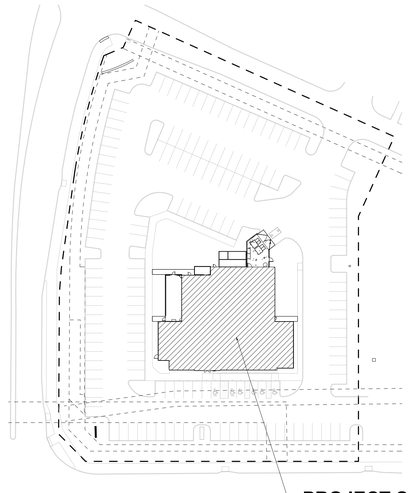
COOPER'S HAWK
WINERY & RESTAURANT

NEW FREESTANDING BUILDING AT
540 NW CHIPMAN ROAD, LEE'S SUMMIT, MO
64086

ISSUED FOR PERMIT 08/19/2021

KEY PLAN N.T.S.



AREA/LOCATION MAP N.T.S.



SCOPE OF WORK

THE EXTENT OF CONSTRUCTION FOR THIS PROJECT IS A NEW 10,772 SQUARE FEET FREESTANDING, ONE STORY RESTAURANT WITH A MECHANICAL EQUIPMENT PLATFORM AND AN EXTERIOR PATIO OF 736 SQUARE FEET.

PROJECT TEAM

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INDEX OF DRAWINGS

LEGEND

•	FIRST ISSUE OR REVISION
o	NO REVISION
×	SHEET HAS BEEN OMITTED

		08/19/2021 ISSUED FOR PERMIT
GENERAL INFORMATION		
T1.1	TITLE SHEET	•
AB1.1	ABBREVIATION & SYMBOLS	•
EM1.1	OCCUPANCY AND EXITING PLAN	•
ADA1.1	GENERAL ACCESSIBILITY DETAILS	•
A0.1	RESPONSIBILITY SCHEDULE	•
SP1.1	SITE PLAN	•
SP1.2	PATIO PLAN & DETAILS	•
SP1.3	SERVICE YARD & DETAILS	•
CIVIL (FOR REFERENCE)		
C001	COVER SHEET	•
C051	EROSION CONTROL PLAN	•
C101	SITE PLAN	•
C102	GRADING PLAN	•
C103	UTILITY PLAN	•
C201	STORM PLAN & PROFILE	•
C202	STORM PLAN & PROFILE	•
C301	DRAINAGE MAP	•
C302	DRAINAGE CALCULATION	•
C501	DETAILS	•
C502	DETAILS	•
C503	DETAILS	•
C504	DETAILS	•
C505	DETAILS	•
C506	DETAILS	•
L100	LANDSCAPE PLANS	•
L101	BUILDING LANDSCAPE PLAN	•
L102	LANDSCAPE DETAILS AND NOTES	•
L200	IRRIGATION LIMITS PLAN	•
E 100	ELEC SPECIFICATIONS AND LEGEND	•
E 101	SITE LIGHTING PLAN AND DETAILS	•
E 102	SITE LIGHTING POINT BY POINT AND SCHEDULES	•
ARCHITECTURAL		
A1.0	CURB & FOUNDATION PLAN	•
A1.1	NOTED FLOOR PLAN	•
A1.2	DIMENSIONED FLOOR PLAN	•
A1.3	EQUIPMENT PLATFORM PLANS	•
A2.1	REFLECTED CEILING PLAN	•
A2.2	LIGHTING DIMENSION PLAN	•
A2.3	LIGHT FIXTURE SCHEDULE	•
A2.4	ENLARGED LIGHTING PLANS	•
A2.5	MISCELLANEOUS LIGHTING DETAILS	•
A3.1	ROOF PLAN	•
A3.2	ROOF DETAILS	•
A4.1	EXTERIOR ELEVATIONS	•
A4.2	EXTERIOR ELEVATIONS	•
A5.1	BUILDING SECTIONS	•
A6.1	WALL SECTIONS	•
A6.2	WALL SECTIONS	•
A6.3	WALL SECTIONS	•
A7.1	DOOR & STOREFRONT DETAILS	•
A7.2	SECTION DETAILS	•
A8.1	ENLARGED TOILET & OFFICE PLANS	•
A8.2	EQUIPMENT PLATFORM SECTION	•
A9.1	DOOR & WINDOW SCHEDULES	•
A9.2	FINISH SCHEDULE	•
A10.1	INTERIOR ELEVATIONS	•
A10.2	INTERIOR ELEVATIONS	•
A10.3	INTERIOR ELEVATIONS	•
A10.4	INTERIOR ELEVATIONS	•
A10.5	INTERIOR ARTWORK ELEVATIONS	•
A11.1	WALL TYPES & BRACING DETAILS	•
A11.2	BRACING DETAILS	•
A11.3	CEILING DETAILS	•
A11.4	TASTING BAR SECTIONS & DETAILS	•

		08/19/2021 ISSUED FOR PERMIT
A11.5	BAR SECTIONS & DETAILS	•
A11.6	RETAIL MILLWORK DETAILS	•
A11.7	MILLWORK DETAILS	•
A11.8	CHECK OUT & CARRY OUT DETAILS	•
A11.9	MILLWORK & COLUMN DETAILS	•
A11.10	COUNTER AND CABINET DETAILS	•
A11.11	P.O.S. & DECANTER DETAILS	•
A11.12	RETAIL DISPLAY DETAILS	•
A12.1	WALL & FLOOR FINISH PLAN	•
A12.2	SEATING PLAN & FURNITURE LEGEND	•
A12.3	FINISH FLOOR & BOOTH DETAILS	•
G1.1	SPECIFICATION SHEET	•
G1.2	SPECIFICATION SHEET	•
G1.3	SPECIFICATION SHEET	•
G1.4	SPECIFICATION SHEET	•
G1.5	SPECIFICATION SHEET	•
G1.6	SPECIFICATION SHEET	•
G1.7	SPECIFICATION SHEET	•
STRUCTURAL		
S1.0	GENERAL NOTES	•
S1.1	SPECIAL INSPECTIONS	•
S1.2	TYPICAL DIAGRAMS	•
S1.3	TYPICAL SCHEDULES AND DETAILS	•
S2.0	FOUNDATION PLAN	•
S3.0	ROOF FRAMING PLAN	•
S4.0	FOUNDATION SECTIONS	•
S4.1	FOUNDATION SECTIONS	•
S5.0	ROOF FRAMING DETAILS	•
S5.1	FRAMING SECTIONS	•
S5.2	FRAMING SECTIONS	•
S6.0	BRACE FRAME ELEVATIONS	•
FOOD SERVICE EQUIPMENT		
QF001	FOODSERVICE GENERAL NOTES, LEGENDS, SHEET INDEX	•
QF002	FOOD SERVICE SCHEDULES	•
QF003	FOODSERVICE SCHEDULES	•
QF004	FOODSERVICE SCHEDULES	•
QF100	FOOD SERVICE EQUIPMENT PLAN	•
QF101	FOOD SERVICE EQUIPMENT SCHEDULE	•
QF200	FOOD SERVICE PLUMBING IN-SLAB ROUGH-IN PLAN	•
QF201	FOOD SERVICE PLUMBING ABOVE SLAB ROUGH-IN PLAN	•
QF300	FOOD SERVICE ELECTRICAL ROUGH-IN PLAN	•
QF400	FOOD SERVICE SPECIAL CONDITIONS PLAN	•
QF401	FOOD SERVICE BEVERAGE CONDUIT PLAN	•
QF500	FOOD SERVICE KEY ELEVATION PLAN	•
QF501	FOOD SERVICE ELEVATIONS	•
QF502	FOOD SERVICE ELEVATIONS	•
QF503	FOOD SERVICE ELEVATIONS	•
QF504	FOOD SERVICE 3D VIEWS	•
QF505	FOOD SERVICE 3D VIEWS AND ELEVATIONS	•
QF506	FOOD SERVICE 3D VIEWS AND ELEVATIONS	•
QF600	FOOD SERVICE DETAILS	•
QF601	FOOD SERVICE DETAILS	•
QF700	VENDOR-CUSTOM FABRICATION - HOOD	•
QF701	VENDOR-CUSTOM FABRICATION - HOOD	•
QF702	VENDOR-CUSTOM FABRICATION - HOOD	•
QF703	VENDOR-CUSTOM FABRICATION - HOOD	•
QF704	VENDOR-CUSTOM FABRICATION - HOOD	•
QF705	VENDOR-CUSTOM FABRICATION - HOOD	•
QF706	VENDOR-CUSTOM FABRICATION - HOOD	•
QF707	VENDOR-CUSTOM FABRICATION - HOOD	•
QF708	VENDOR-CUSTOM FABRICATION - HOOD	•
QF709	VENDOR-CUSTOM FABRICATION - HOOD	•
QF710	VENDOR-CUSTOM FABRICATION - HOOD	•

		08/19/2021 ISSUED FOR PERMIT
QF711	VENDOR-CUSTOM FABRICATION - HOOD	•
QF712	VENDOR-CUSTOM FABRICATION - HOOD	•
QF713	VENDOR-CUSTOM FABRICATION - WALK-IN	•
QF714	VENDOR-CUSTOM FABRICATION - WALK-IN	•
QF715	VENDOR-CUSTOM FABRICATION - WALK-IN	•
QF716	VENDOR-CUSTOM FABRICATION - WALK-IN	•
QF717	VENDOR-CUSTOM FABRICATION - WALK-IN	•
QF718	VENDOR-CUSTOM FABRICATION - WALK-IN	•
QF719	VENDOR-CUSTOM FABRICATION - WALK-IN	•
QF720	VENDOR-CUSTOM FABRICATION - WALK-IN	•
MECHANICAL		
M000	HVAC - SYMBOLS & NOTES	•
M001	MECHANICAL SPECIFICATIONS	•
M101	HVAC - FLOOR PLAN	•
M102	HVAC - ROOF PLAN	•
M300	HVAC - DETAILS	•
M301	HVAC - DETAILS	•
M400	HVAC - SCHEDULES	•
M401	HVAC - SCHEDULES	•
M600	KEC REFERENCE DRAWINGS	•
M601	KEC REFERENCE DRAWINGS	•
M602	KEC REFERENCE DRAWINGS	•
M603	KEC REFERENCE DRAWINGS	•
M604	KEC REFERENCE DRAWINGS	•
M605	KEC REFERENCE DRAWINGS	•
PLUMBING		
P100	PLUMBING SYMBOLS & NOTES	•
P101	PLUMBING SCHEDULES	•
P102	PLUMBING SCHEDULES	•
P103	DIAGRAMS - WASTE, VENT & STORM PIPING	•
P104	DIAGRAMS - POTABLE PIPING	•
P105	PLUMBING DETAILS	•
P106	PLUMBING DETAILS	•
P201	PLUMBING - GAS PIPING PLAN	•
P202	PLUMBING - GAS PIPING ROOF PLAN	•
P203	PLUMBING - BUILDING GAS PIPING RISER DIAGRAM	•
P204	PLUMBING - PARTIAL GAS PIPING RISER DIAGRAM	•
P300	PLUMBING - UNDERGROUND PLAN	•
P301	PLUMBING - FLOOR PLAN	•
P310	PLUMBING - ROOF PLAN	•
ELECTRICAL		
E100	ELECTRICAL NOTE & SPEC	•
E101	ELECTRICAL DETAIL AND SCHEDULES	•
E102	ELECTRICAL SCHEDULES	•
E103	ELECTRICAL SCHEDULES	•
E104	ELECTRICAL SCHEDULES	•
E105	ELECTRICAL CONTROLS & DETAILS	•
E106	HOOD DETAILS	•
E107	HOOD DETAILS	•
E108	HOOD DETAILS	•
E109	HOOD DETAILS	•
E110	HOOD DETAILS	•
E111	HOOD DETAILS	•
E201	ELECTRICAL - LIGHTING PLAN	•
E202	MISCELLANEOUS LIGHTING PLAN	•
E301	ELECTRICAL - POWER PLAN	•
E302	FOOD SERVICE ELECTRICAL ROUGH-IN PLAN	•
E401	ELECTRICAL - FIRE ALARM & HVAC EQUIPMENT PLAN	•
E402	ELECTRICAL - ROOF PLAN	•
T301	ELECTRICAL - LV & SPECIAL SYSTEM PLAN	•
FIRE AND SECURITY		
FP100	FIRE PROTECTIOINS SPECS	•
FP201	FIRE PROTECTIOIN - FLOOR PLAN	•

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FIELD VERIFICATION
Contractor shall verify all figured dimensions and conditions at the job site and notify Aria Group Architects, Inc. of any dimensional errors, omissions or discrepancies before beginning or fabricating any work. Do not scale these drawings.

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NO.	DATE	REMARKS
1	08/19/2021	ISSUED FOR PERMIT

REVISIONS

STATE OF MISSOURI
DANIEL PAUL BERNATEK
NUMBER A-2010026259
ARCHITECT
8/19/21
EXP 12/31/22

Drawing Title
TITLE SHEET

Job No.	Drawn
204530	EN

Scale	Date
N.T.S.	08/19/2021

Sheet No.
T1.1

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MATERIAL DESIGNATIONS

- EARTH
- GRANULAR FILL (STONE OR GRAVEL, SUB BASE, ETC.)
- ROCK
- CONCRETE (CAST IN PLACE OR PRECAST)
- BRICK (COMMON OR FACE)
- CONCRETE MASONRY UNITS (CMU)
- CUT STONE, CASE STONE, NATURAL STONE
- METAL (LARGE SCALE)
- METAL (SMALL SCALE STRUCTURAL & SHEET)
- PLYWOOD
- WOOD FINISH
- WOOD ROUGH (CONTINUOUS)
- WOOD ROUGH (BLOCKING)
- INSULATION / ATTENUATION (LOOSE OR BATT)
- INSULATION (RIGID)
- GLASS (LARGE SCALE)
- ACOUSTICAL TILE
- CERAMIC TILE (LARGE SCALE)
- GYPSUM WALL BOARD, PLASTER, SAND, CEMENT, GROUT
- TERRAZZO
- GLASS BLOCK
- EXISTING PARTITION OR WALL
- NEW PARTITION OR WALL
- HALF WALL - SEE ELEVATION FOR HEIGHT
- COOLER WALL WITH INSULATION

GRAPHIC SYMBOLS

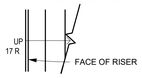
- ROOM/SPACE NUMBER (ROOM / XXX)
- DOOR NUMBER (XXX)
- WINDOW NUMBER (X.X)
- WALL TYPES (X)
- KEYNOTE SYMBOL (X)
- CEILING HEIGHT (X'-X")
- CEILING FINISH
- FLOOR FINISH
- WALL FINISH
- BUILDING SECTION (REFERENCE DRAWING NUMBER) (X / AX.X)
- WALL SECTION (REFERENCE DRAWING NUMBER) (X / AX.X)
- DETAIL (REFERENCE DRAWING NUMBER) (X / AX.X)
- ELEVATION (REFERENCE DRAWING NUMBER) (X / AX.X)

REFERENCES

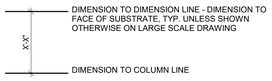
- INDICATES DETAIL NUMBER
- INDICATES SHEET NUMBER

- COLUMN REFERENCE GRIDS (A / 1)

STAIR DIRECTION SYMBOL



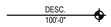
DIMENSION SYMBOL



CENTER LINES, FLOOR LINES, PROJECTED LINES

PROPERTY LINES, BOUNDARY LINES

NEW OR REQUIRED POINT ELEVATION



- REVISION TO DRAWING

STANDARD ABBREVIATION

SYMBOLS USED AS ABBREVIATIONS

@	AT SPACING OF
<	CENTER LINE
∅	DIAMETER

ABBREVIATIONS

A/C	AIR CONDITIONING
ACT	ACOUSTICAL TILE
ACR	ACRYLIC PLASTIC
ADJ	ADJACENT
AFF	ABOVE FINISHED FLOOR
AGG	AGGREGATE
ALT	ALTERNATE
AL	ALUMINUM
ANOD	ANODIZED
ARCH	ARCHITECT, ARCHITECTURAL
ASPH	ASPHALT
AUTO	AUTOMATIC
B/	BOTTOM OF
B.O.	BY OWNER
BD	BOARD
BL	BASE LINE
BLDG	BUILDING
BPL	BEARING PLATE
BRG	BEARING
BRK	BRICK
BRZ	BRONZE
BSMT	BASEMENT
C.O.	CASED OPENING
CAB	CABINET
CB	CEMENT BOARD
CG	CORNER GUARD
CIR	CIRCLE
CIRC	CIRCUMFERENCE
CJ	CONTROL JOINT
CLG	CEILING
CLR	CLEAR, CLEARANCE
CM	CENTIMETER(S)
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
COMP	COMPRESS, (ED), (ION), (IBLE)
CONC	CONCRETE
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUE, CONTINUOUS
CONTR	CONTRACT(OR)
CORR	CORRUGATED
CPT	CARPET
CSMT	CASEMENT
CT	CERAMIC TILE
CTR	COUNTER
CU.FT.	CUBIC FOOT
CYD	CUBIC YARD
DL	DEAD LOAD
DEMO	DEMOLISH, DEMOLITION
DTL	DETAIL
DIAG	DIAGONAL
DIA	DIAMETER
DIM	DIMENSION
DIV	DIVISION
DN	DOWN
DS	DOWN SPOUT
DT	DRAIN TILE
DWR	DRAWER
DWG	DRAWING
DF	DRINKING FOUNTAIN
DW	DUMBWAITER
E	EAST
EA	EACH
EB	EXPANSION BOLT
EF	EXHAUST FAN (MECH)
EJ	EXPANSION JOINT
EL	ELEVATION (VERTICAL HEIGHT)
ELEC	ELECTRIC(AL)
ELEV	ELEVATION (VIEW)
EMER	EMERGENCY
ENCL	ENCLOSE, (URE)
EP	ELECTRICAL PANEL
EQ	EQUAL
EQP	EQUIPMENT
ESMNT	EASEMENT
EST	ESTIMATE
EX(E)	EXISTING
EXH	EXHAUST
EXT	EXTERIOR
FA	FIRE ALARM
FD	FLOOR DRAIN
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FFE	FINISHED FLOOR ELEVATION
FFL	FINISHED FLOOR LINE
FIN	FINISH(ED)
FIXT	FIXTURE
FLR	FLOOR(ING)
FND	FOUNDATION
FOC	FACE OF CONCRETE
FOF	FACE OF FINISH
FOM	FACE OF MASONRY
FOS	FACE OF STUDS
FRT	FIRE-RETARDANT
FT	FIRE TREATED
FTG	FOOTING
FUR	FURRED, (ING)
GA	GAUGE
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GL	GLASS, GLAZING
GLAM	GLUED LAMINATE
GYP BD	GYPSUM WALLBOARD
HB	HOSE BIBB
HDR	HEADER
HDWD	HARDWOOD
HDWR	HARDWARE
HM	HOLLOW METAL
HORZ	HORIZONTAL
HP	HIGH POINT
HT	HEIGHT
HVAC	HEATING/ VENTILATING/ AIR CONDITIONING
ID	INSIDE DIAMETER
IGU	INSULATING GLAZING UNIT
INCAN	INCANDESCENT
INCIN	INCINERATOR
INCL	INCLUDE, (ED), (ING)
INS	INSULATE, (ED), (ING)
INT	INTERIOR
INV	INVERT
JT	JOINT
KO	KNOCKOUT
L	LENGTH
LAM	LAMINATE(D)
LAV	LAVATORY
LH	LEFT HAND
LHR	LEFT HAND REVERSE
LL	LIVE LOAD
LOC	LOCATION
LP	LOW POINT
LT	LIGHT
LW	LIGHTWEIGHT
M	METER(S)
MAS	MASONRY
MAU	MAKE-UP AIR UNIT (MECH)
MAX	MAXIMUM
MBR	MEMBRANE
MDO	MEDIUM DENSITY OVERLAY
MECH	MECHANIC(AL)
MED	MEDIUM
MFR	MANUFACTURE(R)
MIN	MINIMUM
MIR	MIRROR
MISC	MISCELLANEOUS
MM	MILLIMETER(S)
MOD	MODIFIED
MOV	MOVABLE
MR	MOISTURE RESISTANT
MT	MOUNT, (ED), (ING)
MTL	METAL
N	NORTH
NAT	NATURAL
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NTS	NOT TO SCALE
OA	OVERALL
OC	ON CENTER(S)
OD	OUTSIDE DIAMETER
OH	OVERHEAD
OPP. HAND	OPPOSITE HAND
ORN	ORNAMENTAL
PAR	PARALLEL
PCF	POUNDS PER CUBIC FOOT
PER	PERIMETER
PERF	PERFORATE(D)
PRE FAB	PREFABRICATED
PRE FIN	PREFINISHED
PG	PLATE GLASS
PL	PROPERTY LINE
PLAM	PLASTIC LAMINATE
PLF	POUNDS PER LINEAR FOOT
PLYWD	PLYWOOD
PNL	PANEL(ING)
PRPT	PARAPET
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	POINT
PVC	POLYVINYL CHLORIDE
PVMT	PAVEMENT
QT	QUARRY TILE
R	RISER
RA	RETURN AIR
RAD	RADIUS
RB	RUBBER BASE
RD	ROOF DRAIN
REF	REFER(ENCE)
REFR	REFRIGERATOR
REG	REGISTER
REINF	REINFORCE, (ED), (ING)
REQ'D	REQUIRED
RET	RETURN
REV	REVISE, REVISION
RFL	REFLECT, (ED), (IVE), (OR)
RH	RIGHT HAND
RM	ROOM
RO	ROUGH OPENING
ROW	RIGHT OF WAY
RTU	ROOF TOP UNIT (MECH)
S	SOUTH
SC	SOLID CORE
SCH	SCHEDULE
SCUP	SCUPPER
SD	STORM DRAIN
SEC	SECTION
SF	SQUARE FEET
SHT	SHEET
SIM	SIMILAR
SPKR	SPEAKER
SPEC	SPECIFICATION
SQ	SQUARE
SST	STAINLESS STEEL
ST	STEEL
STCO	STUCCO
STD	STANDARD
STOR	STORAGE
STR	STRUCTURAL
SUSP	SUSPENDED
SVYD	SERVICE YARD
SYM	SYMMETRY, (ICAL)
SYS	SYSTEM
T	TEMPERED
T/	TOP OF...
T&G	TONGUE AND GROOVE
TEL	TELEPHONE
THK	THICK(NESS)
THR	THRESHOLD
TOL	TOLERANCE
TPG	TOPPING
TR	TRANSOM
TV	TELEVISION
TYP	TYPICAL
UC	UNDERCUT
UNF	UNFINISHED
UNO	UNLESS NOTED OTHERWISE
UTIL	UTILITY
VCT	VINYL COMPOSITION TILE
VERT	VERTICAL
VNR	VENEER
VT	VINYL TILE
W	WEST
W/O	WITHOUT
WC	WATER CLOSET
WD	WOOD
WG	WIRE GLASS
WH	WATER HEATER
WI	WROUGHT IRON
WIN	WINDOW
WM	WIRE MESH
WP	WATERPROOFING
WR	WATER RESISTANT
WS	WATERSTOP
WWF	WELDED WIRE FABRIC

GENERAL NOTES

1. THE GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AND SHALL REPORT ALL DISCREPANCIES TO THE ARCHITECT PRIOR TO COMMENCING THE WORK.
2. THE GENERAL CONTRACTOR SHALL VERIFY LOCATION OF ALL UTILITIES AND SHALL NOTIFY ARCHITECT OF ANY AND ALL DISCREPANCIES PRIOR TO COMMENCING CONSTRUCTION.
3. ALL WORK SHALL BE IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL CODES, ORDINANCES AND ANY APPLICABLE AMENDMENTS.
4. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING TEMPORARY BRACING AS REQUIRED, TO ENSURE THE VERTICAL AND LATERAL STABILITY OF THE ENTIRE STRUCTURE OR A PORTION THEREOF DURING CONSTRUCTION.
5. THE GENERAL CONTRACTOR SHALL PROVIDE OPENINGS & CORES, NOT SPECIFICALLY SHOWN ON THE DRAWING, AS REQUIRED FOR MECHANICAL AND ELECTRICAL EQUIPMENT, VENTS, DUCTS, AND TYPICAL DETAILS.
6. THE GENERAL CONTRACTOR SHALL COORDINATE THE WORK OF ALL TRADES, INCLUDING ADVISING ALL TRADES OF FEATURES OF CONSTRUCTION AND PROVIDING BLOCKS, HOLES, DEPRESSIONS, ETC, AS REQUIRED, FOR A COMPLETE JOB. REFER TO ALL DRAWINGS FOR SLAB DEPRESSIONS, SLOPES, CURBS, DRAINS, OPENINGS, ETC.
7. THE GENERAL CONTRACTOR IS TO BUILD AND MAINTAIN CONSTRUCTION BARRICADES (ALL NECESSARY LIGHTS, SIGN, ETC.) FOR THE PROTECTION OF THE PUBLIC, AS PER LOCAL ORDINANCES AND LANDLORD REQUIREMENTS.
8. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OR REPLACEMENT FOR ANY DAMAGE CAUSED BY HIM OR HIS SUBCONTRACTORS TO EXISTING WORK IN PLACE.
9. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ANY MISCELLANEOUS PERMITS, FEES, AND INSPECTIONS AS MAY BE REQUIRED FOR COMPLETION OF THE JOB AS PER ALL GOVERNING AGENCIES.
10. NO STRUCTURAL CHANGES FROM THE APPROVED PLANS SHALL BE MADE IN THE FIELD WITHOUT PRIOR WRITTEN APPROVAL FROM THE STRUCTURAL ENGINEER. IF CHANGES ARE MADE WITHOUT WRITTEN APPROVAL, SUCH CHANGES SHALL BE THE LEGAL AND FINANCIAL RESPONSIBILITY OF THE CONTRACTOR TO REPLACE OR REPAIR AS DIRECTED BY THE STRUCTURAL ENGINEER.
11. ALL CONTRACTORS SHALL PROVIDE LIABILITY INSURANCE AND WORKERS COMPENSATION BENEFITS IN ACCORDANCE WITH STATE LAW FOR ALL WORKERS AND AGENTS WHO WILL BE ON THE SITE AT ANY TIME. TENANT'S GENERAL CONTRACTOR MUST PROVIDE INSURANCE CERTIFICATE WITH COVERAGE'S AND ADDITIONAL INSURANCE AS REQUIRED BY LANDLORD PRIOR TO CONSTRUCTION START.
12. THE GENERAL CONTRACTOR SHALL REPORT ANY DEFECTS, DISCREPANCIES, PROBLEMS OR UNCERTAINTIES TO THE ARCHITECT, FOR RESOLUTION PRIOR TO PROCEEDING WITH THE WORK AFFECTED.
13. THE GENERAL CONTRACTOR AND HIS SUBCONTRACTORS SHALL BE FULLY ACQUAINTED WITH SCOPE OF THE WORK TO BE PERFORMED AND SHALL INSPECT SITE CONDITIONS PRIOR TO BID SUBMITTAL. BID SHALL INCLUDE ALL LABOR AND MATERIALS REQUIRED TO COMPLETE THE SCOPE OF WORK.
14. IT IS UNDERSTOOD THAT THE OWNER MAY BE PURCHASING AND/OR INSTALLING MATERIALS, EQUIPMENT, AND FURNISHINGS UNDER SEPARATE CONTRACTS. THE GENERAL CONTRACTOR AND HIS SUBCONTRACTORS SHALL COOPERATE WITH THE OWNER TO ALLOW THE DELIVERY AND INSTALLATION OF SUCH MATERIALS, EQUIPMENT, AND FURNISHINGS BY OTHER CONTRACTORS AND SUPPLIERS WHICH MAY COMMENCE PRIOR TO FINAL ACCEPTANCE OF THE REMODELED SPACE BY THE OWNER SO AS TO ASSURE THE OWNER OF THE EARLIEST POSSIBLE COMPLETION DATE.
15. THE TERM "ARCHITECT" SHALL MEAN ARIA GROUP ARCHITECTS, INC. , 830 NORTH BOULEVARD, OAK PARK, ILLINOIS 60301 TEL: 708-445-8400.
16. NO EXTRAS WILL BE ALLOWED FOR CLAIMS DUE TO UNFORESEEN OR UNANTICIPATED CONDITIONS WHICH COULD HAVE BEEN DISCOVERED BY THE BIDDING CONTRACTOR DURING INSPECTION OF THE SITE DURING THE BIDDING PERIOD AND PRIOR TO THE COMMENCEMENT OF THE WORK.
17. THESE DRAWINGS ARE NOT TO BE SCALED. IF REQUIRED DIMENSIONS OR INFORMATION CANNOT BE FOUND WITHIN THE DRAWINGS OR SPECIFICATIONS, THE ARCHITECT SHALL BE REQUESTED TO INTERPRET THE DOCUMENT, AND HIS INTERPRETATIONS SHALL BE FINAL AND BINDING.
18. NO SUBSTITUTIONS ALLOWED.
19. ALL PARTITIONS, ASSEMBLIES, DOORS, AND FRAMES, ETC., SHALL BE PROVIDED SO AS TO ACHIEVE FIRE RESISTIVE RATINGS AS INDICATED ON DRAWINGS.

REMARKS/NOTES

HOURS OF CONSTRUCTION

HOURS OF CONSTRUCTION SHALL BE IN ACCORDANCE WITH LEASE AND GOVERNMENTAL AGENCIES AND RESTRICTIONS.

FIRE NOTES

A. SPRINKLER SYSTEM PROVIDED AS DESIGN BUILD. G.C. TO PROVIDE FIRE SPRINKLER DESIGN AND SHOP DRAWINGS TO FIRE OFFICIALS FOR APPROVAL PRIOR TO FABRICATION AND INSTALLATION.

B. SPRINKLER MONITORING ALARM IS REQUIRED.

C. RANGE HOOD EXTINGUISHING SYSTEM MUST BE TIED TO FIRE ALARM.

D. HVAC SMOKE DETECTORS MUST BE TIED TO FIRE ALARM.

SHOP DRAWING/SUBMITTAL PROCEDURES

PLEASE FOLLOW THE BELOW PROCEDURE FOR SUBMITTALS AND SHOP DRAWINGS.

1. G.C. RECEIVES SUBMITTAL FROM SUBCONTRACTOR, THOROUGHLY REVIEWS FOR COMPLIANCE WITH PLANS AND MAKES RED MARKS ON SUBMITTAL. THE SUBMITTAL MUST BEAR G.C. REVIEW STAMP AND APPROVER SIGNATURE. IF SUBMITTALS ARE SENT DIRECTLY FROM SUB CONTRACTORS, THEY WILL BE RETURNED TO THE G.C.. ANY SHOP DRAWINGS THAT ARE COPIES OF THE CONSTRUCTION DOCUMENTS WILL BE IMMEDIATELY RETURNED WITHOUT REVIEW OR COMMENT.
2. G.C. SENDS ELECTRONIC SHOP DRAWING COPY IN 24-BIT COLOR PDF FORMAT (OR 300 DPI MINIMUM IF SCANNED), CLEAR AND TO-SCALE WITH TRANSMITTAL TO THE ARCHITECT. G.C. TRANSMITTAL MUST CONTAIN DUE DATE. EACH SUBMITTAL MUST BE ATTACHED AS A SEPARATE FILE AND NAMED ACCORDINGLY. DO NOT SET PERMISSION RESTRICTIONS ON ATTACHMENTS. WHENEVER POSSIBLE, CREATE DIGITAL FILES FROM ORIGINALS FOR CLARITY. UNREADABLE OR ILLEGIBLE SUBMITTALS WILL BE REJECTED.
3. THE ARCHITECT FORWARDS THE ELECTRONIC PDF COPY TO THE APPROPRIATE CONSULTANT(S) WITH COPY OF G.C. SUBMITTAL.
4. THE CONSULTANT MAKES COMMENTS AND RETURNS ONE ELECTRONIC PDF COPY TO THE ARCHITECT FOR FINAL COMMENTS.
5. ARCHITECT MAKES FINAL COMMENTS AND SENDS ELECTRONIC PDF COPY TO G.C. AND RETAINS ONE RECORD FILE COPY FOR THE ARCHITECT.
6. FOR MATERIAL SAMPLE SUBMITTALS, A MINIMUM OF 3 ACTUAL SAMPLES IN THE COLOR, PATTERN, TEXTURE, FINISH, ETC. SPECIFIED ARE REQUIRED TO BE SENT TO THE ARCHITECT FOR REVIEW. SAMPLES SHALL BE OF A SIZE TO CLEARLY ILLUSTRATE THE FULL RANGE OF COLOR, TEXTURE AND PATTERN. THE ARCHITECT WILL RETURN TWO SAMPLES TO THE G.C. AND RETAIN ONE RECORD COPY.
7. ONE COPY OF BOOTH DRAWINGS WITH A FABRIC SAMPLE INDICATING THE DIRECTION OF THE FABRIC OFF THE BOLT IS SENT TO THE ARCHITECT BY THE BOOTH MANUFACTURER. THE ARCHITECT SENDS FINAL COMMENTS TO THE BOOTH MANUFACTURER AND COPIES OWNER.
8. FAILURE TO SUBMIT SHOP DRAWINGS BEFORE THE WORK IS FURNISHED & INSTALLED WILL MAKE THE G.C. RESPONSIBLE FOR COST OF REPLACEMENT OF WORK AS WELL AS ALL OVERTIME COSTS, SO AS NOT TO DELAY THE PROJECT SCHEDULE. BELOW IS A LIST OF SHOP DRAWINGS THAT REQUIRE EXTENDED REVIEW TIMES. G.C. TO SUBMIT IN A TIMELY MANNER TO AVOID DELAY. REVIEW TIME REQUIRED IS FROM THE DATE OF RECEIPT BY ARCHITECT.

SUBMITTAL LIST

NOTE: IF ANY SUBMITTAL IS RECEIVED THAT IS NOT ON THE SUBMITTAL LIST NOTED BELOW THE SUBMITTAL WILL BE RETURNED WITHOUT BEING REVIEWED.

ALLOW A MINIMUM OF 5 WORKING DAYS FOR REVIEW

- STOREFRONT/ GLAZING
- MISCELLANEOUS METALS
- BOOTH SHOPS - MUST INCLUDE FABRIC SAMPLE SHOWING PATTERN DIRECTION
- CARPET SAMPLES
- TILE SAMPLES
- COUNTERTOP SAMPLES
- PLASTER SAMPLES
- BRICK SAMPLES
- PAINT & STAIN DRAW DOWNS(COLOR CHIPS FROM MANUFACTURER WILL NOT BE ACCEPTED AS SAMPLES)
- TOILET ACCESSORIES
- ROOFING INFORMATION
- FIRE ALARM
- HVAC CONTROLS & SENSORS
- HVAC BALANCER & BALANCING REPORT
- GAS PIPING & ACCESSORIES
- FINAL DOCUMENTATION (MANUALS, ETC.)
- ELECTRICAL BOXES, RACEWAYS & FITTINGS
- ELECTRICAL CONDUCTORS & GROUNDING
- WIRING DEVICES
- ELECTRICAL DISTRIBUTION EQUIPMENT
- LIGHTING CONTROL DEVICES

ALLOW A MINIMUM OF 7 WORKING DAYS FOR REVIEW

- ELECTRICAL SWITCH GEAR
- ELECTRICAL PANELS
- MECHANICAL EQUIPMENT (INC. DIFFUSER / REGISTER CUT SHEETS)
- DOOR HARDWARE
- PLUMBING FIXTURES
- WALK-IN COOLER
- STAINLESS STEEL
- LIGHT FIXTURE CUT SHEETS
- DUCT SHOP DRAWING
- FIRE PROTECTION
- ROLL DOWN SHADES
- HOODS

ALLOW A MINIMUM OF 10 WORKING DAYS FOR REVIEW

- STRUCTURAL STEEL
- REBAR LAYOUT
- CONCRETE MIX DESIGNS
- MILLWORK & CASEWORK
- SPRINKLER SHOPS

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FIELD VERIFICATION
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NO.	DATE	REMARKS
1	08/19/2021	ISSUED FOR PERMIT

REVISIONS

STATE OF ILLINOIS
DANIEL PAUL BERNATEK
NUMBER A-2010026259
ARCHITECT
8/19/21
EXP 12/31/22

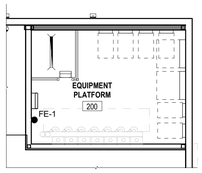
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ABBREVIATION & SYMBOLS

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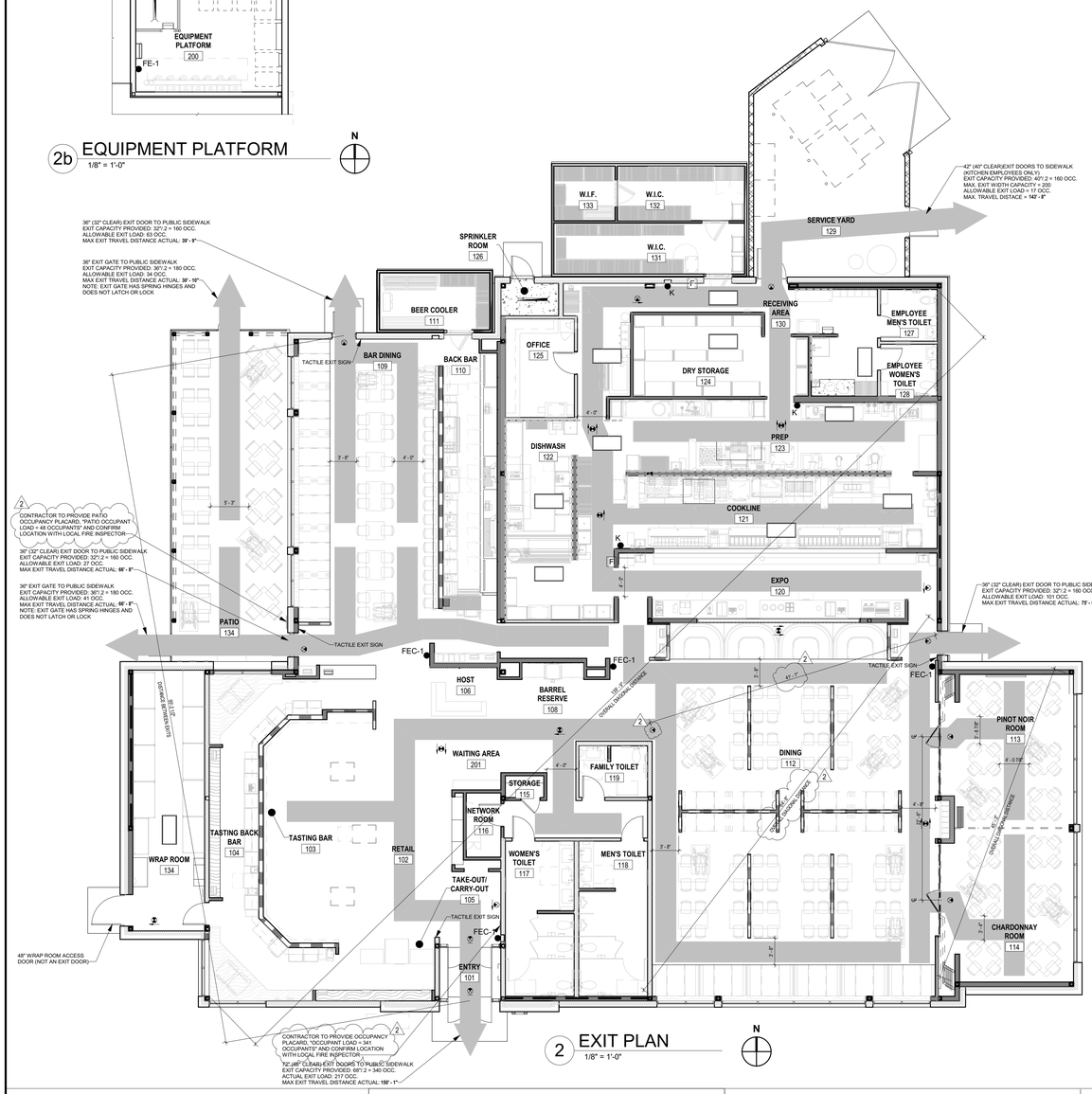
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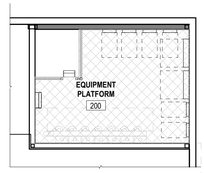
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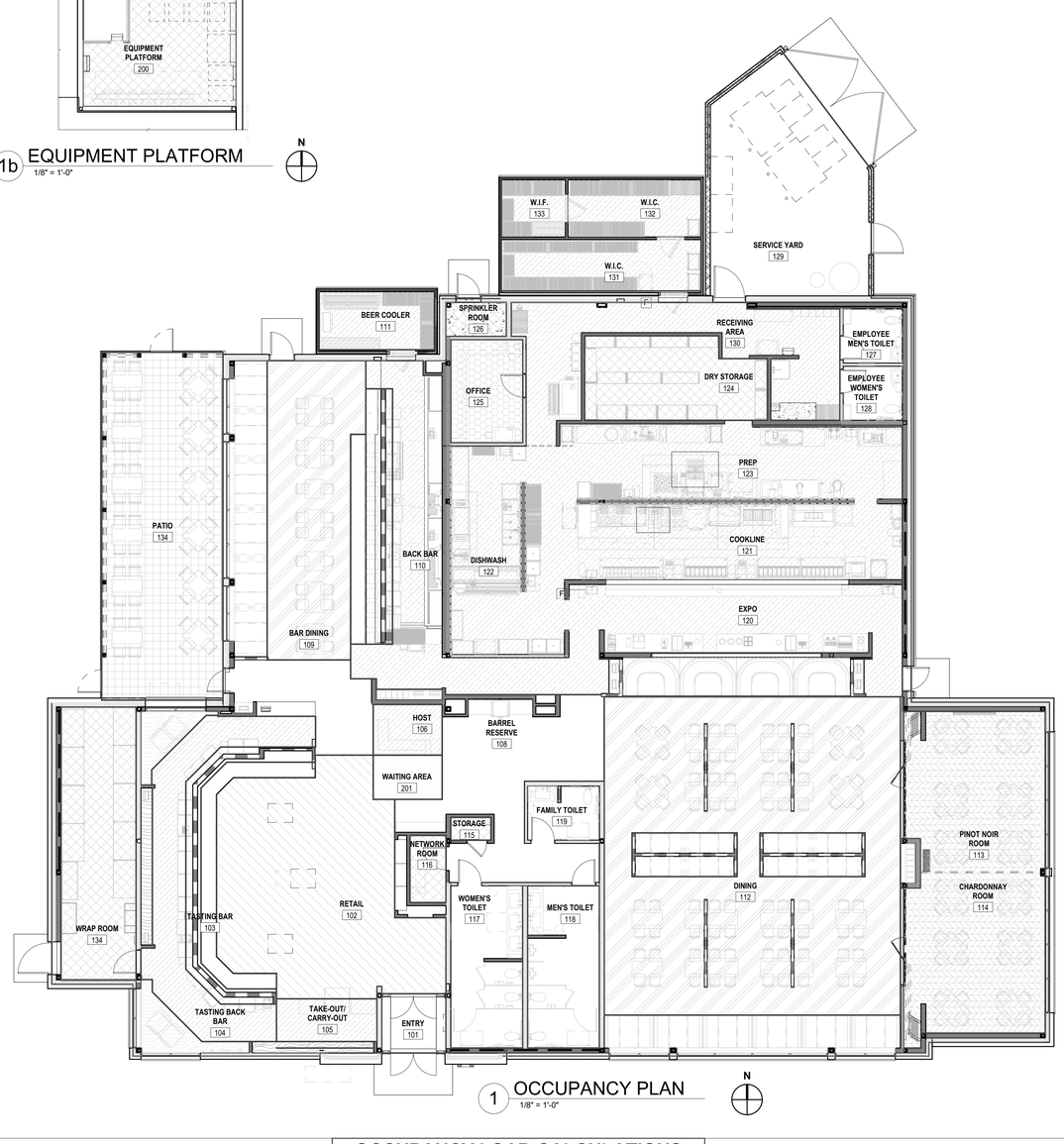
2b EQUIPMENT PLATFORM
1/8" = 1'-0"



2 EXIT PLAN
1/8" = 1'-0"



1b EQUIPMENT PLATFORM
1/8" = 1'-0"



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

GENERAL NOTES

HOURS OF CONSTRUCTION

HOURS OF CONSTRUCTION SHALL BE IN ACCORDANCE WITH LEASE AND GOVERNMENTAL AGENCIES AND RESTRICTIONS.

FIRE NOTES

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B. SPRINKLER MONITORING ALARM IS REQUIRED.

C. RANGE HOOD EXTINGUISHING SYSTEM MUST BE TIED TO FIRE ALARM.

D. HVAC SMOKE DETECTORS MUST BE TIED TO FIRE ALARM.

BUILDING DEPARTMENT NOTES

1. ALL EXIT DOORS SHALL BE OPERABLE FROM INSIDE THE SPACE WITHOUT USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT. ANY SPECIAL LOCKING DEVICES SHALL BE AN APPROVED TYPE, BY THE GOVERNING CODE.
2. ALL EXIT DOORS MUST OPEN OVER A LANDING NOT MORE THAN 1/2" BELOW THE THRESHOLD AND SHALL BE BEVELED SUCH THAT THERE IS A 1/4" MAXIMUM DROP.
3. FLAME SPREAD RATING OR FINISH MATERIAL SHALL BE IN ACCORDANCE WITH ALL LOCAL CODES, ORDINANCES, AND ANY APPLICABLE AMENDMENTS.
4. PROVIDE OCCUPANT LOAD SIGN IN ALL ASSEMBLY ROOMS. SIGN TO READ: "MAXIMUM OCCUPANT LOAD: __ PEOPLE." LOCAL FIRE DEPARTMENT SHALL PROVIDE THE ALLOWABLE NUMBER OF PEOPLE.
5. PROVIDE 2A 10 BC RATED FIRE EXTINGUISHERS FOR EACH 3,000 S.F. OR PORTION THEREOF. TRAVEL DISTANCE SHALL NOT EXCEED 75 FEET OR AS DIRECTED BY FIRE MARSHALL.
6. ALL DECORATIVE MATERIAL TO MEET THE FLAME SPREAD REQUIREMENTS & THE GOVERNING CODE.

SYMBOL LEGEND

DIRECTION OF TRAVEL

EXIT SIGN

EMERGENCY BATTERY PACK - CEILING MOUNTED

ACCESSIBLE TABLE SEATING, REFER TO DETAIL 5/ADA1.1

EMERGENCY LIGHT FIXTURES

APPLICABLE CODES

BUILDING:	2018 INTERNATIONAL BUILDING CODE
ELECTRICAL:	2017 NATIONAL ELECTRICAL CODE
FIRE:	2018 INTERNATIONAL FIRE CODE
PLUMBING:	2018 INTERNATIONAL PLUMBING CODE
MECHANICAL:	2018 INTERNATIONAL MECHANICAL CODE
ENERGY:	2018 ICC IECC
ACCESSIBILITY:	2009 ICC/ANSI A117.1-2009: ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES

EXITING SEPARATION

SPRINKLERED SPACE:	YES
REQUIRED EXITS:	2 PER IBC SECTION 1006.3.2
ACTUAL EXITS:	4 + 1 KITCHEN EXIT
MINIMUM WIDTH OF UNIT EXIT DOORS:	435 OCC. * 0.20" = 87"
ACTUAL WIDTH OF UNIT EXIT DOORS:	164" + 40" KITCHEN EXIT = 204"
OVERALL DIAGONAL DISTANCE:	139'-9"
MINIMUM DISTANCE BETWEEN EXITS: (1/3 OF ACTUAL DIAGONAL DISTANCE) 1007.1.1.2	46'-7"
ACTUAL DISTANCE BETWEEN EXITS:	93'- 2 1/2"
MAXIMUM ALLOWABLE TRAVEL DISTANCE (TABLE 1017.2):	250'-0"
ACTUAL TRAVEL DISTANCE (MAX.)	150'-1"

BUILDING ANALYSIS

BUILDING USE/OCCUPANCY TYPE:	RESTAURANT/ASSEMBLY (A-2)
CONSTRUCTION TYPE:	VB - FULLY SPRINKLED
HEIGHT AND AREA LIMITATIONS: ALLOWABLE HEIGHT / STORIES / AREA (W/ PERMITTED SPRINKLED INCREASE & FRONTAGE INCREASE FROM TABLE 504.3,504.4, 506.2):	60'-0" / 2 STORIES / 24,000 SF
ACTUAL HEIGHT / STORIES:	23'-0" / 1 STORY
BUILDING AREA:	10,772 SF
PATIO AREA:	736 SF
SERVICE YARD AREA:	544 SF
EQUIPMENT PLATFORM:	257 SF

FIRE RESISTANCE RATINGS

ASSEMBLY RATINGS (TABLE 601.602)

TYPE:	VB
EXTERIOR BEARING WALLS:	0 HR
EXTERIOR NON BEARING WALLS:	0 HR
ROOF CONSTRUCTION & SECONDARY MEMBERS:	0 HR
FLOOR CONSTRUCTION & SECONDARY MEMBERS:	0 HR
BEAMS / JOISTS / COLUMNS:	0 HR
INTERIOR BEARING WALLS:	0 HR
INTERIOR NON BEARING WALLS:	0 HR

NOTES: COMPLY WITH ALL LOCAL ORDINANCES AND AMENDMENTS

FIRE EXTINGUISHER SCHEDULE

(VERIFY LOCATIONS & QUANTITIES WITH LOCAL FIRE DEPARTMENT)

SYMBOL	DESCRIPTION
FEC-1	FIRE EXTINGUISHERS 2A-10BC MULTIPURPOSE EXTINGUISHERS IN RECESSED CABINET FOR CLASS A HAZARDS IN ORDINARY (MODERATE) HAZARD OCCUPANCY, (1) EXTINGUISHER PROVIDES 1,500 S.F. OF PROTECTION IN DINING AREAS-DISTANCE TO EXTINGUISHER NOT TO EXCEED 75'-0". MOUNT TOP OF CABINET AT 3'-6" A.F.F., UNLESS NOTED OTHERWISE EMBASSY FIRE EXTINGUISHER (OR ARCHITECT APPROVED EQUAL) AMBASSADOR FLAT TRIM STAINLESS STEEL CABINET (1615 V) RECESSED IN WALL, TYP.
K	FIRE EXTINGUISHERS 1.8 GAL. CLASS K, SATURN 15 WET-CHEMICAL WITH WALL BRACKET. DISTANCE NOT TO EXCEED 30'-0"
FE-1	FIRE EXTINGUISHERS 2A-10BC COSMIC MULTI-PURPOSE DRY CHEMICAL EXTINGUISHERS WITH WALL BRACKET. DISTANCE NOT TO EXCEED 50'-0"
F	ANSUL FIRE PULL

NOTES:

1. CONTRACTOR TO CONFIRM FINAL QUANTITY AND LOCATIONS w/ LOCAL INSPECTORS HAVING JURISDICTION.
2. FIRE DEPARTMENT WILL CONFIRM THE FIRE EXTINGUISHER LOCATIONS ARE ADEQUATE IN THE FIELD.

OCCUPANCY LOAD CALCULATIONS

AREA	SQ. FT.	OCCUPANCY LOAD FACTOR	ALLOWABLE OCCUPANTS	ACTUAL ACCUPANTS
INTERIOR				
BAR (CHAIRS ONLY)	16 CHAIRS	1 PER SEAT	16	16
BAR (STANDING)	75 SF	5 NET	15	15
BAR DINING (FIXED SEATS)	52 LIN. FT.	2 LIN. FT.	26	24
BAR DINING (LOOSE SEATS)	469 SF	15 NET	31	24
DINING (FIXED SEATS)	142 LIN. FT.	2 LIN. FT.	71	56
DINING (LOOSE SEATING)	1462 SF	15 NET	97	80
PINOT NOIR ROOM	382 SF	15 NET	25	24
CHARDONNAY ROOM	396 SF	15 NET	26	24
RETAIL	774 SF	60 GROSS	13	13
TASTING BAR (STANDING)	127 SF	5 NET	25	25
WAITING(STANDING)	54 SF	5 NET	11	11
WAITING(FIXED SEATS)	29 LIN. FT.	2 LIN. FT.	15	3
BACK BARS	909 SF	200 GROSS	5	5
CHECK-OUT	96 SF	200 GROSS	1	1
DRY STORAGE	251 SF	300 GROSS	1	1
HOST	42 SF	200 GROSS	1	1
KITCHEN	2439 SF	200 GROSS	13	13
OFFICE	129 SF	150 GROSS	1	1
NETWORK/SPRINKLER	42 SF	300 GROSS	1	1
WRAPPING/STORAGE	371 SF	300 GROSS	2	2
EQUIPMENT PLATFORM	300 SF	300 GROSS	1	1
			399	341
EXTERIOR				
PATIO (LOOSE SEATS)	713 SF	15 NET	48	48
TOTAL ALLOWABLE OCCUPANCY			446	389

OCCUPANCY TYPE LEGEND

- DINING & BAR (LOOSE SEATING - 1 PERSON PER 15 NET SQ. FT.)
- KITCHEN (1 PERSON PER 200 GROSS SQ. FT.)
- PATIO (LOOSE SEATING - 1 PERSON PER 15 NET SQ. FT.)
- PRIVATE DINING (LOOSE SEATING - 1 PERSON PER 15 NET SQ. FT.)
- RETAIL (1 PERSON PER 60 GROSS SQ. FT.)
- STANDING (1 PERSON PER 5 NET SQ. FT.)
- STORAGE/MECHANICAL (1 PERSON PER 300 GROSS SQ. FT.)
- OFFICE (1 PERSON PER 150 GROSS SQ.FT.)

ACCESSIBILITY NOTES

1. AT LEAST 5% OF THE DINING SURFACES SHALL BE ACCESSIBLE AND DISTRIBUTED THROUGHOUT THE FACILITY PER SECTION 1108.2.9.1 OF THE 2018 INTERNATIONAL BUILDING CODE

RESTROOM REQUIREMENTS

PER 2018 INTERNATIONAL PLUMBING CODE

435 ALLOWABLE OCCUPANTS - 26 EMPLOYEES = 409 ALLOWABLE PUBLIC OCCUPANTS
409 ALLOWABLE PUBLIC OCCUPANTS x 50% = 205 MEN/WOMEN

FIXTURE TYPE	MEN	WOMEN	MEN	WOMEN	FAMILY
	OVERALL REQUIRED		PROVIDED		
WATER CLOSETS (1 PER 75)	3	3	2	3	1
LAVATORIES (1 PER 200)	2	2	2	3	1
URINALS	-	-	2	-	-

NOTES:

1. URINALS SHALL NOT BE SUBSTITUTED FOR MORE THAN 67% OF THE REQUIRED WATER CLOSETS. SEE SECTION 424.2.
2. SEPARATE TOILET ROOMS ARE PROVIDED FOR EMPLOYEES.
3. IN ASSEMBLY AND MERCANTILE OCCUPANCIES, AN ACCESSIBLE FAMILY OR ASSISTED-USE TOILET ROOM SHALL BE PROVIDED WHERE AN AGGREGATE OF 6 OR MORE MALE AND FEMALE WATER CLOSETS IS REQUIRED. 2018 INTERNATIONAL BUILDING CODE SECTION 1109.2.1
4. FIXTURES LOCATED WITHIN FAMILY OR ASSISTED-USE TOILET ROOMS SHALL BE INCLUDED IN DETERMINING THE NUMBER OF FIXTURES PROVIDED IN THE OCCUPANCY PER 2018 INTERNATIONAL BUILDING CODE 1109.2.1 AND INTERNATIONAL PLUMBING CODE, SECTION 403.1.2.

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NO.	DATE	REMARKS
2	09/21/2021	PERMIT RESUBMITTAL
1	08/19/2021	ISSUED FOR PERMIT

REVISIONS

STATE OF MISSOURI
DANIEL PAUL BERNATEK
NUMBER A-2010026259
ARCHITECT
8/19/21
EXP 12/31/22

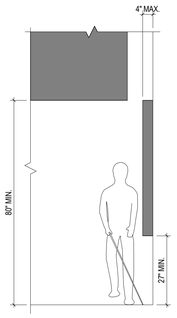
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OCCUPANCY AND EXITING PLAN

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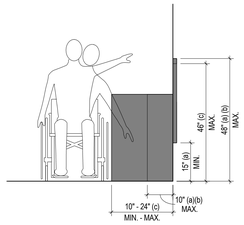
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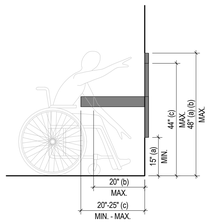
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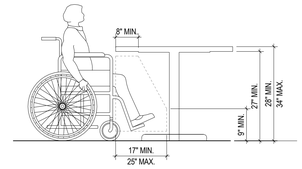
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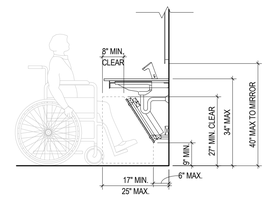
8 UNOBSTRUCTED/OBSTRUCTED SIDE REACH
1/2" = 1'-0"



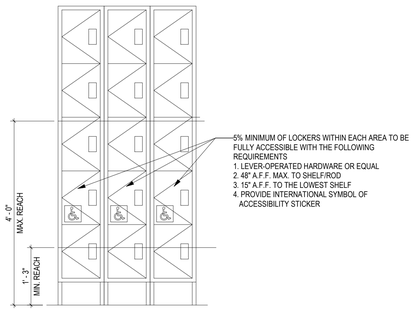
7 UNOBSTRUCTED/ OBSTRUCTED FORWARD REACH
1/2" = 1'-0"



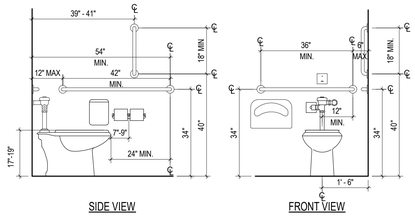
5 ACCESSIBLE TABLE
1/2" = 1'-0"



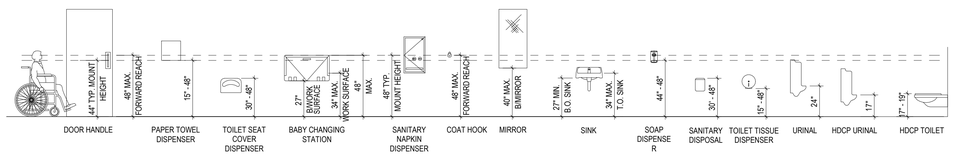
4 ACCESSIBLE LAVATORY
1/2" = 1'-0"



6 ACCESSIBLE LOCKER DETAIL
3/4" = 1'-0"

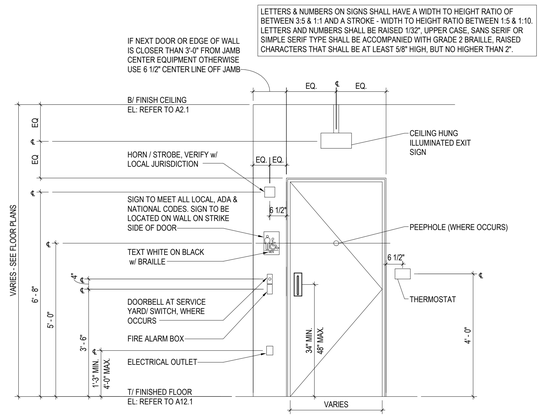


3 ACCESSIBLE WATER CLOSET
1/2" = 1'-0"

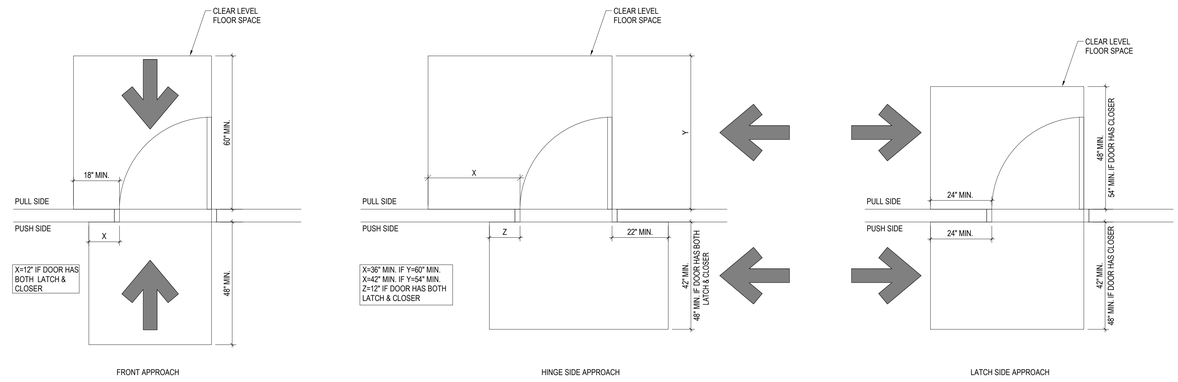


2 ACCESSIBLE MOUNTING HEIGHTS
1/4" = 1'-0"

10 LOCATION OF TACTILE CHARACTERS
1/2" = 1'-0"



9 TYP. EQUIPMENT LAYOUT @ DOOR
1/2" = 1'-0"



1 TYPICAL DOOR CLEARANCES
1/2" = 1'-0"

GENERAL NOTES

PER 2009 ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES (ICC/ANSI A117.1) THE FOLLOWING COMPLY FULLY:

ALL DETAILS SHOWN ON THIS SHEET ARE BASED ON THE 2009 ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES (ICC/ANSI A117.1)

1. PROJECT HAS A FULLY ACCESSIBLE MAIN ENTRY AT GROUND LEVEL.
2. PROJECT HAS A FULLY ACCESSIBLE PUBLIC TOILET ROOMS.
3. PROJECT HAS PROVIDED PROPER MANEUVERING CLEARANCES AT DOOR PER SECTION 404.2.2 & DETAILS FIG 404.2.3.2
4. DOORS IN PUBLIC AND COMMON AREAS LEADING INTO ACCESSIBLE ROOMS AND SPACES TO BE 3'-0" WIDE MIN.
5. ALL DOORS MUST HAVE 32" MIN. CLEAR DOOR OPENING MEASURED FROM THE FACE OF THE DOOR WHEN IT IS OPENED 90% TO THE DOOR STOP.
6. ALL NEW OR ALTERED DOORS TO HAVE LEVER OPERATED HARDWARE.
7. ALL PUBLIC AND COMMON AREA INTERIOR DOORS TO HAVE 5# MAX. FORCE TO OPEN. ALL PUBLIC AND COMMON AREA EXTERIOR DOOR TO HAVE 8.5# MAX. FORCE TO OPEN.
8. REFER TO 2009 ICC A117.1 ACCESSIBLE AND USABLE BUILDING AND FACILITIES : ACCESSIBILITY SECTION FOR ACCESSIBLE TOILETS & DETAIL 2/ADA1.1 FOR ACCESSIBLE TOILET ACCESSORIES. CONTRACTOR TO PROVIDE IN-WALL F.T. WOOD BLOCKING FOR ATTACHMENT OF ALL ACCESSORIES.
9. G.C. TO FOLLOW ALL LOCAL JURISDICTION'S CODES AND REQUIREMENTS. CONTACT ARCHITECT WITH ANY DISCREPANCIES.
10. CONFIRM MOUNTING HEIGHTS OF EACH SPECIFIC ACCESSORY WITH MANUFACTURER'S RECOMMENDATIONS & INSTRUCTIONS FOR PROPER COMPLIANCE.

GENERAL SIGN NOTES

1. PICTOGRAMS/ PICTORIAL SYMBOL SIGNS SHALL BE ACCOMPANIED BY THE EQUIVALENT VERBAL DESCRIPTION PLACED DIRECTLY BELOW THE PICTOGRAM. THE BORDER DIMENSION SHALL BE 6" MIN.
2. CHARACTERS AND BACKGROUNDS SHALL BE OF NON-GLARE CONTRASTING COLORS.
3. SIGNS/PICTOGRAMS SHALL BE INSTALLED ON THE WALL ADJACENT TO DOOR LEADING TO THE ROOM OR SPACE THEY DESCRIBE AND 60" A.F.F. TO SIGN CENTERLINE AND WHERE A PERSON MAY APPROACH OR STANDING WITHIN DOOR SWING AREA..
4. INTERNATIONAL SYMBOL OF ACCESSIBILITY STANDARD USED TO IDENTIFY ACCESSIBLE FACILITIES.
5. CHARACTERS AND SYMBOLS SHALL CONTRAST WITH THEIR BACKGROUND EITHER LIGHT CHARACTERS ON A DARK BACKGROUND OR DARK CHARACTERS ON A LIGHT BACKGROUND
6. USE CONTRASTED GRADE 2 BRAILLE. DOTS TO BE BETWEEN 0.09"-0.1" ON CENTER WITHIN EACH CELL.
7. 0.241"-0.300" BETWEEN ADJACENT BRAILLE CELLS.
8. DOTS RAISED BETWEEN 0.025"-0.037" ABOVE BACKGROUND.

ADA SIGN GUIDE (BY G.C.)

SIGN ID	DESCRIPTION	DIMENSIONS	ADDITIONAL NOTES
A	BUILDING OCCUPANCY	6"X8"	PVC
B	WOMEN'S RESTROOM ADA	9"X6"	PVC
C	MEN'S RESTROOM ADA	9"X6"	PVC
D	UNISEX RESTROOM ADA	9"X6"	PVC
E	NOT USED	9"X6"	PVC
F	NOT USED	4"X6"	PVC
G	NOT USED	3"X7"	PVC
H	DOOR TO REMAIN UNLOCKED DECALS	25"X30"	DIGITAL PRINT VINYL

SIGNAGE DETAILS N.T.S.

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Oak Park, Illinois
60301
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ARIA GROUP ARCHITECTS, INC.

COOPER'S HAWK WINERY & RESTAURANT
540 NW CHIPMAN ROAD, LEE'S SUMMIT, MO 64086

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Drawing Title
GENERAL ACCESSIBILITY DETAILS

Job No.	Drawn
204530	Author
Scale	Date
AS NOTED	08/19/2021

Sheet No.
ADA1.1

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RESPONSIBILITY SCHEDULE

NOTE:

THIS SCHEDULE IS PROVIDED FOR QUICK REFERENCE ONLY. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR ALL WORK DESCRIBED IN THE CONSTRUCTION DOCUMENTS. CONFLICTS BETWEEN THIS SCHEDULE AND THE REST OF THE CONTRACT DOCUMENTS SHALL BE BROUGHT TO THE ARCHITECTS ATTENTION PRIOR TO BEGINNING WORK.

	FURNISHED			INSTALLED			
	OWNER	GENERAL CONTRACTOR	LANDLORD	OWNER	GENERAL CONTRACTOR	LANDLORD	
DIVISION 01: GENERAL DATA							
A. PERMITS, FEES & INSURANCE	●			●			
1. PERMIT FEES	●			●			
2. INSURANCE	●			●			BUILDER'S RISK
B. TEMPORARY UTILITIES			●			●	
C. PROFESSIONAL CLEANING		●			●		CLEANED INSIDE AND OUT PRIOR TO STOCKING/TRAINING & OPENING
D. CERTIFICATE OF OCCUPANCY		●			●		
E. DUMPSTERS & TRASH BINS		●			●		COORDINATE WITH COOPER'S HAWK
DIVISION 02: SITE WORK							
A. TEMPORARY FENCE		●			●		
B. ROOF ACCESS AND LADDER		●			●		FIXTURES BY OWNER, ALL ELSE BY G.C.
DIVISION 03: CONCRETE							
A. CONCRETE TOPPING / LEVELING / FINISHING/ SLAB / WALL/PATIO		●			●		
B. CONCRETE CUTTING AND CORING		●			●		
C. SIDEWALKS			●			●	L.L RESPONSIBLE FOR ALL CURBS AND SIDEWALKS
D. RAMPS & STAIRS (EXTERIOR)							N/A
E. SERVICE YARD		●			●		
DIVISION 04: MASONRY							
A. MASONRY		●			●		
DIVISION 05: METALS							
A. FRAMING		●			●		
B. COLD ROLLED CHANNELS (CLG. SYSTEMS)		●			●		
C. ARCHITECTURAL METALS & SCREENS		●			●		
D. DECORATIVE METALS		●			●		
E. REVEALS & TRIMS		●			●		
F. UNISTRUT		●			●		
G. STRUCTURAL STEEL		●			●		
H. STEEL PAN STAIR							N/A
DIVISION 06: WOODS AND PLASTICS							
A. FINISH CARPENTRY		●			●		
1. WOOD TRIM		●			●		
2. EXTERIOR WOOD CLADDING		●			●		BUILDER'S RISK
B. WOOD TREATMENT		●			●		
1. LUMBER		●			●		
C. ARCHITECTURAL WOODWORK		●			●		
1. DISPLAY FIXTURES	●				●		
2. MILLWORK CABINETS & COUNTERTOPS	●				●		BUILDER'S RISK
DIVISION 07: THERMAL & MOISTURE PROTECTION							
A. INSULATION		●			●		
B. ROOF PENETRATIONS, CURBS, FLASHING		●			●		
C. SEALANTS AND CAULKING		●			●		
D. WATERPROOFING (FLOOR / WALL)		●			●		
DIVISION 08: DOORS AND WINDOWS							
A. INTERIOR WOOD DOORS & FRAMES		●			●		
B. SPECIAL DOORS		●			●		
1. RATED WOOD OR METAL DOORS & FRAMES							N/A
2. REAR SERVICE DOOR(S) & FRAMES		●			●		
3. ENTRY DOORS		●			●		
4. METAL CEILING ACCESS PANELS		●			●		
5. SLIDING DOOR SYSTEM		●			●		
C. HARDWARE AND SPECIALTIES		●			●		WIRELESS DOOR OPERATOR
1. DOOR HARDWARE		●			●		SEE DOOR SCHEDULE/ DOOR SWEEPS, INCLUDING CUSTOM HDW
2. SERVICE DOOR DEVICES		●			●		ALARM, EXIT, PUSH BAR, VIEWER
3. MASTER KEY SYSTEMS		●			●		CYLINDERS, CORES BY OWNER
D. WINDOWISTOREFRONT SYSTEM		●			●		
E. MISC. GLAZING		●			●		BOOTHS & POS AREAS
F. ENTRY DOOR PULLS & PUSH PLATES		●			●		SEE SCHEDULE
DIVISION 09: FINISHES							
A. GYPSUM WALLBOARD & ACCESSORIES		●			●		
1. INTERIOR PARTITION - FRAMING & GYP. BD.		●			●		
2. LOW DIVIDER WALL - FRAMING & GYP. BD.		●			●		
3. RATED PARTITION - FRAMING & GYP. BD.							N/A
4. EXTERIOR PARTITION		●			●		
B. SUSPENDED GYP. BD. CEILING & FRAMING		●			●		
C. SUSPENDED "T" BAR LAY-IN CEILING		●			●		
D. PAINTING		●			●		
E. FLOORING		●			●		
1. TILE / STONE FLOORING		●			●		
2. VINYL FLOORING		●			●		
3. REDUCERS		●			●		
4. VINYL BASE		●			●		
5. CARPET		●			●		
F. SANITARY WALL PANELS / ACCESSORIES		●			●		
G. GRANITE		●			●		
H. WALL COVERING		●			●		
J. EXTERIOR EIFS/PLASTER FINISH		●			●		

RESPONSIBILITY SCHEDULE

	FURNISHED			INSTALLED			
	OWNER	GENERAL CONTRACTOR	LANDLORD	OWNER	GENERAL CONTRACTOR	LANDLORD	
DIVISION 10: SPECIALTIES							
A. IDENTIFYING DEVICES							
1. EXTERIOR, BUILDING MOUNTED SIGNAGE	●			●	●		ELECTRICAL STUBBED TO SIGN & BLOCKING AND J-BOX BY G.C.
2. SERVICE DOOR IDENTIFICATION		●			●		COORDINATE WITH OWNER
3. ACCESSIBILITY SIGNAGE		●			●		
4. MONUMENT SIGN	●	●			●		G.C. TO CONSTRUCT BASE
5. INTERIOR SIGNAGE	●			●			G.C. SUPPLY BLOCKING FOR RESTROOM BLADE SIGN & HOST STAND SIGNAGE. ADA SIGNAGE BY G.C.
6. ARTWORK / MURALS / ARTIFACTS	●				●		G.C. TO PROVIDE
7. BULLETIN / TACK BOARDS	●				●		80 HOUR TOTAL ALLOWANCE TO INSTALL
B. FIRE EXTINGUISHERS		●			●		
C. SAFE (OFFICE)	●			●	●		GC TO BUILD OPENING IN WALL FOR SAFE, REFER TO SHEET A8.1
D. TOILET ROOM ACCESSORIES		●			●		SEE SCHEDULE FOR ITEMS
E. TOILET ROOM CUSTOM MIRRORS		●			●		
F. CO2 TANK	●			●			MEP TO EQUIP & FINAL CONNECTIONS BY G.C.
G. TRASH BINS	●			●			
H. AV RACK	●			●			
I. GREASE REMOVAL SERVICE AND BINS	●			●	●		GREASE LINE AND POWER BY G.C.
J. HIGHCHAIRS	●			●			
K. BOOSTER SEATS	●			●			
L. VINYL GRAPHICS	●			●			
M. WATER SOFTNER	●	●		●	●		ELECTRICAL CONTRACTOR TO PROVIDE POWER, PLUMBING CONTRACTOR TO PROVIDE NECESSARY WATER
P. SS WALL FLASHINGS & PANELS	●			●			FURNISHED BY KEC - INSTALLED BY G.C.
DIVISION 11: EQUIPMENT							
A. FOOD SERVICE EQUIPMENT	●			●	●		MEP TO EQUIPMENT & FINAL CONNECTIONS BY G.C.
B. EQUIPMENT BACKING		●			●		
C. FABRICATED STAINLESS STEEL COUNTERS & SHELVES	●			●			
D. WALK-IN COOLER & REFRIGERATION & REF. STANDS	●			●	●		G.C. TO CONNECT POWER
E. STORAGE RACKS & SHELVES							
1. KITCHEN STORAGE RACKS	●			●			SUPPLIED AND INSTALLED BY KEC
2. WRAPPING STORAGE SYSTEM	●			●			SUPPLIED BY OWNER, INSTALLED BY GC
F. EXHAUST HOOD w/ FIRE SUPPRESSION SYSTEM	●				●		HOODS INSTALLED BY GC/ HVAC & ELECTRICALLY CONNECTED BY GC/ EC
G. REFRIGERATION LINES	●			●			
1. WALK-IN BOXES	●			●			
2. COLD DRAWERS	●			●			
H. COCA COLA EQUIPMENT (7818)	●			●			G.C TO PROVIDE ELECTRICAL/PLUMBING
I. COFFEE EQUIPMENT	●			●			G.C TO PROVIDE ELECTRICAL/PLUMBING
J. DISH MACHINE CHEMICALS	●			●			
K. ESPRESSO EQUIPMENT	●			●			G.C TO PROVIDE ELECTRICAL/PLUMBING
L. ANSUL	●			●			BY KEC
DIVISION 12: FURNISHINGS							
A. TABLES & BASES (INCLUDES BOOTHS)	●				●		INSTALLED BY G.C.
B. BANQUETTES / BOOTHS (FRAMES / UPHOLSTERY)	●				●		INSTALLED BY G.C.
C. BANQUETTES / BOOTHS (TRIM WORK)	●				●		INSTALLED BY G.C.
D. CHAIRS & STOOLS	●				●		INSTALLED BY G.C.
E. OFFICE CHAIR	●			●			INSTALLED BY G.C.
F. FINISH HARDWARE		●			●		
G. WINDOW TREATMENT BLINDS/ SHADES		●			●		
H. VALET STAND	●			●			
I. BENCH		●			●		INTERIOR BENCHES BY OWNER
J. FILE CABINETS	●			●			
K. WINDOW FILM		●			●		
L. PATIO FURNITURE	●				●		INSTALLED BY G.C.
DIVISION 13: SPECIAL CONSTRUCTION							
NO WORK UNDER THIS DIVISION							
DIVISION 14: CONVEYING SYSTEMS							
NO WORK UNDER THIS DIVISION							
DIVISION 22: PLUMBING							
A. PLUMBING		●			●		
1. PLUMBING FIXTURES & FITTINGS		●			●		
2. WATER HEATER		●			●		
3. WATER SOFTENING EQUIPMENT	●	●		●	●		ROUGH-IN BY G.C.
4. WATER TO (E) P.O.C.			●			●	G.C. TO CONFIRM PRESSURE ONLY TO SITE
5. GAS TO (E) P.O.C.			●		●	●	G.C. TO CONFIRM PRESSURE ONLY TO SITE
6. GREASE INTERCEPTOR			●			●	G.C. TO CONFIRM PRESSURE ONLY TO SITE
7. WATER / SEWER P.O.C.			●			●	G.C. TO CONFIRM PRESSURE ONLY TO SITE
DIVISION 23: HEATING, VENTILATION, AND AIR CONDITIONING (HVAC)							
A. HVAC HEATING & COOLING EQUIPMENT		●			●		
B. HVAC DUCTWORK		●			●		
C. FIRE SPRINKLERS		●			●		
D. FIRE & LIFE SAFETY SYSTEMS		●			●		
E. SMOKE DETECTORS		●			●		
F. EXHAUST / SUPPLY FANS AND VENTS		●			●		G.C. TO CONFIRM PRESSURE ONLY TO SITE
G. SUPPLY & RETURN AIR REGISTERS		●			●		
H. FIRE SUPPRESSION SYSTEM		●			●		
I. HOOD CONTROL PANEL	●				●		PROVIDED BY KEC, FINAL POWER CONNECTION BY E.C.
J. HOOD INSTALL	●				●		PROVIDED BY KEC & INSTALLED BY G.C.
K. AIR CURTAIN		●			●		

RESPONSIBILITY SCHEDULE

	FURNISHED			INSTALLED			
	OWNER	GENERAL CONTRACTOR	LANDLORD	OWNER	GENERAL CONTRACTOR	LANDLORD	
DIVISION 26: ELECTRICAL							
A. LIGHTING SYSTEMS (LIGHTING FIXTURES)	●				●		
1. EXTERIOR LIGHTING	●				●		
2. GENERAL / DECORATIVE	●				●		
3. TOILET ROOM LIGHTS	●				●		
4. EXIT & EMERGENCY LIGHTING	●				●		
5. CUSTOM LIGHTING	●				●		
6. LAMPS / BULBS FOR ALL FIXTURES	●				●		LIGHTING SUPPLIER TO PROVIDE 10% ATTIC STOCK IN BID FOR ALL BULB TYPES
B. POWER SYSTEMS	●				●		
1. ELECTRIC (E) TO PRIMARY P.O.C.			●			●	L.L. RESPONSIBLE FOR TRANSFORMER TO P.O.C
2. MAIN SERVICE CONDUIT		●			●		FROM TRANSFORMER TO BUILDING, REFER TO PLANS FOR LOCATION
3. MAIN SERVICE WIRING		●			●		
4. TEMP. DISTRIBUTION PANEL			●			●	
5. OUTLETS, SWITCHES, CONDUITS		●			●		INCLUDING WIRING
6. FINAL FIXTURE CONNECTIONS		●			●		
C. LOW VOLTAGE							
1. LOW VOLTAGE OUTLETS & PULL WIRE		●			●		
2. LOW VOLTAGE CONDUITS & PULL WIRE		●			●		
D. SECURITY SYSTEM							
1. CONDUITS AND PULL STRINGS		●			●		
2. EQUIPMENT AND HOOK-UP	●			●			COOPER'S HAWK DEVELOPMENT TO COORDINATE
E. A/V SYSTEMS							
1. CONDUITS AND PULL STRINGS		●			●		
2. STEREO, SPEAKERS & TV'S	●			●			
3. CABLING		●			●		
4. SOUND SYSTEM	●			●	●		G.C. TO COORDINATE OPENINGS, REFER TO SHEET T300 CABLING, CONDUIT AND TERMINATIONS, SPEAKER RINGS BY G.C. SPEAKER INSTALL, TESTING ETC. BY OWNER
F. P.O.S. EQUIPMENT							
1. EQUIPMENT	●			●			
2. CABLING		●			●		
3. RECEPTACLES		●			●		
4. CONDUIT		●			●		
G. FIRE SYSTEM							
1. CONDUIT FOR ANSUL SYSTEM w/ PULL STRING		●			●		
2. FIRE ALARM		●			●		CONDUIT W/ PULL STRING BY ELECTRICAL CONTRACTOR
H. TELEPHONE							
1. TELEPHONE OUTLETS & PULL WIRE		●			●		
2. TELEPHONE CONDUITS AND PULL WIRE		●			●		
3. TELEPHONE SYSTEMS	●			●			COOPER'S HAWK DEVELOPMENT TO COORDINATE
I. FANS (PATIO)	●				●		
J. HEATERS (PATIO)	●				●		
K. BUG LIGHTS	●			●	●		ELECTRICAL BY G.C.

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COOPER'S HAWK WINERY & RESTAURANT

540 NW CHIPMAN ROAD, LEE'S SUMMIT, MO 64086

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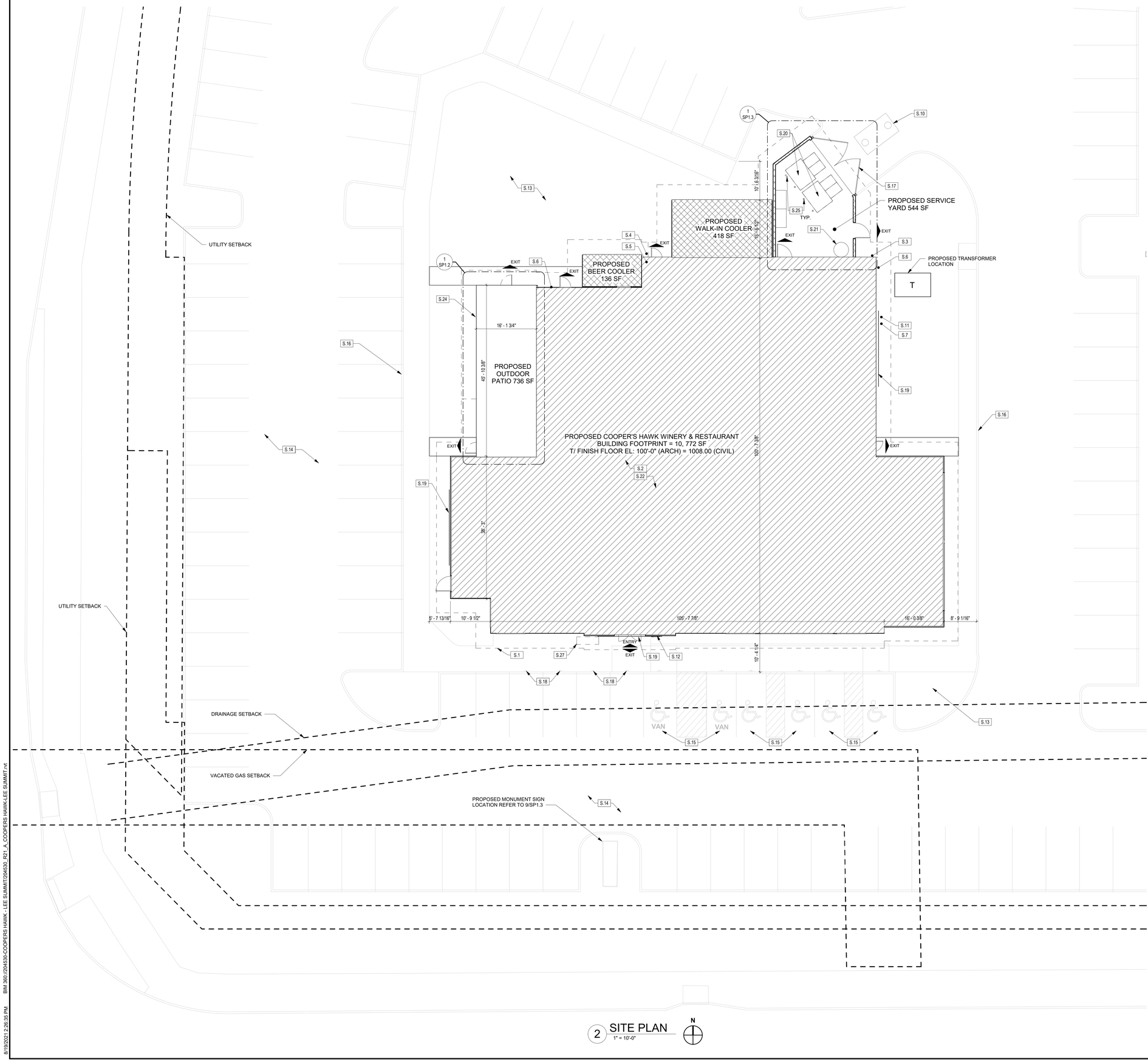
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NUMBER A-2010026259
ARCHITECT
8/19/21
EXP 12/31/22

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Scale N.T.S.
Date 08/19/2021

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2 SITE PLAN
1" = 10'-0"

1 SITE PLAN - KEY
1/64" = 1'-0"

GENERAL NOTES

APLLY TO THIS SHEET ONLY:

1. TEMPORARY AND PERMANENT UTILITIES SHALL BE INSTALLED BY LANDLORD TO THE EXTENT PERMANENT UTILITIES ARE NOT INSTALLED AT TENANT'S PAD AT CONSTRUCTION START.
2. LANDLORD SHALL PROVIDE ALL STORM WATER MANAGEMENT AS REQUIRED BY LOCAL AND STATE ORDINANCE.
3. LANDLORD SHALL PROVIDE SPACE FREE OF CHARGE TO ACCOMMODATE THE FOLLOWING PRIOR TO COMPLETION OF TENANT'S WORK: CONSTRUCTION DUMPSTERS, STORAGE CONTAINERS, AND CONSTRUCTION TRAILER. ALL STAGING SHALL BE REMOVED BY TENANT FROM THE SITE NOT LATER THAN ONE DAY BEFORE OPENING.
4. CIVIL DRAWINGS WITHIN THIS SET ARE PROVIDED FOR REFERENCE REGARDING OVERALL SITE WORK TO BE COMPLETED BY OTHERS.

KEYNOTES

S.1	CONSTRUCTION LIMIT LINE FOR COOPER'S HAWK WINERY & RESTAURANT PROJECT. LANDLORD TO PROVIDE SITE THAT IS PAD READY PER WORK LETTER.
S.2	LANDLORD TO PROVIDE BUILDING PAD AND ADJACENT SOIL WITH A MINIMUM BEARING CAPACITY OF 2500 POUNDS PER SQUARE FOOT AND SHALL BE FREE OF ANY DEMOLITION OR CONSTRUCTION DEBRIS SUCH AS ASPHALT, CONCRETE, BRICK AND THE LIKE. THE BUILDING PAD SHALL BE COMPACTED TO A LEVEL EIGHT INCHES BELOW THE FINISHED FLOOR ELEVATION AND SHALL BE NOT LESS THAN 95% MAXIMUM DENSITY FOR COHESIONLESS SOIL MATERIAL IN ACCORDANCE WITH ASTM-D698. ANY PATIO AREA(S), SERVICE YARD AREA, TRASH AREA AND ANY SERVICE AREA, AS WELL AS THE COMMON AREAS, SHALL BE COMPACTED TO A LEVEL EIGHT INCHES BELOW THE FINISHED FLOOR ELEVATION TO NOT LESS THAN 90% MAXIMUM DENSITY IN ACCORDANCE WITH ASTM-D698. THE BUILDING PAD AND ADJACENT AREAS SHALL BE ROUGH GRADED TO AN ELEVATION SUITABLE FOR THE HARDSCAPE AND LANDSCAPE ON THE PREMISES AND ADJACENT AREAS
S.3	LANDLORD TO PROVIDE 208/120V, 3-PHASE, 4 WIRE, 1200 AMP ELECTRICAL SERVICE TO THE P.O.C. SHOWN ON PLAN. THIS WILL INCLUDE TRANSFORMERS AND PRIMARY SWITCHGEAR WHICH MAY BE REQUIRED TO FURNISH OR DELIVER SUCH SERVICE
S.4	LANDLORD TO PROVIDE 2-1/2" MIN. DOMESTIC WATER LINE WITH MIN. 65 PSI OF PRESSURE TO THE P.O.C. SHOWN ON PLAN. THIS WILL INCLUDE METER AND BACKFLOW PREVENTER TO COMPLY WITH STATE, LOCAL AND UTILITY CODES
S.5	LANDLORD TO PROVIDE 6" MIN. SPRINKLER / FIRE SERVICE LINE TO THE P.O.C. SHOWN ON PLAN
S.6	LANDLORD TO PROVIDE 8" STORM DRAIN LINE TO THE P.O.C. SHOWN ON PLAN
S.7	LANDLORD TO PROVIDE NATURAL GAS SERVICE NO LESS THAN 6,500 CFH @ 2 PSI TO THE P.O.C. SHOWN ON PLAN. THIS WILL INCLUDE METER. GAS SERVICE SHALL BE A LOW PRESSURE OUTLET FROM THE METER AND SHALL BE SIZED TO ACCOMMODATE PRESSURE LOSS FROM THE DISTANCE TO THE METER
S.10	CONTRACTOR TO PROVIDE AND INSTALL A DEDICATED EXTERIOR GREASE INTERCEPTOR SIZED AND VENTED TO COMPLY WITH ALL LOCAL CODES, WITH NO LESS A 1500-GALLON CAPACITY. ALL GREASE LINES ARE TO BE TIED INTO THE SANITARY LINE FROM THE GREASE INTERCEPTOR
S.11	LANDLORD TO PROVIDE 3" PHONE CONDUIT AND SERVICE & 2" CABLE CONDUIT W/ PULL WIRE FROM CABLE AND PHONE SOURCE NOT TO EXCEED 150'-0" TO THE P.O.C. SHOWN ON PLAN
S.12	FDC CONNECTION. G.C. TO CONFIRM FINAL LOCATION WITH LOCAL JURISDICTION
S.13	LANDLORD TO PROVIDE ALL LANDSCAPING AND LANDSCAPE IRRIGATION (MINIMUM 1" IRRIGATION LINE) IN ACCORDANCE WITH ALL CODES
S.14	LANDLORD TO PROVIDE ALL PARKING AND PARKING LOT LIGHTING IN ACCORDANCE WITH LOCAL, STATE, AND NATIONAL CODES
S.15	LANDLORD TO PROVIDE CODE REQUIRED QUANTITY OF ADA PARKING SPACES
S.16	LANDLORD TO PROVIDE ALL SIDEWALKS, CURBS AND HARDSCAPE DESIGNED TO PROVIDE PROPER CODE COMPLIANT ADA ACCESS TO THE BUILDING
S.17	CONTRACTOR TO PROVIDE SERVICE YARD SCREEN AND GATE. REFER TO SP1.3
S.18	LANDLORD TO PROVIDE DESIGNATED PARKING SPOTS FOR TAKE-OUT. RELATED SIGNAGE BY G.C. (4 TOTAL)
S.19	PROPOSED SIGNAGE LOCATION. ASSOCIATED POWER AND BLOCKING BY G.C.
S.20	OWNER TO PROVIDE TRASH & RECYCLING DUMPSTERS. G.C. TO PROVIDE POWER
S.21	OWNER TO PROVIDE COOKING OIL TANK. CONTRACTOR TO INSTALL AND PROVIDE POWER AS REQUIRED. REFER TO E-SHEETS
S.22	LANDLORD TO PROVIDE ALL TEMPORARY UTILITIES
S.23	LANDLORD TO PROVIDE STAGING AREA AT A MUTUALLY ACCEPTABLE AREA FOR THE DURATION OF THE BUILDING SHELL CONSTRUCTION.
S.24	PATIO CANOPY ABOVE
S.25	BOLLARD. REFER TO DETAIL 8/SP1.3
S.27	WAITING BENCH. REFER TO A12.1

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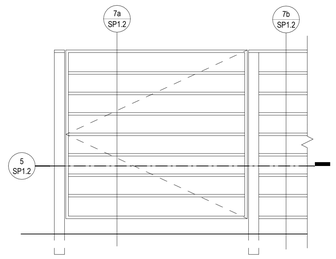
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Job No.	Drawn
204530	EN

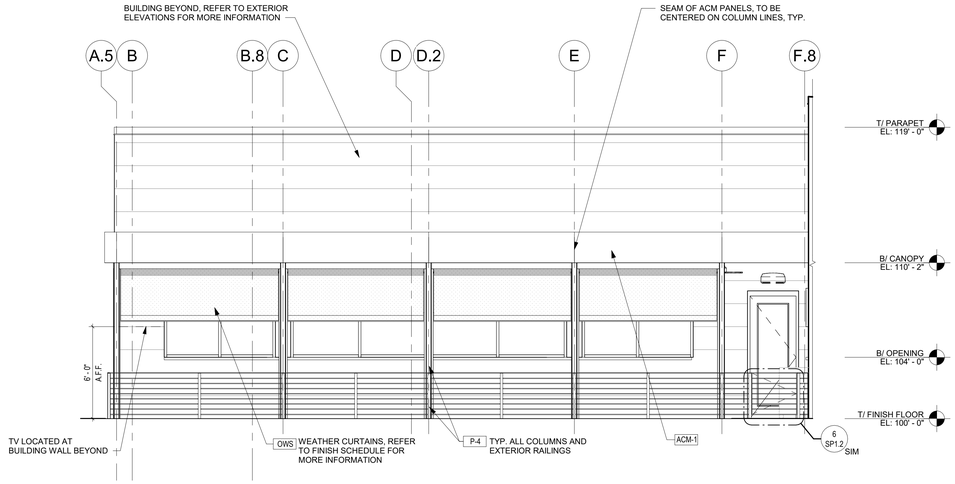
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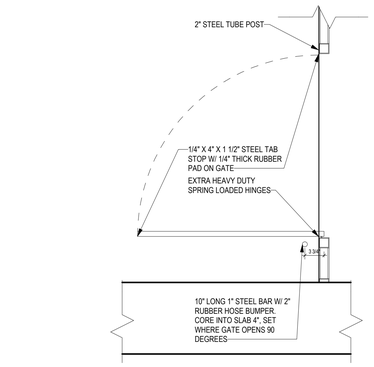
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6 ENLARGED GATE ELEVATION
1" = 1'-0"

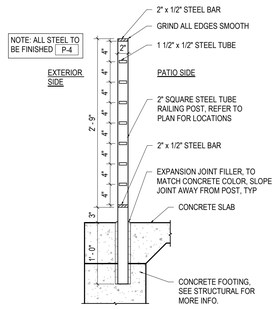


3 ELEVATION
1/4" = 1'-0"

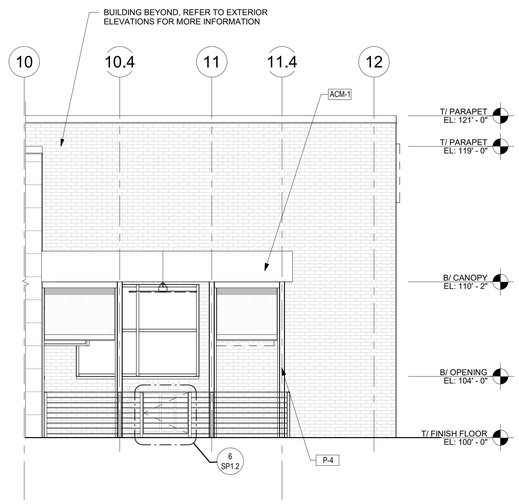


5 ENLARGED GATE PLAN
1" = 1'-0"

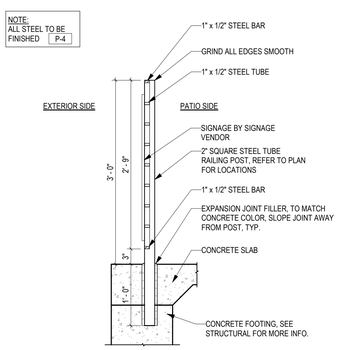
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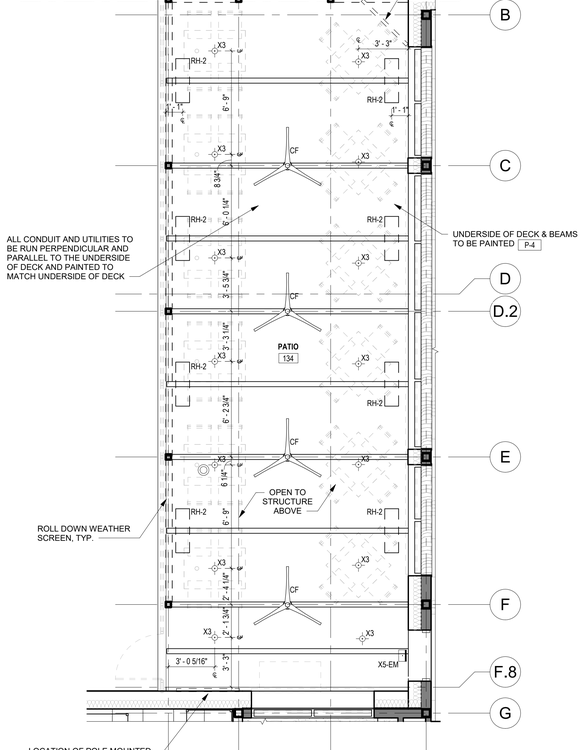
7b RAILING SECTION
1" = 1'-0"



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

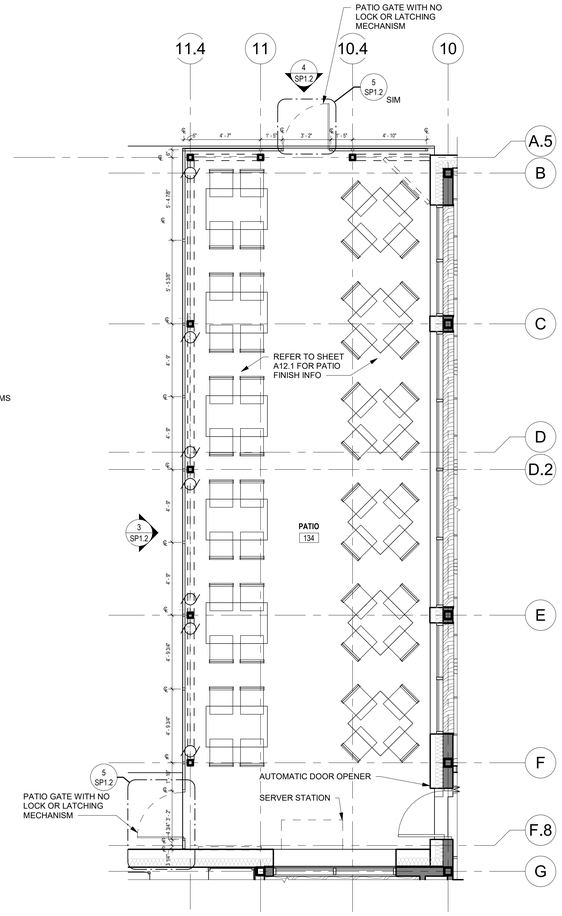


7a GATE SECTION
1" = 1'-0"



2 DINING PATIO REFLECTED CEILING PLAN
1/4" = 1'-0"

N



1 DINING PATIO PLAN
1/4" = 1'-0"

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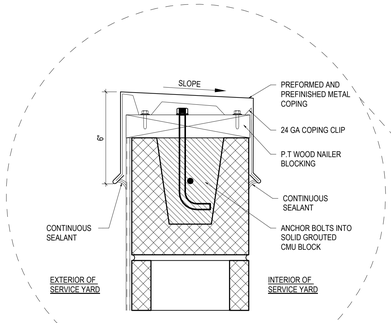
Drawing Title
PATIO PLAN & DETAILS

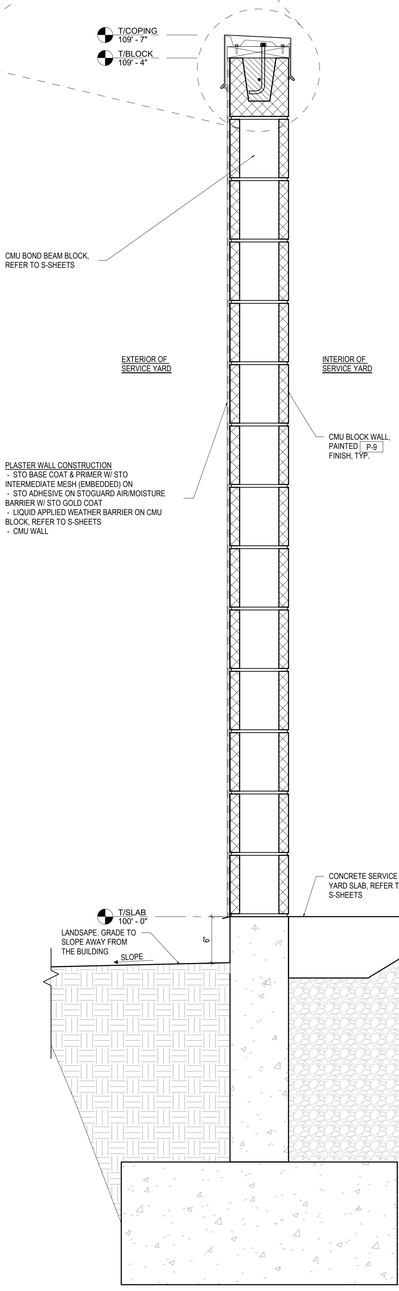
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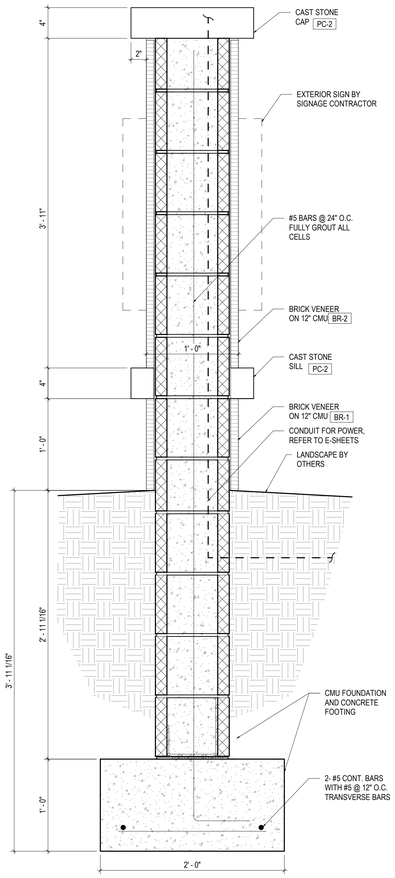
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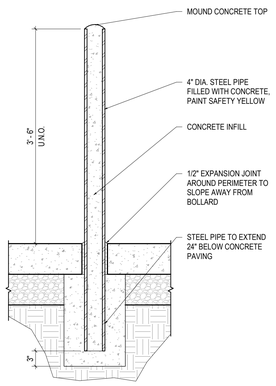
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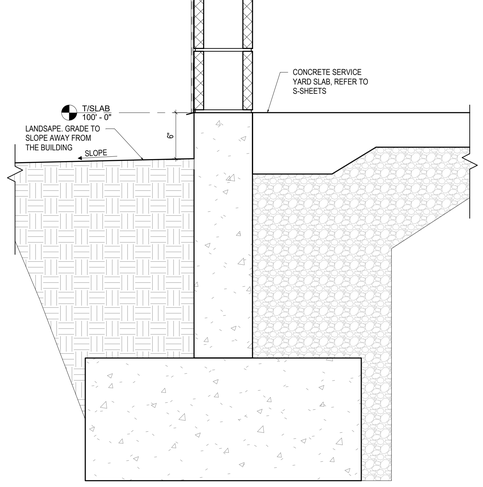




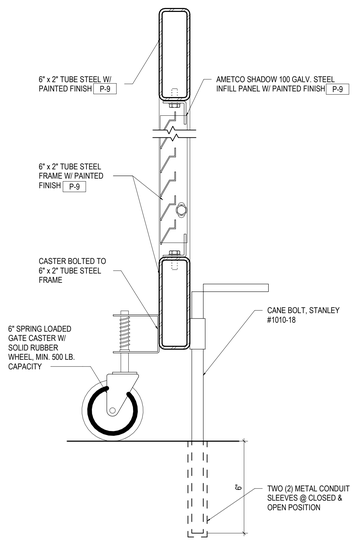
9 MONUMENT SIGN SECTION
1 1/2" = 1'-0"



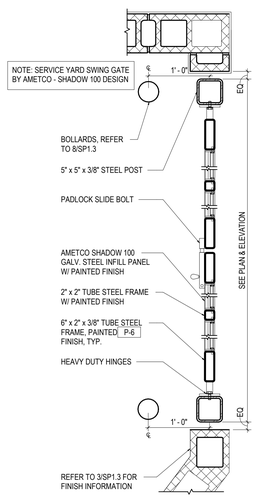
8 METAL BOLLARD
1" = 1'-0"



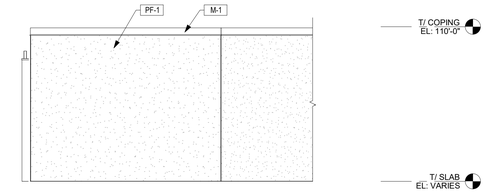
7 SERVICE YARD WALL SECTION
1 1/2" = 1'-0"



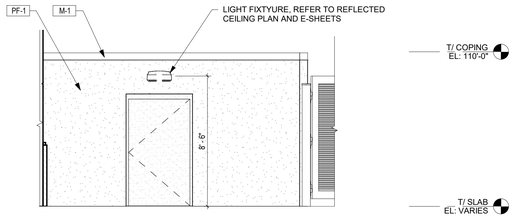
6 SERVICE YARD GATE SECTION
3" = 1'-0"



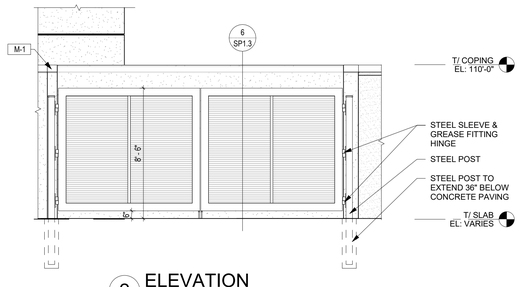
5 SERVICE YARD GATE PLAN
1" = 1'-0"



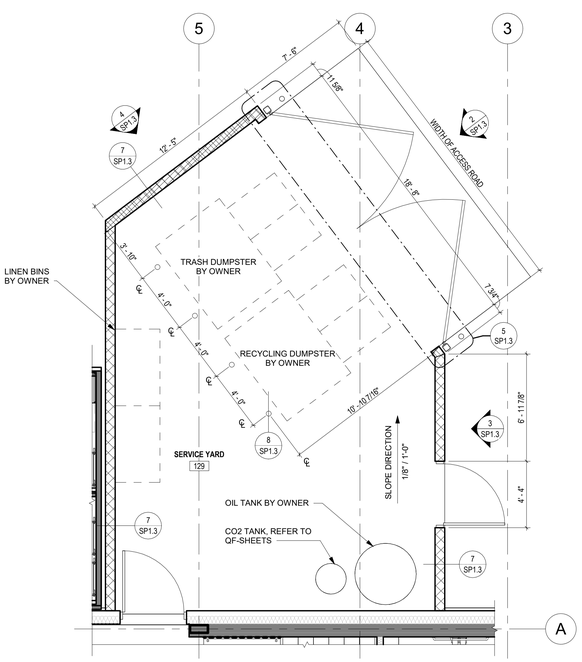
4 ELEVATION
1/4" = 1'-0"



3 ELEVATION
1/4" = 1'-0"



2 ELEVATION
1/4" = 1'-0"



1 SITE PLAN - Service Yard Plan
1/4" = 1'-0"

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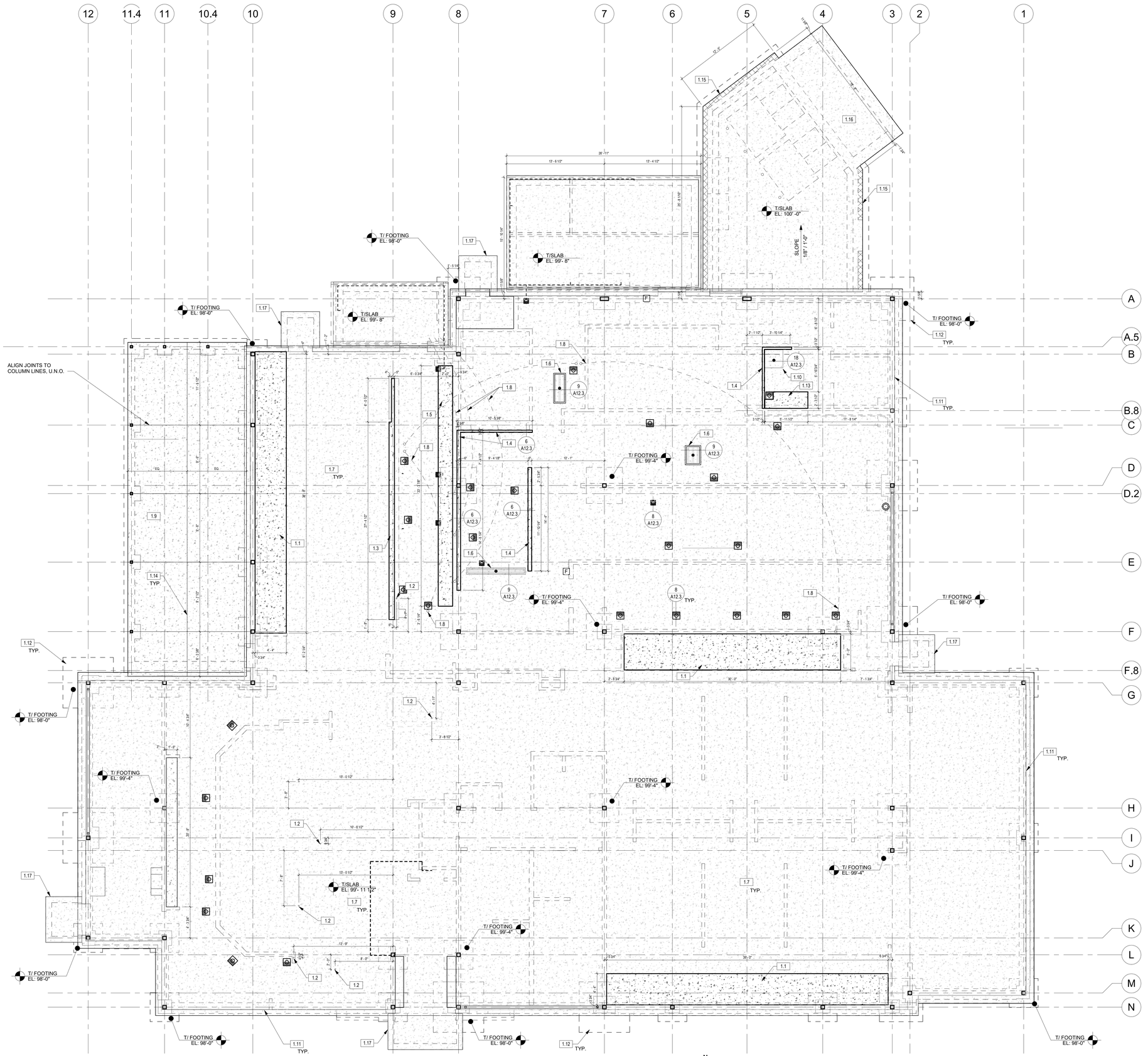
Drawing Title
SERVICE YARD & DETAILS

Job No.	Drawn
204530	EN

Scale	Date
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Sheet No.
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1 CURB AND FOUNDATION PLAN
3/16" = 1'-0"

GENERAL NOTES

1. CONTRACTOR TO REFER TO SHEET A12.1 FOR ALL FLOOR FINISHES. ALL TRANSITIONS BETWEEN FLOOR FINISHES TO BE FLUSH.
2. ALL DIMENSIONS ARE TO THE FACE OF CONCRETE FINISH, UNLESS OTHERWISE NOTED. ALLOW FOR CONCRETE SHRINKAGE.
3. CONTRACTOR TO COORDINATE ALL KITCKEN FLOOR SINKS AND DRAINS WITH QF-SHEETS PRIOR TO INSTALLATION.
4. MAXIMUM SLOPE IN ANY DIRECTION IS 1 IN 20.
5. WALL LOCATIONS ARE INDICATED BY DASHED LINES.
6. TO AVOID PONDING, KITCHEN FLOORS ARE TO MEET THE REQUIREMENTS OF A "FLAT" CLASSIFICATION FOR LEVELNESS (FI 25) AND FLATNESS (FF 35) PER ACI 117. SLOPE TO DRAIN REQUIREMENTS ARE SHOWN ON 8/A12.3

LEGEND

- NEW CONCRETE CURB, REFER TO S-SHEETS
- NEW CONCRETE SLAB ON GRADE, REFER TO S-SHEETS
- CMU WALLS, REFER TO S-SHEETS
- FLOOR SINK, REFER TO QF-SHEETS & P-SHEETS
- FLOOR DRAIN, REFER TO P-SHEETS
- TROUGH DRAIN, REFER TO QF-SHEETS & P-SHEETS
- FLOOR CLEAN OUT, REFER TO P-SHEETS
- LOCATION OF WALL BRACING, REFER TO S-SHEETS

KEYNOTES

1.1	6" CONCRETE CURB @ BOOTHS
1.2	CONDUIT STUB UP LOCATION REFER TO E-SHEETS
1.3	BAR CONCRETE CURB W/INTEGRAL COLOR 7" A.F.F.
1.4	CONCRETE CURB FOR DISHWASHING WALLS & MOPSINK 6" A.F.F.
1.5	BACK BAR CURB 4" A.F.F.
1.6	TROUGH DRAIN, REFER TO QF-SHEETS FOR BOX-OUT REQUIREMENT
1.7	NEW SLAB-ON-GRADE, REFER TO S-SHEETS
1.8	UNDERGROUND BEVERAGE CONDUIT STUB-UP. REFER TO QF SHEETS FOR ADDITIONAL INFORMATION
1.9	INTEGRAL COLOR PATIO CONCRETE SLAB, REFER TO S-SHEETS FOR ADDITIONAL INFORMATION, REFER TO A12.1 FOR FINISH INFORMATION
1.10	MOP SINK, REFER TO P-SHEETS & QF-SHEETS FOR MORE INFORMATION
1.11	LINE OF FOUNDATION BELOW, REFER TO S-SHEETS
1.12	LINE OF FOOTING BELOW, REFER TO S-SHEETS
1.13	CONCRETE CURB @ WATER SOFTENING EQUIPMENT, 6" AFF
1.14	CONTROL JOINT IN CONCRETE PATIO SLAB. REFER TO S-SHEETS FOR ADDITIONAL INFORMATION
1.15	CMU WALL REFER TO S-SHEETS
1.16	SERVICE YARD CONCRETE PAD EXTENSION
1.17	FROST STOOP AT DOORS, REFER TO S-SHEETS

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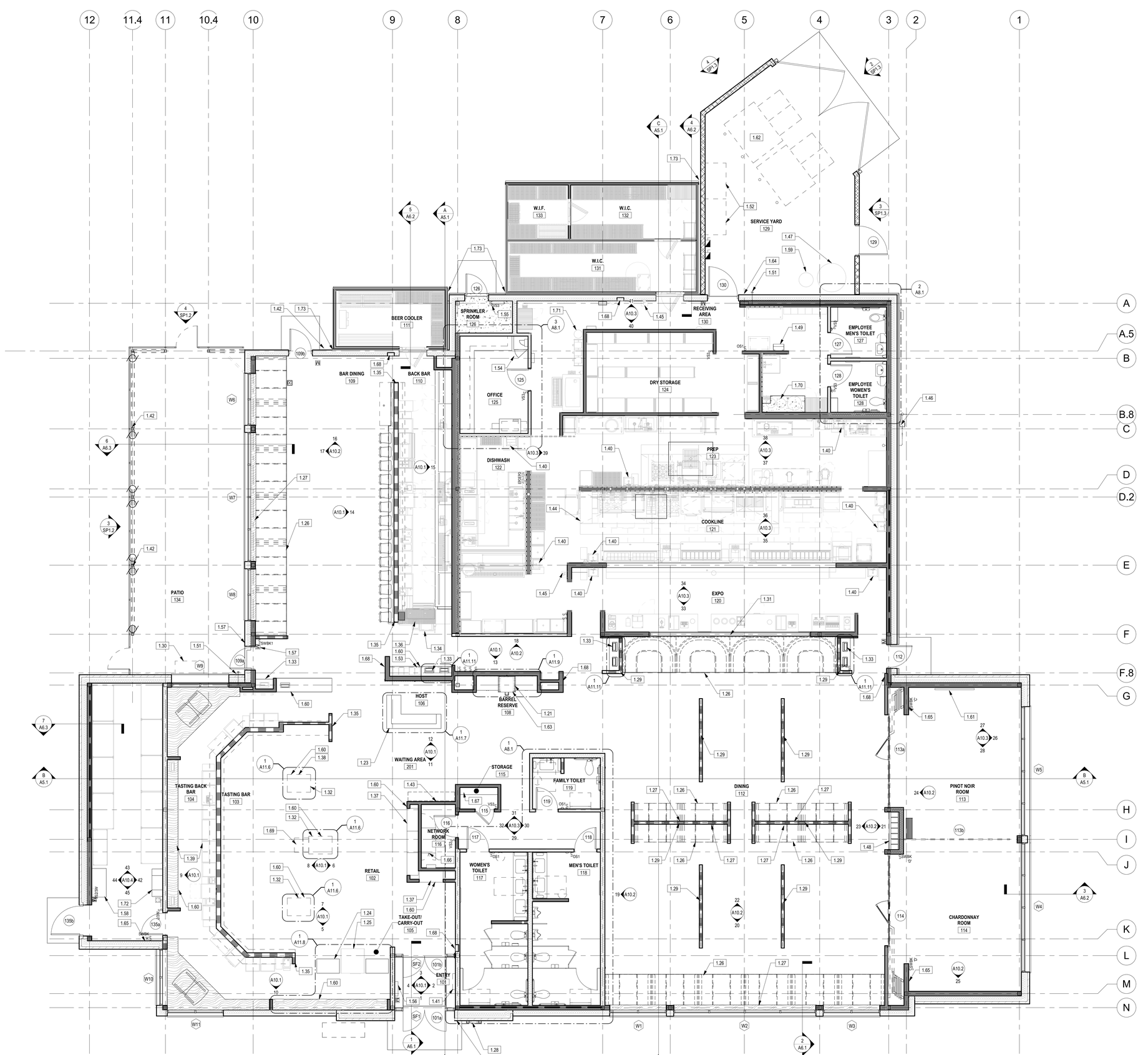
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CURB & FOUNDATION PLAN

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Scale	Date
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Sheet No.
A1.0

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

GENERAL NOTES

1. ALL DIMENSIONS ARE NOMINAL AND ARE FROM FACE OF SUBSTRATE, U.N.O.
2. REFER TO QF-SHEETS FOR ROUGH-IN REQUIREMENTS OF KITCHEN EQUIPMENT.
3. PROVIDE IN-WALL BLOCKING FOR MILLWORK, SHELVING, PANELS, ETC. REFER TO QF-SHEETS FOR ADDITIONAL INFORMATION.
4. ALL NEW PARTITIONS WITH SINKS AND/OR "WET EQUIP." TO HAVE "WATER RESISTANT GYPSUM BOARD" UNLESS NOTED OTHERWISE, WITH "CEMENT BOARD BASE TO 12" A.F.F.
5. WALLS IN KITCHEN AREAS AND TOILET ROOMS TO HAVE 12" BASE OF 5/8" CEMENT BOARD, 4" CEMENT BOARD BASE AT TOILET ROOM WALLS WITH BASE TILE ONLY. FACE OF CEMENT BOARD TO BE FLUSH WITH FACE OF GYPSUM BOARD.
6. MOUNT ALL FIXTURES AND ACCESSORIES AT HEIGHTS TO CONFORM TO ALL GOVERNING CODES AND A.D.A. REQUIREMENTS.
7. ALL CONTRACTORS TO VERIFY EXISTING SITE CONDITIONS BEFORE ANY WORK IS TO BEGIN, NOTIFY ARCHITECT OF DISCREPANCIES (TYPICAL).
8. COORDINATE OUTLETS AT MILLWORK (PHONE, ETC.) WITH MILLWORKER AND ELECTRICAL DRAWINGS. PROVIDE SHOP DRAWINGS FOR REVIEW.
9. ALL WORK TO BE DONE IN ACCORDANCE WITH ALL GOVERNING STATE AND LOCAL CODES AND ORDINANCES (TYPICAL).
10. FIRE TAPE ONLY "WATER RESISTANT" GYP. BD. BEHIND WALK-IN COOLERS AND FREEZERS.
11. REFER TO QF-SHEETS AND CURB AND FOUNDATION PLAN FOR FLOOR DRAINS AND DEPRESSION LOCATIONS.
12. ALL EXPOSED WATER SUPPLY PIPES, WASTE LINES, ELECTRICAL CONDUIT AND OTHER LIKE ITEMS THAT ARE NOT ABLE TO BE CONCEALED WITHIN WALL VOIDS MUST BE INSTALLED A MINIMUM OF SIX INCHES ABOVE THE FLOOR AND ONE INCH AWAY FROM THE WALL, INCLUDING THOSE AT THE BOTTOM OF THE EQUIPMENT.
13. K.E.C. TO PROVIDE STAINLESS STEEL CLOSURE STRIPS, FLOOR TO CEILING TYP., BETWEEN COOLER BOX AND WALL CONDITIONS.
14. THE DRAWINGS SHALL BE READ IN CONJUNCTION WITH STRUCTURAL, MECHANICAL, PLUMBING, ELECTRICAL AND OTHER CONSULTANT DRAWINGS AND SPECIFICATIONS AND WITH SUCH OTHER WRITTEN INSTRUCTIONS OR SKETCHES AS MAY BE ISSUED DURING THE COURSE OF THE CONTRACT. ANY DISCREPANCIES SHALL BE REFERRED TO THE SUPERINTENDENT AND ARIA GROUP ARCHITECTS, INC. BEFORE PROCEEDING WITH ANY WORK.
15. REFER TO SHEET A9.1 FOR DOOR AND WINDOW SCHEDULES.
16. DENOTES OWNER HANDLING LIST ITEMS, PROVIDED BY OWNER & INSTALLED BY G.C. REFER TO FLOOR PLAN AND INTERIOR ELEVATIONS.

WALL LEGEND

- NEW PARTITION WALL
- NEW CMU WALL
- NEW PARTITION WALL W/ SOUND ATTENUATION BATTS OR THERMAL INSULATION
- NEW LOW HEIGHT PARTITION WALL OR BAR DIE
- LOCATION OF WALL BRACING, REFER TO S-SHEETS

KEYNOTES

1.21	WINE BARREL AND KEG SYSTEM
1.22	KNOX KEY BOX TO BE INSTALLED AS REQUIRED BY THE LOCAL AUTHORITY
1.23	HOST STAND BY MILLWORK CONTRACTOR REFER TO SHEET A1.0 FOR ELECTRICAL STUB-OUT LOCATIONS. REFER TO SHEET A2.4 FOR LIGHTING REQUIREMENTS
1.24	CARRY-OUT AND CHECK-OUT COUNTERS, BY MILLWORK CONTRACTOR. REFER TO SHEET A1.0 FOR ELECTRICAL STUB-OUT LOCATIONS
1.25	REFRIGERATED CASE BY KEC, REFER TO QF-SHEETS
1.26	FIXED SEATING, TYP., REFER TO SHEET A12.2
1.27	CONTRACTOR TO PROVIDE IN WALL BLOCKING FOR TABLE SUPPORT, REFER TO DETAILS 10 & 11/A12.3
1.28	EXTERIOR ILLUMINATED MENU BOARD
1.29	LOW WALL GLASS SCREEN, REFER TO INTERIOR ELEVATIONS
1.30	EXTERIOR STAINLESS STEEL SERVICE STATION, BY KEC, REFER TO QF DRAWINGS
1.31	GLASS SCREEN WALL AT EXPO LINE
1.32	WINE DISPLAY CABINETS BY MILLWORK CONTRACTOR
1.33	MILLWORK POS BY MILLWORK CONTRACTOR, REFER TO INTERIOR ELEVATIONS. PROVIDE 2" GROMMET HOLES AT ALL P.O.S. COUNTERTOPS
1.34	REACH THROUGH BIN @ BAR PICK-UP, REFER TO QF-SHEETS
1.35	BAR DIE WALL AND COUNTERTOP TO HAVE FINISHED EDGE
1.36	STAINLESS STEEL CORNER DRAIN BOARD, REFER TO QF-SHEETS
1.37	RETAIL DISPLAY BY MILLWORK CONTRACTOR
1.38	LUX WINE DISPLAY, REFER TO INTERIOR ELEVATIONS
1.39	TASTING BAR, REFER TO INTERIOR ELEVATIONS
1.40	HANDSINK BY KITCHEN CONTRACTOR WITH TOWEL AND SOAP DISPENSER BY OWNER, REFER TO QF-SHEETS
1.41	EASEL BOARD PROVIDED BY MILLWORKER, INSTALLED BY CONTRACTOR PROVIDE IN WALL BLOCKING AS REQUIRED. REFER TO E-SHEETS FOR POWER REQUIREMENTS
1.42	ROOF DRAIN & OVERFLOW DRAIN LOCATION, COORDINATE ANY CLEANOUT LOCATIONS W/ ARCHITECT. REFER TO DETAIL 9/A3.2
1.43	WAITING BENCH
1.44	ANSUL FIRE SYSTEM, TO BE COORDINATED W/ KITCHEN
1.45	REMOTE ANSUL FIRE PULL STATION, REFER TO QF-SHEETS, CONFIRM LOCATIONS W/ FIRE INSPECTOR PRIOR TO INSTALLATION, TO BE COORDINATED W/ KITCHEN
1.46	GAS METER PROVIDED BY LANDLORD, REFER TO SP1.1
1.47	OIL TANK, BY OWNER, INSTALLED BY G.C. REFER TO SP1.3 AND P-SHEETS
1.48	DECANTER DISPLAY
1.49	EQUIPMENT PLATFORM ACCESS LADDER, REFER TO SHEET A3.2
1.50	FIRE RISER LINE, REFER TO P-SHEETS
1.51	HOSE BIBB, REFER TO P-SHEETS
1.52	LAUNDRY BINS LOCATED IN SERVICE YARD, REFER TO SP1.3
1.53	DECANTER COUNTER & STORAGE CABINET
1.54	LOCATION OF GARDALL OFFICE SAFE (HINGED RIGHT, LOAD RIGHT). COORDINATE EXACT LOCATION & HEIGHT OF DROP-OFF WINDOW IN WALL W/ SAFE LOCATION. REFER TO SHEET A8.1
1.55	FIRE ALARM CONTROL PANEL, REFER TO E-SHEETS
1.56	FIRE ALARM ANNUNCIATOR PANEL, REFER TO E-SHEETS
1.57	LOCATION OF AUTOMATIC DOOR OPENER PUSH BUTTON. MOUNTING HEIGHT TO BE 36" AFF
1.58	WRAPPING COUNTER, CONTRACTOR TO PROVIDE IN-WALL BLOCKING, REFER TO SHEET 7/A11.10
1.59	CO2 TANK BY OWNER, INSTALLED BY G.C
1.60	MILLWORK DISPLAY TO HAVE INTEGRATED LIGHTING, REFER TO MISCELLANEOUS LIGHTING DETAILS ON SHEET A2.4 FOR ADDITIONAL INFORMATION
1.61	LOCATION OF TV, REFER TO INTERIORS ELEVATIONS & E-SHEETS FOR ADDITIONAL INFORMATION
1.62	TRASH COMPACTORS IN SERVICE YARD, BY OWNER, REFER TO SP1.3 AND E-SHEETS
1.63	LINE LOCATION FROM NITROGEN TANK TO BARREL RESERVE, REFER TO QF-SHEETS & P-SHEETS. TERMINATE INSIDE CABINET @ 36" AFF
1.64	DOOR BUZZER LOCATION. REFER TO E-SHEETS FOR MORE INFORMATION
1.65	DIMMER SWITCH BANK, REFER TO E-SHEETS
1.66	AV EQUIPMENT BY OWNER, REFER TO E-SHEETS FOR POWER AND DATA REQUIREMENTS. G.C. TO KEEP ALL PLUMBING AND ROOF PENETRATIONS FROM ABOVE OR BELOW THIS AREA
1.67	MARKETING, TOILET & HIGHCHAIR STORAGE. REFER TO DETAILS 6/A11.10 & 10/A11.10
1.68	FIRE EXTINGUISHER CABINET, REFER TO EM1.1
1.69	GIFT DISPLAY BY OWNER
1.70	WATER SOFTENING EQUIPMENT, REFER TO P-SHEETS
1.71	NITROGEN TANK BY OWNER, INSTALLED BY G.C.
1.72	METAL CART WORK STATION BY OWNER
1.73	STAINLESS STEEL INSIDE ANGLE CORNER GUARDS AT EXTERIOR COOLERS

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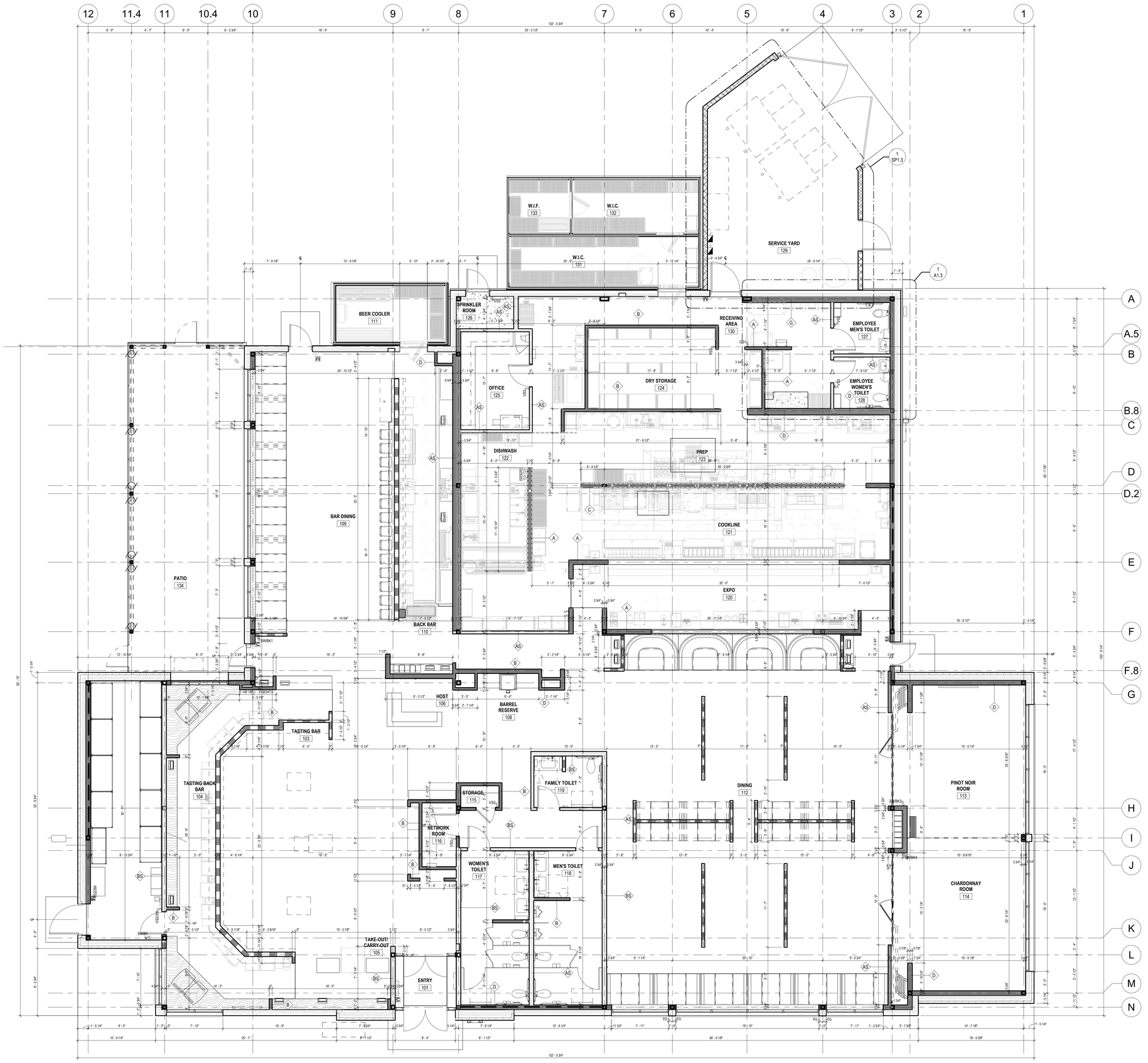
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NOTED FLOOR PLAN

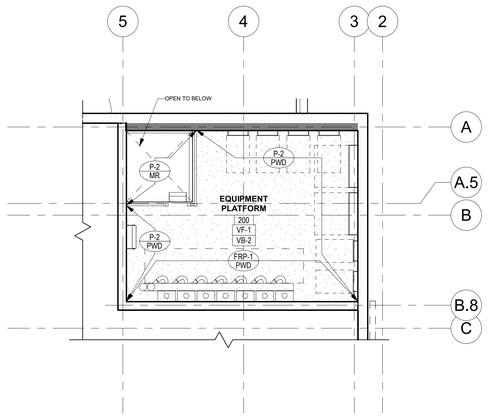
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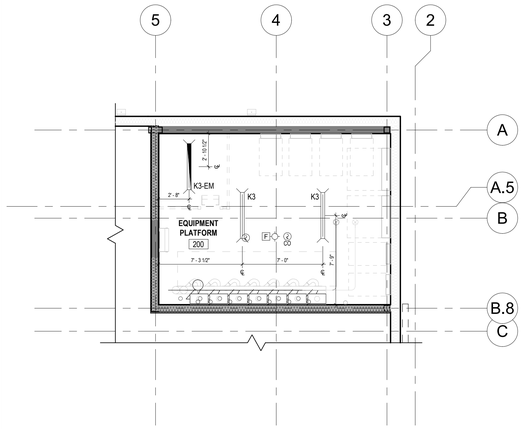
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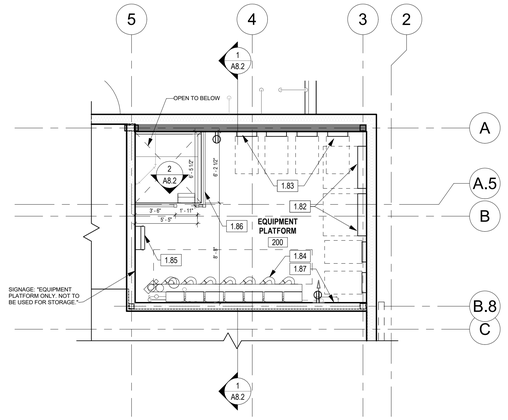

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W.I.F.
133
W.I.C.
132
W.I.C.
131
SERVICE YARD
129
SPRINKLER ROOM
126
BEER COOLER
111
RECEIVING AREA
130
EMPLOYEE MEN'S TOILET
127
OFFICE
125
DRY STORAGE
124
EMPLOYEE WOMEN'S TOILET
128
DISHWASH
122
PREP
123
BAR DINING
109
COOKLINE
121
PATIO
134
EXPO
120
BACK BAR
110
HOST
106
BARREL RESERVE
108
TASTING BAR
103
TASTING BACK BAR
104
STORAGE
115
FAMILY TOILET
119
DINING
112
PINOT NOIR ROOM
113
NETWORK ROOM
116
WOMEN'S TOILET
117
MEN'S TOILET
118
CHARDONNAY ROOM
114
TAKE-OUT/ CARRY-OUT
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ENTRY
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1 SP1.3
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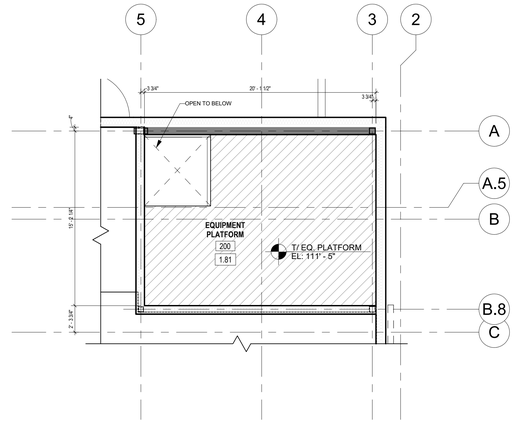
4 EQUIP. PLATFORM FLOOR FINISH PLAN
3/16" = 1'-0"



3 EQUIP. PLATFORM REFLECTED CEILING PLAN
3/16" = 1'-0"



2 EQUIP. PLATFORM FLOOR PLAN
3/16" = 1'-0"



1 EQUIP. PLATFORM CURB & FOUNDATION PLAN
3/16" = 1'-0"

FLOOR FINISH PLAN

FFP LEGEND

- FLOOR DRAIN - REFER TO K-SHEETS AND P-SHEETS FOR EXACT LOCATIONS AND ADDITIONAL INFORMATION
- FLOOR SINK - REFER TO K-SHEETS AND P-SHEETS FOR EXACT LOCATIONS AND ADDITIONAL INFORMATION
- INDICATES LIMITS OF WATERPROOFING TO FACE OF CEMENT BOARD 12" HIGH AND OVER ENTIRE SLAB IS SUSPENDED, AND 12" ONTO FLOOR WHEN SLAB IS ON GRADE.
- NOTES FLOOR FINISH, REFER TO FINISH SCHEDULE ON SHEET A9.2
- DENOTES BASE, REFER TO FINISH SCHEDULE ON SHEET A9.2
- DENOTES WALL FINISH, REFER TO FINISH SCHEDULE ON SHEET A9.2
- DENOTES SUBTRATE
  MR=MOISTURE RESISTANT GYPSUM BOARD
  PWD=PLYWOOD

GENERAL NOTES

1. REFER TO KITCHEN DRAWINGS FOR EXACT FLOOR SINK LOCATIONS. G.C. TO COORDINATE ALL KITCHEN FLOOR SINKS (F.S.) AND FLOOR DRAINS (F.D.) WITH KITCHEN EQUIPMENT PRIOR TO PLACEMENT.
2. MAXIMUM FLOOR SLOPE IN ANY DIRECTION IS 1 IN 20.
3. SILICONE ALL F.R.P. INTERSECTIONS BASE, CEILING DOOR FRAMES, ETC.
4. ALL MATERIAL TRANSITIONS TO MEET A.D.A. REQUIREMENTS.

REFLECTED CEILING PLAN

GENERAL NOTES

1. ALL WIRING IN CEILING MUST BE IN RIGID CONDUIT.
2. ELECTRICAL CONTRACTOR TO VERIFY ALL LOCATIONS OF WALL MOUNTED J-BOXES AND OUTLETS WITH OWNER PRIOR TO INSTALLATION.
3. REFER TO SHEET A2.3 FOR LIGHT FIXTURE SCHEDULE.

SPRINKLER NOTES

1. SPACE TO BE PROVIDED WITH COMPLETE AUTOMATIC SPRINKLER FIRE PROTECTION SYSTEM TO BE DESIGNED BY SPRINKLER CONTRACTOR AND TO BE IN ACCORDANCE WITH NFPA 70, AND LOCAL FIRE DEPARTMENT REQUIREMENTS. SPRINKLERS MUST BE ABOVE AND BELOW CEILINGS AS REQUIRED. SUBMIT SHOP DRAWINGS TO ARCHITECT FOR REVIEW AND COORDINATION. SUBMIT TO FIRE DEPARTMENT, INSURANCE UNDERWRITER AND ALL OTHER REGULATION AGENCIES.
2. ALL CONCELAED SPACES TO HAVE SPRINKLER HEADS PER LOCAL CODE REQUIREMENTS.
3. SEE PLUMBING SHEETS FOR SPRINKLER FIRE PROTECTION SYSTEM REQUIREMENTS. PROVIDE FULLY RECESSED SPRINKLER HEADS WITH FLUSH COVER PLATES (CHROME) IN ALL PUBLIC ACCESSIBLE AREAS, AND SEMI-RECESSED CHROME SPRINKLER HEADS IN NON-PUBLIC AREAS.

FLOOR PLAN

GENERAL NOTES

1. ALL CONTRACTORS TO VERIFY EXISTING SITE CONDITIONS BEFORE ANY WORK IS TO BEGIN. NOTIFY ARCHITECT OF DISCREPANCIES (TYPICAL).
2. THE DRAWINGS SHALL BE READ IN CONJUNCTION WITH STRUCTURAL, MECHANICAL, PLUMBING, ELECTRICAL AND OTHER CONSULTANT DRAWINGS AND SPECIFICATIONS AND WITH SUCH OTHER WRITTEN INSTRUCTIONS OR SKETCHES AS MAY BE ISSUED DURING THE COURSE OF THE CONTRACT. ANY DISCREPANCIES SHALL BE REFERRED TO THE SUPERINTENDENT AND ARIA GROUP ARCHITECTS, INC. BEFORE PROCEEDING WITH ANY WORK.
3. ALL WORK TO BE DONE IN ACCORDANCE WITH ALL GOVERNING STATE AND LOCAL CODES AND ORDINANCES (TYPICAL).
4. ALL DIMENSIONS ARE NOMINAL AND ARE FROM FACE OF SUBSTRATE, U.N.O.
5. REFER TO K-SHEETS FOR ROUGH-IN REQUIREMENTS OF KITCHEN EQUIPMENT.
6. PROVIDE IN-WALL BLOCKING FOR MILLWORK, SHELVING, PANELS, ETC. REFER TO K-SHEETS FOR ADDITIONAL INFORMATION.
7. ALL NEW PARTITIONS WITH SINKS AND/OR "WET EQUIP." TO HAVE " WATER RESISTANT GYPSUM BOARD" UNLESS NOTED OTHERWISE, WITH "CEMENT BOARD BASE TO 12" A.F.F.
8. WALLS IN KITCHEN AREAS AND TOILET ROOMS TO HAVE 12" BASE OF 5/8" CEMENT BOARD, 4" CEMENT BOARD BASE AT TOILET ROOM WALLS WITH BASE TILE ONLY. FACE OF CEMENT BOARD TO BE FLUSH WITH FACE OF GYPSUM BOARD.
9. MOUNT ALL FIXTURES AND ACCESSORIES AT HEIGHTS TO CONFORM TO ALL GOVERNING CODES AND A.D.A. REQUIREMENTS.
10. COORDINATE OUTLETS AT MILLWORK (PHONE, ETC.) WITH MILLWORKER AND ELECTRICAL DRAWINGS. PROVIDE SHOP DRAWINGS FOR REVIEW.
11. REFER TO K-SHEETS AND CURB AND FOUNDATION PLAN FOR FLOOR DRAINS AND DEPRESSION LOCATIONS.
12. ALL EXPOSED WATER SUPPLY PIPES, WASTE LINES, ELECTRICAL CONDUIT AND OTHER LIKE ITEMS THAT ARE NOT ABLE TO BE CONCEALED WITHIN WALL VOIDS MUST BE INSTALLED A MINIMUM OF SIX INCHES ABOVE THE FLOOR AND ONE INCH AWAY FROM THE WALL, INCLUDING THOSE AT THE BOTTOM OF THE EQUIPMENT.
13. DENOTES WALL TYPE TAG, REFER TO SHEET A11.1 FOR WALL TYPES.
14. REFER TO SHEET A9.1 FOR DOOR AND WINDOW SCHEDULES.

WALL LEGEND

- NEW PARTITION WALL
- NEW CMU WALL
- NEW PARTITION WALL W/ SOUND ATTENUATION BATTS OR THERMAL INSULATION

KEYNOTES

1.82	MDP CABINET, REFER TO E-SHEETS
1.83	ELECTRICAL PANELS, REFER TO E-SHEETS
1.84	HOT WATER HEATER, REFER TO P-SHEETS
1.85	LOCATION OF ROOF ACCESS HATCH WITH FOUR-SIDED DOOR FRAME, REFER TO SHEET A3.2
1.86	PAINTED METAL TUBE GUARDRAIL (3'-6" HIGH), REFER TO DETAIL 4/A8.2
1.87	TELEPHONE BACKER BOARD, REFER TO E-SHEETS

CURB AND FOUNDATION PLAN

LEGEND

- CONCRETE PANELS, REFER TO S-SHEETS
- FLOOR SINK, REFER TO QF-SHEETS & P-SHEETS
- FLOOR DRAIN, REFER TO P-SHEETS

GENERAL NOTES

1. CONTRACTOR TO REFER TO SHEET A12.1 FOR ALL FLOOR FINISHES. ALL TRANSITIONS BETWEEN FLOOR FINISHES TO BE FLUSH.
2. ALL DIMENSIONS ARE TO FACE OF FINISH UNLESS NOTED OTHERWISE. ALLOW FOR CONCRETE SHRINKAGE.
3. CONTRACTOR TO COORDINATE ALL FLOOR SINKS AND DRAINS WITH QF-SHEETS PRIOR TO INSTALLATION.
4. MAXIMUM SLOPE IN ANY DIRECTION IS 1 IN 20.
5. WALL LOCATIONS ARE INDICATED BY DASHED LINES.
6. ALL FLOORS TO HAVE NO MORE THAN 1/8" PER FOOT SLOPE TO FLOOR DRAINS.

KEYNOTES

1.81 STRUCTURAL CONCRETE SUBFLOOR PANELS ATTACHED TO MTL FRAME FLOOR STRUCTURE, REFER TO S-SHEETS

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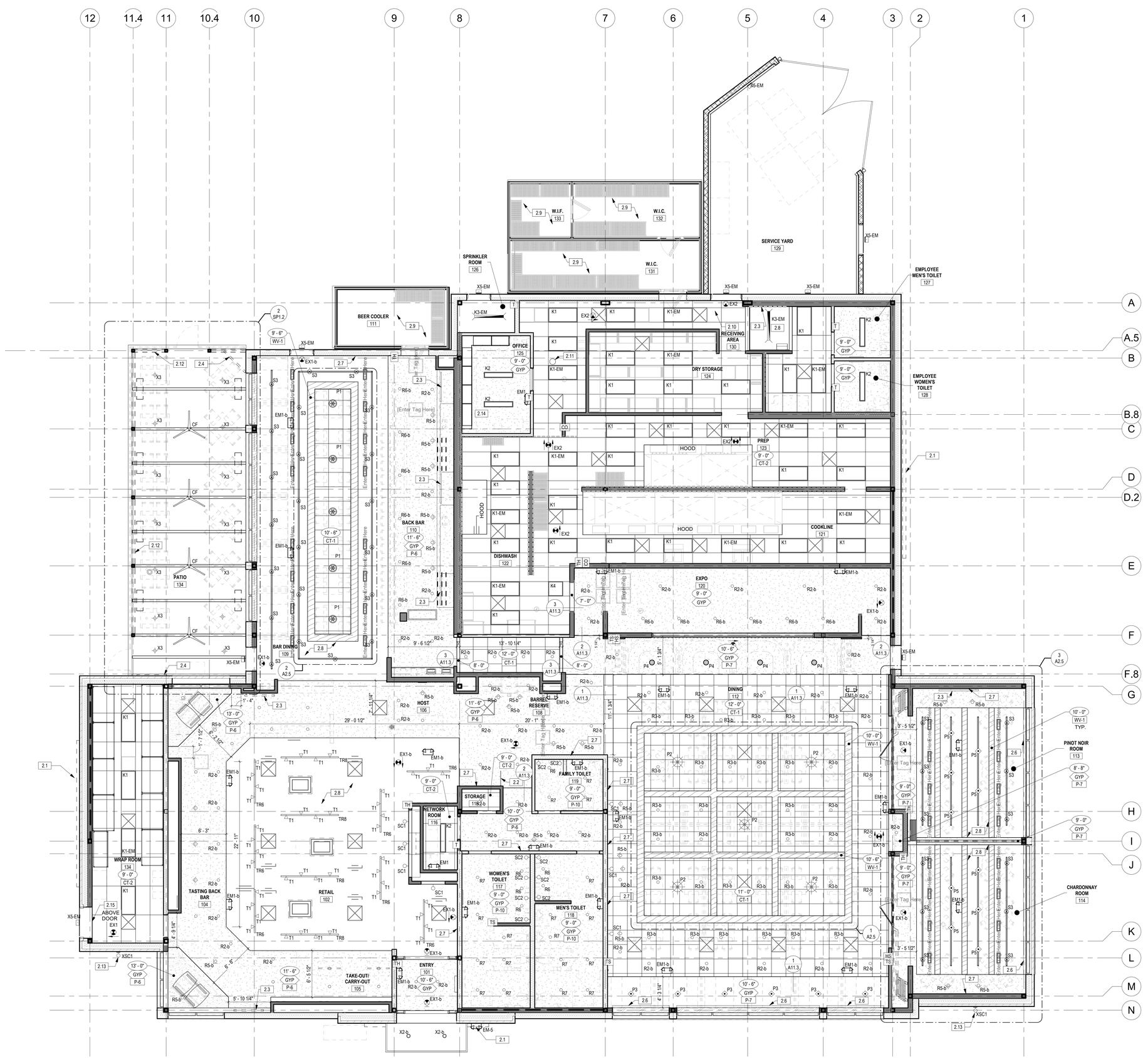
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EQUIPMENT PLATFORM PLANS

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204530	Author

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

GENERAL NOTES

1. CENTER ALL FIXTURES IN CEILING TILES AND FIELD VERIFY GRID LAYOUT FOR PROPER FIXTURE LAYOUT (TO MATCH DRAWINGS) UNO.
2. CENTER ALL SPRINKLER HEADS IN TILES.
3. ALIGN ALL FIXTURES IN BOTH DIRECTIONS (LAY OUT GRIDS SO THAT ALIGNMENT IS CONSISTENT).
4. ALL WIRING IN CEILING MUST BE IN RIGID CONDUIT.
5. ELECTRICAL CONTRACTOR TO VERFIY ALL LOCATIONS OF WALL MOUNTED J-BOXES FOR SCONCES AND OUTLETS WITH OWNER PRIOR TO INSTALLATION.
6. CONTRACTOR TO PAINT ALL GYPSUM BOARD CEILINGS AND SOFFITS.
7. GRILLS AND DIFFUSERS ARE TO BE PAINTED TO MATCH ADJACENT CEILING COLOR.
8. REFER TO SHEET A2.3 FOR LIGHT FIXTURE SCHEDULE.
9. REFER TO SHEET A2.4 AND A2.5 FOR ALL COUNTER AND IN-FLOOR LIGHTING INFORMATION.
10. CENTER IN CEILING TILES ALL EXIT AND EMERGENCY LIGHTS.
11. REFER TO DETAILS 13 AND 14 ON A11.2 FOR SUSPENDED CEILING FRAMING BRACING DETAILS.

LEGEND

	RETURN AIR GRILL, REFER TO M-SHEETS
	SUPPLY AIR GRILL, REFER TO M-SHEETS
	EXHAUST FAN, REFER TO M-SHEETS
	SLOT SUPPLY AIR GRILL, REFER TO M-SHEETS
X	DENOTES SUBSTRATE GYP GYPSUM BOARD MR MOISTURE RESISTANT GYPSUM BOARD
X'-X"	CEILING HEIGHT ABOVE FINISH FLOOR
X-X	CEILING FINISH, REFER TO FINISH SCHEDULE

REFER TO SHEET A9.2 FOR FINISH SCHEDULE

- 2'-0" x 4'-0" SUSPENDED VINYL FACED GYPSUM CEILING — REFER TO FINISH SCHEDULE AND CEILING DETAILS FOR ADDITIONAL INFORMATION AND DETAILS.
- GYPSUM BOARD CEILING — REFER TO FINISH SCHEDULE AND CEILING DETAILS FOR ADDITIONAL INFORMATION AND DETAILS.
- 24" x 24" CEILING GRID — REFER TO FINISH SCHEDULE AND CEILING DETAILS FOR ADDITIONAL INFORMATION AND DETAILS.
- VENEERED ACOUSTICAL CEILING TILES — REFER TO FINISH SCHEDULE AND CEILING DETAILS FOR ADDITIONAL INFORMATION AND DETAILS.

SPRINKLER NOTES

1. SPACE TO BE PROVIDED WITH COMPLETE AUTOMATIC SPRINKLER FIRE PROTECTION SYSTEM TO BE DESIGNED BY SPRINKLER CONTRACTOR AND TO BE IN ACCORDANCE WITH NFPA 70, AND LOCAL FIRE DEPARTMENT REQUIREMENTS. SPRINKLERS MUST BE ABOVE AND BELOW CEILINGS AS REQUIRED. SUBMIT SHOP DRAWINGS TO ARCHITECT FOR REVIEW AND COORDINATION. SUBMIT TO FIRE DEPARTMENT, INSURANCE UNDERWRITER AND ALL OTHER REGULATION AGENCIES.
2. ALL CONCEALED SPACES TO HAVE SPRINKLER HEADS PER LOCAL CODE REQUIREMENTS.
3. PROVIDE FULLY RECESSED SPRINKLER HEADS WITH FLUSH COVER PLATES IN ALL PUBLIC ACCESSIBLE AREAS AND SEMI-RECESSED CHROME SPRINKLER HEADS IN NON-PUBLIC AREAS.
4. COORDINATE COVER PLATE FINISH WITH CEILING FINISH. PROVIDE BLACK COVER PLATE FINISH IN DARK CEILING AND WHITE COVER PLATE FINISH IN LIGHT CEILINGS.
5. ALL SPRINKLER HEADS IN DRYWALL SOFFITS MUST BE ALIGNED WITH THE LINE OF LIGHT FIXTURES.
6. SPRINKLER HEADS IN LAY-IN CEILINGS IN PUBLIC AREAS MUST BE CENTERED ON TILES.
7. ALL SPRINKLER HEADS IN B.O.H. AREAS TO BE SEMI-RECESSED.
8. ALL EXPOSED PIPING IN THE PATIO TO BE RUN TIGHT TO STRUCTURE. PAINT ALL EXPOSED PIPING TO MATCH THE PAIN OF THE UNDERSIDE OF THE DECK.

KEYNOTES

2.1	SIGNAGE BY OWNER SHOWN DASHED, G.C. TO PROVIDE BLOCKING AND PRIMARY J-BOX AS REQUIRED, CONTRACTOR TO CONNECT, TYP. REFER TO SIGN SHOP DRAWINGS FOR SIGN SIZE AND EXACT PLACEMENT FOR CONTRACTOR INSTALLATION
2.2	LOCATION OF RESTROOM BLADE SIGN
2.3	TV LOCATION IN MILLWORK BY OWNER SHOWN DASHED. CONTRACTOR TO PROVIDE POWER AND IN-WALL BLOCKING AS REQUIRED
2.4	TV IN EXTERIOR WEATHER TIGHT ENCLOSURE, BY OWNER. CONTRACTOR TO PROVIDE POWER & IN WALL BLOCKING WHERE REQUIRED. OWNER TO PROVIDE CEILING MOUNTER TV BRACKET WHERE TV IS SUSPENDED FROM ABOVE
2.6	OPERABLE SHADE LOCATION
2.7	ART WORK, BY OWNERS VENDOR, INSTALLED BY G.C.. REFER TO INT. ELEV. CONTRACTOR TO PROVIDE IN WALL PLYWOOD BACKING
2.8	OPEN TO STRUCTURE ABOVE, CONTRACTOR TO PAINT ALL EXPOSED STRUCTURE, DUCTWORK, PIPING AND CONDUIT, P-6 TYP.
2.9	COOLER & FREEZER CEILING AND LIGHTING BY KEC
2.10	FLY FAN ABOVE RECEIVING DOOR, REFER TO E-SHEETS
2.11	ELECTRICAL ROUGH-IN FOR SAFE CAMERA TO BE 24" MIN. FROM FACE OF MILLWORK CABINET. REFER TO E-SHEETS FOR ADDITIONAL INFORMATION
2.12	DASHED LINE DENOTES LOCATION OF ROLL DOWN WEATHER SCREEN. REFER TO SECTION 3/A6.2 FOR ADDITIONAL INFO. REFER TO E-SHEETS FOR POWER REQUIREMENTS
2.13	EXTERIOR SCONCE LIGHTS, REFER TO EXTERIOR ELEVATIONS FOR MOUNTING HEIGHT
2.15	BUG LIGHT, REFER TO E-SHEETS

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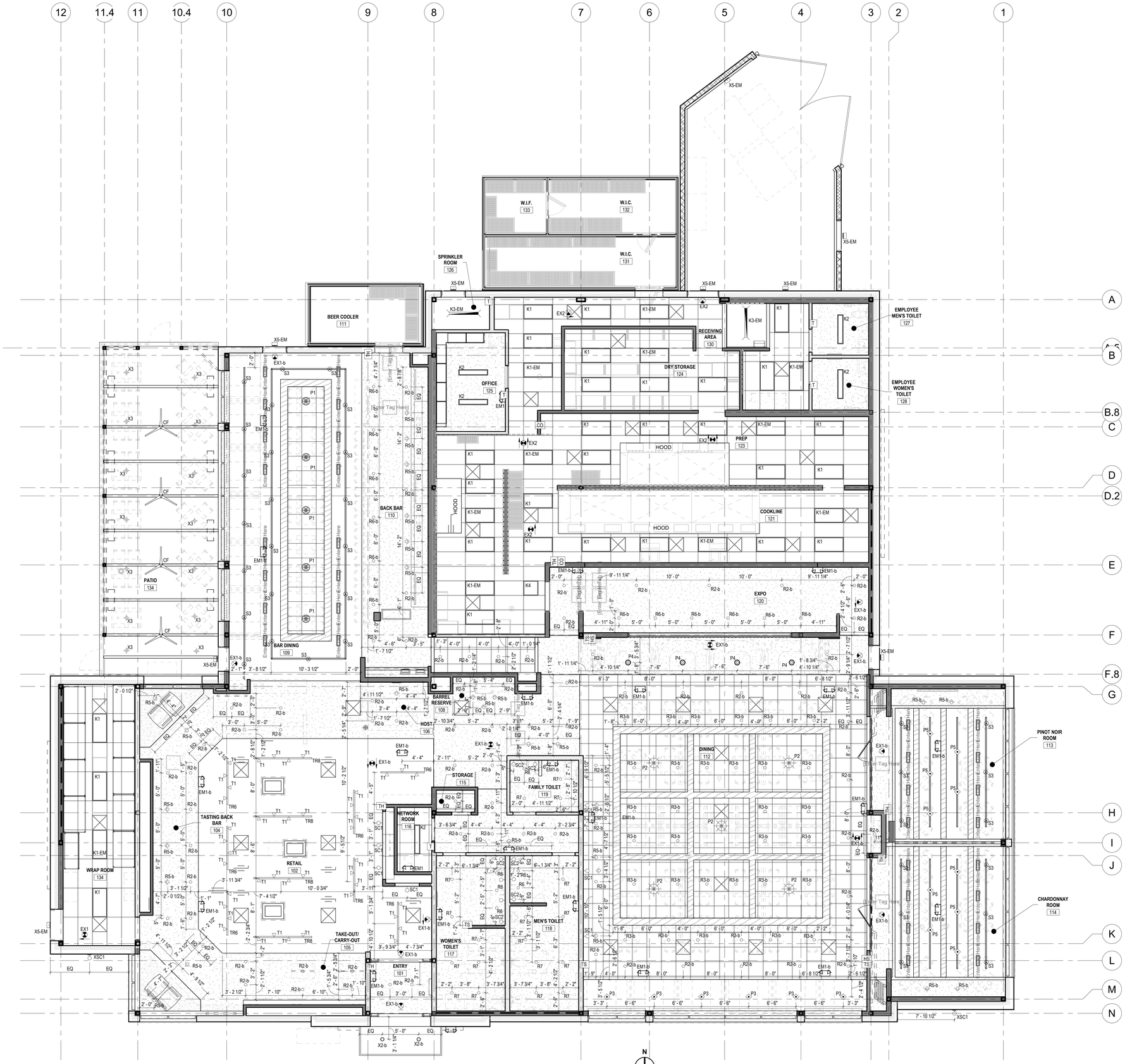
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1 LIGHTING DIMENSION PLAN
3/16" = 1'-0"

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LIGHTING DIMENSION PLAN

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3/16" = 1'-0"	08/19/2021

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GENERAL NOTES

1. BLACK TRIM RINGS TO BE FACTORY PAINTED SHERWIN WILLIAMS CARBIDE BLACK POLANE T (RAL# F63B12), AND ARE NOTED BY A -b IN THE FIXTURE TAG.
2. ALL LAMPS SHALL BE SYLVANIA, PHILIPS, SATCO, OR TCP, UNLESS NOTED OTHERWISE AND PROVIDED BY G.C.
3. ALL INTERIOR AND EXTERIOR SURFACE AND RECESSED LIGHT FIXTURES SHALL BE LABELED "U.L. LISTED."
4. BATTERY PACKS PROVIDED FOR ALL EXIT SIGNS AND EMERGENCY EGRESS FIXTURES SHALL BE RATED FOR MINIMUM 90 MINUTE OPERATION AT FULL OUTPUT.
5. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS AND/OR THE MISCELLANEOUS LIGHTING DETAIL SHEETS FOR EXACT LOCATIONS OF LIGHT FIXTURES.
6. FOR ALL LIGHTOLIER/DAYBRITE/GARDCO/PHILIPS/CHLORIDE LIGHTING FIXTURES, CONTACT JULIE BLANKENHEIM, 630-488-7403.

ARCHITECTURAL LIGHT FIXTURE SCHEDULE

TYPE	MANUFACTURER / MODEL #	LAMP	VOLTAGE	WATTS	VA	DESCRIPTION	QUANTITY
K1	DAYBRITE 2EVG54LH8304DUNVDIM	INTEGRAL LED	UNIVERSAL	55		2'X4', RECESSED 3000K LED TROFFER, PRISMATIC LENS AND ELECTRONIC BALLAST, @ B.O.H.	29
K1-EM	DAYBRITE 2EVG54LH8304DUNVDIM-EMLED	INTEGRAL LED	UNIVERSAL	55		2'X4', RECESSED 3000K LED TROFFER, PRISMATIC LENS, ELECTRONIC BALLAST AND EMERGENCY BATTERY PACK FOR TWO LAMPS RATED FOR 1100 TO 1400 LUMENS, @ B.O.H.	11
K3	DAYBRITE T232-UNV-1/2-EB-IOP232-LWN-FKR-126-CG-4 INSTANT START BALLAST	(2) 14WTLED PHILIPS INSTANT FIT- 3000K	UNIVERSAL	28		4'-0", STANDARD STRIP WITH 2-LAMP T8, AND ELECTRONIC BALLAST, WITH WIRE GUARD AND CHAIN HANGER KIT	2
K3-EM	DAYBRITE T232-120-1/2-EB10R-E5-FKR-126-CG-4 INSTANT START BALLAST & EMERGENCY BATTERY PACK	(2) 14WTLED PHILIPS INSTANT FIT- 3000K	UNIVERSAL	28		4'-0", STANDARD STRIP WITH 2-LAMP T8, AND ELECTRONIC BALLAST AND EMERGENCY BATTERY PACK, WITH WIRE GUARD AND CHAIN HANGER KIT	2
K4	DAYBRITE 2EVG30L830-2-D-UNV-DIM	(2) 14WTLED PHILIPS INSTANT FIT- 3000K	UNIVERSAL	28		2'X2', RECESSED DIMMABLE 3000K LED @ B.O.H.	1
LS1	NOVA FLEX NF-PRO-0-120-24V-2700K	WARM WHITE LED, LAMP INTEGRAL	12V	PER DRIVER		DIMMING COMPATIBILITY TO BE VERIFIED BY PROJECT, 0-10V AND MLV DIMMING DRIVERS ARE AVAILABLE. REFER TO RCP & MISC. LIGHTING DETAIL SHEETS FOR QUANTITY/LOCATION. LED TAPE LIGHT. SURFACE MOUNTED w/ LOW PROFILE CHANNEL (CONCEALED). CLEAR PANEL USED FOR TASK LIGHTING AND AND SOFT PANEL USED FOR MILLWORK & SUSPENDED BARREL LIGHTING	45
LS3	ONMILIGHT FIXTURE: GEN-27-SHO-CC LEADER: - DRIVERS AS REQUIRED PER PLAN	2700K LED	24V	5.3 / FT		DIMMING COMPATIBILITY TO BE VERIFIED BY PROJECT, 0-10V AND MLV DIMMING DRIVERS ARE AVAILABLE. REFER TO RCP & MISC. LIGHTING DETAIL SHEETS FOR QUANTITY/LOCATION. STRIP LIGHT AT MILLWORK WINE DISPLAYS	6
R2-b	LIGHTOLIER FRAME: 4RN ENGINE: C4L10827MZ10U TRIM: C4RDLCL - PAINT BLACK	2700K LED	120V	11		4" LED RECESSED DOWNLIGHT - DIMMABLE WITH 0-10V DIMMER (IMETRAL LENS STANDARD IS APPROVED FOR OVER FOOD SERVICE) BLACK FLANGE. MEDIUM SPREAD BEAM. 1000 LUMENS - USE FOR CEILING HEIGHTS BETWEEN 9' AND 12'	76
R3-b	LIGHTOLIER FRAME: 3RN ENGINE: C3RA10927NSZ10U TRIM: C3RAPBKBK - PAINT BLACK	2700K LED	120V	13		3" RECESSED ADJUSTABLE PINHOLE APERTURE DOWNLIGHT - DIMMABLE WITH 0-10V DIMMER PINHOLE SPOT LIGHT. BLACK FLANGE 1000 LUMENS - USED TO LIGHT TABLES	32
R5	LIGHTOLIER FRAME: 3RN ENGINE: C3RA10927FLZ10U TRIM: C3RACL	2700K LED	120V	13		3" RECESSED ADJUSTABLE APERTURE 1,000 LUMEN LED ACCENT LIGHT. DIMMABLE WITH 0-10V DIMMER WHITE FLANGE WIDE FLOOD-USED FOR CEILING HEIGHTS 10'-12'	11
R5-b	LIGHTOLIER FRAME: 3RN ENGINE: C3RA10927FLZ10U TRIM: C3RACL - PAINTED BLACK	2700K LED	120V	13		3" RECESSED ADJUSTABLE APERTURE 1,000 LUMEN LED ACCENT LIGHT. DIMMABLE WITH 0-10V DIMMER BLACK FLANGE WIDE FLOOD-USED FOR CEILING HEIGHTS 10'-12'	17
R6	LIGHTOLIER LYTECASTER FRAME-IN-KIT: L3NZ10U LIGHT ENGINE: L308927NF ROUND TRIM: L3RAPW	2700K LED	120V	--		RECESSED ADJUSTABLE LED DOWNLIGHT WITH PINHOLE APERTURE. DIMMABLE WITH 0-10V DIMMER WHITE FLANGE USED FOR CEILING HEIGHTS BETWEEN 8'-10'	6
R6-b	LIGHTOLIER LYTECASTER FRAME-IN-KIT: L3NZ10U LIGHT ENGINE: L308927NF ROUND TRIM: L3RAPW - PAINTED BLACK	2700K LED	120V	--		RECESSED ADJUSTABLE LED DOWNLIGHT WITH PINHOLE APERTURE. DIMMABLE WITH 0-10V DIMMER BLACK FLANGE USED FOR CEILING HEIGHTS BETWEEN 8'-10'	12
R7	LIGHTOLIER FRAME IN KIT: 4RN LIGHT ENGINE: P4RDL20827CLZ10U	2700K LED	120V	21		4" ROUND DOWNLIGHT WHITE FLANGE USED IN RESTROOMS	18
S1	LUCIFER LIGHTING COMPANY PUKLED LPK SEMI-RECESSED LED LPK-1-80L-02A-27-B	4.3W AC LED	120V/12V	4.3		SEMI-RECESSED PUK LIGHT WITH BLACK TRIM RING. PROVIDE WITH REMOTE POWER SUPPLY. REFER TO RCP & MISC. LIGHTING DETAIL SHEETS FOR QUANTITY/LOCATION AND INSTALLATION TYPE. USED FOR MILLWORK LIGHTING	21
S3-b	JUNO - TRAC MASTER AVANT GARDE CYLINDRA T254L 27K 80CRI PDIM SP B	2700K 80 CRI 15W LED SP	120V	15		SURFACE MOUNTED MONOPOINT WITH CANOPY AND ELV TRANSFORMER - = MONOPOINT W/ NO STEM a = MONOPOINT W/ 12" STEM b = MONOPOINT W/ 18" STEM c = MONOPOINT W/ 24" STEM * NOTE: STEMS CAN BE COMBINED FOR ADDITIONAL LENGTHS AND ARE NOTED BY TWO LETTERS SURFACE MOUNTED MONOPOINT WITH CANOPY AND ELV TRANSFORMER - = MONOPOINT W/ NO STEM a = MONOPOINT W/ 12" STEM b = MONOPOINT W/ 18" STEM c = MONOPOINT W/ 24" STEM * NOTE: STEMS CAN BE COMBINED FOR ADDITIONAL LENGTHS AND ARE NOTED BY TWO LETTERS	34
T1	LIGHTOLIER MODEL: LT08RNF827BKVA/6074BK	2700K LED	120V	9		LED TRACK HEAD, 2700K IN BLACK NARROW FLOOD DISTRIBUTION, ELV DIMMING BLACK FINISH. 18" STEM.	43
TR6 TR4	LIGHTOLIER 6006NBK 6' TRACK 6048NBK LIVE END	--	--	--		LIGHTOLIER BASIC LYTESPAN SINGLE CIRCUIT TRACK BLACK FINISH REFER TO PLAN FOR TRACK HEADS	7
TR8 TR4	LIGHTOLIER 6008NBK 8' TRACK 6048NBK LIVE END	--	--	--		LIGHTOLIER BASIC LYTESPAN SINGLE CIRCUIT TRACK BLACK FINISH REFER TO PLAN FOR TRACK HEADS	4

EXTERIOR LIGHT FIXTURE SCHEDULE

TYPE	MANUFACTURER / MODEL #	LAMP	VOLTAGE	WATTS	VA	DESCRIPTION	QUANTITY
CF	FANIMATION SPITFIRE (DAMP RATED) MODEL: MA6721BK BLADES: B6720	--	120V	--		MOTOR ASSEMBLY: MATTE GREIGE FAN ASSEMBLY BLADES: 60" SWEEP SPITFIRE NATURAL WOOD BLADE SET W/ FAN CONTROL BY LUTRON MODEL #DVFSQ-F-BL	4
RH-2	SOLAIRA ICR SERIES MODEL: SICR40240B-SMART34-DV-SM-WSD	--	208V	3,000		ELECTRIC HEATER AT PATIO, SOLAIRA SMART 16A DUAL VOLTAGE VARIABLE CONTROL, 34.5"L x 10"W x 4.33"D DUAL VOLTAGE DIGITAL CONTROLLER: SMART34-DV WALL SWITCH FOR SMART34-DV: SM-WSD BLACK FINISH MOUNT HEATER AT 45 DEGREE ANGLE W/ STANDARD FACTORY BRACKET	8
X2-b	Y079GKHWVB MODEL#: SJ1DL6D-18W30	--	110V	18W		RECESSED LED DOWNLIGHT. UL WET LOCATION LISTED. BLACK FLANGE USED FOR EXTERIOR CANOPY DOWNLIGHTING PROVIDED BY CANOPY MANUFACTURER	2
X3	RAB LIGHTING LFP16B	(1) 7 WATT TCP LED7P1627KFL	120V	60		LAMP BEAM ANGLE TO BE 30 DEGREE SPREAD BLACK FINISH SURFACE LIGHTING USED AT REGULAR HARD LID PATIO CANOPIES	20
X5-EM	GARDCO 121-16L-700-WW-G4-3-EBPC-120-BK	LED	120V	--		SURFACE MOUNTED 2 LAMP LED WALL PACK WITH MEDIUM THROW CUT OFF OPTICS AND EMERGENCY BATTERY OPTION. BLACK FINISH	9
XSC1	DECORATIVE SCONCE MFR: WAC LIGHTING STYLE: MRUBIX DOUBLE WALL MOUNT MODEL: WS-W2505-BK	3000K LED	120V	30W		FINISH: BLACK SIZE: 5" W X 5" H X 6-1/2"D LOCATION: EXTERIOR WALL REFER TO ELEVATIONS FOR MOUNTING HEIGHT	4

EXITING & EMERGENCY LIGHT FIXTURE SCHEDULE

TYPE	MANUFACTURER / MODEL #	LAMP	VOLTAGE	WATTS	VA	DESCRIPTION	QUANTITY
EM1	EXITRONIX LED-90	LED	120V	12		EMERGENCY LIGHTING FOR FRONT OF HOUSE. WHITE HOUSING	2
EM1-b	EXITRONIX LED-90BL	LED	120V	12		EMERGENCY LIGHTING FOR FRONT OF HOUSE. BLACK HOUSING	21
EM5	PHILIPS - CHLORIDE FUSION III F3-N-B-31KIC	T-5 WEDGE BASE TUNGSTEN LAMP	120V	5.4		RECESSED DECORATIVE ARCHITECTURAL EMERGENCY LIGHT, UL DAMP LOCATION LISTED BLACK FINISH	1
EX1	PHILIPS - CHLORIDE CALIBER SERIES CN6RWW21C	LED INCLUDED WITH UNIT	120V	3.8		SINGLE-SIDED, WALL OR CEILING MOUNTED, EDGE-LIT, LED EXIT SIGN TO BE USED IN FRONT OF HOUSE. WHITE FINISH	1
EX1-b	PHILIPS - CHLORIDE CALIBER SERIES CN6RWB21C	LED INCLUDED WITH UNIT	120V	3.8		WALL OR CEILING MOUNTED, EDGE-LIT, LED EXIT SIGN TO BE USED IN FRONT OF HOUSE BLACK FINISH	13
EX2	PHILIPS CHLORIDE VE SERIES VERWEM	LED INCLUDED WITH UNIT	120V	3.62		LED EXIT SIGN WITH THERMOPLASTIC HOUSING AND 2 STENCIL FACES TO BE USED IN BACK OF HOUSE WHITE FINISH	5

DECORATIVE LIGHT FIXTURE SCHEDULE

TYPE	MANUFACTURER / MODEL #	LAMP	VOLTAGE	WATTS	VA	DESCRIPTION	QUANTITY
P1	DECORATIVE PENDANT MFR: KUZCO LIGHTING STYLE: DECO MODEL: PD61412-CL/BK	3000K INTEGRAL LED DIMMABLE	120V	29W		FINISH: BLACK/CLEAR SIZE: 17.75" W X 14" H LOCATION: BAR MOUNT AT 7'-6" A.F.F.	5
P2	DECORATIVE PENDANT MRF: TROY LIGHTING STYLE: ELLIOT MODEL: F6223	(8) SATCO S2954T 4W DIMMABLE LED / G9 WEDGEBASE XENON / 2700K	120V	32W		FINISH: TEXTURED BLACK SIZE: 44" DIA x 25" H LOCATION: DINING, MOUNT AT 8'-0" A.F.F.	5
P3	DECORATIVE PENDANT MRF: TROY LIGHTING STYLE: RAEF MODEL: F6313	(1) MAXLITE T8 JA8 4W DIMMABLE LED / 2700K	120V	4W		FINISH: TEXTURED BRONZE BRUSHED BRASS SIZE: 7"W x 15"H LOCATION: DINING ROOM PULLMAN BOOTHS, REFER TO INTERIOR ELEVATIONS FOR MOUNTING HEIGHTS	6
P4	DECORATIVE PENDANT MRF: TROY LIGHTING STYLE: BERLIN MODEL: F5852	(1) 14W LED / BULB INCLUDED	120V	14W		FINISH: GUN METAL SIZE: 15.5"W x 13.75"H LOCATION: DINING ROOM U-BOOTHS, REFER TO INTERIOR ELEVATIONS FOR MOUNTING HEIGHTS	4
P5	DECORATIVE PENDANT MRF: TROY LIGHTING STYLE: DISTRICT MODEL: F5571	(1) SATCO S9582 6.5W DIMMABLE LED / T9 (8") / E26 / CLEAR / 2700K	120V	6.5W		FINISH: SATIN BLACK/TOPAZ GLASS SIZE: 8"W x 15.75"H LOCATION: PRIVATE DINING ROOM, REFER TO ENLARGED PLAN FOR MOUNTING HEIGHTS	10
SC1	WALL SCONCE MFR: ONE FOURTY THREE STYLE: WALLACE LAMP MODEL:	(1) SATCO S9564 6.5W DIMMABLE LED E25 / CLEAR /2700K	120V	6.5W		FINISH: BLACK LAMP W/ BRASS SHADE/BRASS HARDWARE SIZE: 5" PLATE X 17" H X 12" D LOCATION: RETAIL	7
SC2	WALL SCONCE MFR: MITZI STYLE: BELINDA MODEL: H415101A-OB	(1) SATCO S9564 6.5W DIMMABLE LED E26 / CLEAR / 2700K	120V	6.5W		FINISH: OLD BRONZE SIZE: 6" W X 14" W X 7" H LOCATION: BATHROOMS	9
TBL1	TABLE LAMP MFR: PAGE ONE LIGHTING STYLE: CENTURY LED TABLE LAMP MODEL:	3000K INTEGRAL LED DIMMABLE	120V	7W		FINISH: SATIN FARK GRAY WITH SMOKE GLASS SIZE: 5.9" DIA X 17.6" H LOCATION: HOST STAND	1

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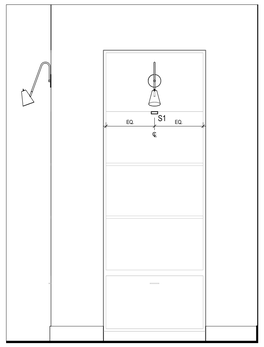
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LIGHT FIXTURE SCHEDULE

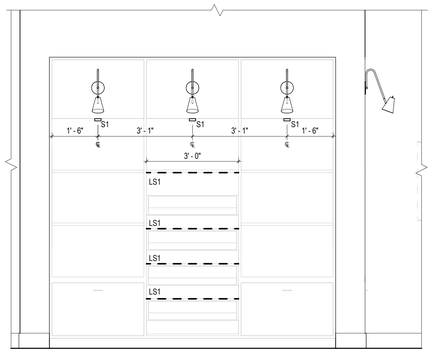
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Date 08/19/2021

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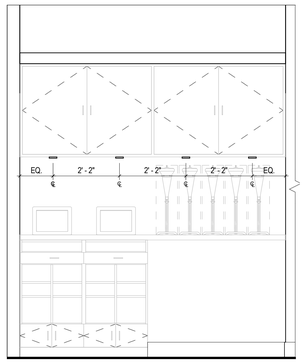
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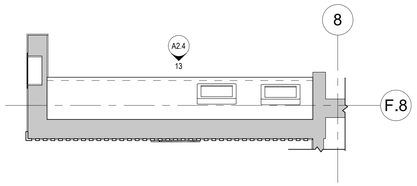
15 LIGHTING ELEVATION
1/2" = 1'-0"



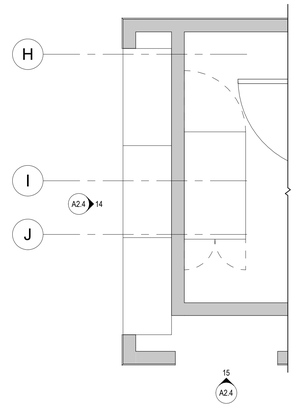
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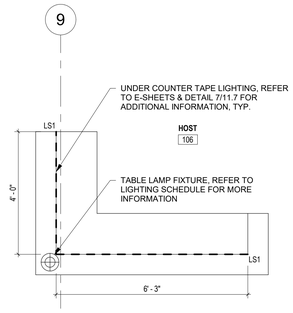
13 LIGHTING ELEVATION
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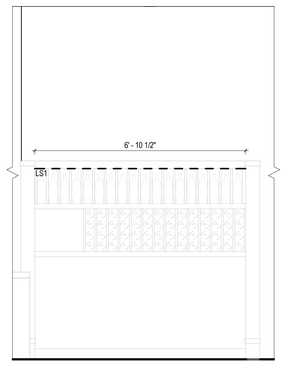
5 POS LIGHTING PLAN
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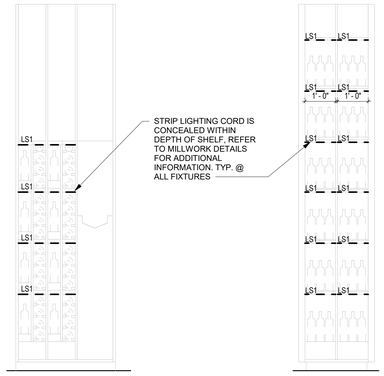
4 RETAIL LIGHTING PLAN
1/2" = 1'-0"



3 HOST STAND LIGHTING PLAN
1/2" = 1'-0"

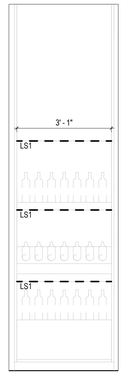


12 LIGHTING ELEVATION
1/2" = 1'-0"

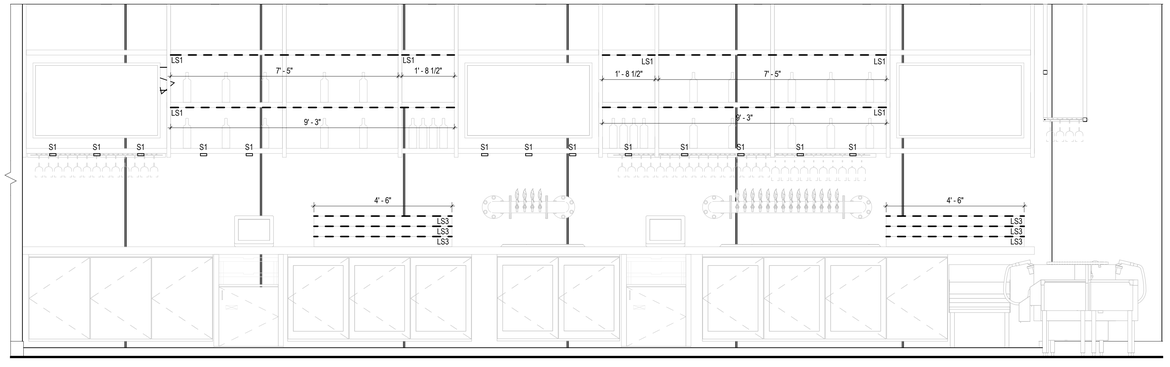


11 LIGHTING ELEVATION
1/2" = 1'-0"

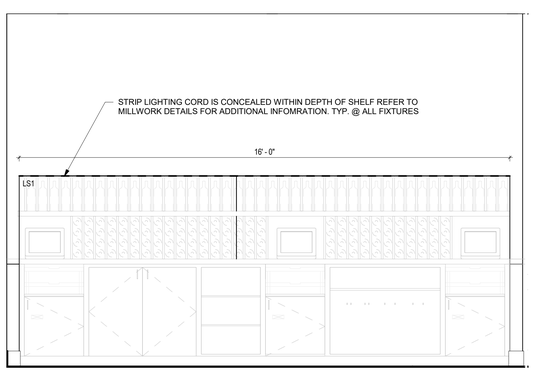
10 LIGHTING ELEVATION
1/2" = 1'-0"



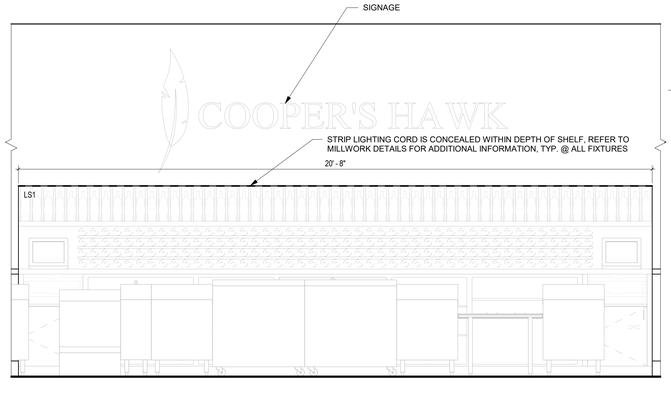
9 LIGHTING ELEVATION
1/2" = 1'-0"



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



7 LIGHTING ELEVATION
1/2" = 1'-0"



6 LIGHTING ELEVATION
1/2" = 1'-0"

2 MAIN BAR LIGHTING PLAN
1/2" = 1'-0"

1 TASTING BAR LIGHTING PLAN
1/2" = 1'-0"

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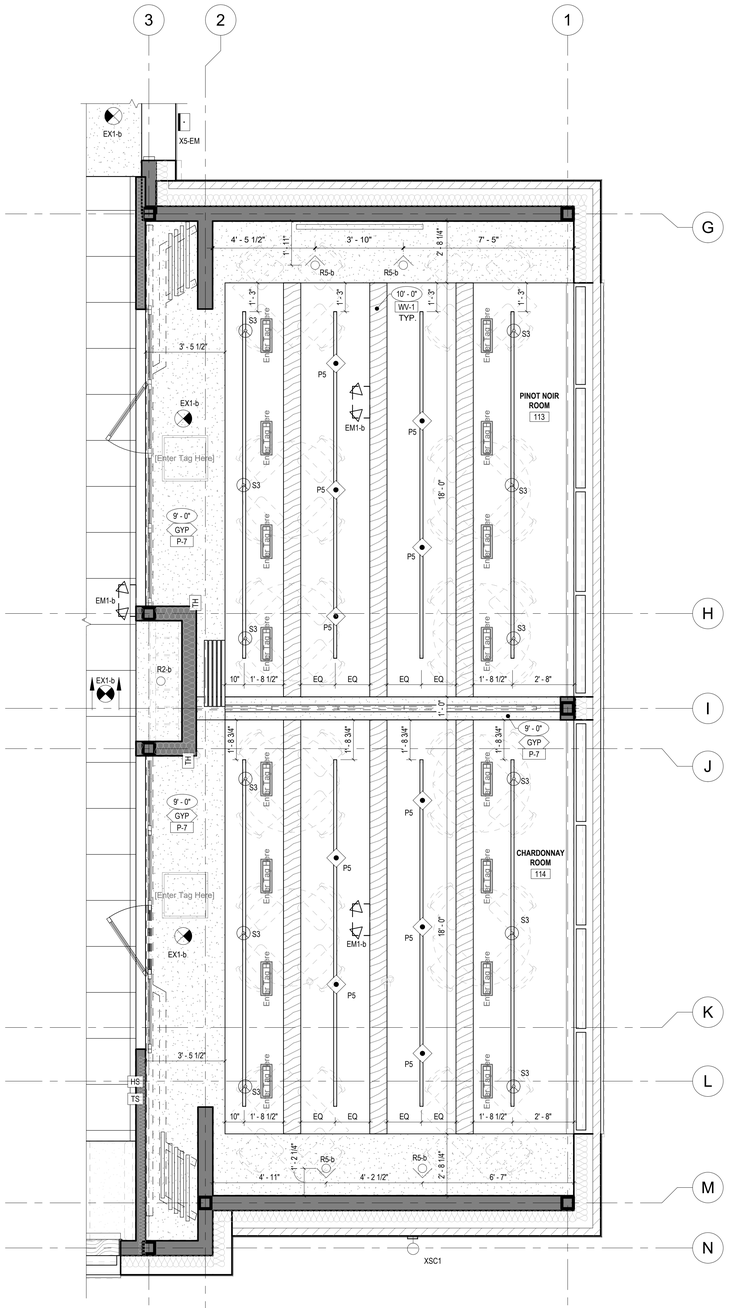
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ENLARGED LIGHTING PLANS

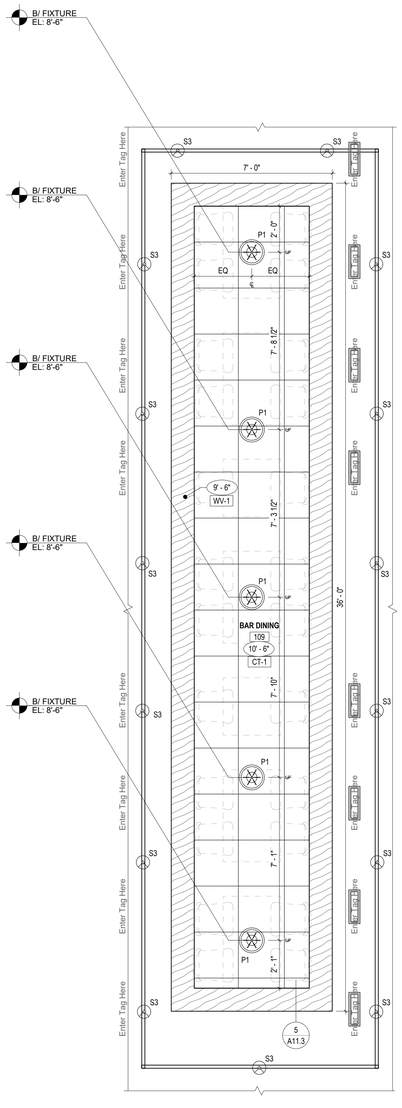
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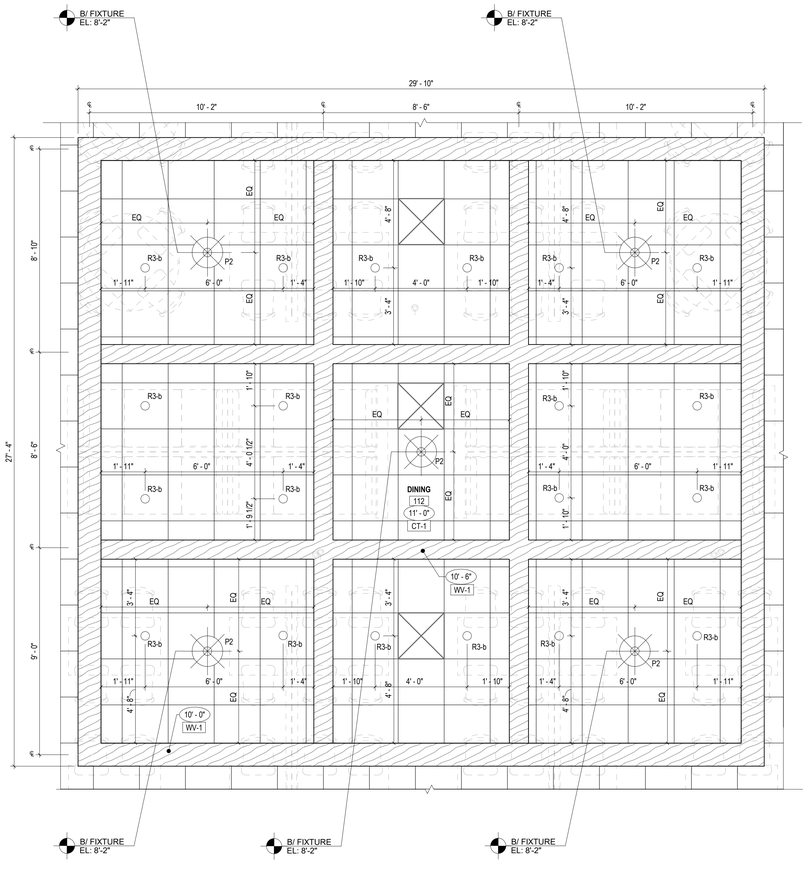
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3 ENLARGED PDR RCP
3/8" = 1'-0"



2 ENLARGED BAR RCP
3/8" = 1'-0"



1 ENLARGED DINING RCP
3/8" = 1'-0"

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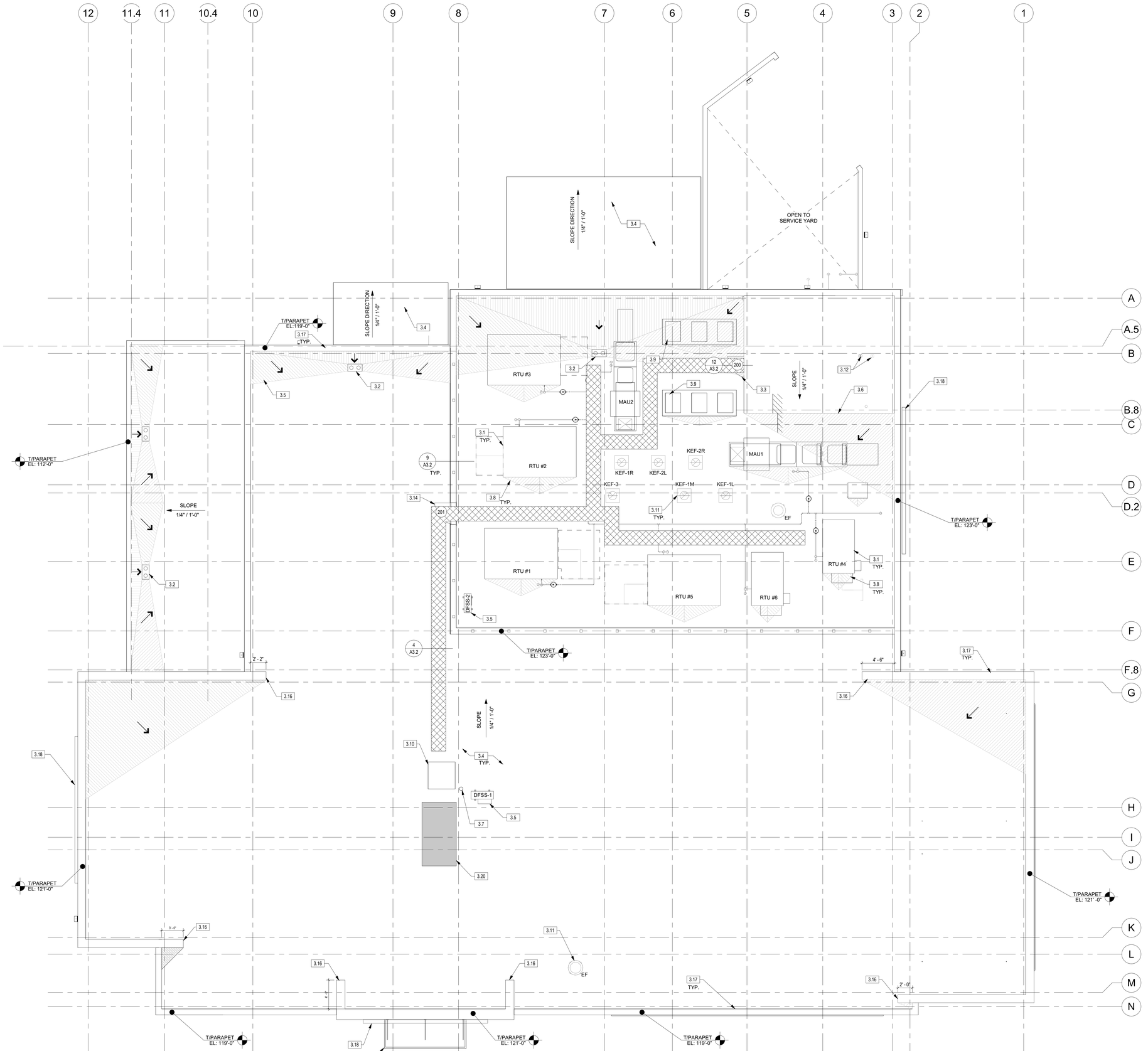
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MISCELLANEOUS LIGHTING DETAILS

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

GENERAL NOTES

1. PROVIDE CRICKETS FOR PROPER DRAINAGE AT ALL ROOF TOP EQUIPMENT OR PENETRATIONS.
2. REFER TO M-SHEETS FOR HVAC UNIT INFORMATION.
3. ALL EQUIPMENT ON ROOF TO BE MOUNTED ON CURBS AND PROPERLY FLASHED PER EQUIPMENT MANUFACTURER'S RECOMMENDATIONS.
4. CONTRACTOR TO COORDINATE LOCATION OF ALL ROOF PENETRATIONS WITH STRUCTURE AND EXISTING CONDITIONS IN FIELD. NOTIFY ARCHITECT OF ANY DISCREPANCIES.
5. CONTRACTOR IS REPONSIBLE FOR MAINTAINING CLEAR DISTANCES AROUND ROOFTOP EQUIPMENT ACCESS DOORS AND TO ENSURE THEY ARE NOT BLOCKED BY OTHER ROOFTOP PENETRATIONS.
6. REFER TO DETAILS ON SHEET A3.2 FOR ADDITIONAL INFORMATION.
7. CONTRACTOR TO SEAL ALL ROOF PENETRATIONS WITIN ROOF CURB.
8. REFER TO 2/A3.2 FOR ALL ROOFTOP PIPE SUPPORT DETAIL.
9. ALL UNITES TO BE LABELED - VISIBLE FROM ROOF ACCESS AREA - 3" LETTERS.

LEGEND

- ROOF DRAIN AND OVERFLOW DRAIN
- INDICATES NEW SERVICE WALKWAY TREAD, REFER TO DETAIL 5/A3.2
- INDICATES AREA OF TAPERED INSULATION, INSTALL TO PROVIDE SLOPE TO DRAIN
- GAS — INDICATES GAS PIPING, CONTRACTOR TO PAINT YELLOW, REFER TO M-SHEETS

KEYNOTES

3.1	MECHANICAL EQUIPMENT AND CURBS, REFER TO M-SHEETS & DETAIL 3/A3.2
3.2	ROOF DRAIN AND OVERFLOW DRAIN, REFER TO P-SHEETS & 7/A3.2
3.3	ROOF ACCESS DOOR
3.4	SINGLE PLY PVC ROOFING SYSTEM . REFER TO EXTERIOR WALL SECTIONS FOR ADDITIONAL INFORMATION
3.5	ROOF MOUNTED COOLING / CONDENSING UNIT AND CURBS, REFER TO M-SHEETS.
3.6	CHANGE IN ROOF ELEVATION. EXTEND ROOF MEMBRANE FLASHING UP AND ON RAISED ROOF AREA
3.7	A/V CABLE PENETRATION PIPES, REFER TO DETAIL 8/A3.2
3.8	CRICKETS AT ROOFTOP EQUIPMENT, TYP.
3.9	CONDENSING UNITS ON STANDS BY KEC, REFER TO M-SHEETS AND DETAIL 6/A3.2
3.10	NEW SATELLITE DISH LOCATION, VENDOR TO PROVIDE NON-PENETRATING ROOF MOUNT SYSTEM, PERFECT VISION MANUFACTURING # NPRIB & NPRMATZ, COORDINATE FINAL LOCATION W/ SATELLITE DISH INSTALLER
3.11	EXHAUST FANS, REFER TO M-SHEETS
3.13	LOCATION OF VENT PENETRATIONS REFER TO P-SHEETS & 4/A3.2
3.14	PROVIDE 3'-0" X 7'-0" HM ACCESS DOOR WITH DIRECT-APPLIED FINISH TO MATCH ADJACENT EIFS
3.15	CANOPY BELOW
3.16	ELEVATION MATERIAL FINISH TO RETURN BACK & WRAP PARAPET SIDE
3.17	PREFINISHED METAL COPING, REFER TO EXTERIOR ELEVATIONS FINISH SCHEDULES AND DETAILS FOR ADDITIONAL INFORMATION
3.18	SIGNAGE BELOW BY SIGN CONTRACTOR, G.C. TO COORDINATE INSTALLATION, REFER TO EXTERIOR ELEVATIONS FOR ADDITIONAL INFORMATION
3.20	NETWORK ROOM BELOW - CONTRACTOR TO AVOID LOCATING ANY OPENINGS IN THE ROOF IN THIS AREA

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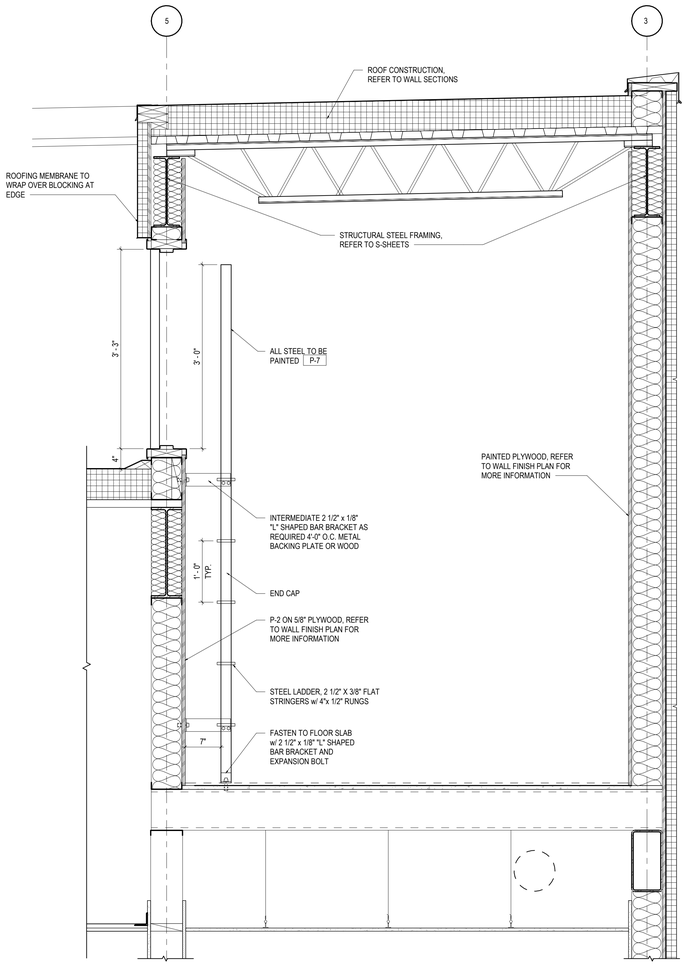
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ROOF PLAN

Job No.	Drawn
204530	JC

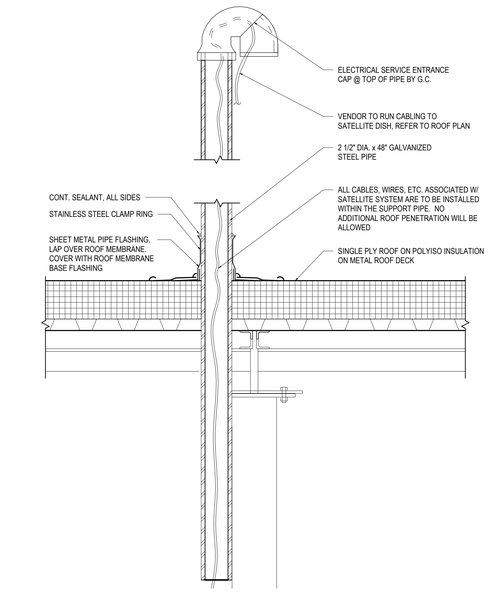
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AS NOTED	08/19/2021

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A3.1

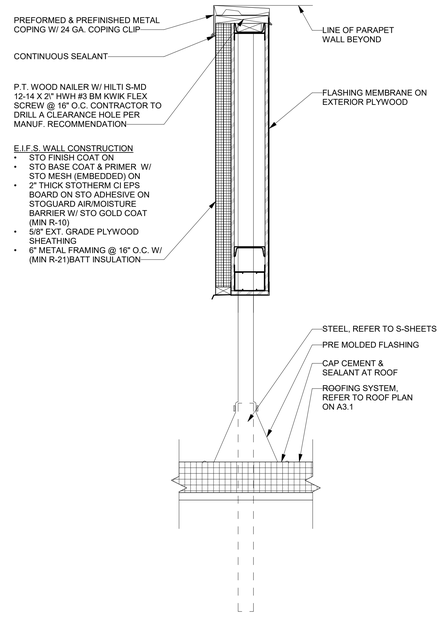
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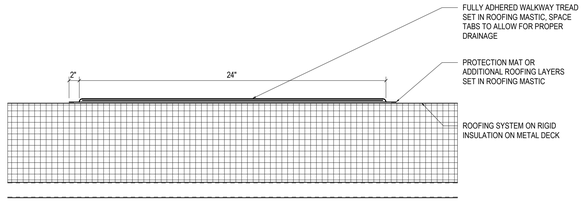
12 ROOF ACCESS DETAIL
1" = 1'-0"



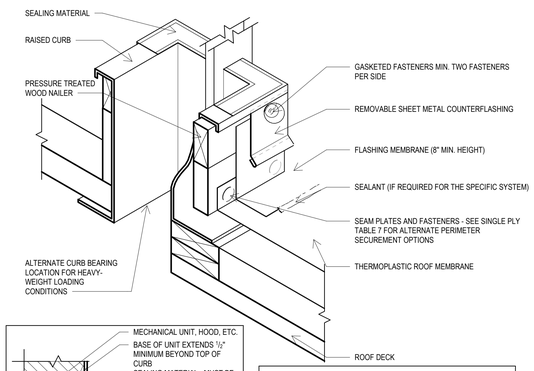
9 AV CABLE DETAIL
1 1/2" = 1'-0"

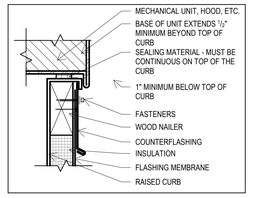


8 PARAPET SCREEN
1" = 1'-0"



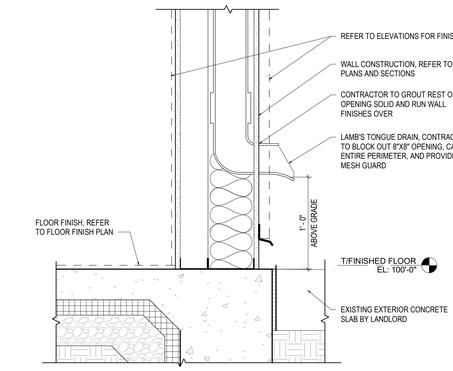
4 WALKWAY TREAD
12" = 1'-0"



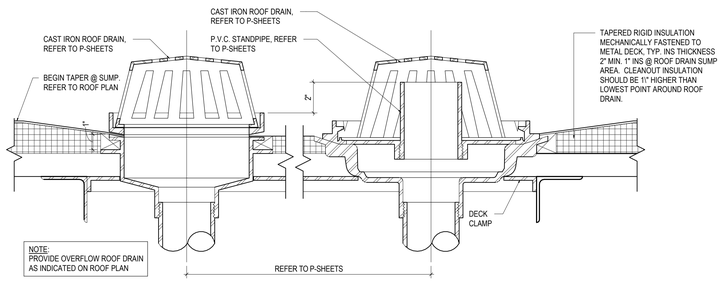


NOTES:
1. THE CURBS, TOP WOOD NAILER, AND SEAL STRIP ARE TO BE SUPPLIED BY THE CURB MANUFACTURER.
2. MECHANICAL UNITS SHOULD NOT BE SET UNTIL THE ROOF MEMBRANE AND FLASHING HAVE BEEN INSTALLED.

3 MECHANICAL CURB DETAIL
12" = 1'-0"

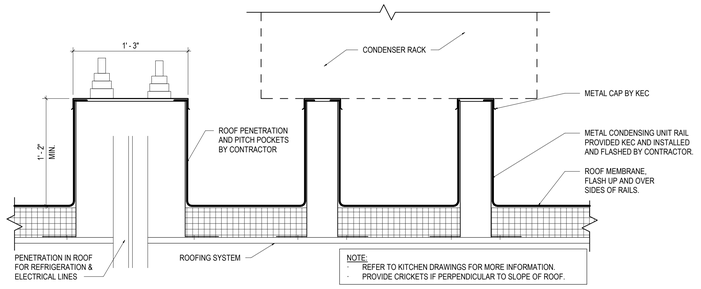


7 LAMB'S TONGUE DETAIL
1 1/2" = 1'-0"



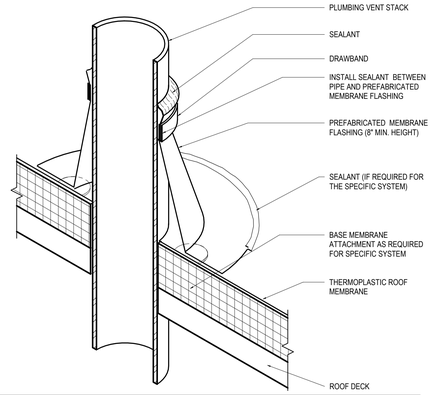
NOTE:
PROVIDE OVERFLOW ROOF DRAIN AS INDICATED ON ROOF PLAN

11 ROOF DRAIN DETAIL
3" = 1'-0"



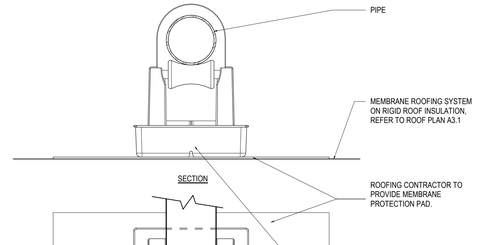
NOTE:
- REFER TO KITCHEN DRAWINGS FOR MORE INFORMATION.
- PROVIDE CRICKETS IF PERPENDICULAR TO SLOPE OF ROOF.

10 TYP. CONDENSER UNIT RACK
1 1/2" = 1'-0"

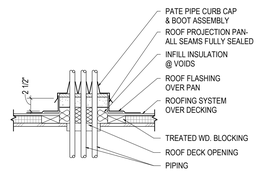


NOTES:
1. VENT STACKS AND OTHER PIPES SHOULD HAVE A MINIMUM OF 12 INCHES OF CLEARANCE ON ALL SIDES FROM WALLS, CURBS, AND OTHER PROJECTIONS TO FACILITATE PROPER FLASHING.
2. FLASHING TO BE 8" HIGH MINIMUM.

5 TYP.VENT PIPE FLASHING DETAIL
12" = 1'-0"



2 ROOF PIPE SUPPORT
3" = 1'-0"



1 TYP. MULTIPLE PIPE PENETRATIONS DETAIL
1" = 1'-0"

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Drawing Title
ROOF DETAILS

Job No.	Drawn
204530	EN
Scale	Date
As indicated	08/19/2021

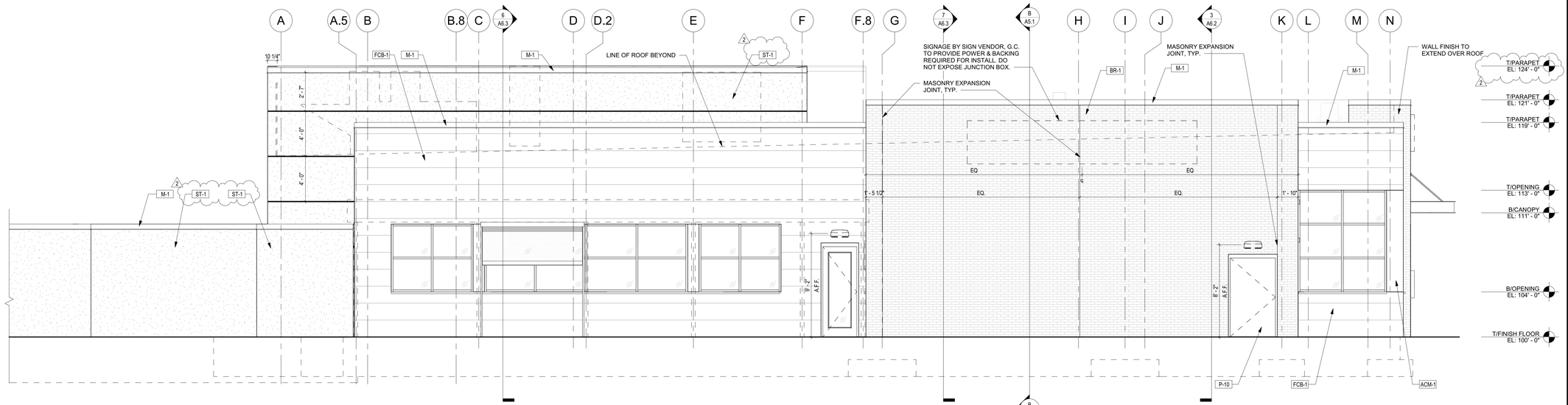
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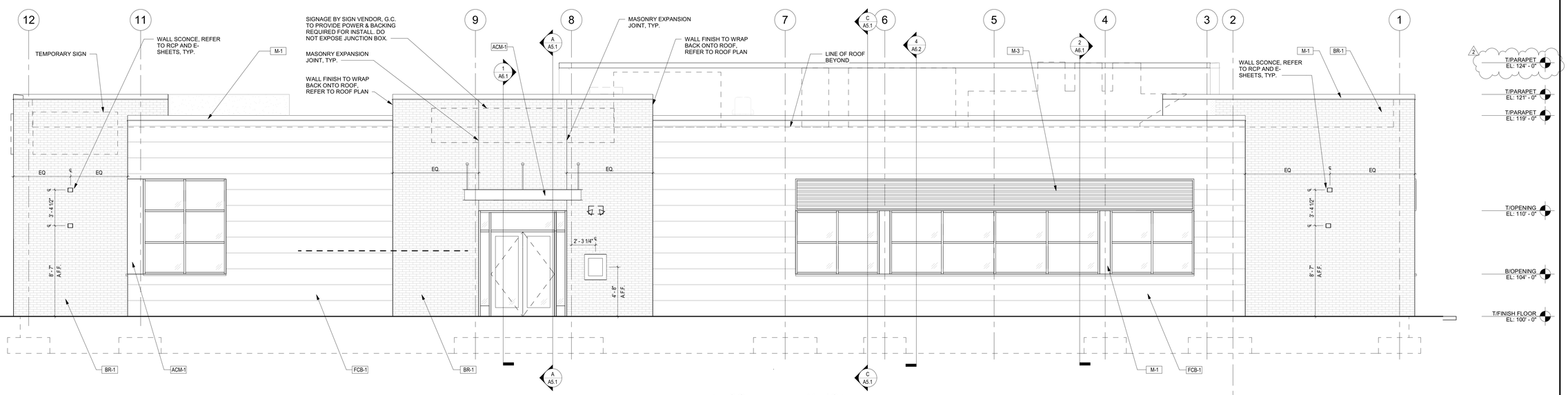
GENERAL NOTES

APPLY TO ELEVATION SHEETS ONLY:

1. REFER TO SHEET A9.1 FOR WINDOW GLAZING TYPES.
2. REFER TO SHEET A9.2 FOR FINISH SCHEDULE.
3. ALL SIGNAGE BY SIGN CONTRACTOR UNDER SEPARATE PERMIT.
4. EIFS SYSTEM SHALL BE INSTALLED BY A CERTIFIED CONTRACTOR AND ALL REQUIRED PAPER WORK SHALL BE COMPLETED AND SUBMITTED TO THE BUILDING DEPARTMENT PRIOR TO FINAL INSPECTIONS.
5. CONTRACTOR TO PROVIDE BUILDNG ADDRESS NUMBERS ON BUILDING, AS LOCATED BY LOCAL INSPECTOR. NUMBERS TO BE MINIMUM 4" HIGH WITH A MINIMUM STROKE WIDTH OF 0.5"



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



1 SOUTH ELEVATION
1/4" = 1'-0"

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Drawing Title
EXTERIOR ELEVATIONS

Job No.	Drawn
204530	JC

Scale	Date
AS NOTED	09/08/2021

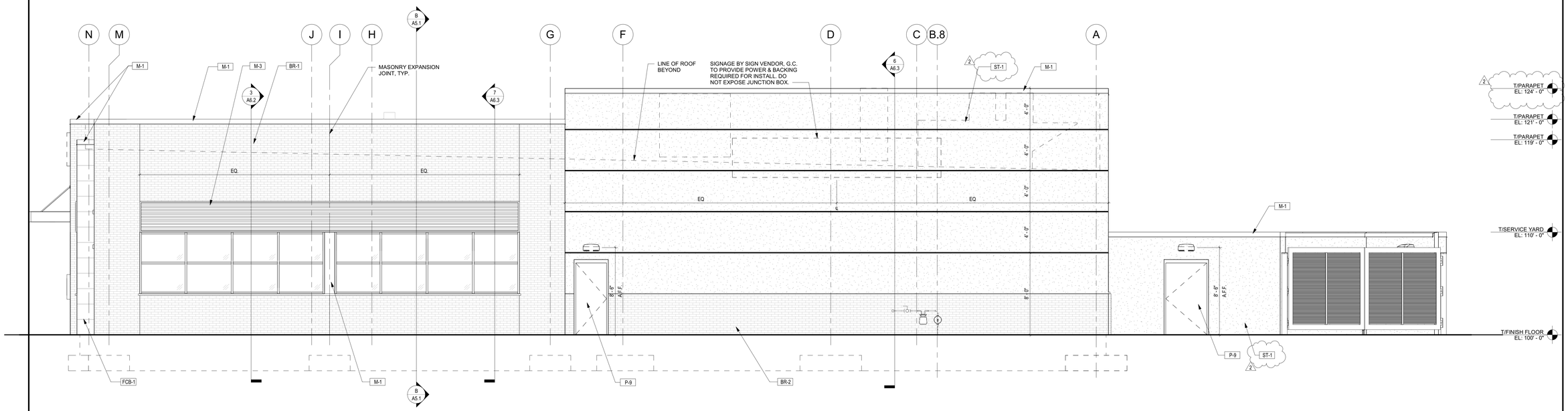
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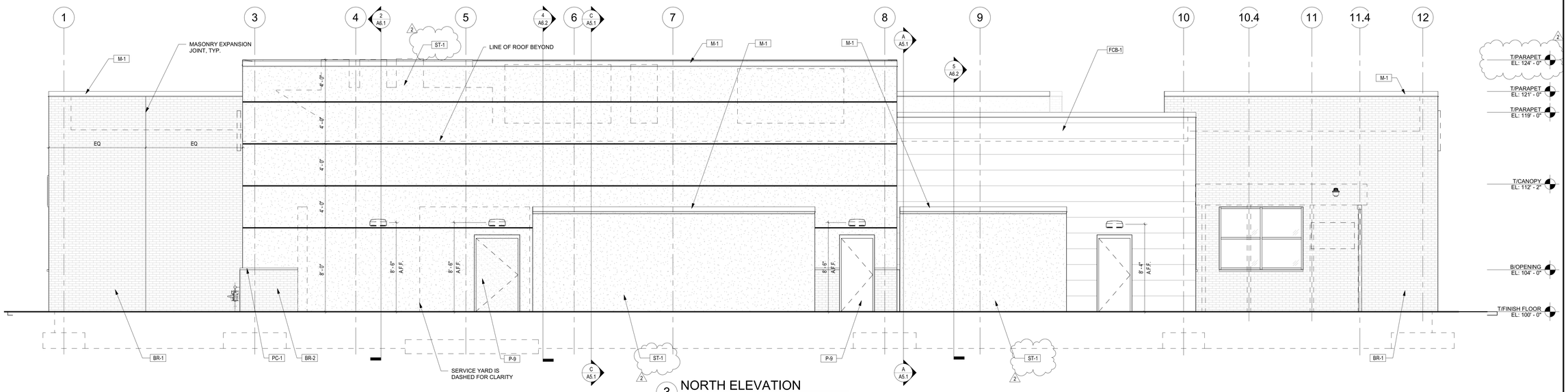
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2. REFER TO SHEET A9.2 FOR FINISH SCHEDULE.
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4 EAST ELEVATION
1/4" = 1'-0"



3 NORTH ELEVATION
1/4" = 1'-0"

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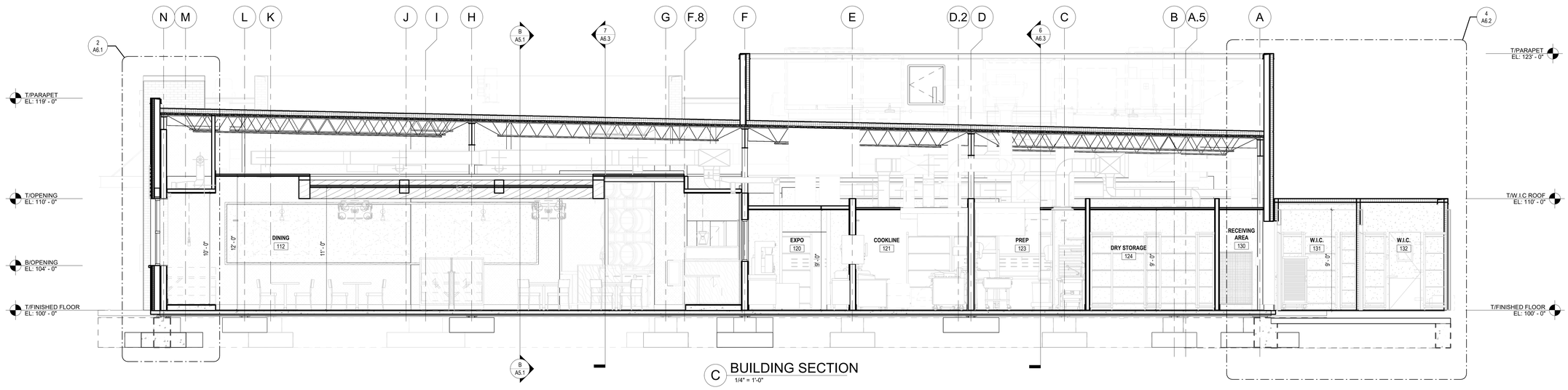
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Job No.	Drawn
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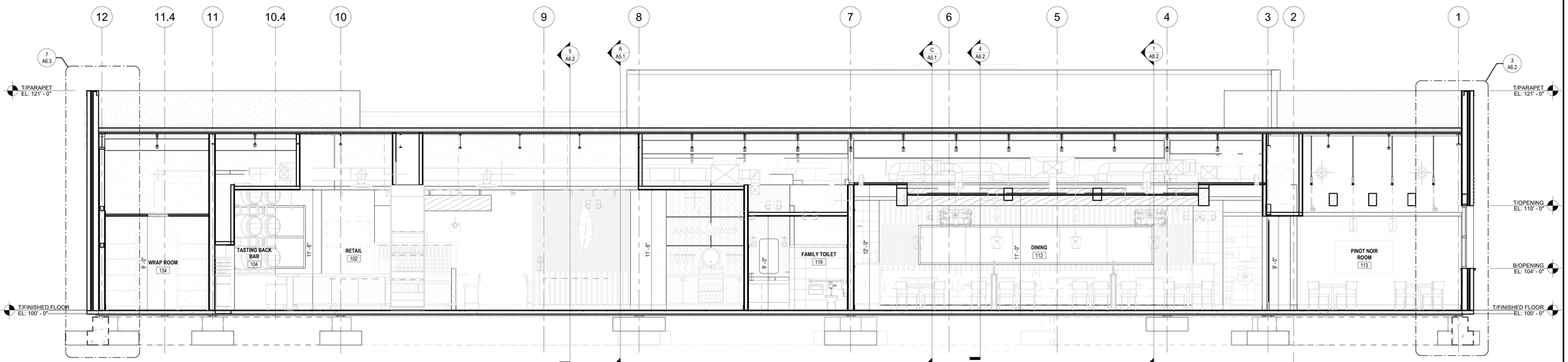
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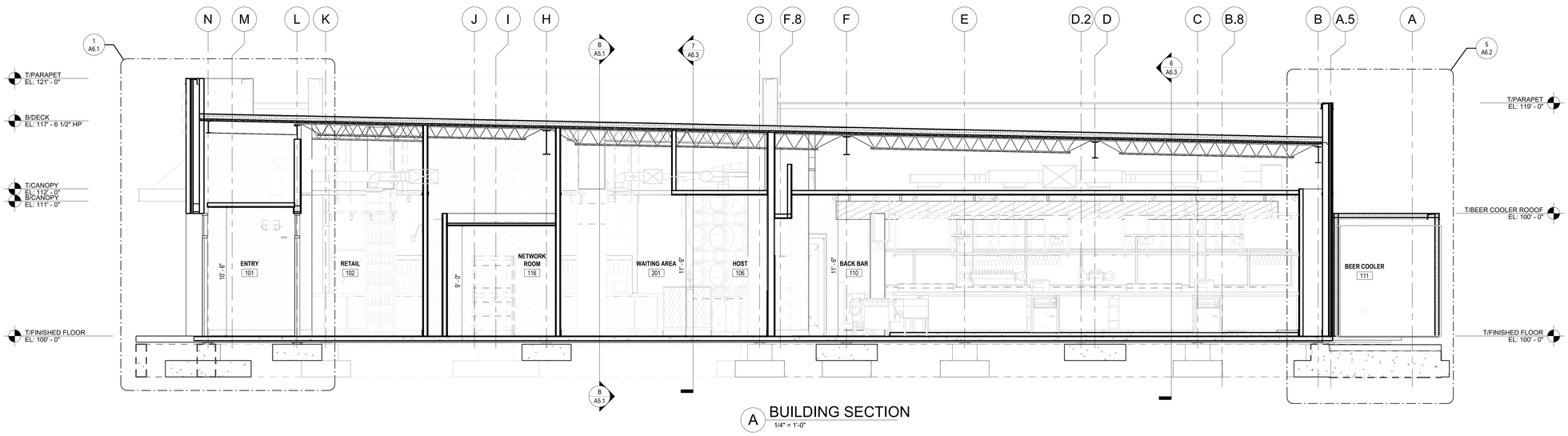
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C BUILDING SECTION
1/4" = 1'-0"



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



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

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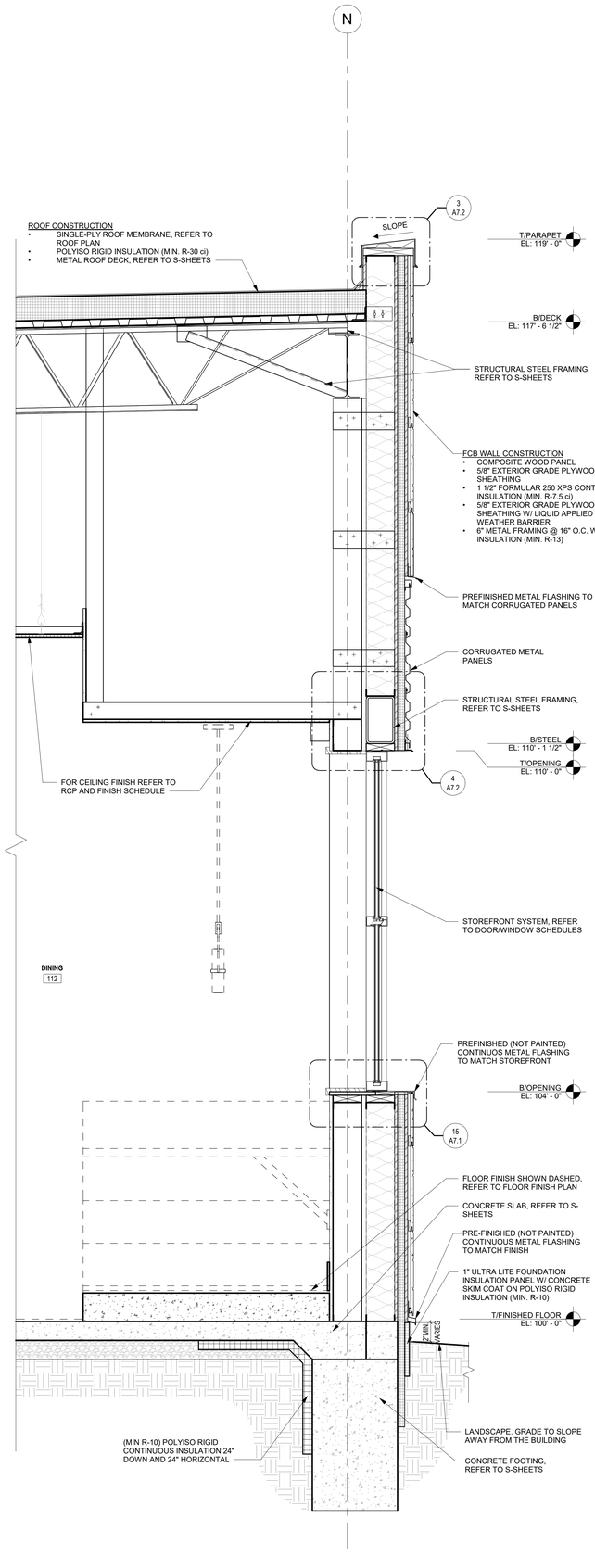
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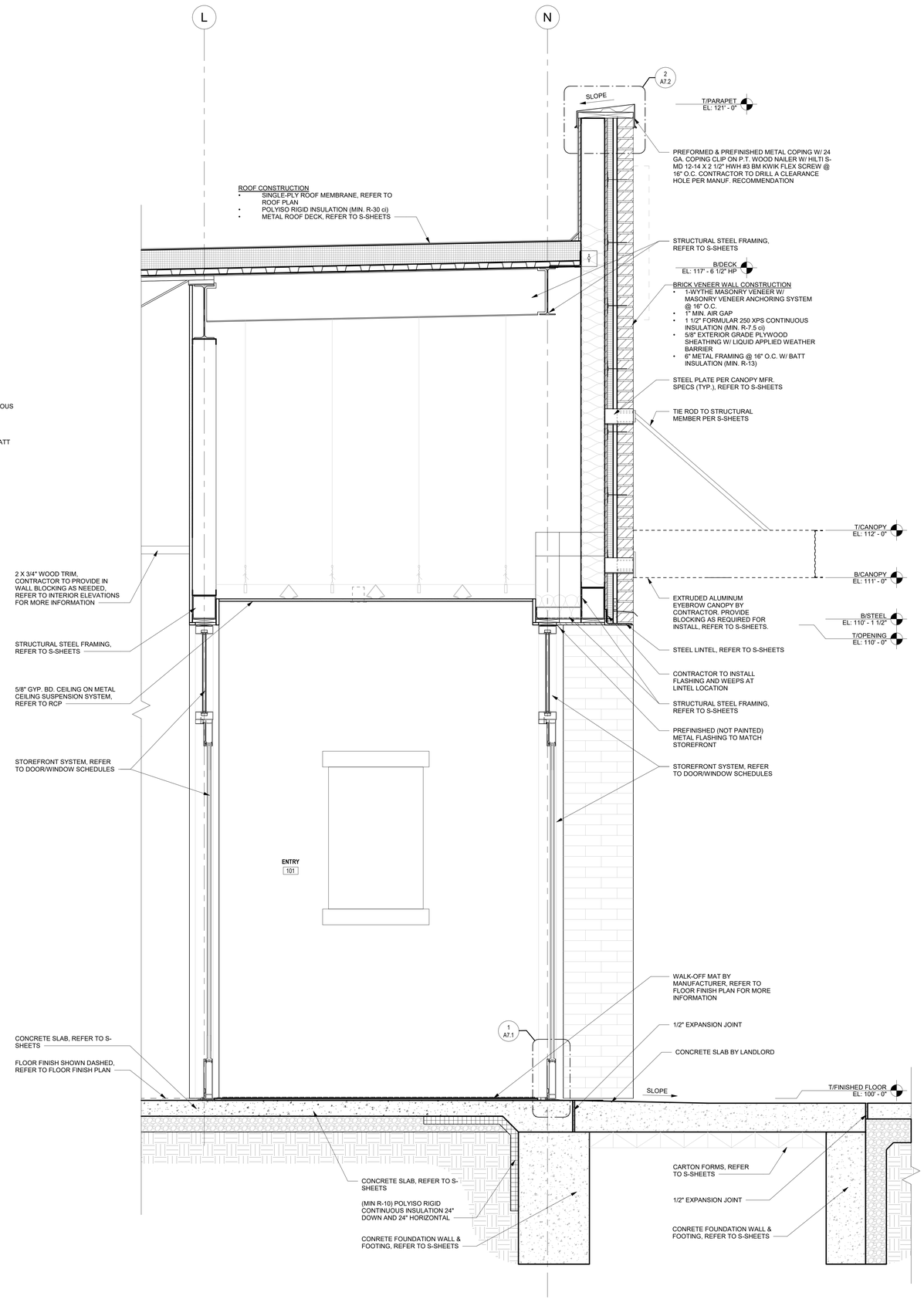
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2 WALL SECTION
1" = 1'-0"



1 WALL SECTION
1" = 1'-0"

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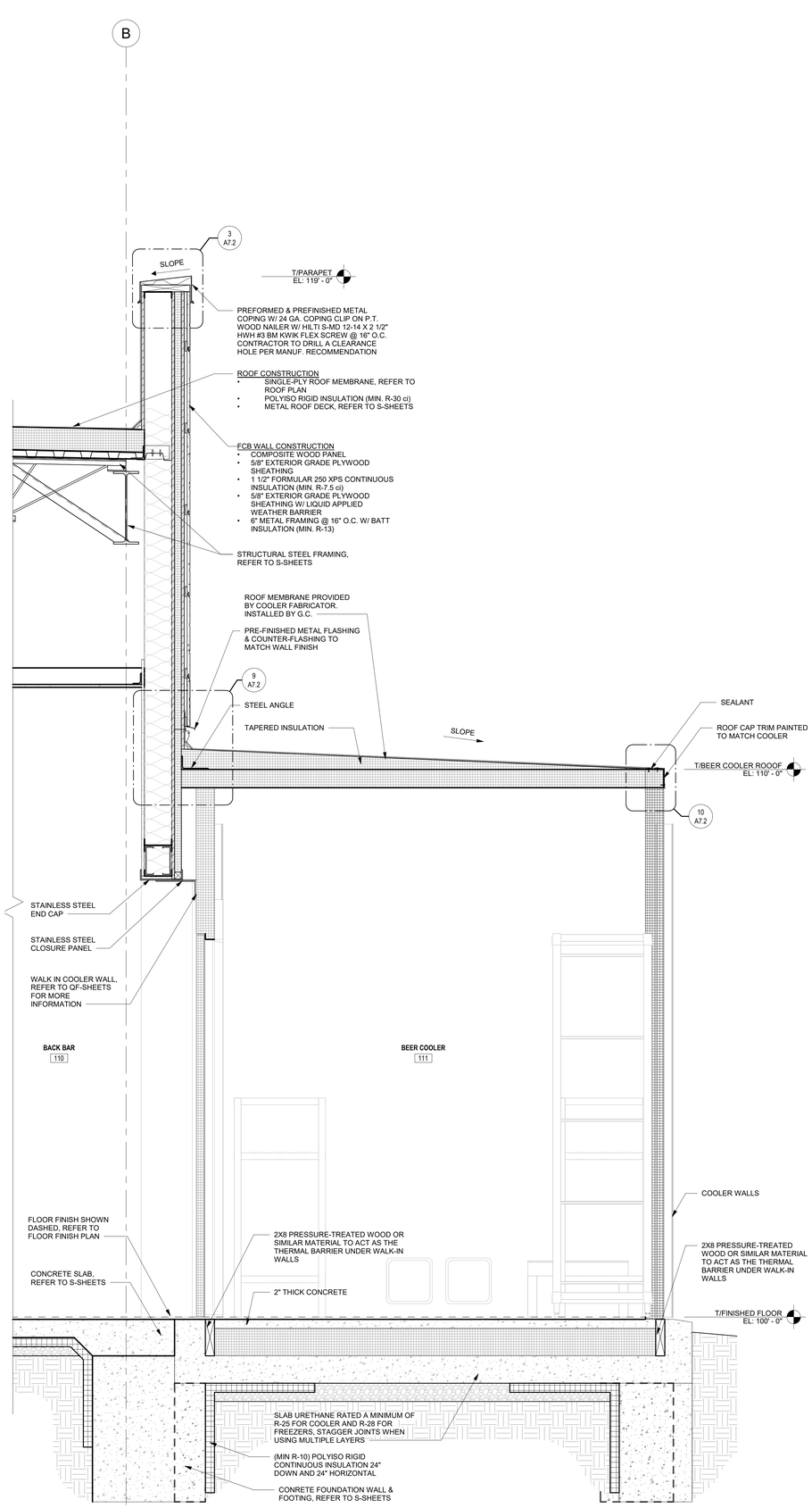
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WALL SECTIONS

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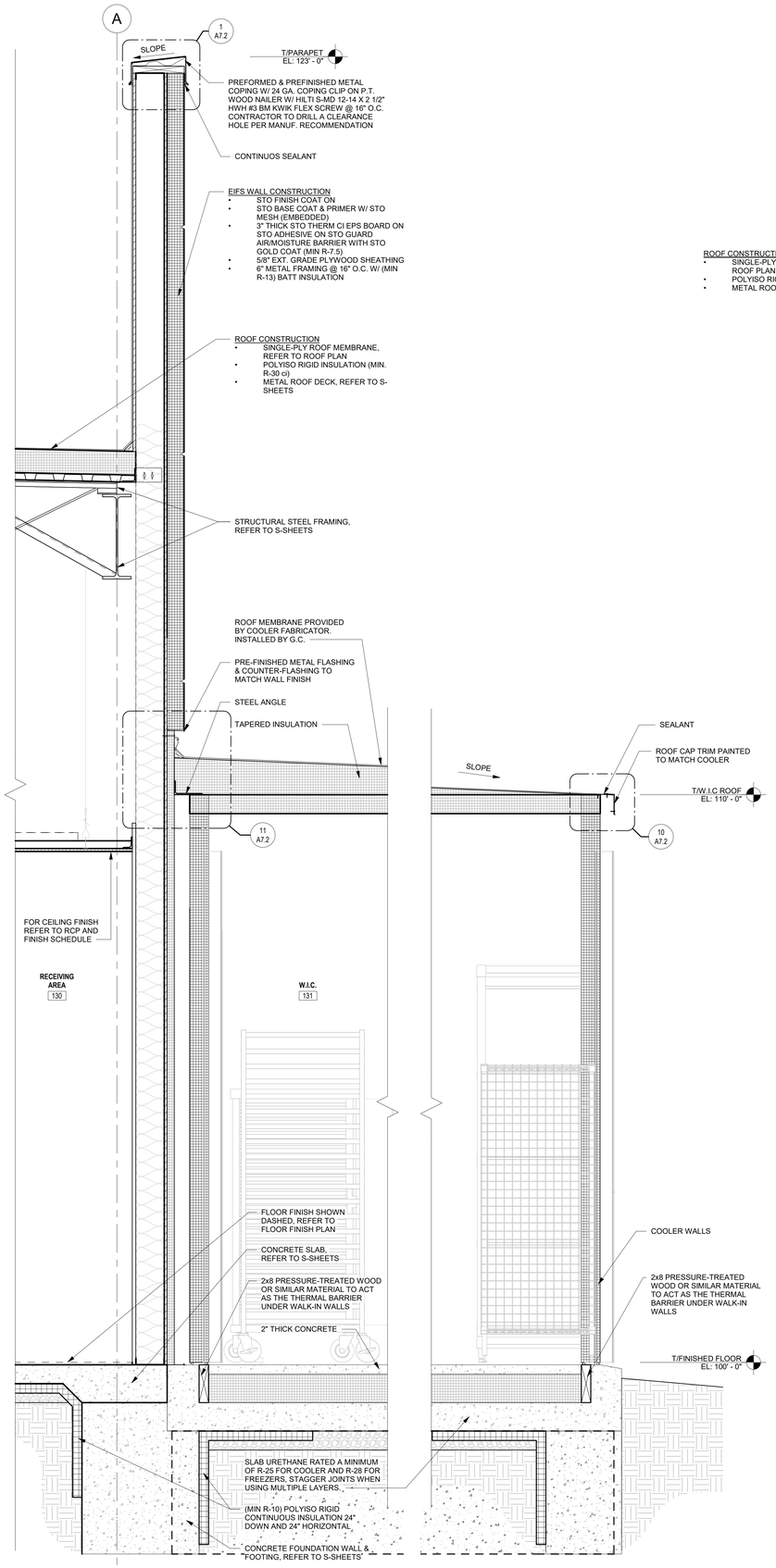
Scale	Date
1" = 1'-0"	08/19/2021

Sheet No.
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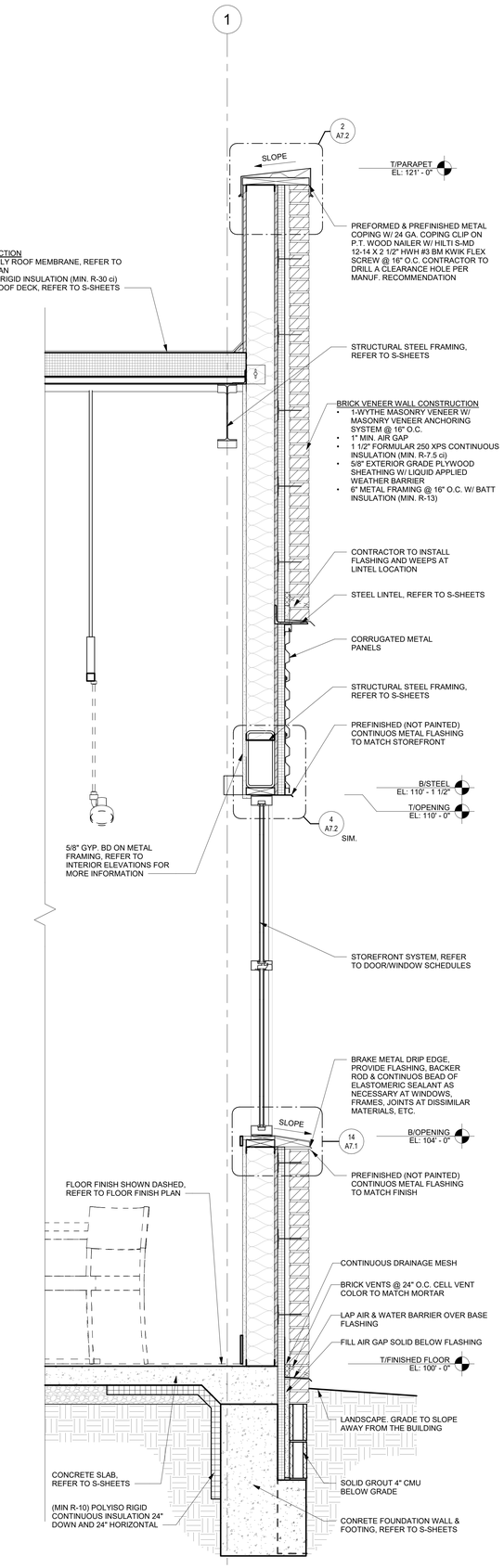
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5 WALL SECTION
1" = 1'-0"



4 WALL SECTION
1" = 1'-0"



3 WALL SECTION
1" = 1'-0"

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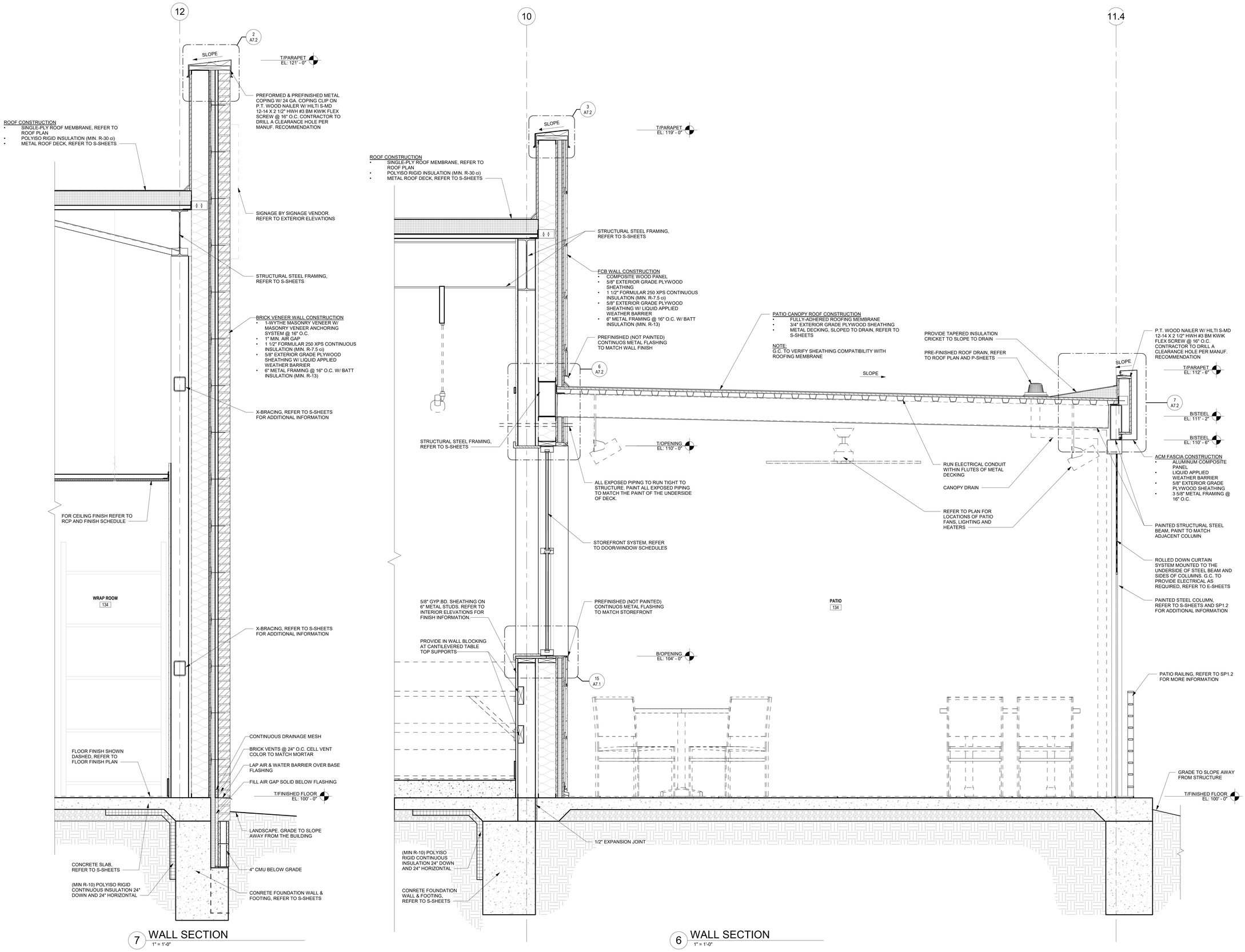
Drawing Title
WALL SECTIONS

Job No.	Drawn
204530	DJ

Scale	Date
1" = 1'-0"	08/19/2021

Sheet No.
A6.2

8/19/2021 2:14:08 PM BIM 360://204530-COOPERS HAWK - LEE SUMMIT/204530_R21_A_COOPERS HAWK-LEE SUMMIT.rvt



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1	08/19/2021	ISSUED FOR PERMIT

REVISIONS

STATE OF MISSOURI
DANIEL PAUL BERNATSK
NUMBER A-2010026259
ARCHITECT
8/19/21
EXP 12/31/22

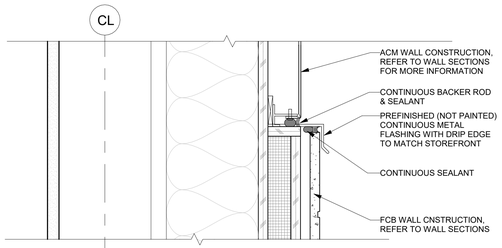
Drawing Title
WALL SECTIONS

Job No.	Drawn
204530	DJ

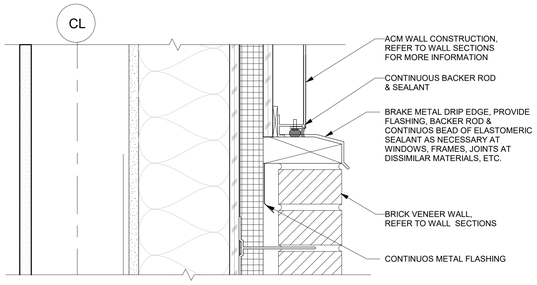
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Sheet No.
A6.3

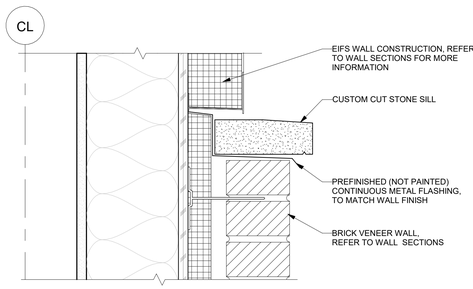
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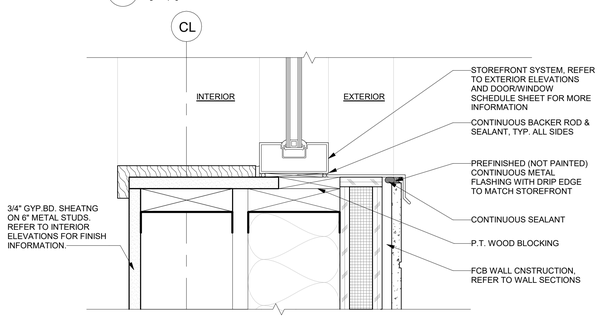
18 FCB/ACM TRANSITION
3" = 1'-0"



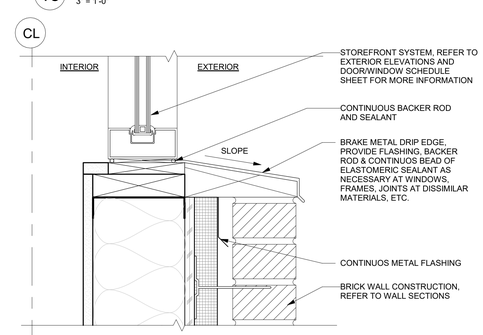
17 BRICK/ACM TRANSITION
3" = 1'-0"



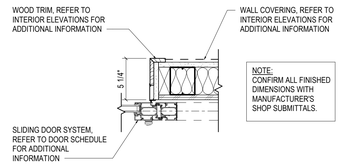
16 BRICK/EIFS TRANSITION
3" = 1'-0"



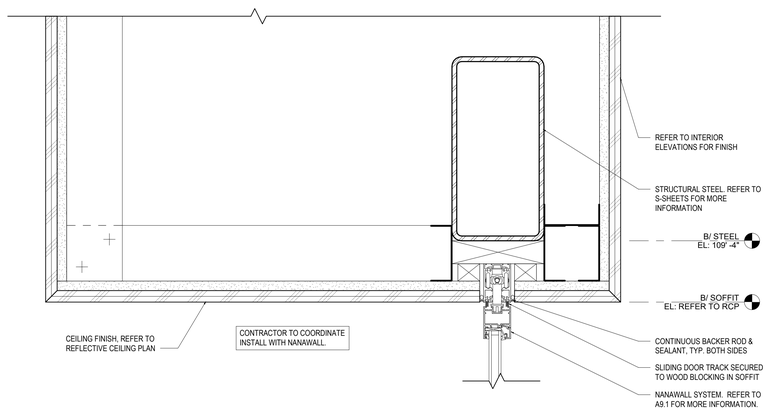
15 WINDOW SILL
3" = 1'-0"



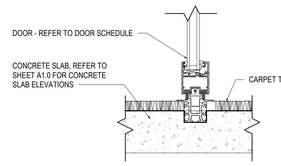
14 WINDOW SILL
3" = 1'-0"



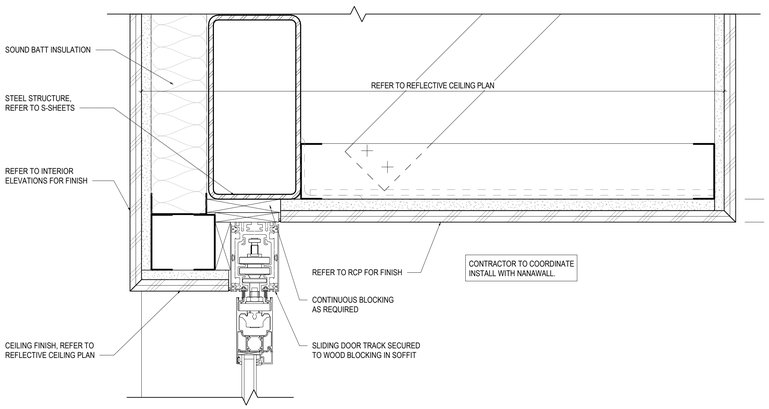
13 SLIDING DOOR JAMB DETAIL
1 1/2" = 1'-0"



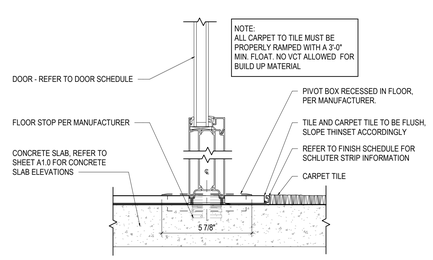
12 OPERABLE PARTITION HEADER DETAIL
3" = 1'-0"



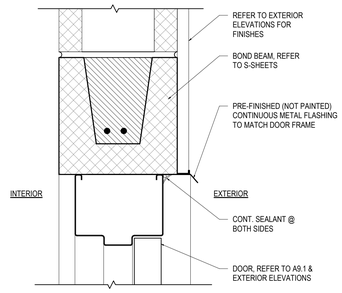
11 OPERABLE PARTITION FLOOR STOP DETAIL
3" = 1'-0"



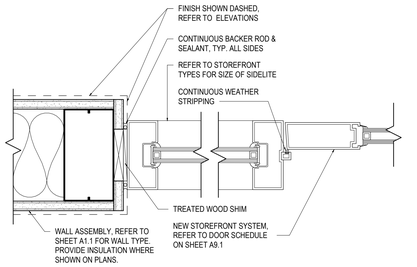
10 SLIDING DOOR HEADER DETAIL
3" = 1'-0"



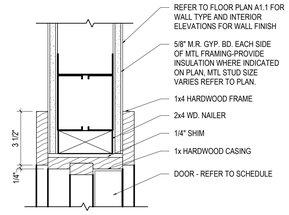
9 SLIDING DOOR FLOOR STOP DETAIL
3" = 1'-0"



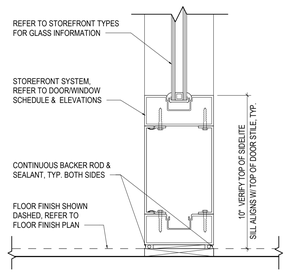
8 HEADER DETAIL
3" = 1'-0" JAMB SIMILAR



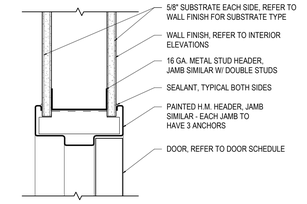
4 JAMB DETAIL
3" = 1'-0"



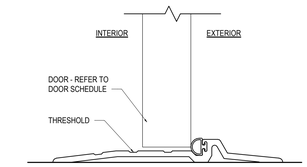
7 HEADER DETAIL
3" = 1'-0" JAMB SIMILAR



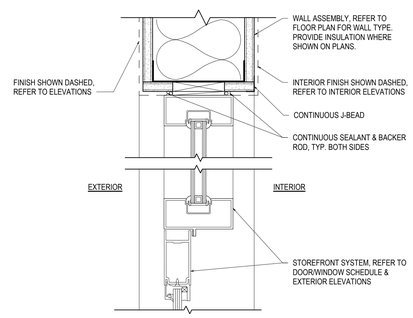
3 STOREFRONT SILL DETAIL
3" = 1'-0"



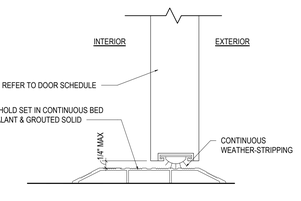
6 HEADER DETAIL
3" = 1'-0" JAMB SIMILAR



2 THRESHOLD DETAIL
6" = 1'-0"



5 HEADER DETAIL
3" = 1'-0"



1 THRESHOLD DETAIL
6" = 1'-0"

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NUMBER A-2010026259
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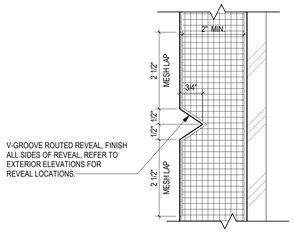
Drawing Title
DOOR & STOREFRONT DETAILS

Job No.	Drawn
204530	DJ

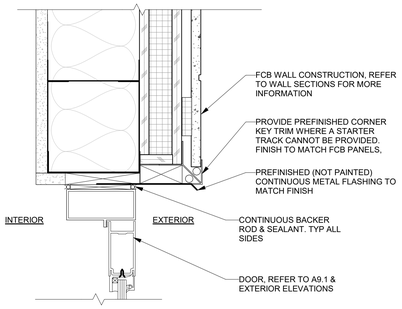
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As indicated	08/19/2021

Sheet No.
A7.1

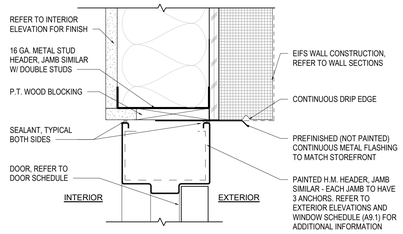
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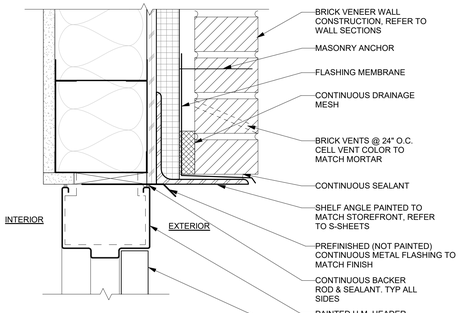
16 ENLARGED EIFS REVEAL DETAIL
6" = 1'-0"



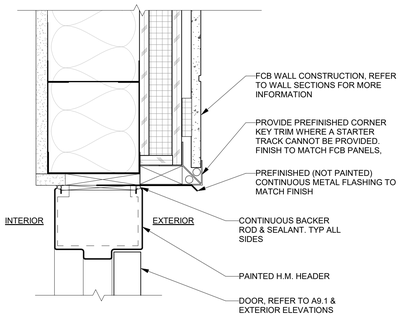
15 HEADER DETAIL
3" = 1'-0" @ FCB



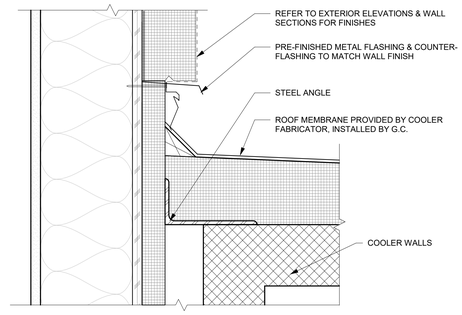
14 HM DOOR HEADER
3" = 1'-0"



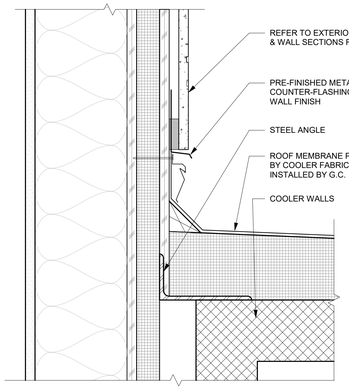
13 HM DOOR HEADER
3" = 1'-0" @ BRICK



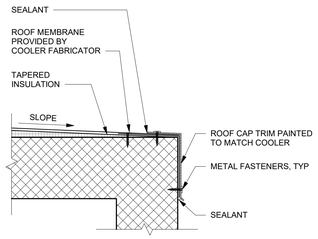
12 HM DOOR HEADER
3" = 1'-0" @ FCB



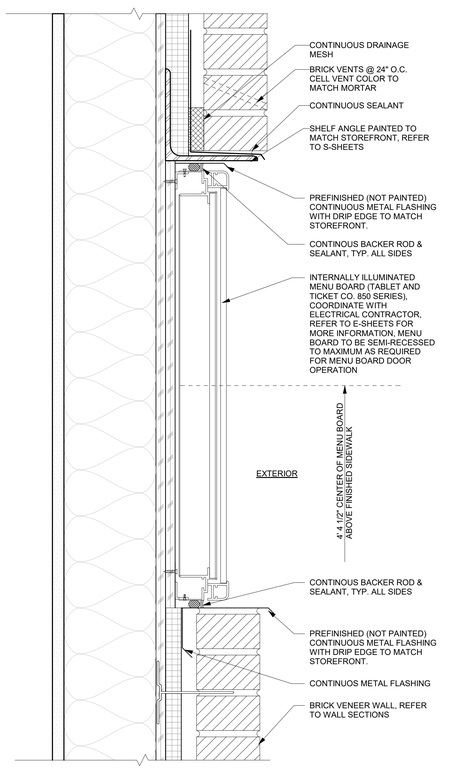
11 W.I.C. COOLER SECTION DETAIL
3" = 1'-0"



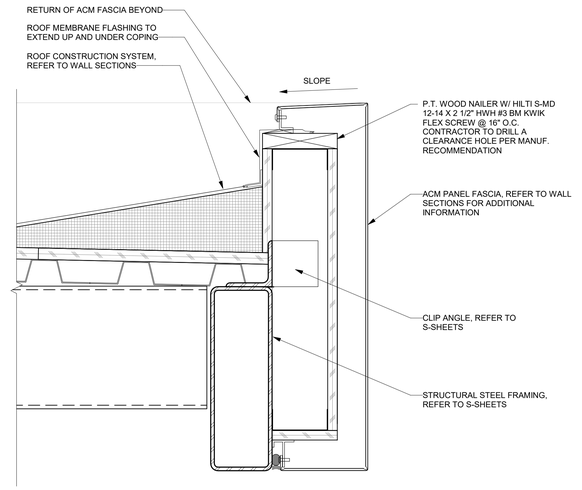
9 BEER COOLER SECTION DETAIL
3" = 1'-0"



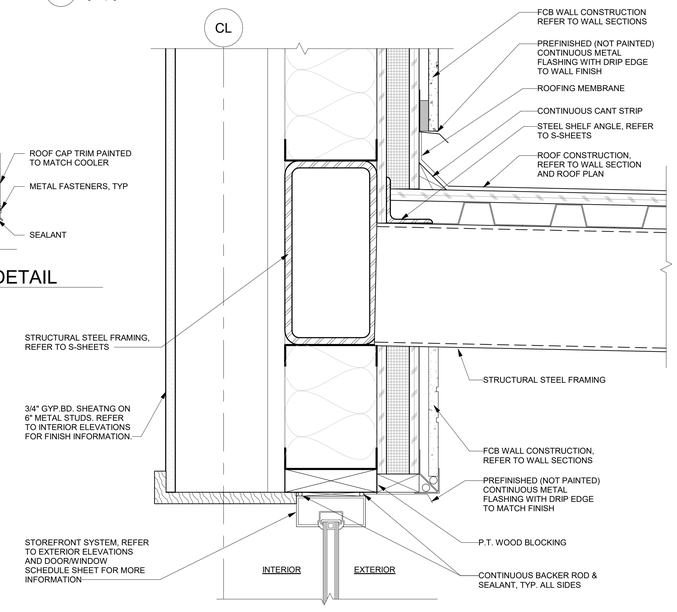
10 COOLER SECTION DETAIL
3" = 1'-0"



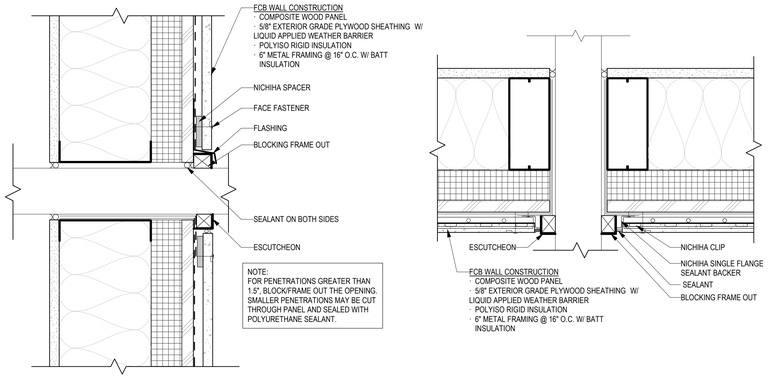
8 EXTERIOR MENU BOARD
3" = 1'-0"



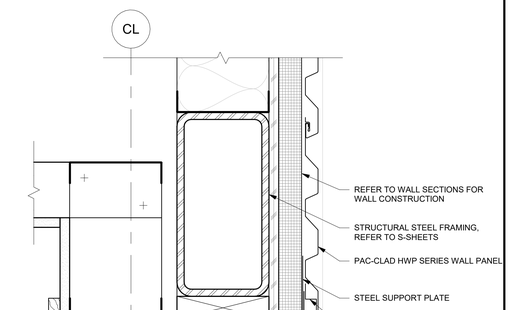
7 ACM CANOPY DETAIL
3" = 1'-0"



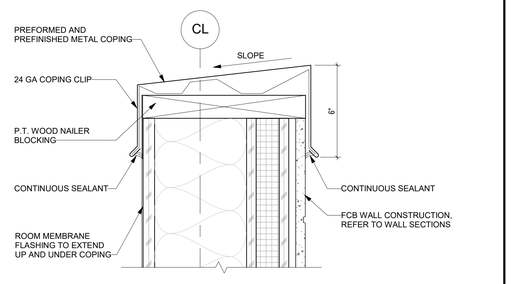
6 PATIO SECTION DETAIL
3" = 1'-0"



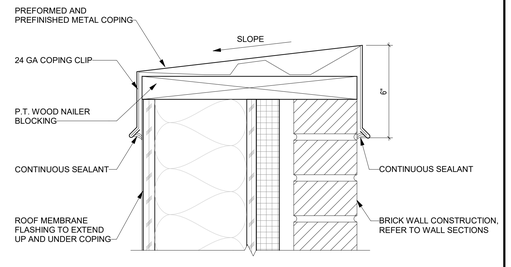
5 PENETRATION SECTION DETAIL
3" = 1'-0"



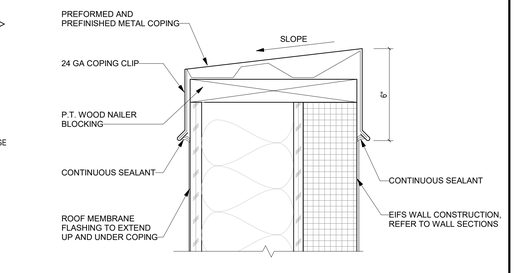
4 CORRUGATED METAL PANEL DETAIL
3" = 1'-0"



3 PARAPET DETAIL
3" = 1'-0"



2 PARAPET DETAIL
3" = 1'-0"



1 PARAPET DETAIL
3" = 1'-0"

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STATE OF MISSOURI
DANIEL PAUL BERNATEK
NUMBER A-2010026239
ARCHITECT
8/19/21
EXP 12/31/22

Drawing Title
SECTION DETAILS

Job No.	Drawn
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Scale	Date
As indicated	08/19/2021

Sheet No.
A7.2

BIM 360://204530-COOPERS HAWK - LEE SUMMIT/204530_R21_A_COOPERS HAWK-LEE SUMMIT.rvt
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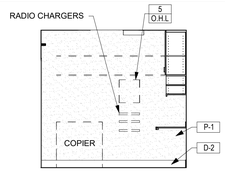
TOILET ACCESSORIES SCHEDULE
(BOBRICK SERIES. NO SUBSTITUTIONS)

NOTES:
G.C. TO SUPPLY AND INSTALL ADA 4-IN-1 WASHROOM SIGNS PER LOCAL CODE

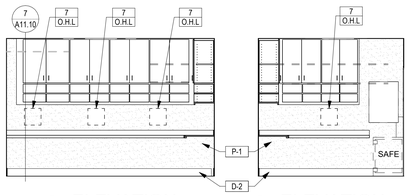
REFER TO P-SHEETS FOR FIXTURE INFORMATION

(ALL TOILET ACCESSORIES TO BE PROVIDED AND INSTALLED BY G.C.) REFER TO ADA1.1 FOR MOUNTING HEIGHTS OF TOILET...

SYMBOL	DESCRIPTION	MANUF.	GROUP/MODEL	FINISH	MOUNTING	REMARKS
1	42" GRAB BAR @ SIDE 36" GRAB BAR @ BACK 18" GRAB BAR @ VERTICAL	BOBRICK	SERIES 5806.99	STAINLESS STEEL	SURFACE	AT TOILET, PROVIDE REINFORCEMENT AT WALL
2	SANITARY NAPKIN/TAMPON DISPOSAL	BOBRICK	CLASSIC SERIES B-254	STAINLESS STEEL	SURFACE	WOMEN'S AND FAMILY TOILET ROOMS ONLY
3	SOAP DISPENSER	BOBRICK	B-8226	STAINLESS STEEL	COUNTER	PUBLIC TOILET ROOMS ONLY
4	TOILET TISSUE DISPENSER	BOBRICK	CONTURA SERIES B-4288	STAINLESS STEEL	SURFACE	(2) EACH PER TOILET STALL PUBLIC TOILET ROOMS ONLY
5	PAPER TOWEL HOLDER	TORK	302030	STAINLESS STEEL	COUNTER	PROVIDED BY OWNER, INSTALLED BY G.C.
6	AUTOMATIC FAUCET	--	--	--	SURFACE	REFER TO P-SHEETS
7	TRAP WRAP		LAV GUARD 2	WHITE	SURFACE	
8	ROBE HOOK	IVES	572MB	613	SURFACE	NEXT TO BABY CHANGING STATION, TYPICAL HEIGHT@ 42" AFF.
9	TOILET PARTITION	BOBRICK	CLASSIC SERIES 1541	SLATE GRAY D91	--	FLOOR ANCHORED PARTITIONS NOTE: CONTRACTOR TO PROVIDE ADEQUATE IN-WALL BLOCKING FOR SUPPORT
10	BABY CHANGING STATION	BOBRICK/ KOALA BEAR CARE	KB-200-00	CREAM	SURFACE	--
13	TOILET SEAT COVER DISPENSER	BOBRICK	CONTURA SERIES B-4221	STAINLESS STEEL	SURFACE	--
14	URINAL SCREEN PARTITION	BOBRICK	CLASSIC SERIES 1540	SLATE GRAY D91	SURFACE	42" URINAL SCREEN
15	PURSE SHELF	--	--	--	SURFACE	WOMEN'S AND FAMILY TOILET ROOM ONLY
16	TOILET TISSUE DISPENSER	BOBRICK	CLASSIC SERIES B-265	CHROME PLATED STEEL	SURFACE	EMPLOYEE TOILET ROOMS ONLY
17	SOAP DISPENSER	ECOLAB	--	--	SURFACE	EMPLOYEE TOILET ROOMS ONLY BY OWNER
18	FULL HEIGHT MIRROR	--	--	--	SURFACE	--
19	GARBAGE CAN	--	--	--	--	PROVIDED AND INSTALLED BY OWNER
XX	AIR FRESHENER	ECOLAB	--	--	--	OWNER HANGING LIST ITEM 34, REFER TO SHEET A9.2 FOR ADDITIONAL INFORMATION
21	PULL-STYLE TOWEL DISPENSER	--	--	--	--	BY OWNER. EMPLOYEE TOILET ROOMS ONLY

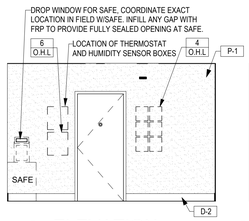


33 ELEVATION 1/4" = 1'-0" @OFFICE

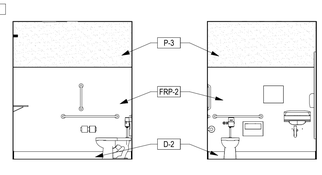


32 ELEVATION 1/4" = 1'-0" @OFFICE

31 ELEVATION 1/4" = 1'-0" @OFFICE

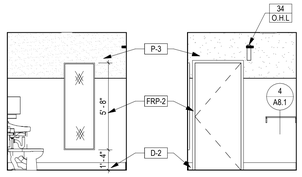


30 ELEVATION 1/4" = 1'-0" @OFFICE

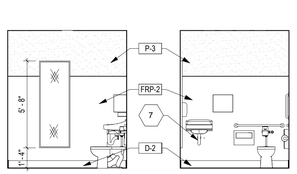


29 ELEVATION 1/4" = 1'-0" @EMP MENS

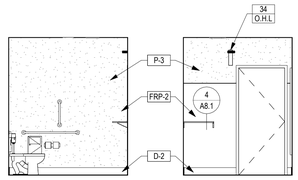
28 ELEVATION 1/4" = 1'-0" @EMP MENS



27 ELEVATION 1/4" = 1'-0" @EMP MENS



25 ELEVATION 1/4" = 1'-0" @EMP WOMENS

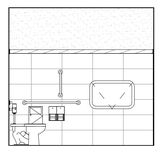


26 ELEVATION 1/4" = 1'-0" @EMP MENS

24 ELEVATION 1/4" = 1'-0" @EMP WOMENS

23 ELEVATION 1/4" = 1'-0" @EMP WOMENS

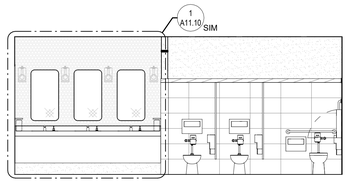
22 ELEVATION 1/4" = 1'-0" @EMP WOMENS



21 ELEVATION 1/4" = 1'-0" @WOMENS



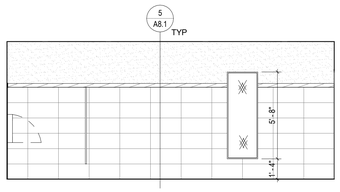
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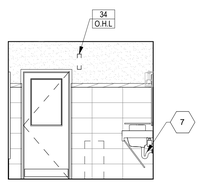
19 ELEVATION 1/4" = 1'-0" @WOMENS



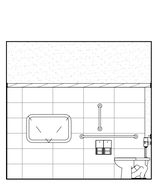
18 ELEVATION 1/4" = 1'-0"



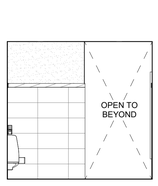
17 ELEVATION 1/4" = 1'-0" @WOMENS



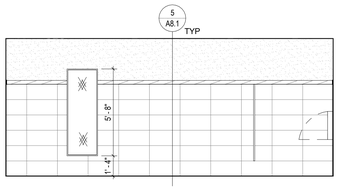
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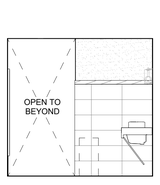
15 ELEVATION 1/4" = 1'-0" @MENS



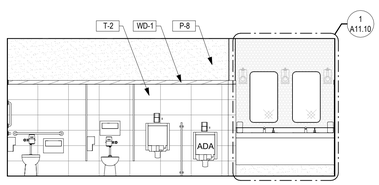
14 ELEVATION 1/4" = 1'-0" @MENS



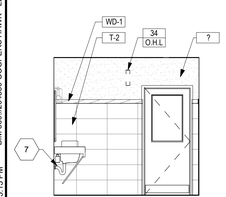
13 ELEVATION 1/4" = 1'-0" @MENS



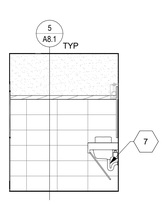
12 ELEVATION 1/4" = 1'-0" @MENS



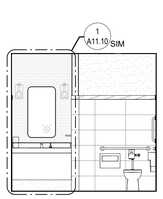
11 ELEVATION 1/4" = 1'-0" @MENS



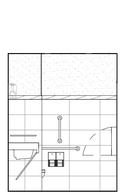
10 ELEVATION 1/4" = 1'-0" @MENS



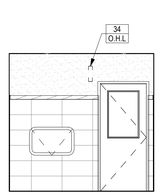
9 ELEVATION 1/4" = 1'-0" @FAMILY



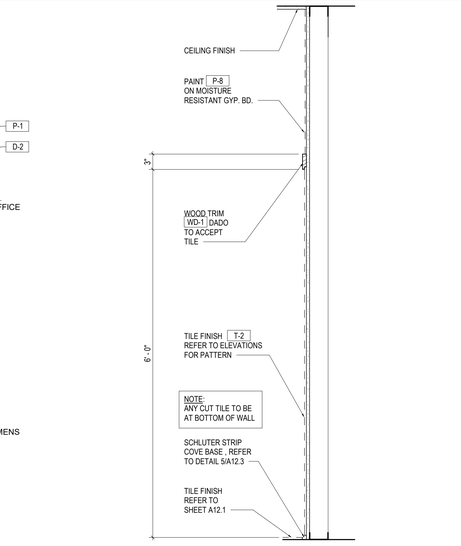
8 ELEVATION 1/4" = 1'-0" @FAMILY



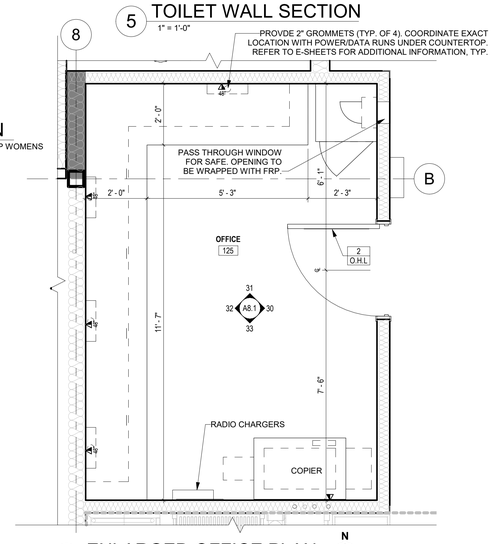
7 ELEVATION 1/4" = 1'-0" @FAMILY



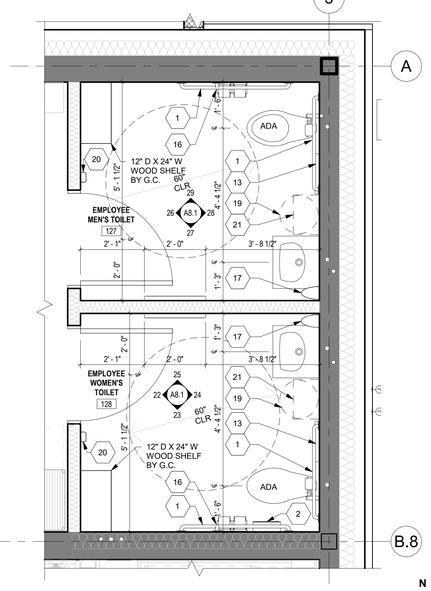
6 ELEVATION 1/4" = 1'-0" @FAMILY



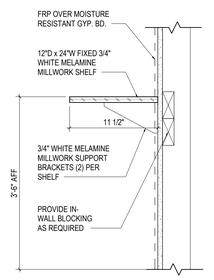
5 TOILET WALL SECTION 1" = 1'-0"



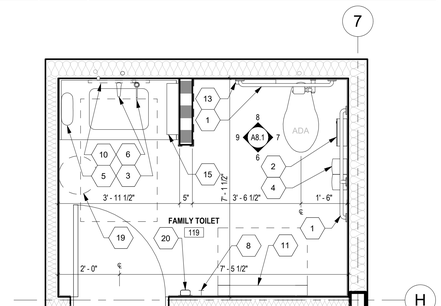
3 ENLARGED OFFICE PLAN 1/2" = 1'-0"

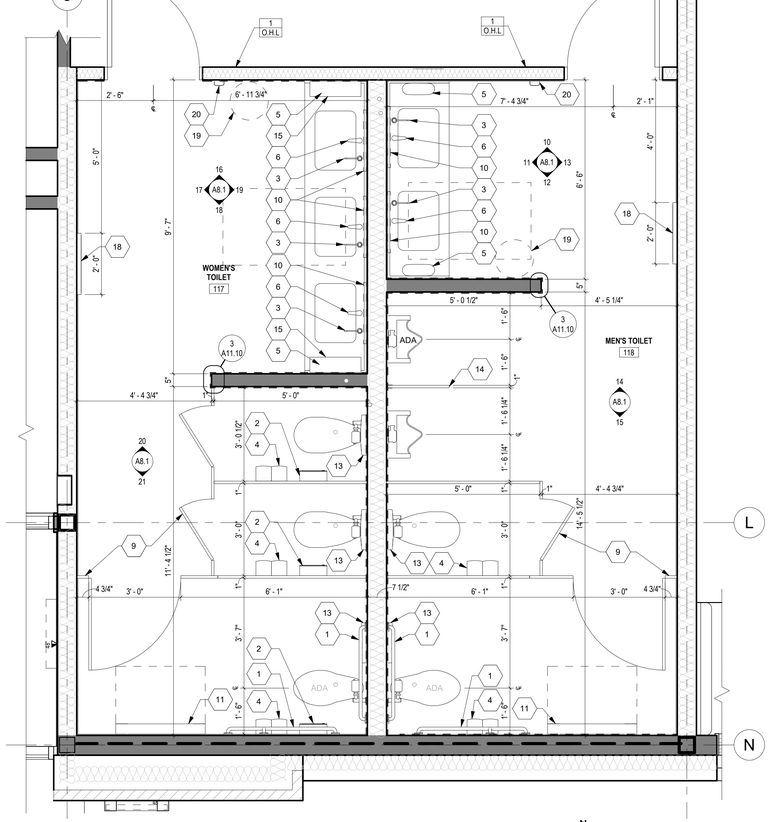


2 ENLARGED EMPLOYEE TOILET ROOM PLAN 1/2" = 1'-0"



4 WOOD SHELF DETAIL 1 1/2" = 1'-0" TYP. @ PUBLIC TOILETS





1 ENLARGED TOILET ROOM PLANS 1/2" = 1'-0"

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NO.	DATE	REMARKS
1	08/19/2021	ISSUED FOR PERMIT

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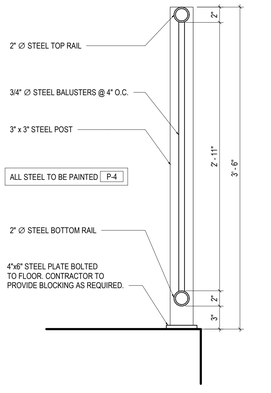
STATE OF MISSOURI
DANIEL PAUL BERNATEK
NUMBER A-2010026239
ARCHITECT
8/19/21
EXP 12/31/22

Drawing Title
ENLARGED TOILET & OFFICE PLANS

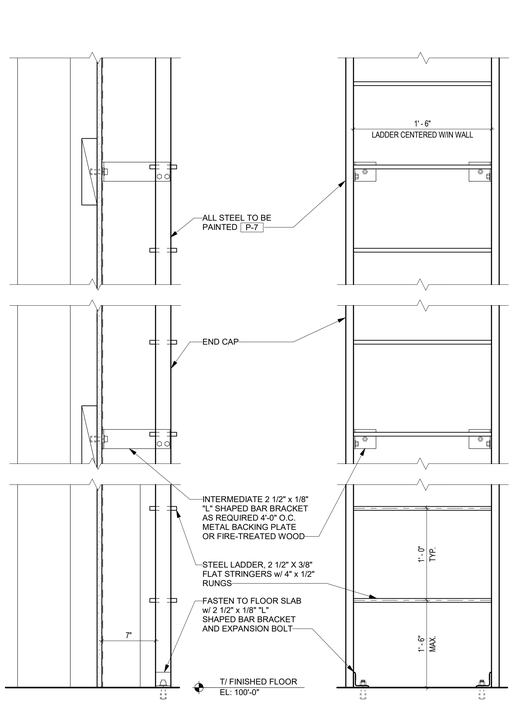
Job No.	Drawn
204530	EN
Scale	Date
AS NOTED	08/19/2021

Sheet No.
A8.1

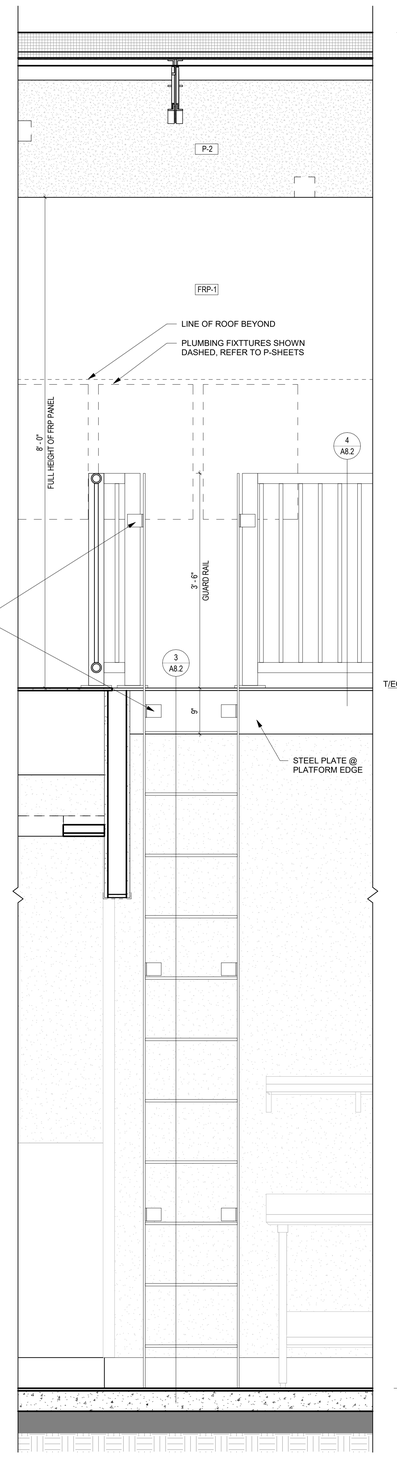
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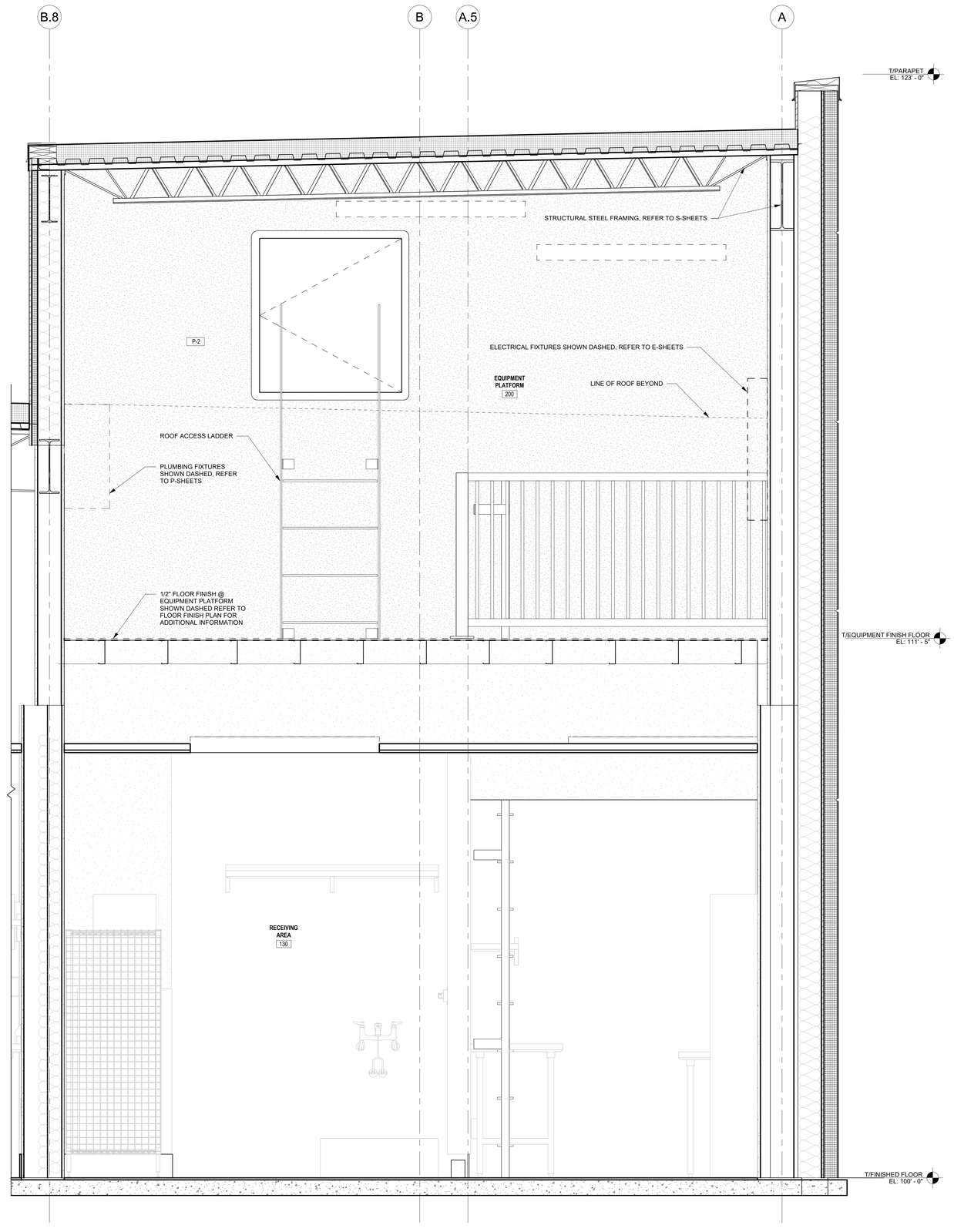
4 GUARD RAIL DETAIL
1 1/2" = 1'-0"



3 LADDER DETAIL
1 1/2" = 1'-0"



2 EQUIPMENT PLATFORM LADDER ELEVATION
1" = 1'-0"



1 EQUIPMENT PLATFORM SECTION
1" = 1'-0"

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1	08/19/2021	ISSUED FOR PERMIT

REVISIONS

STATE OF MISSOURI
DANIEL PAUL BERNATEK
NUMBER A-2010026259
ARCHITECT
8/19/21
EXP 12/31/22

Drawing Title
EQUIPMENT PLATFORM SECTION

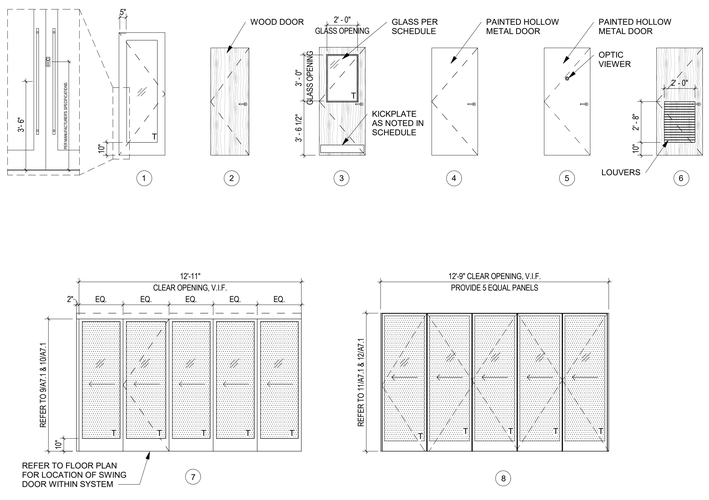
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Scale	Date
AS NOTED	08/19/2021

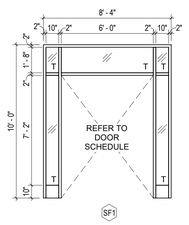
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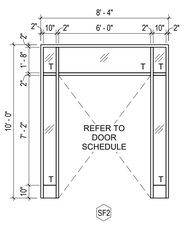
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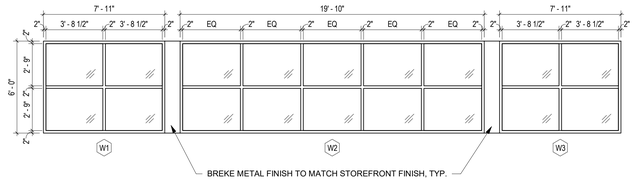
DOOR TYPES

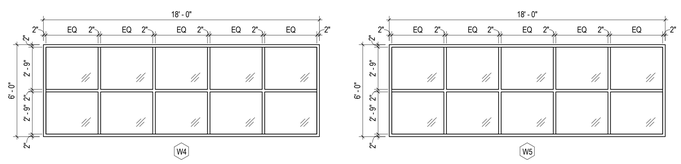


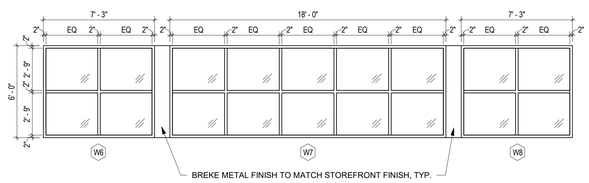
STOREFRONT/WINDOW TYPES

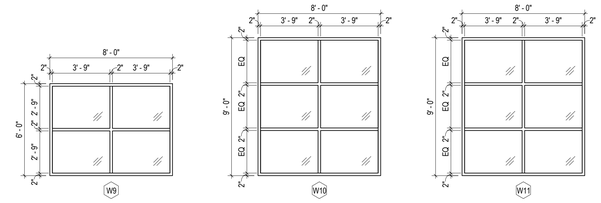












DOOR SCHEDULE

DOOR NUMBER	SIZE	LOCATION	TYPE	THICKNESS	CONSTRUCTION	FINISH	FRAME	THRESHOLD	GLASS	HEAD DETAIL	JAMB DETAIL	U.L. LABEL - HOURS	HARDWARE	REMARKS
101a	(2) 3'-0" X 8'-0"	ENTRY VESTIBULE - EXTERIOR	1	1 3/4"	ANOD	BLK	ANOD	1/A7.1	G2	1/A6.1	4/A7.1	--	AA	3,4
101b	(2) 3'-0" X 8'-0"	ENTRY VESTIBULE - INTERIOR	1	1 3/4"	ANOD	BLK	ANOD	--	G1	5/A7.1	4/A7.1	--	BB	3,7
109a	3'-0" X 8'-0"	BAR DINING	1	1 3/4"	ANOD	BLK	ANOD	1/A7.1	G2	5/A7.2 SIM	4/A7.2 SIM	--	RR	2,3,4
109b	3'-0" X 8'-0"	BAR DINING	4	1 3/4"	HM	P-2	HM	1/A7.1	--	6/A7.1	6/A7.1 SIM	--	RR	3,4
112	3'-0" X 8'-0"	DINING	4	1 3/4"	HM	P-9	HM	1/A7.1	--	6/A7.1	6/A7.1 SIM	--	RR	3,4
113a	SEE DOOR TYPE	PINOT NOIR ROOM	7	2 1/4"	ANOD	BLK	BLK	9/A7.1	G5	10/A7.1	13/A7.1	--	PER MFG	1
113b	SEE DOOR TYPE	PINOT NOIR/CHARDONNAY ROOMS	8	2 1/4"	ANOD	BLK	BLK	11/A7.1	--	12/A7.1	--	--	PER MFG	6
114	SEE DOOR TYPE	CHARDONNAY ROOM	7	2 1/4"	ANOD	BLK	BLK	9/A7.1	G5	10/A7.1	13/A7.1	--	PER MFG	1
115	3'-0" X 7'-0"	STORAGE	2	1 3/4"	SC	STN-1	WD	--	--	7/A7.1	7/A7.1 SIM	--	HH	1
116	3'-0" X 7'-0"	NETWORK ROOM	6	1 3/4"	SC	STN-1	WD	--	--	7/A7.1	7/A7.1 SIM	--	EE	7
117	3'-0" X 7'-0"	WOMEN'S TOILET	3	1 3/4"	SC	STN-1	WD	--	G4	7/A7.1	7/A7.1 SIM	--	CC	7
118	3'-0" X 7'-0"	MEN'S TOILET	3	1 3/4"	SC	STN-1	WD	--	G4	7/A7.1	7/A7.1 SIM	--	CC	7
119	3'-0" X 7'-0"	FAMILY TOILET	3	1 3/4"	SC	STN-1	WD	--	G4	7/A7.1	7/A7.1 SIM	--	DD	7
125	3'-0" X 7'-0"	OFFICE	5	1 3/4"	HM	P-2	HM	--	--	6/A7.1	6/A7.1 SIM	--	FF	7
126	3'-0" X 7'-0"	SPRINKLER ROOM	4	1 3/4"	HM	P-9	HM	2/A7.1	--	6/A7.1	6/A7.1 SIM	--	LL	4
127	3'-0" X 7'-0"	EMPLOYEE MEN'S TOILET	4	1 3/4"	HM	P-2	HM	--	--	6/A7.1	6/A7.1 SIM	--	GG	7
128	3'-0" X 7'-0"	EMPLOYEE WOMEN'S TOILET	4	1 3/4"	HM	P-2	HM	--	--	6/A7.1	6/A7.1 SIM	--	GG	7
129	3'-6" X 8'-0"	SERVICE YARD	4	1 3/4"	HM	P-9	HM	--	--	6/A7.1	6/A7.1 SIM	--	NN	
130	3'-6" X 7'-0"	RECEIVING AREA	4	1 3/4"	HM	P-9	HM	1/A7.1	--	6/A7.1	6/A7.1 SIM	--	JJ	3,4
135a	3'-0" X 7'-0"	WINE ROOM (INTERIOR)	4	1 3/4"	HM	P-11	HM	--	--	6/A7.1	6/A7.1 SIM	--	PP	7
135b	4'-0" X 7'-0"	WRAP ROOM (EXTERIOR)	4	1 3/4"	HM	P-10	HM	1/A7.1	--	6/A7.1	6/A7.1 SIM	--	KK	3,4
200	3'-0" X 3'-0"	ROOF ACCESS - EQUIPMENT PLATFORM	4	1 3/4"	HM	P-2	HM	11/A3.2	--	11/A3.2	11/A3.2 SIM	--	MM	
201	3'-0" X 5'-0"	ROOF TOP	4	1 3/4"	HM	P-2	HM	--	--	6/A7.1	6/A7.1 SIM	--	MM	8

DOOR SCHEDULE REMARKS

1. NEW DOOR AND SLIDING GLASS PARTITION : NANAWALL, HSW60, WITH INCORPORATED SWING DOOR AND HARDWARE BY MANUFACTURER INCLUDING FLOOR SOCKET PLUGS, MAGNETIC TOOL AND CENTER DOOR FILLER. CONTACT NICK WNENK: 708-603-1013

TIMELINE:

MIN. 15 WEEKS BEFORE REQUIRED INSTALL DATE	G.C. GETS QUOTE
VARIES	SIGNED AGREEMENT IS REQUIRED ALONG WITH 20% DEPOSIT FOR PRODUCT DRAWINGS
2 WEEKS (SINGLE TRACK SLIDING SYSTEMS)	PRODUCTION OF CUSTOM DRAWINGS STARTS
VARIES	AN ORDER IS PLACED ONCE THE FULL 50% DEPOSIT AND SIGN OFFS ON THE FINAL NANAWALL ORDER AND PRODUCT DRAWINGS ARE RECEIVED. LEAD TIME STARTS WHEN THE ORDER IS PLACED.
10-12 WEEKS	LEAD TIME
AIR FREIGHT WILL DECREASE THE LEAD TIMES FOR BOTH ORDERS FROM 10-12 WEEKS DOWN TO 8-10 WEEKS.	
NOTE: ENSURE @ STACKING AREA, LENGTH OF TRACK IS HELD OFF WALL 3", V.I.F. DUE TO HINGES AND WALL CONFLICTS.	

2. PUSH BUTTON AUTOMATIC DOOR OPENER, MFR: POWER ACCESS, ACTUATOR # 4495SQ (INTERIOR USE) & #4495SQWR (EXTERIOR USE), OPERATOR #4300 AND RADIO RECEIVER #4470 CONTACT: 800-344-0088
3. EXTERIOR DOORS: MAX. 8 POUNDS OF OPERATING PRESSURE, INTERIOR DOORS: MAX 5 POUNDS OF OPERATING PRESSURE.
4. THRESHOLD SHALL NOT EXCEED ONE-HALF INCH (1/2") IN HEIGHT. THRESHOLDS EXCEEDING ONE-QUARTER (1/4") IN HEIGHT SHALL HAVE A 1:2 BEVEL.
5. PROVIDE HARDWARE WITH KNURLED HANDLES.
6. SLIDING STOREFRONT SYSTEM: NANAWALL, SL45L, 1L-2LR-2LR, NO REBATES, FLUSH SILL. W/ HARDWARE BY MANUFACTURER. CONTACT NICK WNENK 708-603-1013. REFER TO NANAWALL TIMELINE CHART UNDER DOOR SCHEDULE REMARKS NOTE #1.
7. UNDERCUT ALL DOORS AS REQUIRED TO PROVIDE MIN. 3/8" CLEARANCE ABOVE FINISH FLOOR U.N.O.
8. ROOFTOP SCREEN WALL ACCESS DOOR - REFER TO A3.1 FOR MORE INFORMATION. PROVIDE PASSAGE LOCKSET.

STOREFRONT/WINDOW SCHEDULE

STOREFRONT NUMBER	LOCATION	DOOR	NOMINAL SIZE (W X H)	FRAME MATERIAL	FRAME FINISH	FRAME THICK	GLASS	DETAILS HEAD	DETAILS JAMB	DETAILS SILL	REMARKS
SF1	ENTRY VESTIBULE	101a	8' - 4" X 10' - 6"	ANOD	BLK	0'- 4 1/2"	G2	1/A6.1	1/A6.1 SIM	3/A7.1	1,2,3,4
SF2	ENTRY VESTIBULE	101b	8' - 4" X 10' - 6"	ANOD	BLK	0'- 4 1/2"	G1	5/A7.1	4/A7.1	3/A7.1	1,2,3,4
W1	DINING	--	7' - 11" X 6' - 0"	ANOD	BLK	0'- 4 1/2"	G2	6/A7.2 SIM	4/A7.1 SIM	15/A7.1	
W2	DINING	--	19' - 10" X 6' - 0"	ANOD	BLK	0'- 4 1/2"	G2	6/A7.2 SIM	4/A7.1 SIM	15/A7.1	
W3	DINING	--	7' - 11" X 6' - 0"	ANOD	BLK	0'- 4 1/2"	G2	6/A7.2 SIM	4/A7.1 SIM	15/A7.1	
W4	CHARDONNAY ROOM	--	18' - 0" X 6' - 0"	ANOD	BLK	0'- 4 1/2"	G2	6/A7.2 SIM	4/A7.1 SIM	15/A7.1	
W5	PINOT NOIR ROOM	--	18' - 0" X 6' - 0"	ANOD	BLK	0'- 4 1/2"	G2	6/A7.2 SIM	4/A7.1 SIM	15/A7.1	
W6	BAR DINING	--	7' - 3" X 6' - 0"	ANOD	BLK	0'- 4 1/2"	G2	6/A7.2 SIM	4/A7.1 SIM	15/A7.1	
W7	BAR DINING	--	18' - 0" X 6' - 0"	ANOD	BLK	0'- 4 1/2"	G2	6/A7.2 SIM	4/A7.1 SIM	15/A7.1	
W8	BAR DINING	--	7' - 3" X 6' - 0"	ANOD	BLK	0'- 4 1/2"	G2	6/A7.2 SIM	4/A7.1 SIM	15/A7.1	
W9	TASTING BAR	--	8' - 0" X 6' - 0"	ANOD	BLK	0'- 4 1/2"	G2	6/A7.2 SIM	4/A7.1 SIM	15/A7.1	
W10	TASTING BAR	--	8' - 0" X 9' - 0"	ANOD	BLK	0'- 4 1/2"	G2	6/A7.2 SIM	4/A7.1 SIM	15/A7.1 SIM	
W11	TASTING BAR	--	8' - 0" X 9' - 0"	ANOD	BLK	0'- 4 1/2"	G2	6/A7.2 SIM	4/A7.1 SIM	15/A7.1 SIM	

NOTES:

1. REFER TO HARDWARE SCHEDULE FOR HARDWARE SPECIFICATIONS
2. TEMPERED GLASS REQUIRED IF GLAZING I SLESS THAN 18" A.F.F. OR ADJACENT TO DOORS AND AS REQUIRED PER APPLICABLE CODES
3. ALL ALUMINUM STOREFRONT SYSTEM DOORS TO HAVE 10" BOTTOM RAILS (U.N.O.)
4. FOR ALL TRANSOM DIMENSIONS, SEE ELEVATIONS

DOOR/STOREFRONT SCHEDULE LEGEND

ABBREVIATIONS:

AL	- ALUMINUM
ANOD	- ANODIZED ALUMINUM
BLK	- BLACK
FF	- FACTORY FINISH
HM	- HOLLOW METAL
PLAM	- PLASTIC LAMINATE
LDW	- LESS DOOR WIDTH
P	- PAINT, REFER TO FINISH (SCHEDULE ON SHEET A9.2)
SC	- SOLID CORE DOOR
ST	- STEEL (GALVANIZED)
T	- TEMPERED GLAZING
WD	- WOOD
SS	- STAINLESS STEEL
STN	- STAIN FINISH
PWC	- POWDER COAT

GLASS TYPES:

GI	- 1/4" CLEAR TEMPERED
G2	- 1" INSULATING (TEMPERED PER CODE). OB: 1/4" PPG SOLARBAN 60 ON CLEAR, LOW-E#2 AS: 1/2" AIR SPACE IB: 1/4" CLEAR
G3	- 1" INSULATED GLAZING WITH SPANDREL PANE
G4	- 1/4" FROSTLITE LAMINATED GLASS (TEMP) WITH FILM TO BE APPLIED ON #2 AND #3 FACE
G5	- 1/4" CLEAR LAMINATED, TEMPERED WITH FILM TO BE APPLIED ON PRIVATE DINING SIDE
G6	- 1/4" SPANDREL GLASS

HARDWARE SCHEDULE

GROUP	QTY.	DESCRIPTION	MODEL NUMBER	FINISH	MANUFACTURER
AA	1 EA.	CONTINUOUS HINGES	SL11-LL	315	SELECT HINGES
	1 EA.	DOOR CLOSER	--	MATCH DOOR FINISH	BY STOREFRONT MANUFACTURER
	1 EA.	CONCEALED VERTICAL ROD EXIT DEVICE	9947NL-OP	315	VON DUPRIN
	1 EA.	WEATHER STRIPPING	PER STOREFRONT MANUFACTURER	--	--
	1 EA.	DOOR SWEEP	PER STOREFRONT MANUFACTURER	--	--
	1 EA.	THRESHOLD	255	D	PEMKO
	1 EA.	CUSTOM PULL HANDLE (DOOR #101A ONLY)	--	MATCH DOOR FINISH	FIRST IMPRESSIONS CONTACT: COURTNEY COX (P) 954-419-9918 (E) courtneyx@fihardware.com
	1 EA.	PULL HANDLE (NOT DOOR #101A)	39-IG	315	BURNS
		AUTOMATIC DOOR OPENER (PATIO DOORS ONLY)	REFER TO DOOR SCHEDULE REMARKS	--	POWER ACCESS
BB	1 1/2 EA.	PAIR BB BUTT HINGES (HEAVY DUTY)	BB-119 (4.5" x 4.5")	US10B	HAGER
	1 EA.	DOOR CLOSER	--	MATCH DOOR FINISH	BY STOREFRONT MANUFACTURER
		NO LOCK OR HATCH	--	--	--
	1 EA.	PUSH BAR	--	315	BURNS
	1 EA.	PULL HANDLE	39-IG	315	BURNS
	1 EA.	DOOR STOP - FLOOR	FS13	US32D	IVES
CC	1 1/2 EA.	PAIR BB BUTT HINGES (HEAVY DUTY)	BB-1199 (4.5" x 4.5")	US32D	HAGER
	1 EA.	DOOR CLOSER	REGULAR ARM 7500	689	NORTON
	1 EA.	PULL PLATE	8305 (4" x 16", 8" CENTERS)	US32D	IVES
	1 EA.	PUSH PLATE	8200 (4" x 16"	US32D	IVES
	1 EA.	KICK PLATE	190S (10" x 2" LDW)	US32D	HAGER
	1 EA.	"MEN'S" OR "WOMEN'S" SIGN (BY OWNER) HDCP.	--	--	--
	1 EA.	DOOR STOP - WALL	WS407CCV (407-1/2)	US32D	IVES
DD	1 1/2 EA.	PAIR BB BUTT HINGES (HEAVY DUTY)	BB-1199 (4.5" x 4.5")	US32D	HAGER
	1 EA.	DOOR CLOSER	REGULAR ARM 7500	689	NORTON
	1 EA.	LOCKSET (CORRIDOR)	ND73PD-ATH	US26D	SCHLAGE
	1 EA.	KICK PLATE	190S (10" x 2" LDW)	US32D	HAGER
	1 EA.	"FAMILY" SIGN (BY OWNER) HDCP.	--	--	--
	1 EA.	DOUBLE ROBE HOOK	572	US15	IVES
	1 EA.	DOOR STOP - WALL	FS13	US26D	IVES
EE	1 1/2 EA.	PAIR BB BUTT HINGES (STANDARD DUTY)	BB-1279 (4.5" x 4.5")	US26D	HAGER
	1 EA.	DOOR CLOSER	REGULAR ARM 7500	689	NORTON
	1 EA.	LOCKSET (STOREROOM)	ND80PD-ATH	US26D	SCHLAGE
	1 EA.	DOOR STOP - WALL	WS407CCV (407-1/2)	US26D	IVES
FF	1 1/2 EA.	PAIR BB BUTT HINGES (STANDARD DUTY)	BB-1279 (4.5" x 4.5")	US26D	HAGER
	1 EA.	DOOR CLOSER	REGULAR ARM 7500	689	NORTON
	1 EA.	LOCKSET (STOREROOM)	ND80PD-ATH	US26D	SCHLAGE
	1 EA.	KICK PLATE	190S (10" x 2" LDW)	US32D	HAGER
	1 EA.	VIEWER	595	US26D	PEEKO
	1 EA.	DOOR STOP - WALL	WS407CCV (407-1/2)	US26D	IVES
GG	1 1/2 EA.	PAIR BB BUTT HINGES (STANDARD DUTY)	BB-1279 (4.5" x 4.5")	US26D	HAGER
	1 EA.	DOOR CLOSER	REGULAR ARM 7500	689	NORTON
	1 EA.	LOCKSET (PRIVACY/BATH)	ND40S-ATH	US26D	SCHLAGE
	1 EA.	KICK PLATE	190 (10" x 2" LDW)	US32D	HAGER
	1 EA.	DOUBLE ROBE HOOK (PLACED ON DOOR @ 54" A.F.F.)	572	US26D	IVES
	1 EA.	DOOR STOP - FLOOR	FS13	US26D	IVES
HH	1 1/2 EA.	PAIR BB BUTT HINGES (STANDARD DUTY)	BB-1279 (4.5" x 4.5")	US26D	HAGER
	1 EA.	DOOR CLOSER (HOLD OPEN)	REGULAR ARM 7500	689	NORTON
	1 EA.	LOCKSET (PASSAGE) (KNURLED HANDLE WHERE NOTED)	ND10S-ATH	US26D	SCHLAGE
	1 EA.	KICK PLATE	190S (10" x 2" LDW)	US32D	HAGER
	1 EA.	DOOR STOP - WALL	WS407CCV (407-1/2)	US26D	IVES
JJ	1 EA.	CONTINUOUS HINGE	SL11-HD	CLEAR	SELECT HINGES
	1 EA.	DOOR CLOSER (NO HOLD OPEN)	PARALLEL ARM CLP-7500	689	NORTON
	1 EA.	PANIC EXIT DEVICE	25-R-510L-NL-DANE	US26D	FALCON
	1 EA.	ARMOR PLATE	220S (34" x 2" LDW)	DIAMOND TREAD	HAGER
	1 EA.	VIEWER	595	US26D	PEEKO
	1 EA.	WEATHER STRIPPING	S88-GR	GRAY	PEMKO
	1 EA.	DOOR SWEEP	750S	US32D	HAGER
	1 EA.	THRESHOLD (BUMPER)	520S	MILL	HAGER
KK	1 EA.	CONTINUOUS HINGE	SL11-HD	CLEAR	SELECT HINGES
	1 EA.	DOOR CLOSER (NO HOLD OPEN)	PARALLEL ARM P-7500	689	NORTON
	1 EA.	LOCKSET (STOREROOM)	ND80PD-ATH	US26D	SCHLAGE
	1 EA.	ARMOR PLATE	190S (34" x 2" LDW)	US32D	HAGER
	1 EA.	WEATHER STRIPPING	S88-GR	GRAY	PEMKO
	1 EA.	DOOR SWEEP	750S	US32D	HAGER
	1 EA.	THRESHOLD (BUMPER)	520S	MILL	HAGER
LL	1 1/2 EA.	PAIR BB BUTT HINGES (STANDARD DUTY)	BB-1279 (4.5" x 4.5")	US26D	HAGER
	1 EA.	DOOR CLOSER (NO HOLD OPEN)	REGULAR ARM 7500	689	NORTON
	1 EA.	LOCKSET (CLASSROOM)	ND70PD-ATH	US26D	SCHLAGE
	1 EA.	ARMOR PLATE	190S (34" x 2" LDW)	US32D	HAGER
	1 EA.	WEATHER STRIPPING	S88-GR	GRAY	PEMKO
	1 EA.	DOOR SWEEP	750S	US32D	HAGER
	1 EA.	THRESHOLD (BUMPER)	520S	MILL	HAGER
MM	1 1/2 EA.	PAIR BB BUTT HINGES (STANDARD DUTY)	BB-1279 (4.5" x 4.5")	US26D	HAGER
	1 EA.	DOOR CLOSER	REGULAR ARM P-7500	689	NORTON
	1 EA.	LOCKSET (STORE)	ND86PD-ATH	US26D	SCHLAGE
	1 EA.	WEATHER STRIPPING	S88-GR	GRAY	PEMKO
NN	1 EA.	CONTINUOUS HINGE	SL11-HD	CLEAR	SELECT HINGES
	AS REQ'D	HINGE REINFORCEMENT	10 GA. GALVANNEAL STEEL	--	--
		PANIC EXIT DEVICE	SERIES 2000R	US32D	DESIGN HARDWARE
	1 EA.	LEVER	SERIES 200 - KIL PASSAGE	US32D	DESIGN HARDWARE
	1 EA.	ARMOR PLATE	220S (34" x 2" LDW)	DIAMOND TREAD	HAGER
	1 EA.	DOOR CLOSER (HOLD OPEN)	REGULAR ARM 7500 H	US26D	NORTON
	1 EA.				
PP	1 1/2 EA.	PAIR BB BUTT HINGES (STANDARD DUTY)	BB-1279 (4.5" x 4.5")	US26D	HAGER
	1 EA	DOOR CLOSER (HOLD OPEN)	REGULAR ARM 7500 H	689	NORTON
	1 EA.	LOCKSET (STOREROOM) (KNURLED HANDLE WHERE NOTED)	ND10S-ATH	US26D	SCHLAGE
	1 EA.	ARMOR PLATE	190S (10" x 2" LDW)	US32D	HAGER
	1 EA.	DOOR STOP - WALL	WS407CCV (407-1/2)	US26D	IVES
QQ	1 1/2 EA.	PAIR BB BUTT HINGES (STANDARD DUTY)	BB-1279 (4.5" x 4.5")	US26D	HAGER
	1 EA.	LOCKSET (STOREROOM) (KNURLED HANDLE WHERE NOTED)	ND80PD-ATH	US26D	SCHLAGE
	1 EA.	KICK PLATE	190S (10" x 2" LNOT USED	US32D	HAGER
	1 EA.	DOOR STOP - WALL	WS407CCV (407-1/2)	US26D	IVES
	1 EA.	FLUSHBOLT	282D	US26D	HAGER
RR	1 EA.	CONTINUOUS HINGES	SL11-LL	DARK BRONZE	SELECT HINGES
	1 EA.	DOOR CLOSER	--	MATCH DOOR FINISH	BY STOREFRONT MANUFACTURER
	1 EA.	CONCEALED VERTICAL ROD EXIT DEVICE (NO TRIM)	9947EO	313	VON DUPRIN
	1 EA.	WEATHER STRIPPING	PER STOREFRONT MANUFACTURER		--
	1 EA.	DOOR SWEEP	PER STOREFRONT MANUFACTURER	--	--
	1 EA.	THRESHOLD	255	D	PEMKO
	1 EA.	PULL HANDLE	39-IG	DARK BRONZE POWDER COAT	BURNS

HARDWARE REMARKS

HARDWARE SETS ARE DESCRIBED FOR SINGLE DOORS. WHERE A PAIR OF DOORS IS LISTED IN THE DOOR SCHEDULE, DOUBLE THE QUANTITY OF EACH ITEM LISTED IN THE HARDWARE SCHEDULE, UNLESS NOTED OTHERWISE.

1. WHEN A DOOR IS OVER 7'-6" TALL, PROVIDE 2 PAIR HINGES PER DOOR, U.N.O.
2. HARDWARE SUPPLIER VERIFY w/ FLOOR PLANS ON MOUNTING LOCATION FOR DOOR STOP, I.E. FLOOR OR WALL.
3. FURNISH DOOR SILENCERS FOR ALL DOOR FRAMES, IVES SR64 AT METAL, SR65 AT WOOD FRAMES.
4. ALL LOCKSETS TO BE PROVIDED WITH STANDARD CYLINDERS.

HARDWARE FINISH NOTES

613 / US10B	DARK OXIDIZED SATIN BRONZE, OILED RUBBED
626 / US26D	SATIN CHROME
630 / US32D	STAINLESS STEEL
619 / US15	SATIN NICKEL
689	ALUMINUM
711 / 315	BLACK ANODIZED

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FIELD VERIFICATION
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NO.	DATE	REMARKS
1	08/19/2021	ISSUED FOR PERMIT

REVISIONS

STATE OF MISSOURI
DANIEL PAUL BERNATEK
NUMBER A-2010026259
ARCHITECT
8/19/21
EXP 12/31/22

Drawing Title
DOOR & WINDOW SCHEDULES

Job No.	Drawn
204530	EN

Scale	Date
AS NOTED	08/19/2021

Sheet No.
A9.1

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FINISH SCHEDULE

NOTES:
NO SUBSTITUTIONS
ALL TILES HAVE A LONG LEAD TIME, ORDER APPROPRIATELY. TILE CONTRACTOR WILL BE FULLY RESPONSIBLE FOR QUICK SHIP FEES TO EXPEDITE ORDERS
LEAD TIMES WILL VARY DEPENDING ON TIME OF ORDER. CONTACT SALES REPRESENTATIVES FOR MORE INFORMATION

KEY	DESCRIPTION	MANUFACTURER	PRODUCT	COLOR	FINISH	SIZE	LOCATION	LEADTIME	NOTES	CONTACT
BRICK / FIBER CEMENT / PLASTER										
BR-1	BRICK	ARRISCRAFT	GEORGIA ARCHITECTURAL LINEAR SERIES BRICK	WHITE PEARL	INSTALL - SMOOTH FACE	3-3/4"D X 2-1/8"H X RANDOM LENGTHS	REFER TO EXTERIOR ELEVATOINS	4-6 WEEKS	INSTALL: RUNNING BOND 50% OFFSET. MORTAR COLOR: SPECMIX SM800 - BLACK	JACQUIE JOYCE 331-254-0996 jacquie.joyce@generalshale.com
BR-2	BRICK	ARRISCRAFT	ARCHITECTURAL LINEAR SERIES BRICK	OBSIDIAN	INSTALL - SMOOTH FACE	3-3/4"D X 2-3/8"H X RANDOM LENGTHS	REFER TO EXTERIOR ELEVATIONS	4-6 WEEKS	INSTALL: RUNNING BOND 50% OFFSET. MORTAR COLOR: SPECMIX SM800 - BLACK	JACQUIE JOYCE 331-254-0996 jacquie.joyce@generalshale.com
PC-1	PRECAST STONE	ARRISCRAFT	ARCHITECTURAL LINEAR SERIES	OBSIDIAN	N/A	3-5/8"H X RANDOM L X 5"D	REFER TO EXTERIOR ELEVATIONS	4-6 WEEKS		
PC-2	PRECAST STONE	CUSTOM CAST STONE	ARCHITECTURAL CAST STONE	MATCH BR-1	SMOOTH	REFER TO DETAILS	REFER TO DETAILS			317-896-1700
PF-1	PLASTER FINISH	STO	STO THERM	PAINT TO MATCH P-9 SW7674	ESSENCE MEDIUM SAND		REFER TO EXTERIOR ELEVATIONS		PROVIDE SAMPLE OF EACH FOR ARCHITECT APPROVAL. PROVIDE IMPACT RESISTANT FINISH BELOW 4'-0"	MATT STEPHENSON 770-789-8228 MSTEPHENSON@NICHIHA.COM
CARPET										
CPT-1	CARPET TILE	IMPACT SPECIALTIES	PEDITRED G4	7325 WROUGHT IRON		3/4" THICK RECESSED TAPERED ANGLE FRAME	VESTIBULE	N/A	VINYL ON TOW SIDES ONLY (INDIRECTION) OF TRAVEL) SUPPORTS 1000LBS ROLLING LOAD. *TYP SPEC	NICK COUSE 888-424-6287 ncouse@c-sgroup.com
CPT-2	FABRIC	MILLIKEN	BRUSHED METAL - THERMAL, MAGNETIC FIELD - THERMAL	BRU67 & MAG67		10"X39"	DINING & PDR	3-4 WEEKS	INSTALL: VERTICAL ASHLAR	KAREN ISLEY 630-222-8091 KAREN.ISLEY@MILLIKEN.COM
CEILING TILE										
CT-1	ACOUSTIC BOARD	ROCKFON	COLOR-ALL	BLACK #08	N/A	2'X2'X3/4" SQUARE TEGULAR	REFER TO RCP	IN STOCK	WITH 15/16" GRID IN FLAT BLACK #88	ALENA MORRISSEY 312-785-8255 alena.morrisey@rockfon.com
CT-2	VINYL FACED GYPSUM TILE	GENESIS	SMOOTH PRO 74500	WHITE	N/A	2'X4'	REFER TO RCP		WHITE ALUMINUM COATED STEEL GRID	MARSHA PAVOLA 630-248-1317 marshapavola@acpideas.com
CT-3	ACOUSTICAL INSULATION	ECOSE TECHNOLOGY	BLACK ACOUSTICAL INSULATION	BLACK	N/A	ROLL	APPLIED TO UNDERSIDE OF METAL DECK		CUT TO VARIED LENGTHS	WILLIAM COMBS 317-442-4373 WILLIAM.COMBS@KNAUFINSULATION.COM
CONCRETE										
CS-1	INTEGRAL COLORED CONCRETE	BUTTERFIELD	INTEGRAL COLORED CONCRETE	GULLGRAY	STAINED AND POLISHED WITH LOW VOC CLEAR SEALER	-	FIELD FLOOR, REFER TO FFP		3 LBS PER 100 LBS OF CONCRETE, TRANSITION STRIPS: CERAMIC TOOL COMPANY CTC14 REDUCER DARK BRONZE AT CARPET TRANSITIONS CONTACT: 800-236-5230	KEITH BOUDART 630-849-7626 keith@butterfieldcolor.com
CS-2	INTEGRAL COLORED CONCRETE	BUTTERFIELD	INTEGRAL COLORED CONCRETE	CHARCOAL	BROOM FINISH WITH LOW VOC SEALER		PATIO		3 LBS PER 100 LBS OF CONCRETE	KEITH BOUDART 630-849-7626 keith@butterfieldcolor.com
CS-3	INTEGRAL COLORED CONCRETE	BUTTERFIELD	INTEGRAL COLORED CONCRETE	GULL GRAY	TROWEL FINISH WITH LOW VOC CLEAR SEALER		CURB @BAR AND RAISED BOOTHS		3 LBS PER 100 LBS OF CONCRETE	KEITH BOUDART 630-849-7626 keith@butterfieldcolor.com
EPOXY FLOOR / VINYL FLOOR / VINYL BASE										
D-1	QUARTZ FLOORING	SILIKAL	HIGH TEMP EPOSY FLOOR COATING	GRAY QUARTZ BLEND #4	TOP R81 RESIN		BACK BARS, WRAPPING ROOM, REFER TO FLOOR FINISH PLAN		SYSTEM: R61-CQ, LESS THAN 7 G/L VOC	MIKE MICHAUD 989-820-6211 mikemichaud@silikalamerica.com
D-2	QUARTZ FLOORING	SILIKAL	HIGH TEMP EPOSY FLOOR COATING	GRAY QUARTZ BLEND #1	TOP R81 RESIN		KITCHEN, REFER TO FFP		SYSTEM: R17-CQ	MIKE MICHAUD 989-820-6211 mikemichaud@silikalamerica.com
D-3	QUARTZ FLOORING	SILIKAL	COLOR QUARTZ	TO MATCH D-2			BOH, AROUND TILT SKILLET DRAIN ONLY AND PASTA COOKER		SYSTEM: R17-CQ#1	MIKE MICHAUD 989-820-6211 mikemichaud@silikalamerica.com
VB-1	VINYL BASE	JOHNSONITE	MANDALAY	40 BLACK		6"H	MILLWORK AND BOOTH BASE, REFER TO DETAILS			ENZA SCIANNA 312-405-3970 ENZA.SCIANNA@CARKOTT.COM
VB-2	VINYL BASE	ARMSTRONG FLOORING	COLOR INTEGRATED WALL BASE	60 JET BLACK		6"H	EQUIPMENT PLATFORM, NETWORK ROOM			KIM MATRANGA 224-287-1509 KAMANTRANGA@ARMSTRONG FLOORING.COM
VF-1	HOMOGENEOUS SHEET FLOORING	ARMSTRONG FLOORING	MEDINTECH/ MEDINTONE	GREY LIGHT H5301		0.080" THICK	EQUIPMENT PLATFORM			KIM MATRANGA 224-287-1509 KAMANTRANGA@ARMSTRONG FLOORING.COM
GLASS / WINDOW FILM / WINDOW SHADES										
GL-1	GLASS	LOCAL SOURCE	CLEAR TEMPERED GLASS			1/4" THICK	KITCHEN EXPO AND LOW WALLS		LOW IRON	
GL-2	MIRROR	GLASS WAREHOUSE	STAINLESS STEEL FRAMED RADIUS CORNER VANITY MIRROR W/ BLACK FINISH		BLACK	22"X40"	TOILET ROOM			
WF-1	WINDOW FILM	SOLYX	SGV-68/13	FROSTED STRIE		48"	SLIDING DOORS TO PDR	1 WEEK	INSTALL: VERTICALLY	AARON LOTINSKY 888-657-5224 custom@decorativefilm.com
WF-2	WINDOW FILM	SOLYX	SH2EMWG	WEAVE PEARL + DARK GRAY		48" WIDE	LOW WALLS IN DINING ROOM	1 WEEK		DONALD SHEDOR, 708-927-5514 shedor@comcast.net
WF-3	WINDOW FILM	3M	PRESTIGE SERIES	PR70		VARIES BETWEEN 36", 48", 60" AND 72" CONTRACTOR TO DETERMINE PROPER WIDTH				
WS-1	WINDOW SHADES	ROLL-A-SHADE	4" SQUARE FASCIA SYSTEM	FASCIA: COLOR TO MATCH STOREFRONT	FABRIC: STYLE 2500 V22 CHARCOAL/GRAY 1% BY SHEER WEAVE BY PHIFER	VARIES BETWEEN 36",48",60" & 72"	REFER TO INTERIOR PERSPECTIVES AND RCP		PROVIDE STAINLESS STEEL CORD, OPERATION: MANUAL.	JAY GONZALEZ 951-245-5077 jay.gonzalez@rollashade.com
METALS										
ACM-1	ALUMINUM COMPOSITE PANELS	PAC-CLAD	REYNOBOND FR	DEEP BLACK			REFER TO EXTERIOR ELEVATION			TONY RAPISARDA, 773-791-7096 TONY.RAPISARDA@ALCOA.COM
M-1	METAL COPING & SILLS	PAC-CLAD		MATTE BLACK			REFER TO EXTERIOR ELEVATION			MIRIAM DEMICHAEL 847-228-7150 MDEMICHAEL@AMERICANPRODUCTS.COM
M-2	METAL PANELS	PAC-CLAD	HWP PANELS	BLACK ALUMINUM			REFER TO EXTERIOR ELEVATIONS			
M-3	METAL CANOPY	AMERICAN PRODUCTS INC.	ATLANTIS G-GUTTER CANOPY W/FLAT DECK	BLACK	POWDERCOATED	REFER TO REFLECTED CEILING PLAN AND ELEVATIONS	ENTRY CANOPY	TBD	HANGER ROD SUPPORTS, 12" C CHANNEL FASCIA, AND INTEGRAL RECESSED LIGHTING, REFER TO A2.3	MICHAEL CALDERONE 813-925-1244 mcalderone@americanproducts.com
MISCELLANEOUS										
FRP-1	REINFORCED PANELS	MARLITE	STANDARD PEBBLED SURFACE	P100 WHITE	PROVIDE OUTSIDE TRIM PIECES AT CORNERS, INSIDE CORNERS, SEAMS AND END PIECES AS REQUIRED. CLASS C.	4'X10'X3/32"				TIM PINNOW 330-260-7631 TPINNOW@MARLITE.COM
FRP-2	REINFORCED PANELS	MARLITE	STANDARD PEBBLE	P430N - MEDIUM GRAY	PROVIDE OUTSIDE TRIM PIECES AT CORNERS, INSIDE CORNERS, SEAMS AND END PIECES AS REQUIRED. CLASS C.	4'X10'X3/32"	EMPLOYEE RESTROOMS			TIM PINNOW 330-260-7631 TPINNOW@MARLITE.COM
OWS	OUTDOOR WEATHER SHADE SYSTEM	ROLL-A-SHADE	MOTORIZED EXTERIOR ZIP SHADE 150	BLACK	SOLTIS FERARRI HORIZON 86	WIDTH: 105"	PATIO	IN STOCK	86-51176	JAY GONZALEZ 951-245-5077 jay.gonzalez@rollashade.com
PAINT / STAIN										
P-1	PAINT	SHERWIN WILLIAMS	SW 7641	COLLONADE GRAY	EG-SHEL		FOH STORAGE,OFFICE, BOH REFER TO RCP			JESSICA NEWELL 224-223-5180 jessica.newell@sherwin.com
P-2	PAINT	SHERWIN WILLIAMS	SW 7024	FUNCTIONAL GRAY	SEMI-GLOSS		BOH, HOLLOW METAL DOOR FRAMES REFER TO EXTERIOR ELEVATIONS			JESSICA NEWELL 224-223-5180 jessica.newell@sherwin.com
P-3	PAINT	SHERWIN WILLIAMS	SW 6222	RIVERWAY	EG-SHEL		EMPLOYEE RESTROOMS, REFER TO INTERIOR ELEVATIONS			JESSICA NEWELL 224-223-5180 jessica.newell@sherwin.com
P-4	PAINT	SHERWIN WILLIAMS	SW 6258	TRICORN BLACK	EXTERIOR - SEMI GLOSS		EXTERIOR REFER TO EXTERIOR ELEVATIONS		PRO INDUSTRIAL ENAMEL TO BE USED FOR ALL EXTERIOR APPLICATIONS, PRIMED PER MFR RECOMMENDATIONS	JESSICA NEWELL 224-223-5180 jessica.newell@sherwin.com
P-5	PAINT	PORTOLA PAINTS		DRY GROUND	LIME WASH		TASTING BAR SOFFIT, REFER TO INTERIOR ELEVATIONS & RCP			
P-6	PAINT	SHERWIN WILLIAMS	SW 7069	IRON ORE	FLAT		CEILINGS & SOFFITS REFER TO RCP AND INTERIOR ELEVATIONS			JESSICA NEWELL 224-223-5180 jessica.newell@sherwin.com
P-7	PAINT	SHERWIN WILLIAMS	SW 7019	GAUNTLET GRAY	FLAT		CEILINGS & SOFFITS REFER TO INTERIOR ELEVATIONS			JESSICA NEWELL 224-223-5180 jessica.newell@sherwin.com
P-8	PAINT	SHERWIN WILLIAMS	SW 7031	MEGA GREIGE	EG-SHEL		RESTROOM WALLS			JESSICA NEWELL 224-223-5180 jessica.newell@sherwin.com
P-9	PAINT	SHERWIN WILLIAMS	SW 7674	PEPPERCORN	SEMI GLOSS AT EXTERIOR DOORS. COOLER - SW MACROPOXY 646-100 FC PRIMER + SW 2K WATER BASED CRAFITTI COATING IN SATIN		REFER TO EXTERIOR ELEVATIONS		EXTERIOR EXIT DOORS, SERVICE YARD WALLS & SERVICE YARD DOORS. REFER TO EXTERIOR ELEVATIONS	JESSICA NEWELL 224-223-5180 jessica.newell@sherwin.com
P-10	PAINT	SHERWIN WILLIAMS	SW 6071	POPULAR GRAY	INTERIOR - FLAT EXTERIOR - SEMI-GLOSS		REFER TO EXTERIOR ELEVATIONS AND RCP		PRO INDUSTRIAL ENAMEL TO BE USED FOR ALL EXTERIOR APPLICATIONS, PRIMED PER MFR RECOMMENDATIONS	JESSICA NEWELL 224-223-5180 jessica.newell@sherwin.com
P-11	PAINT	SHERWIN WILLIAMS	SW 7048	URBANE BRONZE	EG-SHEL		REFER TO INTERIOR PERSPECTIVES			JESSICA NEWELL 224-223-5180 jessica.newell@sherwin.com
STN-1	LIGHT STAIN	CUSTOM TO MATCH ARCHITECT'S SAMPLE							REFER TO SPECIFICATION SHEET FOR ALL WOOD SEALER REQUIREMENTS, PROVIDE SAMPLE FOR ARCHITECT'S REVIEW	
STN-2	MEDIUM STAIN	CUSTOM TO MATCH ARCHITECT'S SAMPLE							REFER TO SPECIFICATION SHEET FOR ALL WOOD SEALER REQUIREMENTS, PROVIDE SAMPLE FOR ARCHITECT'S REVIEW	
STN-3	DARK STAIN	CUSTOM TO MATCH ARCHITECT'S SAMPLE							REFER TO SPECIFICATION SHEET FOR ALL WOOD SEALER REQUIREMENTS, PROVIDE SAMPLE FOR ARCHITECT'S REVIEW	
PLASTIC LAMINATE										
PL-1	PLASTIC LAMINATE	WILSONART	1573-60	FROSTY WHITE	TEXTURED		OFFICE CABINETS, COUNTER			ROMANA MILLS 614-477-4932 romana.mills@wilsonart.com
PL-2	PLASTIC LAMINATE	WILSONART	D91	SLATE GRAY	MATTE		RESTROOM PARTITIONS			ROMANA MILLS 614-477-4932 romana.mills@wilsonart.com
PL-3	PLASTIC LAMINATE	WILSONART	1595-60	BLACK	TEXTURED		HOST STAND, POS STATIONS, BAR, CANDY CASE, REFER TO INTERIOR ELEVATIONS AND DETAILS			ROMANA MILLS 614-477-4932 romana.mills@wilsonart.com
PL-4	PLASTIC LAMINATE	EGGER	H3791 ST12	AUBURN CARINI WALNUT	N/A	5' X 9' SHEETS	REFER TO INTERIOR PERSPECTIVES	IN STOCK		KATHY WALKER 630-995-1557 kathy@paxtonwood.com
PL-5	PLASTIC LAMINATE	FENIX INTERIORS	J0720	NERO INGO		5'X12'	MAIN BAR DIE, REFER TO INTERIOR PERSPECTIVES	IN STOCK		MINDY.SINZHEIMER 773-209-6400 MINDY.SINZHEIMER@FORMICA.COM
STONE										
S-1	QUARTZ COUNTERTOP	CAESARSTONE		PEBBLE 4030	POLISHED	2CM SLAB	TASTING BAR, CHECK OUT COUNTER, & BATHROOMS	IN STOCK		KATHLEEN HAYES 312-493-5976 KATHLEEN.HAYES@CAESARSTONEUS.COM
S-2	QUARTZ COUNTERTOP	CAESARSTONE		STARUARIO NUVO	POLISHED	2 CM	HOST STAND, AND MAIN BAR	IN STOCK		KATHLEEN HAYES 312-493-5976 KATHLEEN.HAYES@CAESARSTONEUS.COM
S-3	QUARTZ COUNTERTOP	DALTILE		ABSOLUTE BLACK	HONED (SEAL PER SPECS)	2CM SLAB	POS STATIONS AND DECANTER STATIONS			ALLISON SANTAROSSA 812-340-2035 A.SANTAROSSA@DALTILE.COM
S-4	GRANITE COUNTERTOP	MSI	RSL-FORTALEZA			3CM			SEAL PER SPECS	
TILE										
T-1	PORCELAIN TILE	ATLAS CONCORDE USA	RIFT - PORTLAND	PORTLAND	MATTE	12" x 24"	REFFER TO INTERIOR ELEVATIONS	2-3 WEEKS	INSTALL: STACKED VERTICALLY, GROUT: MAPEI 11 SAHARA BEIGE MORTAR: MAPEI ULTRA FLEX LFT, CONTACT KATHLEEN MCGINLEY 630-808-9944 SCHLUTER STRIP: JOLLY (SATIN NICKEL) AT OUTSIDE CORNERS	DARLENE COZZI 847-561-9582 darlene.cozzi@virginiatile.com
T-2	PORCELIAN TILE	EMSER	CASSERO	MOKA	MATTE	12"X24"	RESTROOM WALL TILE	1-2 WEEKS	INSTALL: STACKED VERTICALLY, GROUT: MAPEI 11 SAHARA BEIGE MORTAR: MAPEI ULTRA FLEX LFT, CONTACT KATHLEEN MCGINLEY 630-808-9944 SCHLUTER STRIP: JOLLY (SATIN NICKEL) AT OUTSIDE CORNERS	KATIE CALLAHAN 224-254-0071 katiecallahan@transceramica.com
T-3	PORCELAIN TILE	MID AMERICA TILE	PENNY ROUND SERIES	ISL2630	GLOSSY	~1"DIAMETER	RESTROOM WALL TILE	2-3 WEEKS	GROUT: MAPEI 10 CHARCOAL 1/8" JOINT SIZE MORTAR: MAPEI ULTRA FLEX LFT, CONTACT KATHLEEN MCGINLEY 630-808-9944 SCHLUTER STRIP: JOLLY (BRUSHED GRAPHITE ANODIZED ALUMINUM) AT OUTSIDE CORNERS	JORDAN HANGGE 847-560-3127 jhangee@midamericantile.com
T-4	PORCELAIN TILE	MID AMERICA TILE	TIME 2.0	BLACK	NATURAL	6"X24"X10MM	WALL BASE IN PUBLIC AREAS, REFER TO INTERIOR PERSPECTIVES	7-10 DAYS	GROUT: MAPEI 47 CHARCOAL 1/8" JOINT SIZE MORTAR: MAPEI ULTRA FLEX LFT, CONTACT KATHLEEN MCGINLEY 630-808-9944 SCHLUTER STRIP: JOLLY (TRENDLINE DARK ANTRACITE) AT OUTSIDE CORNERS	JORDAN HANGGE 847-560-3127 jhangee@midamericantile.com
T-5	PORCELAIN TILE	MID AMERICA TILE	DIVINITY	HORIZON	MATTE	24"X24"	ENTRY, REFER TO FINISH FLOOR PLAN	2 WEEKS	GROUT: MAPEI 11 SAHARA BEIGE MORTAR: MAPEI ULTRA FLEX LFT, CONTACT KATHLEEN MCGINLEY 630-808-9944 SCHLUTER STRIP: JOLLY (SATIN NICKEL) AT OUTSIDE CORNERS	JORDAN HANGGE 847-560-3127 jhangee@midamericantile.com
WALLCOVERING										
WC-1	WALL COVERING	MAHARAM	HONOR WEAVE	HAZE		52"	REFER TO INTERIOR PERSPECTIVES	4 WEEKS		TYLER OFFUTT 630-776-9410 TOFFUTT@MAHARAM.COM
WC-2	WALL COVERING	MAHARAM	HONOR WEAVE	COAL		52"	REFER TO INTERIOR PERSPECTIVES	4 WEEKS		TYLER OFFUTT 630-776-9410 TOFFUTT@MAHARAM.COM
WC-3	WALL COVERING	WOLF GORDON	ARDLEY COVE	CHARCOAL		52"	PRIVATE DINING	3-4 WEEKS		JACKIE RUSH 312-343-1670 JACKIE.RUSH@WOLFGORDON.COM
WOOD / WOOD VENEER										
WD-1	LIGHT WOOD		WHITE OAK, CHARACTER GRADE	STN-1	ULTRA-MATTE, LOW VOC SEALER	VARIES	MILLWORK, REFER TO INTERIOR PERSPECTIVES		TO MATCH ARCHITECT'S SAMPLE	
WD-2	MEDIUM WOOD		WHITE OAK, CHARACTER GRADE	STN-2	ULTRA MATTE, LOW VOC	VARIES	MILLWORK, REFER TO INTERIOR PERSPECTIVES		TO MATCH ARCHITECT'S SAMPLE	
WD-3	DARK WOOD		WHITE OAK, CHARACTER GRADE	STN-3	ULTRA MATTE, LOW VOC SEALER	VARIES	MILLWORK, REFER TO INTERIOR PERSPECTIVES		TO MATCH ARCHITECT'S SAMPLE	
WV-1	WOOD VENEER		WHITE OAK, CHARACTER GRADE	STN-1	ULTRA-MATTE, LOW VOC SEALER	VARIES	MILLWORK, REFER TO INTERIOR PERSPECTIVES		TO MATCH ARCHITECT'S SAMPLE	
WV-2	WOOD VENEER		WHITE OAK, CHARACTER GRADE	STN-2	ULTRA-MATTE, LOW VOC SEALER	VARIES	MILLWORK, REFER TO INTERIOR PERSPECTIVES		TO MATCH ARCHITECT'S SAMPLE	

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NO.	DATE	REMARKS
1	08/19/2021	ISSUED FOR PERMIT

REVISIONS

STATE OF MISSOURI
DANIEL PAUL BERNATSK
NUMBER A-2010026259
ARCHITECT
8/19/21
EXP 12/31/22

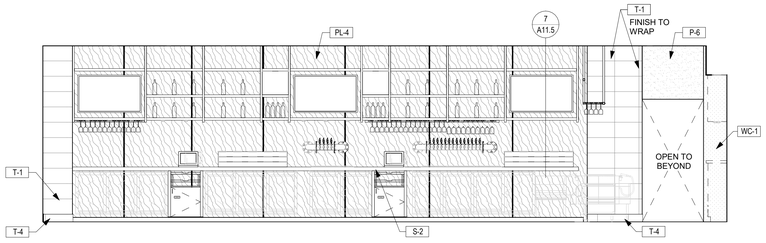
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FINISH SCHEDULE

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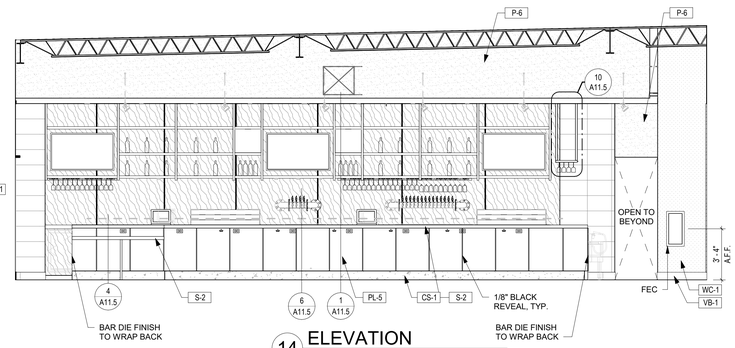
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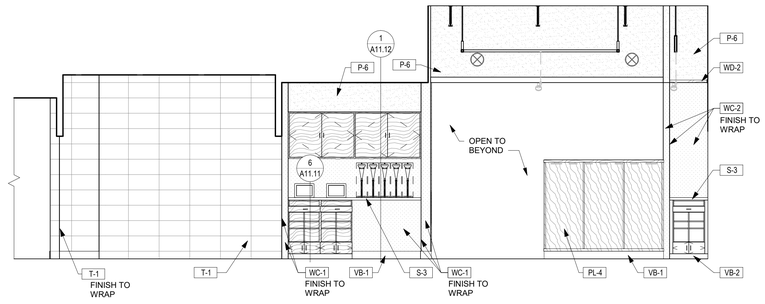
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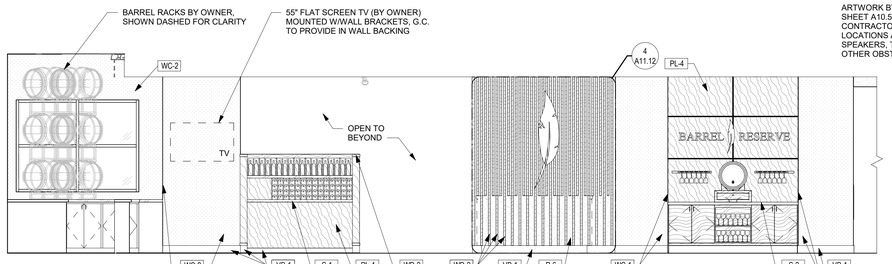
15 ELEVATION
1/4" = 1'-0" @BACK BAR



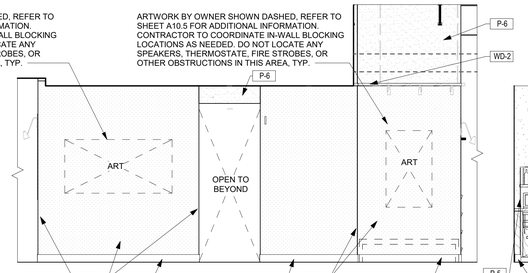
14 ELEVATION
1/4" = 1'-0" @BAR



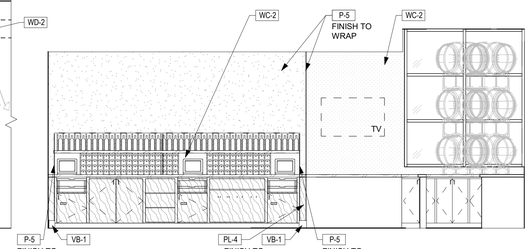
13 ELEVATION
1/4" = 1'-0"



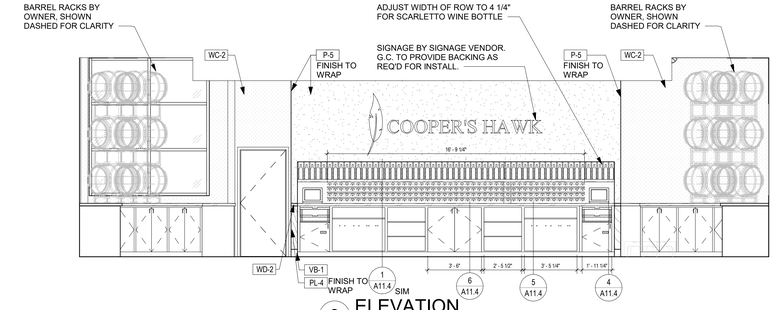
12 ELEVATION
1/4" = 1'-0" @HOST/BARREL RESERVE



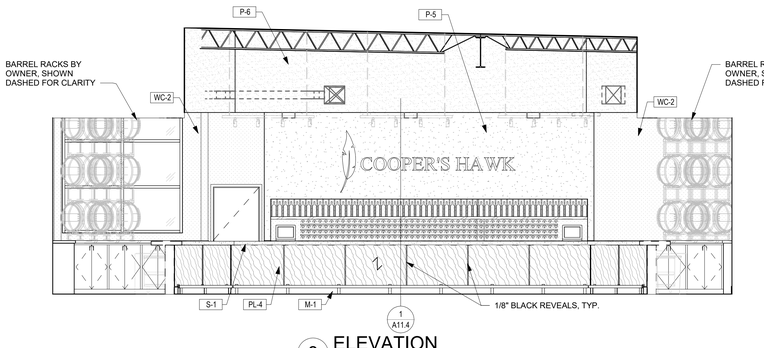
11 ELEVATION
1/4" = 1'-0" @WAITING AREA



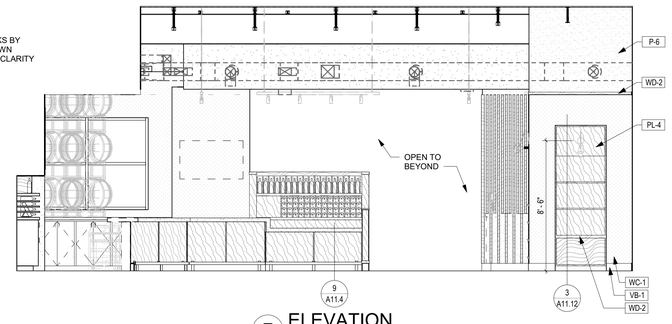
10 ELEVATION
1/4" = 1'-0" @CARRY OUT/CHECK OUT



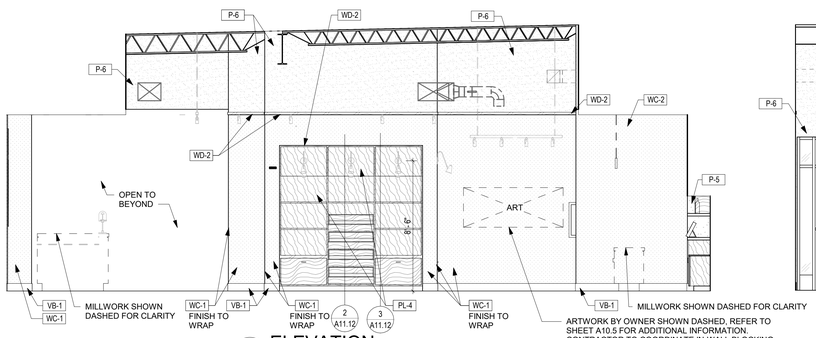
9 ELEVATION
1/4" = 1'-0" @TASTING BAR



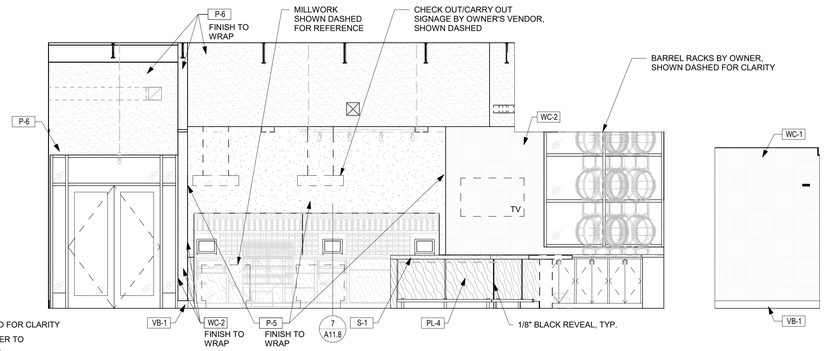
8 ELEVATION
1/4" = 1'-0" @TASTING BAR



7 ELEVATION
1/4" = 1'-0" @RETAIL

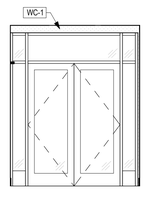


6 ELEVATION
1/4" = 1'-0" @RETAIL

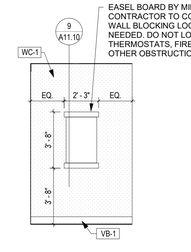


5 ELEVATION
1/4" = 1'-0" @CHECK OUT/CARRY OUT

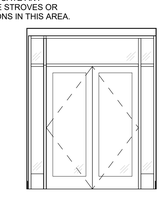
4 ELEVATION
1/4" = 1'-0" @ENTRY



3 ELEVATION
1/4" = 1'-0" @ENTRY



2 ELEVATION
1/4" = 1'-0" @ENTRY



1 ELEVATION
1/4" = 1'-0" @ENTRY

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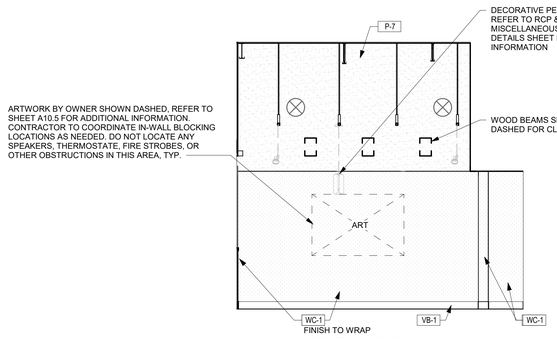
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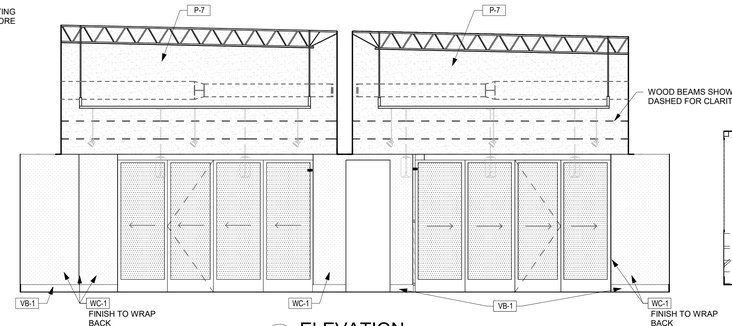
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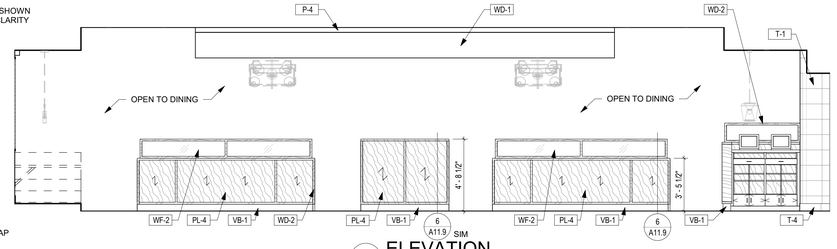
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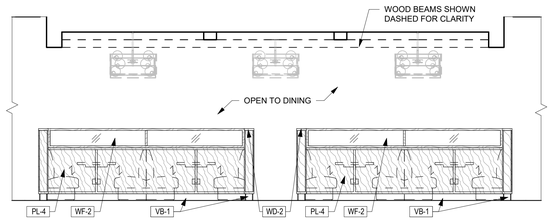
25 ELEVATION
1/4" = 1'-0" @CHARDONNAY ROOM



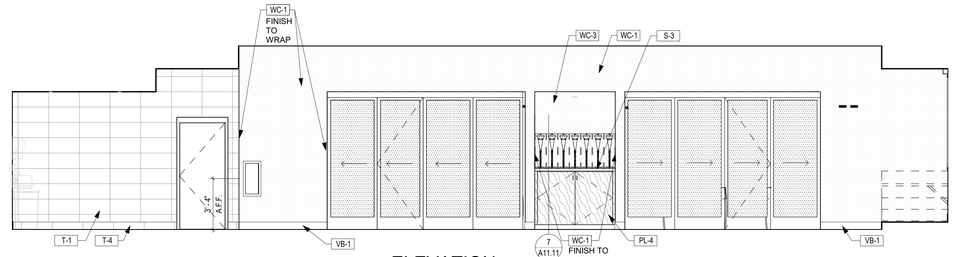
24 ELEVATION
1/4" = 1'-0" @PINOT NOIR ROOM



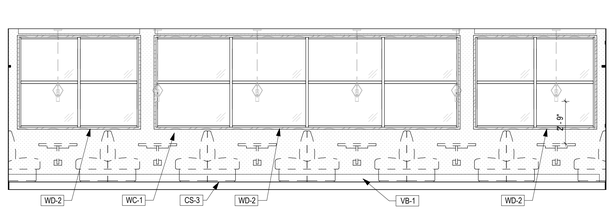
23 ELEVATION
1/4" = 1'-0" @DINING



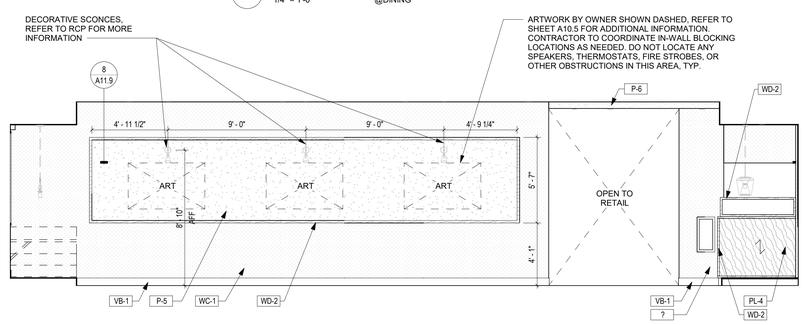
22 ELEVATION
1/4" = 1'-0" @DINING



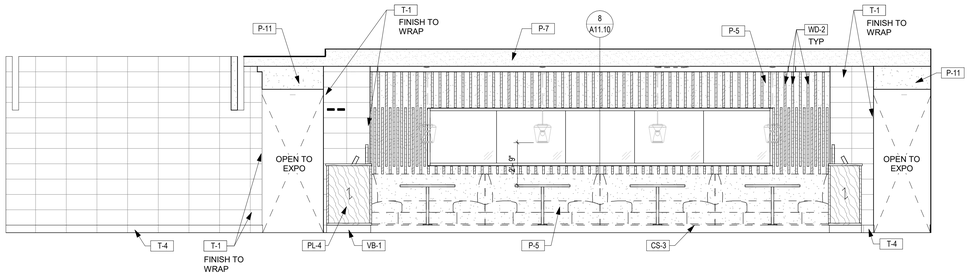
21 ELEVATION
1/4" = 1'-0" @DINING



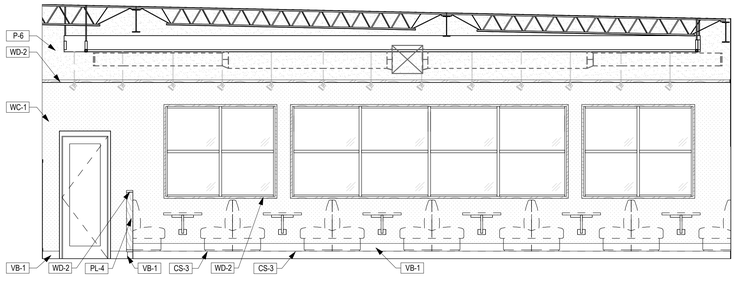
20 ELEVATION
1/4" = 1'-0" @DINING



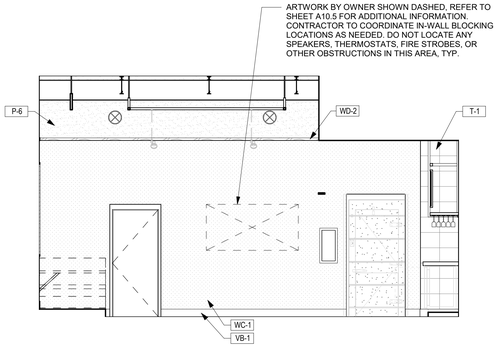
19 ELEVATION
1/4" = 1'-0" @DINING



18 ELEVATION
1/4" = 1'-0" @DINING



17 ELEVATION
1/4" = 1'-0" @BAR



16 ELEVATION
1/4" = 1'-0" @BAR

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REVISIONS

STATE OF MISSOURI
DANIEL PAUL BERNATEK
NUMBER A-2010026259
ARCHITECT
8/19/21
EXP 12/31/22

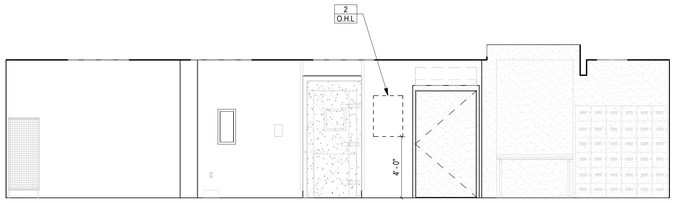
Drawing Title
INTERIOR ELEVATIONS

Job No.	Drawn
204530	Author

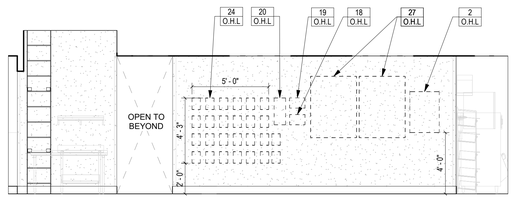
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Sheet No.
A10.2

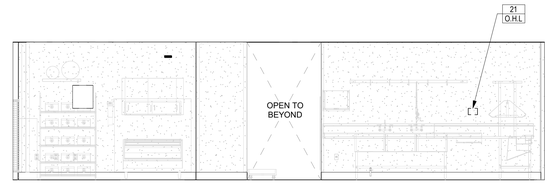
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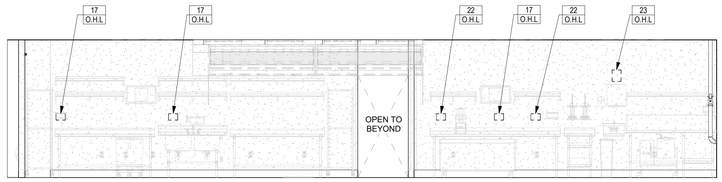
41 ELEVATION
1/4" = 1'-0" @RECEIVING AREA



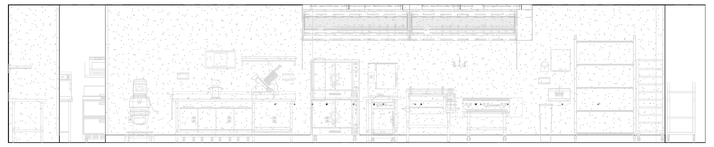
40 ELEVATION
1/4" = 1'-0" @RECEIVING AREA



39 ELEVATION
1/4" = 1'-0" @DISHWASH



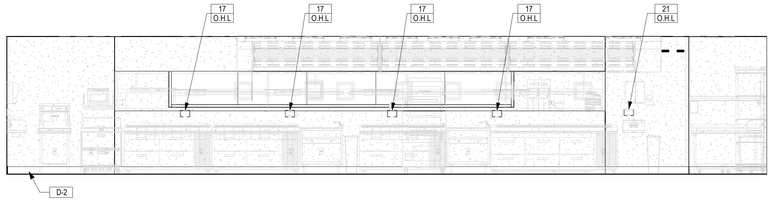
38 ELEVATION
1/4" = 1'-0" @PREP



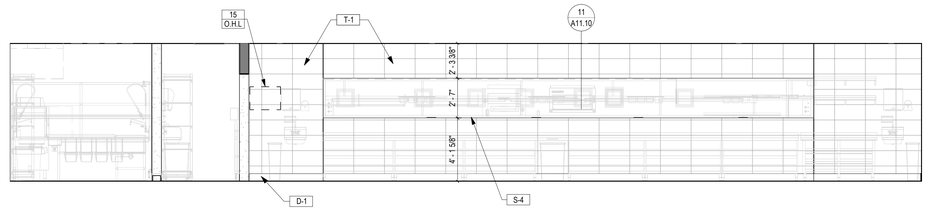
37 ELEVATION
1/4" = 1'-0" @PREP



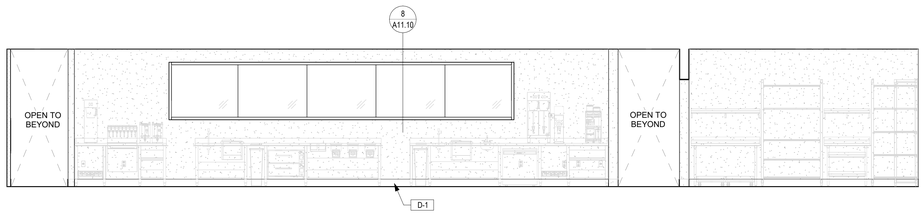
36 ELEVATION
1/4" = 1'-0" @COOKLINE



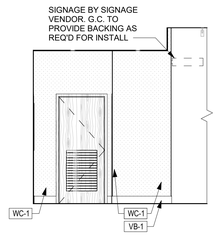
35 ELEVATION
1/4" = 1'-0" @COOKLINE



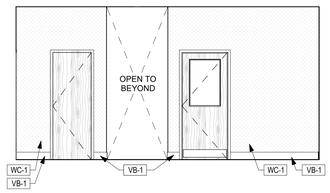
34 ELEVATION
1/4" = 1'-0" @EXPO



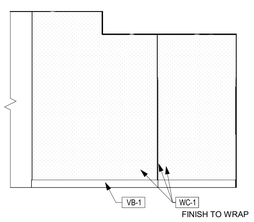
33 ELEVATION
1/4" = 1'-0" @EXPO



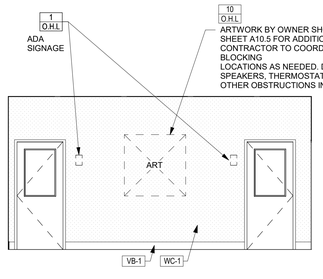
32 ELEVATION
1/4" = 1'-0" @TOILET COORIDOR



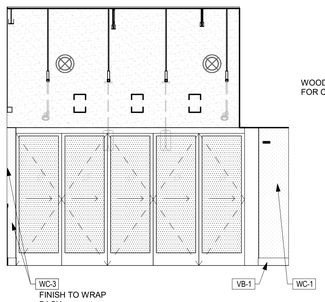
31 ELEVATION
1/4" = 1'-0" @TOILET COORIDOR



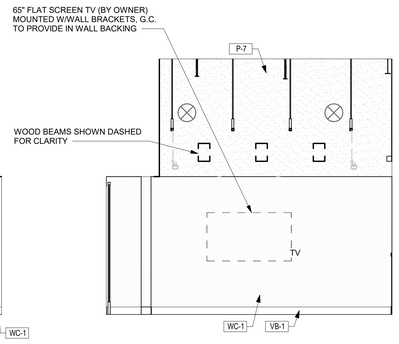
30 ELEVATION
1/4" = 1'-0" @TOILET COORIDOR



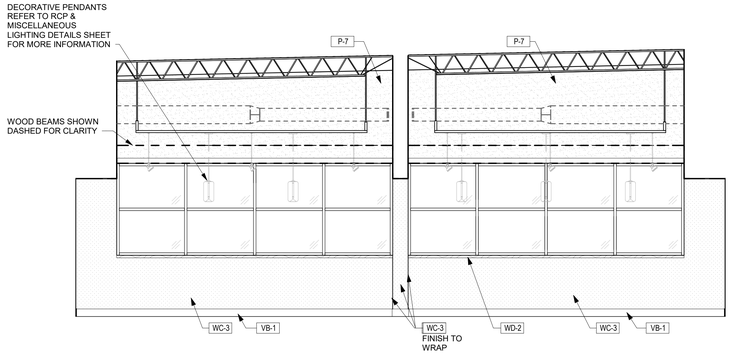
29 ELEVATION
1/4" = 1'-0" @TOILET COORIDOR



28 ELEVATION
1/4" = 1'-0" @ PINOT NOIR ROOM



27 ELEVATION
1/4" = 1'-0" @ PINOT NOIR ROOM



26 ELEVATION
1/4" = 1'-0" @ PINOT NOIR ROOM

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DANIEL PAUL BERNATEK
NUMBER A-2010026239
ARCHITECT
8/19/21
EXP 12/31/22

Drawing Title
INTERIOR ELEVATIONS

Job No.	Drawn
204530	JC
Scale	Date
1/4" = 1'-0"	08/19/2021

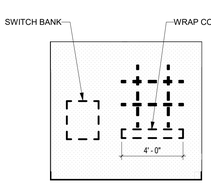
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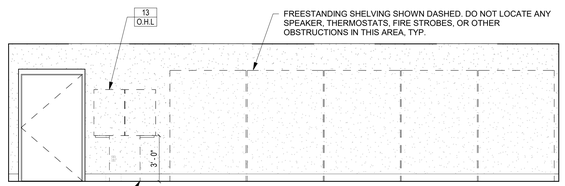
OWNER HANGING LIST

REFER TO NOTES FOR WHO PROVIDES, GENERAL CONTRACTOR TO INSTALL U.N.O.

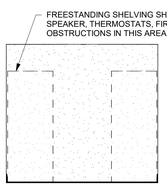
TAG	LOCATION	ACTION	DRAWING ACTION	NOTES
ADA SIGNAGE				
1 OHL	EMPLOYEE RESTROOMS	INSTALL ADA RESTROOM SIGNAGE	REFER TO A8.1	GC TO PROVIDE
SIGNAGE				
2 OHL	EMPLOYEE BREAK AREA, BACK DOOR & OFFICE DOOR BELOW OPTIC VIEWER	INSTALL "WE CREATE COMMUNITY" SIGNAGE	REFER TO NOTED FLOOR PLAN & A8.1	WILL BE IN STORAGE CONTAINER
HANG SCREWS FOR (6) CLIP BOARDS				
4 OHL	OFFICE	HANG SCREWS FOR CLIP BOARDS	REFER TO SHEET A8.1	1 SCREW PER CLIPBOARD, WILL BE IN STORAGE CONTAINER
FIRST AID KIT				
5 OHL	OFFICE	MOUNT FIRST AID KIT	REFER TO SHEET A8.1	WILL BE IN STORAGE CONTAINER
KEY CABINET				
6 OHL	OFFICE	INSTALL KEY BOX	REFER TO SHEET 18.1	WILL BE IN STORAGE CONTAINER
BLACK MESH 3-TIER BASKET (4 TOTAL)				
7 OHL	OFFICE @EACH COMPUTER STATION	HANG 3-TIER BASKET	REFER TO SHEET A8.1	WILL BE IN STORAGE CONTAINER
ARTWORK				
10 OHL	EVERYWHERE	ARTWORK	REFER TO INTERIOR ELEVATIONS	SUPPLIED BY OWNER, ASK PM
YELLOW TUBE FOR FLOOR SIGNAGE				
12 OHL	PREP, TASTING AREA, BAR, BATHROOM STORAGE, EXPO, WRAP ROOM	HANG WET FLOOR TUBES	REFER TO NOTED FLOOR PLAN & INTERIOR ELEVATIONS	PROVIDED BY OWNER
24 X 36 CORK BOARD (2)				
13 OHL	WRAPPING ROOM	HANG CORK BOARD	REFER TO INTERIOR ELEVATIONS	WILL BE IN STORAGE CONTAINER
11 X 14 DRY ERASE BOARD				
14 OHL	WRAPPING ROOM	WRAPPING ROOM	REFER TO INTERIOR ELEVATIONS	PROVIDED BY OWNER
18 X 24 DRY ERASE BOARD				
15 OHL	EXPO	HANG 86 BOARD	REFER TO INTERIOR ELEVATIONS	WILL BE IN STORAGE CONTAINER
UTILITY HOOK				
16 OHL	PREP LINE	HANG TURBO COOP HOOK	REFER TO INTERIOR ELEVATIONS	BEHIND STAND MIXER, 48" AFF
SS GLOVE DISPENSER HOLDER				
17 OHL	COOKLINE, EXPO, RECEIVING, PREP	HANG GLOVE DISPENSER HOLDER	REFER TO INTERIOR ELEVATIONS & NOTED FLOOR PLAN	ASK PM
RECTANGLE BLACK MESH BASKET				
18 OHL	BY EMPLOYEE BREAK AREA	HANG RECTANGLE BASKET	REFER TO INTERIOR ELEVATIONS	WILL BE IN STORAGE CONTAINER
1 SCREW ANCHORED INTO WALL FOR CLIPBOARD				
19 OHL	BY EMPLOYEE BREAK AREA	HANG SCREWS FOR CLIP BOARDS	REFER TO INTERIOR ELEVATIONS	WILL BE IN STORAGE CONTAINER
CLEAR PLASTIC BROCHURE HOLDER				
20 OHL	BY EMPLOYEE BREAK AREA	HANG CLEAR PLASTIC BROCHURE	REFER TO INTERIOR ELEVATIONS	WILL BE IN STORAGE CONTAINER
WHITE CAGE FOR SANITIZER WIPES				
21 OHL	COOKLINES (2) DISH (1) BACK DOOR (1)	HANG HAND SANITIZER CAGES	REFER TO INTERIOR ELEVATIONS & NOTED FLOOR PLAN	ASK PM
INSTALL 3 SCREWS FOR CLIPBOARDS INTO WALL WITH ANCHORS				
22 OHL	PREP KITCHEN	HANG SCREWS FOR CLIPBOARD	REFER TO INTERIOR ELEVATIONS	WILL BE IN STORAGE CONTAINER
CLOCKS				
23 OHL	PREP KITCHEN	HANG TWO CLOCKS	REFER TO NOTED FLOOR PLAN	WILL BE IN STORAGE CONTAINER
26 SCREWS FOR CLIP BOARDS INTO WALL WITH ANCHORS				
24 OHL	RECEIVING	INSTALL SCREWS FOR CLIP BOARDS	REFER TO INTERIOR ELEVATIONS	WILL BE IN STORAGE CONTAINER
BLACK MESH BASKET				
25 OHL	RECEIVING	HANG MESH BASKET	REFER TO NOTED FLOOR PLAN	WILL BE IN STORAGE CONTAINER
LOCKING MAIL BOX				
26 OHL	RECEIVING	INSTALL LOCKING INVOICE BOX	REFER TO NOTED FLOOR PLAN	WILL BE IN STORAGE CONTAINER
36 X 48 CORK BOARDS (2)				
27 OHL	EMPLOYEE BREAK AREA	INSTALL EMPLOYEE COMMUNICATION BOARDS	REFER TO INTERIOR ELEVATIONS	WILL BE IN STORAGE CONTAINER
HOOKS (3 TOTAL)				
28 OHL	LEFTOVER STATION	HANG HOOKS OVER LEFTOVER STATION	REFER TO NOTED FLOOR PLAN	WILL BE IN STORAGE CONTAINER - 15" ABOVE COUNTER (3)
LICENSE PICTURE FRAMES				
29 OHL	HOST STAND AREA & TASTING AREA	HANG LICENSE FRAMES	REFER TO NOTED FLOOR PLAN	COMES FROM PM
CAN OPENER				
30 OHL	PREP AREA	INSTALL CAN OPENER ON COUNTER	REFER TO INTERIOR ELEVATIONS	INSTALLED BY KEC, ASK PM
KNIFE RACK				
31 OHL	PREP AREA	INSTALL KNIFE HOLDERS	REFER TO INTERIOR ELEVATIONS	INSTALLED BY KEC, ASK PM
PADDLE HOLDER				
32 OHL	ICE MACHINE WALL	HANG ICE PADDLE HOLDER	REFER TO NOTED FLOOR PLAN	COME WITH ICE MACHINE SUPPLIED BY OWNER, ASK PM
BROOM RACK				
33 OHL	MOP AREA	HANG MOP RACK	REFER TO NOTED FLOOR PLAN	SUPPLIED BY KEC, GC TO COORDINATE, ASK PM
AIR FRESHENERS TEST STRIPS, MSDS BOOKS				
34 OHL	DISH ROOM, BATHROOMS, MOP SINK	ECO LAB TO HANG ITEMS: TEST STRIPS IN DISH MACHINE, MSDS BOOK @ MOP SINK & AIR FRESHENERS IN BATHROOMS	REFER TO SHEET A8.1 & NOTED FLOOR PLAN	ECO LAB TO SUPPLY BY OWNER, ASK PM



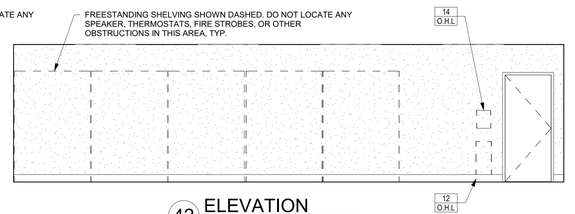
45 ELEVATION
1/4" = 1'-0" @WRAP ROOM



44 ELEVATION
1/4" = 1'-0" @WRAP ROOM



43 ELEVATION
1/4" = 1'-0" @WRAP ROOM



42 ELEVATION
1/4" = 1'-0" @WRAP ROOM

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DANIEL PAUL BERNATEK
NUMBER A-2010026259
ARCHITECT
8/19/21
EXP 12/31/22

Drawing Title
INTERIOR ELEVATIONS

Job No.	Drawn
204530	Author

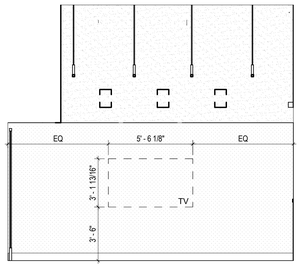
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Sheet No.
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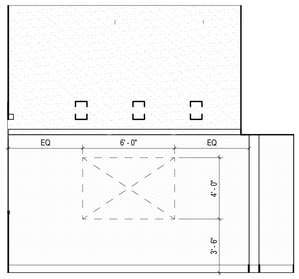
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GENERAL NOTES

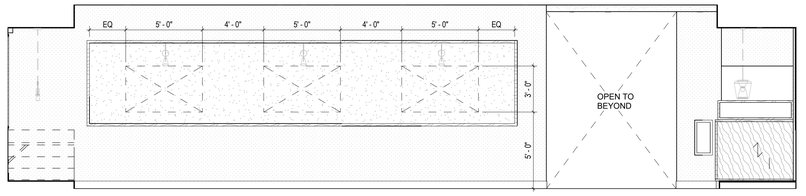
1. ALL ARTWORK TO BE INSTALLED WITH SECURITY HARDWARE.



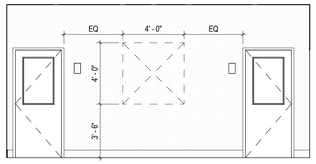
6 ELEVATION
1/4" = 1'-0" @PINOT NOIR ROOM



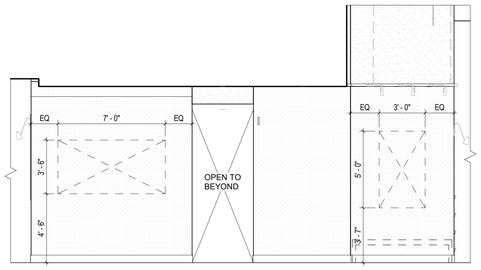
5 ELEVATION
1/4" = 1'-0" @CHARDONNAY ROOM



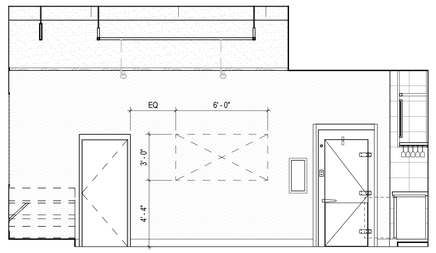
8 ELEVATION
1/4" = 1'-0" @DINING



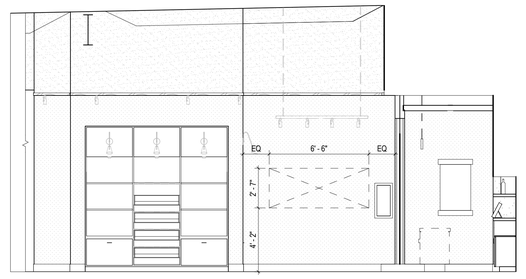
7 ELEVATION
1/4" = 1'-0" @TOILET COORIDOR



3 ELEVATION
1/4" = 1'-0" @WAITING AREA



4 ELEVATION
1/4" = 1'-0" @BAR



2 ELEVATION
1/4" = 1'-0" @RETAIL

ARTWORK SCHEDULE

IMAGE	TAG	Location	WEBSITE	IMAGE NAME	IMAGE NUMBER	SIZE	MEDIA	NOTES	ARCH SHEETS
	DA-1	RETAIL		THE PROCESS OF WINEMAKING		6'-6"W X 2'-7"H	1.5" STRETCH CANVAS W/ ACOUSTIC INFILL	ARTWORK TO BE REVISED BY OWNER TO BE ON A SINGLE CANVAS; IMAGE SHOWN IS A PLACEHOLDER	REFER TO ELEV. 6 ON SHEET A10.1
	DA-2	BAR DINING	ISTOCK	SCENIC TUSCANY LANDSCAPE AT SUNRISE	488356904	6'W X 3'H	1.5" STRETCH CANVAS W/ ACOUSTIC INFILL	OWNER PROVIDED IMAGE / IMAGE CROPPED	REFER TO ELEV. 16 ON SHEET A10.2
	DA-3	WAITING	ISTOCK	THE WINE CELLAR PATH	494899718	3'W X5'H	1.5" STRETCH CANVAS W/ ACOUSTIC INFILL	OWNER PROVIDED IMAGE / IMAGE CROPPED	REFER TO ELEV. 11 ON SHEET A10.1
	DA-4	RESTROOM CORRIDOR	SHUTTERSTOCK	AUTUMN IN NORTHERN ITALY REGION CALLED LANGHE WITH COLORFUL VINEYARDS	511847734	4'W X 4'H	1.5" STRETCH CANVAS W/ ACOUSTIC INFILL	OWNER PROVIDED IMAGE / IMAGE CROPPED	REFER TO ELEV. 29 ON SHEET A10.3
	DA-5	BARREL RESERVE		CUSTOM PRINTED WINEBELT ARTWORK		7'W X 3'-6"H	3MM DIBOND		REFER TO ELEV. 11 ON SHEET A10.1
	DA-6	DINING AREA	DEPOSITPHOTOS	TUSCANY LANDSCAPE PANORAMA	99899770	5'W X 3'H	1.5" STRETCH CANVAS W/ ACOUSTIC INFILL	OWNER PROVIDED IMAGE / IMAGE CROPPED	REFER TO ELEV. 19 ON SHEET A10.2
	DA-7	DINING AREA	DEPOSITPHOTOS	TUSCANY LANDSCAPE PANORAMA	99899770	5'W X 3'H	1.5" STRETCH CANVAS W/ ACOUSTIC INFILL	OWNER PROVIDED IMAGE / IMAGE CROPPED	REFER TO ELEV. 19 ON SHEET A10.2
	DA-8	DINING AREA	DEPOSITPHOTOS	TUSCANY LANDSCAPE PANORAMA	99899770	5'W X 3'H	1.5" STRETCH CANVAS W/ ACOUSTIC INFILL	OWNER PROVIDED IMAGE / IMAGE CROPPED	REFER TO ELEV. 19 ON SHEET A10.2
	DA-9	PRIVATE DINING	ISTOCK	VINEYARD SUNSET	978754758	6'H X 4'H	1.5" STRETCH CANVAS W/ ACOUSTIC INFILL	OWNER PROVIDED IMAGE / IMAGE CROPPED	REFER TO ELEV. 25 ON SHEET A10.2
	DA-10								REFER TO ELEV. 27 ON SHEET A10.3

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REVISIONS

STATE OF MISSOURI
DANIEL PAUL BERNATEK
NUMBER A-2010026259
ARCHITECT
8/19/21
EXP 12/31/22

Drawing Title
INTERIOR ARTWORK ELEVATIONS

Job No. 204530
Drawn EU
Scale AS NOTED
Date 08/19/2021

Sheet No.
A10.5

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INTERIOR, NON-STRUCTURAL, COMPOSITE LIMITING HEIGHTS

MEMBER				LATERAL LOAD								
				5 PSF			7.5 PSF			10 PSF		
DEPTH	GAUGE	MILS	SPACING	DEFLECTION LIMIT			DEFLECTION LIMIT			DEFLECTION LIMIT		
				L/120	L/240	L/360	L/120	L/240	L/360	L/120	L/240	L/360
1-5/8"	25	18	12"	11'-2"	8'-10"	6'-7"	9'-9"	6'-7"	5'-9"	8'-10"	6'-0"	5'-3"
			16"	10'-7"	8'-4"	6'-0"	8'-10"†	6'-0"	5'-3"	8'-4"	5'-5"	4'-9"
			24"	9'-9"†	7'-11"	5'-3"	8'-0"†	5'-3"	4'-7"	5'-4"	4'-9"	4'-2"
	20	33	12"	13'-0"	10'-4"	9'-0"	11'-4"	9'-0"	7'-3"	10'-4"	7'-6"	6'-7"
			16"	12'-1"	9'-8"	8'-5"	10'-7"	8'-5"	6'-7"	9'-8"	6'-10"	6'-0"
			24"	11'-0"	8'-9"	7'-8"	9'-7"	7'-8"	5'-9"	8'-9"	6'-0"	5'-3"
2-1/2"	25	18	12"	15'-1"	11'-11"	10'-5"	12'-4"†	10'-5"	9'-1"	10'-9"†	9'-6"	7'-3"
			16"	13'-3"†	11'-3"	9'-10"	10'-10"†	9'-10"	8'-7"	9'-5"†	8'-11"	6'-7"
			24"	11'-10"†	10'-7"	9'-3"	9'-8"†	9'-3"	8'-1"	8'-5"†	8'-5"	5'-9"
	20	33	12"	17'-9"	13'-11"	12'-1"	15'-6"	12'-1"	10'-6"	13'-11"	10'-11"	9'-5"
			16"	16'-5"	12'-10"	11'-2"	14'-4"	11'-2"	9'-8"	12'-10"	10'-0"	8'-8"
			24"	14'-10"	11'-7"	10'-0"	13'-0"	10'-0"	8'-7"	11'-7"	8'-11"	7'-8"
3-5/8"	25	18	12"	17'-8"†	15'-4"	13'-3"	14'-3"†	13'-3"	11'-7"	12'-5"†	12'-5"	10'-5"
			16"	15'-4"†	14'-4"	12'-4"	12'-5"†	12'-5"	10'-10"	10'-9"†	10'-9"†	9'-9"
			24"	13'-9"†	13'-5"	11'-7"	11'-0"†	11'-0"†	10'-1"	9'-5"†	9'-5"†	9'-1"
	20	33	12"	22'-6"	17'-10"	15'-6"	19'-8"	15'-6"	13'-7"	17'-10"	14'-1"	12'-4"
			16"	20'-8"	16'-5"	14'-3"	18'-1"	14'-3"	12'-6"	16'-5"	12'-11"	11'-4"
			24"	18'-6"	14'-9"	12'-9"	16'-2"	12'-9"	11'-2"	14'-9"	11'-7"	10'-1"
4"	25	18	12"	19'-6"†	16'-5"	14'-4"	15'-9"†	14'-4"	12'-6"	13'-8"†	13'-0"	11'-4"
			16"	17'-2"†	15'-4"	13'-4"	13'-10"†	13'-4"	11'-8"	11'-11"†	11'-11"†	10'-6"
			24"	15'-1"†	14'-2"	12'-4"	12'-1"†	12'-1"†	10'-9"	10'-5"†	10'-5"†	9'-9"
	20	33	12"	25'-1"	19'-11"	17'-4"	21'-11"	17'-4"	15'-0"	19'-11"	15'-8"	13'-7"
			16"	23'-1"	18'-4"	15'-11"	20'-2"	15'-11"	13'-9"	18'-4"	14'-5"	12'-6"
			24"	20'-9"	16'-5"	14'-3"	18'-1"	14'-3"	12'-4"	16'-5"	12'-10"	11'-2"
6"	25	18	12"	22'-10"	22'-1"	19'-4"	18'-7"†	18'-7"†	16'-9"	16'-2"†	16'-2"†	15'-0"
			16"	19'-9"†	19'-9"†	17'-11"	16'-2"†	16'-2"†	15'-7"	14'-0"†	14'-0"†	13'-10"
			24"	16'-9"†	16'-9"†	16'-9"†	13'-5"†	13'-5"†	13'-5"†	11'-5"†	11'-5"†	11'-5"†
	20	33	12"	33'-9"	26'-9"	23'-5"	29'-6"	23'-5"	20'-6"	26'-9"	21'-3"	18'-7"
			16"	30'-10"	24'-5"	21'-4"	27'-0"	21'-4"	18'-9"	24'-5"	19'-5"	17'-0"
			24"	27'-2"	21'-7"	18'-10"	23'-10"	18'-10"	16'-7"	19'-1"s	17'-2"	15'-0"

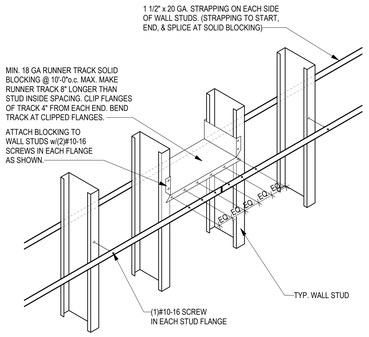
FOOTNOTES:

f - FLEXURAL STRESS CONTROLS ALLOWABLE WALL HEIGHT

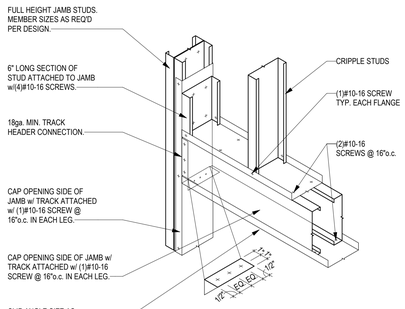
s - SHEAR/WEB CRIPPLING CONTROLS ALLOWABLE WALL HEIGHT

NOTES:

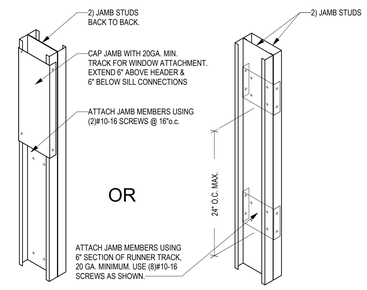
1. COMPOSITE WALL SHEATHED BOTH SIDES FULL HEIGHT WITH 5/8" GYPSUM WALLBOARD FOR 18 AND 33 MIL.
2. SHEATHING ATTACHED WITH #6 SCREWS MIN. AT 12" O.C. MAX.
3. INTERIOR NONLOAD-BEARING PARTITIONS ARE NOT DESIGNED TO CARRY AXIAL LOADS.
4. LIMITING HEIGHTS ARE BASE ON STRESS OR DEFLECTION LIMITS FOR GIVEN LATERAL LOADS.
5. HEIGHT LIMITATIONS DEPEND ON THE GAUGE OF THE STEEL USED, DIMENSIONS OF THE STUD, STUD SPACING AND THE ALLOWABLE DEFLECTION LIMIT.
6. THE COMPOSITE LIMITING HEIGHTS INCLUDE THE CONTRIBUTION OF THE GYPSUM WALLBOARD SHEATHING ON BOTH SIDES OF THE WALL.



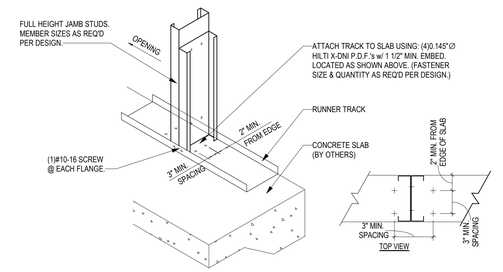
12 STRAPPING LATERAL BRACING
3/4" = 1'-0"



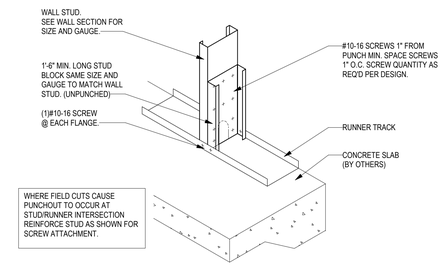
10 BOXED HEADER
3/4" = 1'-0"



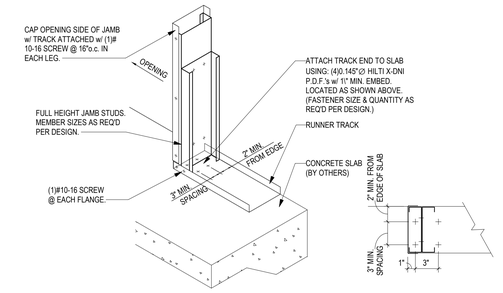
8 TIED JAMB STUDS
3/4" = 1'-0"



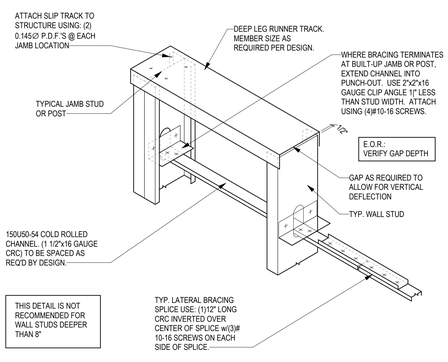
5 WINDOW JAMB ANCHOR
3/4" = 1'-0"



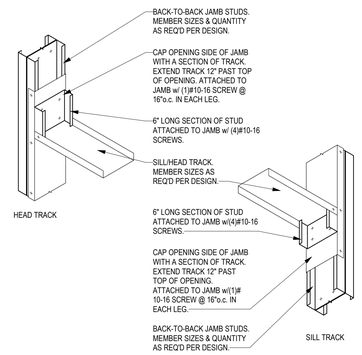
7 REINFORCEMENT AT STUD
3/4" = 1'-0"



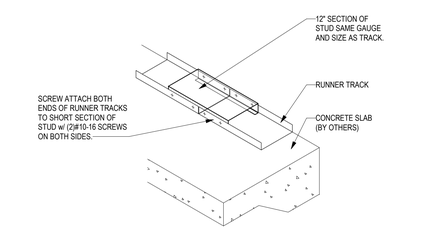
4 DOOR JAMB ANCHOR
3/4" = 1'-0"



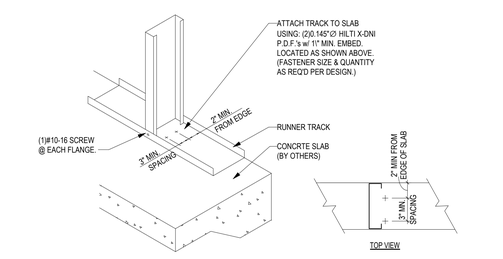
11 CRC LATERAL BRACING
3/4" = 1'-0"



9 SILL/HEAD TRACK CONNECTION
3/4" = 1'-0"



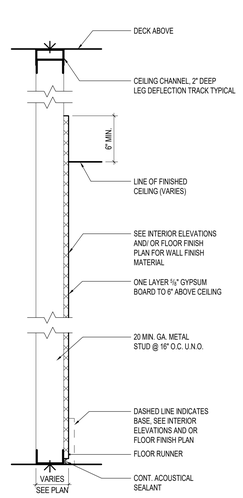
6 BOTTOM TRACK SPLICE
3/4" = 1'-0"



3 STUD TO SLAB DETAIL
3/4" = 1'-0"

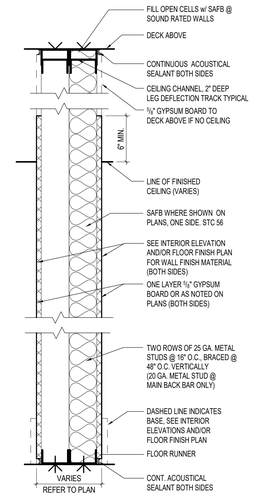
INTERIOR WALL TYPES USED

REFER TO COMPOSITE LIMITING HEIGHTS TABLE FOR METAL STUD BRACING BASED ON SPACING AND GAUGES OF STUDS. REFER TO BRACING DETAILS ON SHEETS A11.2 FOR TYPICAL CONNECTIONS.



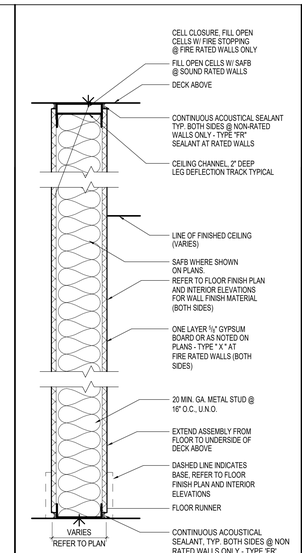
G AS NOTED ABOVE
GS STC RATING = 49

NOTES:
·REFER TO GENERAL NOTES ON SHEET A12.2 FOR LOCATION TO RECEIVE MOISTURE RESISTANT GYP. BD., CEMENT BD. OR CEMENT BASE BD.
·WALL TYPES THAT INCLUDE AN "S" OR "T" SUFFIX INDICATE A SOUND BATT OR THERMAL BATT AS SHOWN IN PLAN



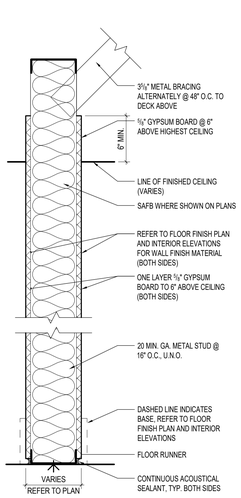
D AS NOTED ABOVE
DS STC RATING = 56 MIN.

NOTES:
·REFER TO GENERAL NOTES ON SHEET A12.2 FOR LOCATION TO RECEIVE MOISTURE RESISTANT GYP. BD., CEMENT BD. OR CEMENT BASE BD.
·WALL TYPES THAT INCLUDE AN "S" OR "T" SUFFIX INDICATE A SOUND BATT OR THERMAL BATT AS SHOWN IN PLAN



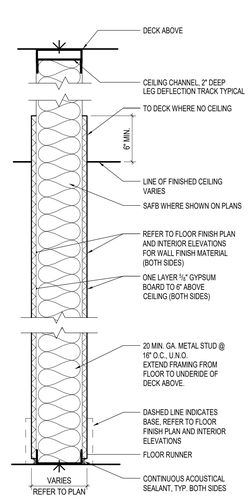
C1 1 HR. RATED - U.L. U465
C NON-RATED AS NOTED ABOVE
C1S 1 HR. RATED - U.L. U465 & STC RATING = 49
CS STC RATING = 49

NOTES:
·REFER TO GENERAL NOTES ON SHEET A12.2 FOR LOCATION TO RECEIVE MOISTURE RESISTANT GYP. BD., CEMENT BD. OR CEMENT BASE BD.
·WALL TYPES THAT INCLUDE AN "S" OR "T" SUFFIX INDICATE A SOUND BATT OR THERMAL BATT AS SHOWN IN PLAN



B AS NOTED ABOVE
BS STC RATING = 49

NOTES:
·REFER TO GENERAL NOTES ON SHEET A12.2 FOR LOCATION TO RECEIVE MOISTURE RESISTANT GYP. BD., CEMENT BD. OR CEMENT BASE BD.
·WALL TYPES THAT INCLUDE AN "S" OR "T" SUFFIX INDICATE A SOUND BATT OR THERMAL BATT AS SHOWN IN PLAN



A AS NOTED ABOVE
AS STC RATING = 49

NOTES:
·REFER TO GENERAL NOTES ON SHEET A12.2 FOR LOCATION TO RECEIVE MOISTURE RESISTANT GYP. BD., CEMENT BD. OR CEMENT BASE BD.
·WALL TYPES THAT INCLUDE AN "S" OR "T" SUFFIX INDICATE A SOUND BATT OR THERMAL BATT AS SHOWN IN PLAN

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REVISIONS

STATE OF MISSOURI
DANIEL PAUL BERNATIS
NUMBER A-2010026259
ARCHITECT
8/19/21
EXP 12/31/22

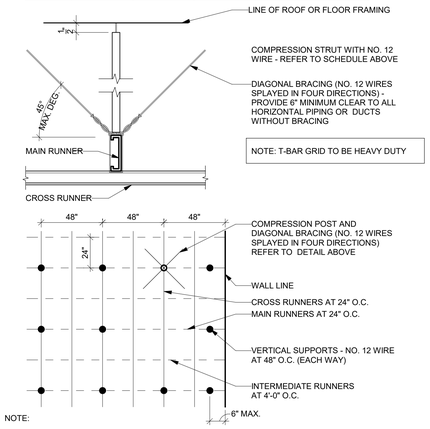
Drawing Title
WALL TYPES & BRACING DETAILS

Job No.	Drawn
204530	Author
Scale	Date
AS NOTED	08/19/2021

Sheet No.
A11.1

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COMPRESSION STRUTS (MAXIMUM LENGTHS)					
ELECTRICAL METALLIC TUBING (EMT)			METAL FRAMING (STUDS)		
DIAMETER	LENGTH	DIAMETER	LENGTH	DIAMETER	LENGTH
1/2"	4'-0"	2"	12'-7"	25 GAUGE	
3/4"	5-2"	2 1/2"	16'-6"	(7/8" FLANGES)	4'-0"
1"	6'-6"	3"	20'-2"	25 GAUGE	
1 1/4"	8'-6"	4"	26'-0"	(1 5/8" FLANGES)	8'-0"
1 1/2"	9'-10"				



NOTE:

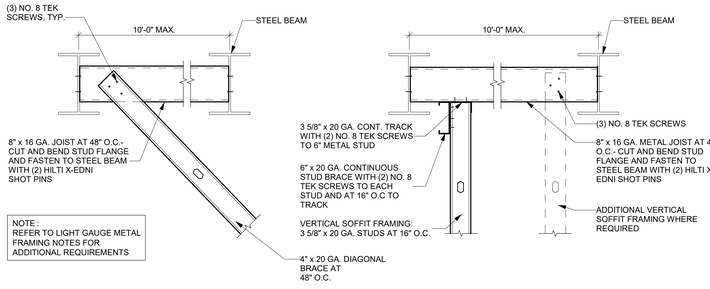
SUPPORT LIGHT FIXTURES INDEPENDENTLY OF CEILING GRID WITH ONE NO. 12 WIRE AT OPPOSITE CORNERS OF FIXTURE (2 WIRES MINIMUM). PROVIDE EARTHQUAKE CLIPS AT AL FLUORESCENT FIXTURES AND NO. 12 HANGERS WITHIN 3" OF EACH CORNER OF EACH FIXTURE

WIRES SHALL BE ATTACHED TO GRID AND STRUCTURE SO THAT WIRES ARE ABLE TO SUPPORT ACTUAL LOAD (200 LBS. MINIMUM) WITH A SAFETY FACTOR OF 2.

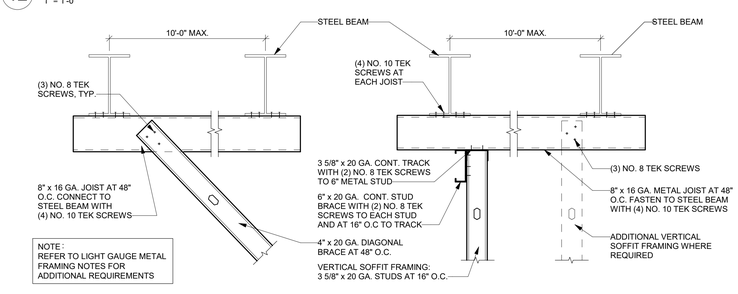
THE HORIZONTAL RESTRAINT POINTS SHALL BE PLACED 12' O.C. IN BOTH DIRECTIONS WITH THE FIRST POINT WITHIN 6' OF EACH WALL. ATTACHMENT OF RESTRAINT WIRES TO THE STRUCTURE ABOVE SHALL BE ADEQUATE FOR THE LOAD IMPOSED.

SUSPENDED CEILING SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE PROVISION OF ASTM C 635, ASTM C 636, AND ASTM E580 SECTION 5.

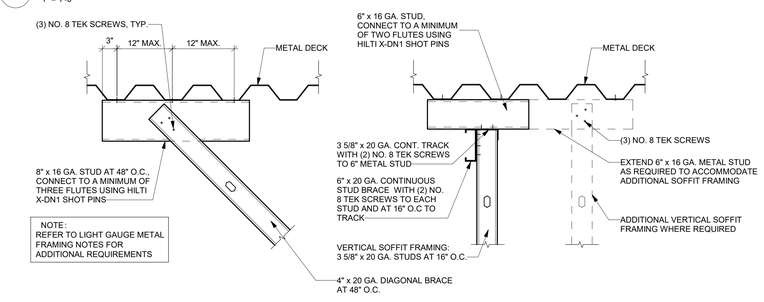
13 SUSPENDED CEILING BRACING
1/4" = 1'-0"



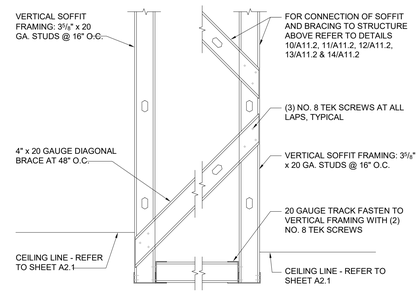
12 SOFFIT CONNECTION TO STEEL BEAM WEB
1" = 1'-0"



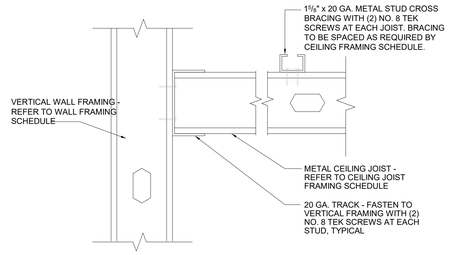
11 SOFFIT CONNECTION TO STEEL BEAM FLANGE
1" = 1'-0"



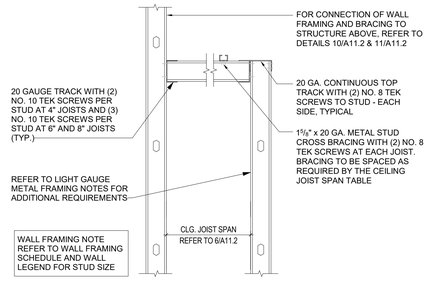
10 SOFFIT CONNECTION TO METAL DECK
1" = 1'-0"



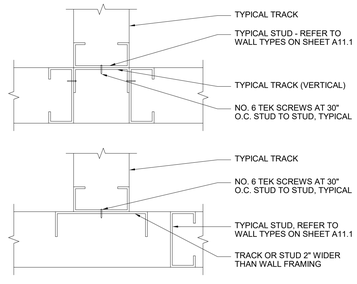
9 SUSPENDED SOFFIT FRAMING
1" = 1'-0"



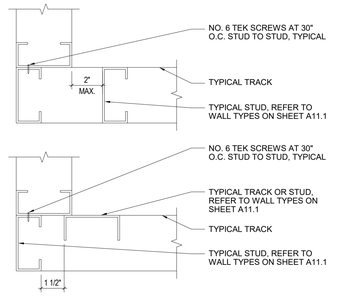
8 JOIST TO WALL CONNECTION
3" = 1'-0"



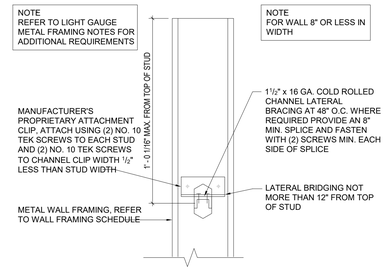
7 CEILING JOIST FRAMING
1" = 1'-0"



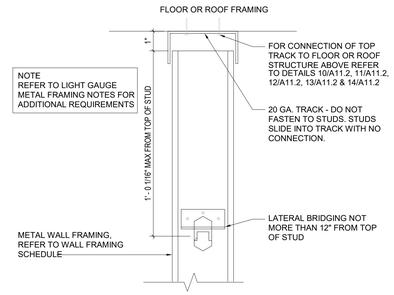
6 WALL INTERSECTION FRAMING
3" = 1'-0"



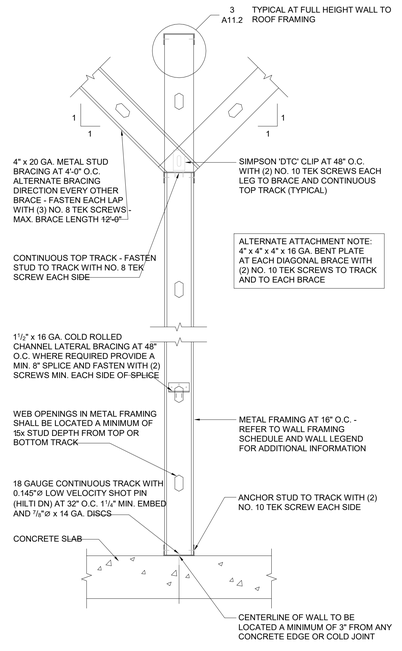
5 WALL CORNER FRAMING
3" = 1'-0"



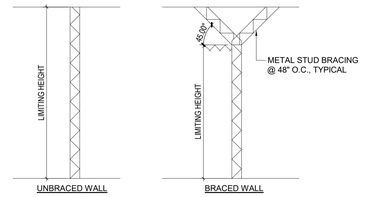
4 TYP. LATERAL BRACING
3" = 1'-0"



3 WALL TOP TRACK CONNECTION
3" = 1'-0"



2 TYP. WALL BRACING
N.T.S.



1 WALL FRAMING SCHEDULE
N.T.S.

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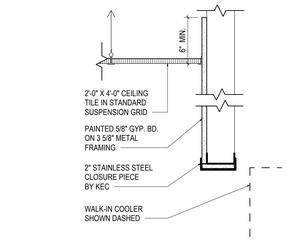
STATE OF MISSOURI
DANIEL PAUL BERNATEK
NUMBER A-2010026259
ARCHITECT
8/19/21
EXP 12/31/22

Drawing Title: BRACING DETAILS

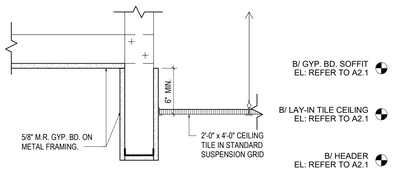
Job No.	Drawn
204530	Author
Scale	Date
AS NOTED	08/19/2021

Sheet No. A11.2

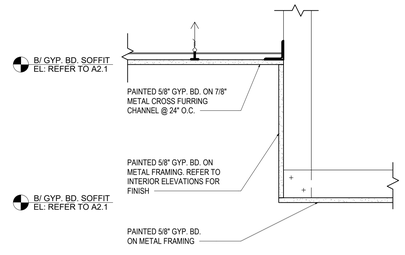
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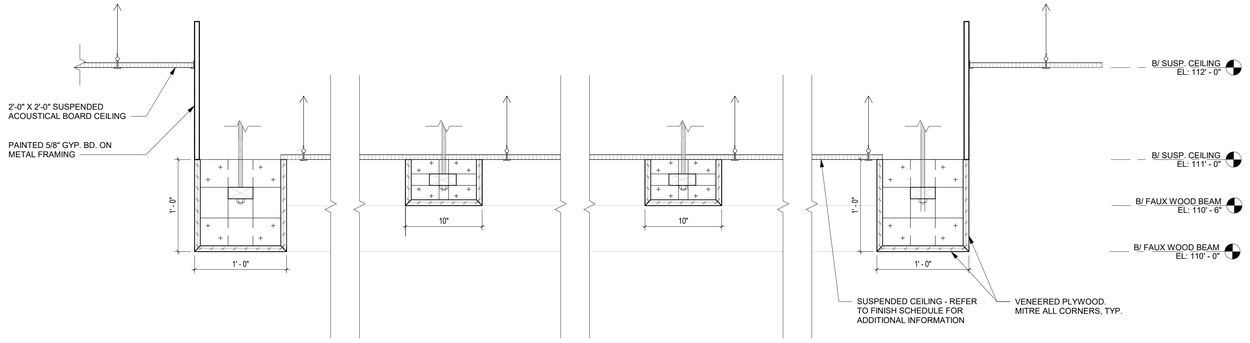
4 WALK-IN COOLER HEADER
1 1/2" = 1'-0"



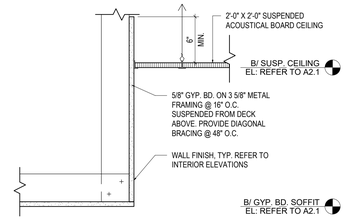
3 GYP.BD / AC TILES
1 1/2" = 1'-0"



2 GYP. BD CEILING / GYP. BD CEILING
1 1/2" = 1'-0"



5 WOOD CEILING DETAIL
1 1/2" = 1'-0"



1 CEILING DETAIL
1 1/2" = 1'-0"

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CEILING DETAILS

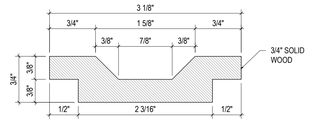
Job No.	Drawn
204530	EN

Scale	Date
1 1/2" = 1'-0"	08/19/2021

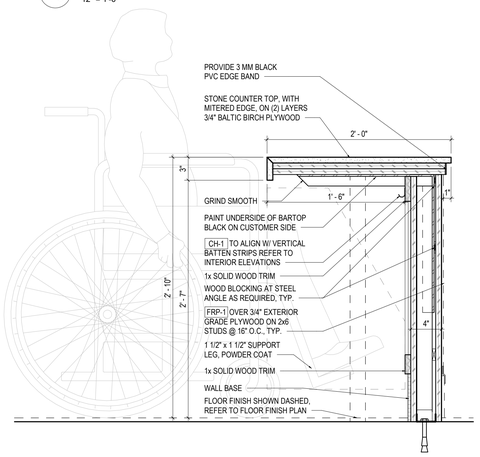
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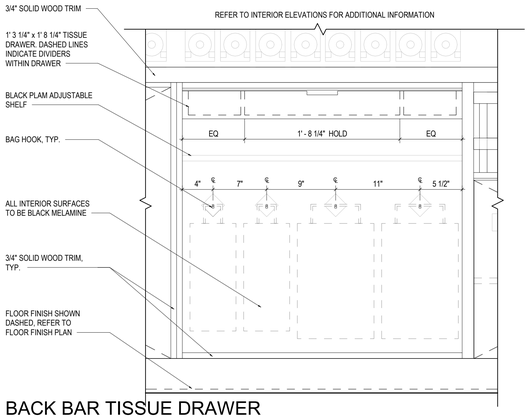
1. ALL WOOD TO BE WD-1 UNLESS NOTED OTHERWISE
2. ALL WOOD VENEER TO BE WV-1 UNLESS NOTED OTHERWISE
3. ALL STONE TO BE S-1 UNLESS NOTED OTHERWISE



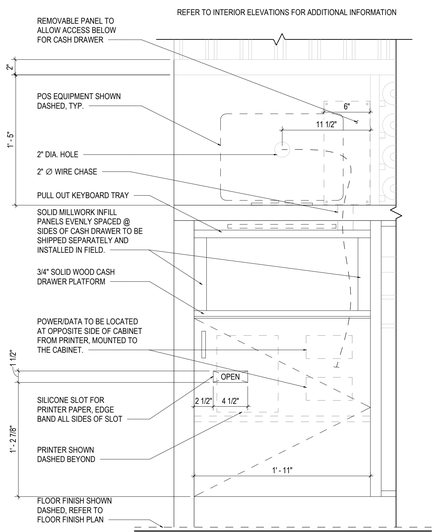
10 BOTTLE CRADLE DETAIL
1/2" = 1'-0"



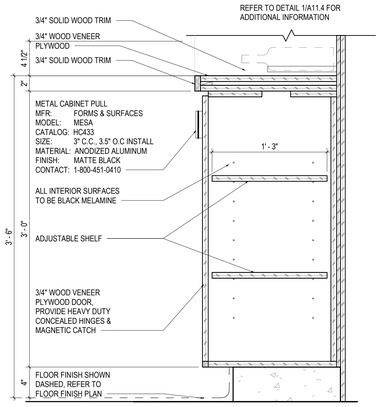
9 ADA COUNTER SECTION
1 1/2" = 1'-0"



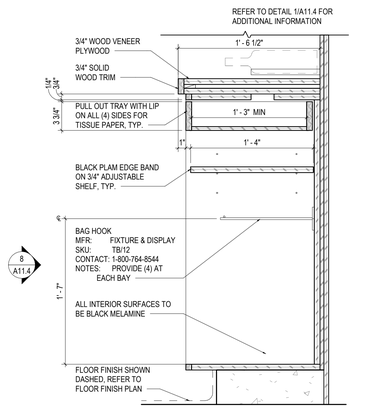
BACK BAR TISSUE DRAWER & BAG HOOK ELEVATION
8 1 1/2" = 1'-0"



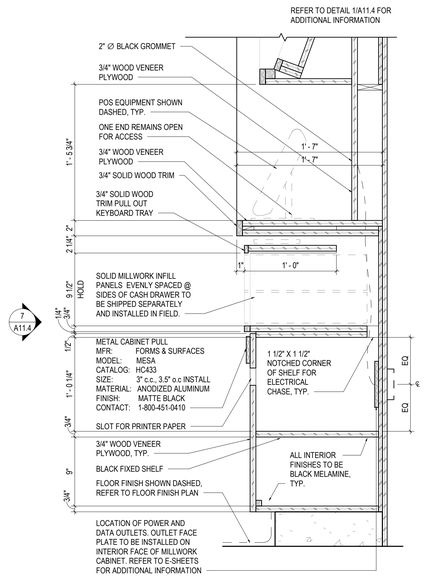
7 POS ELEVATION
1 1/2" = 1'-0"



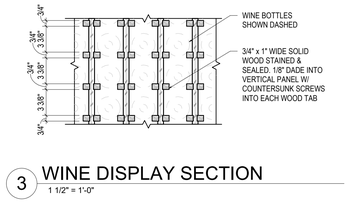
6 CABINET DOOR
1 1/2" = 1'-0"



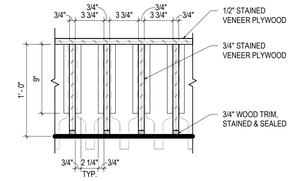
5 BAG HOOK DETAIL
1 1/2" = 1'-0"



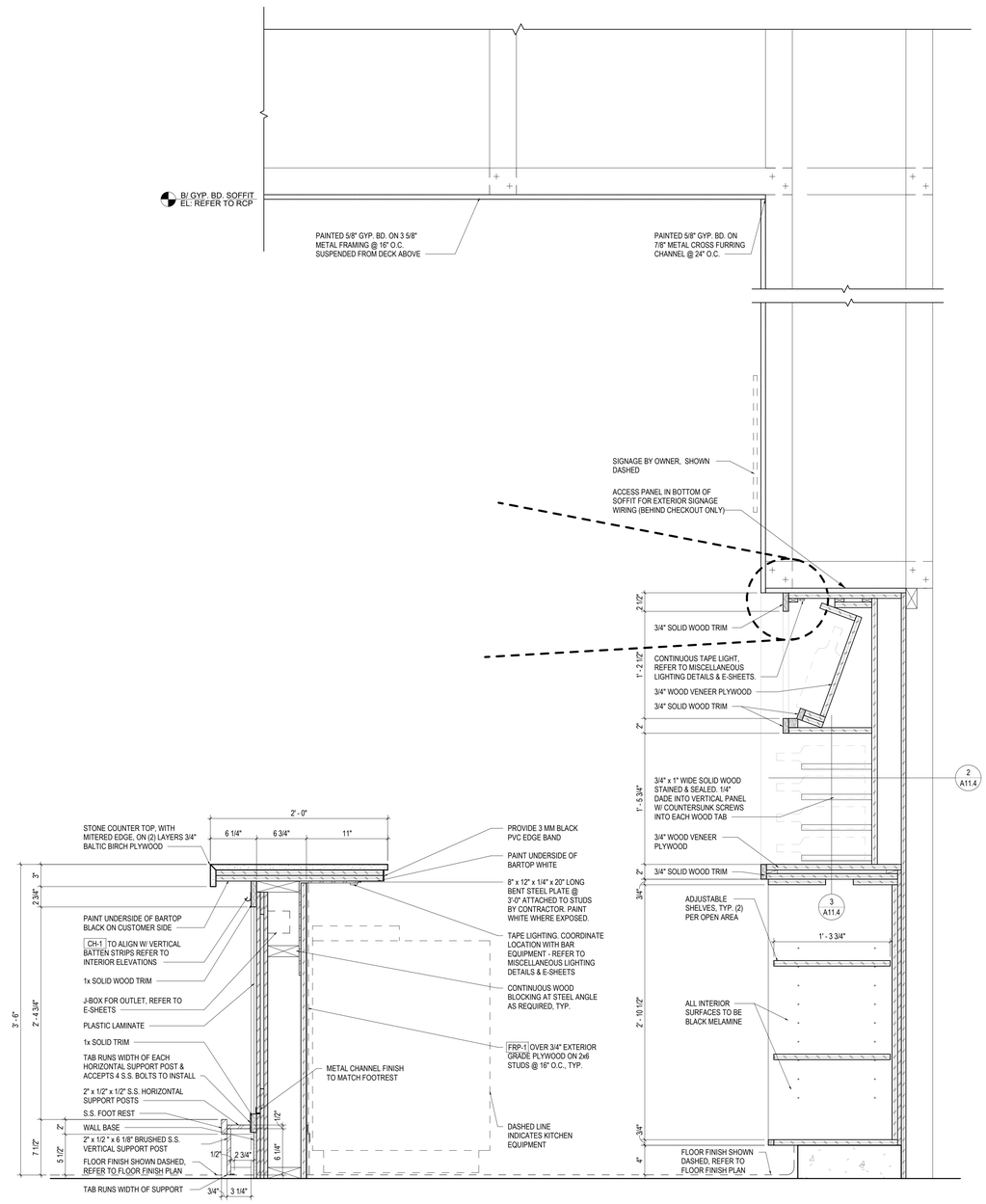
4 POS SECTION
1 1/2" = 1'-0"



3 WINE DISPLAY SECTION
1 1/2" = 1'-0"



2 WINE DISPLAY PLAN SECTION
1 1/2" = 1'-0"



1 TASTING BAR SECTION
1 1/2" = 1'-0"

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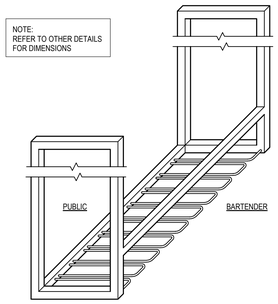
Drawing Title
TASTING BAR SECTIONS & DETAILS

Job No.	Drawn
204530	Author
Scale	Date
As indicated	08/19/2021

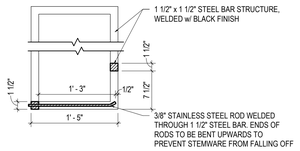
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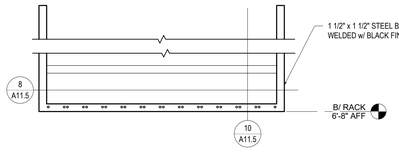
NOTE:
REFER TO OTHER DETAILS
FOR DIMENSIONS



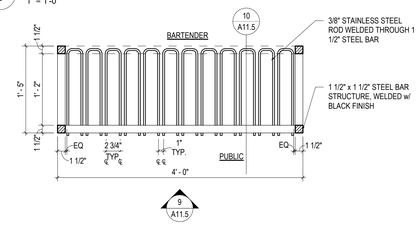
11 WINE GLASS RACK AXON
1" = 1'-0"



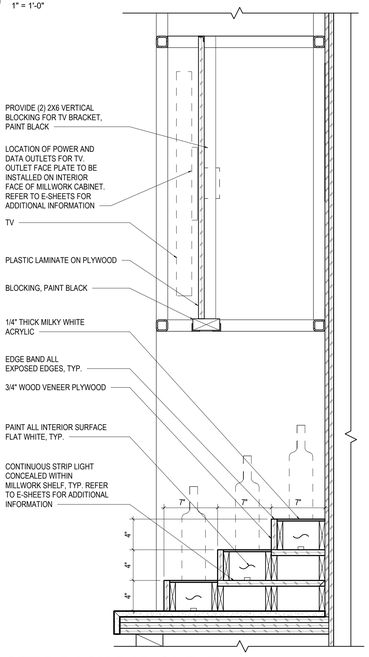
10 WINE GLASS RACK SECTION
1" = 1'-0"



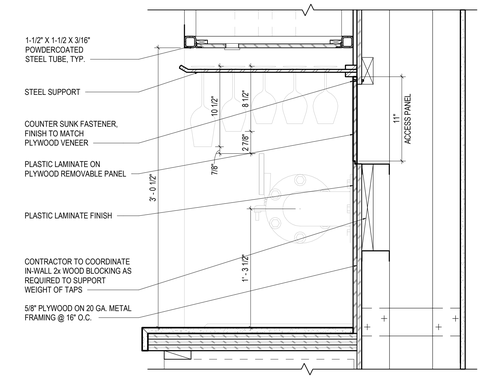
9 WINE GLASS RACK ELEVATION
1" = 1'-0"



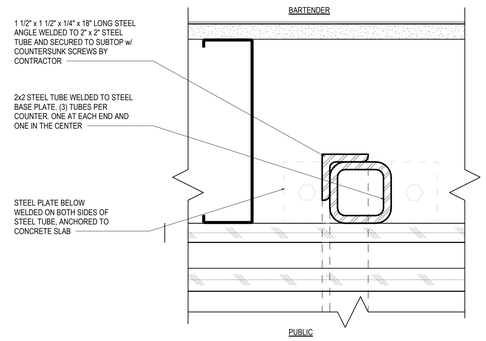
8 WINE GLASS RACK PLAN
1" = 1'-0"



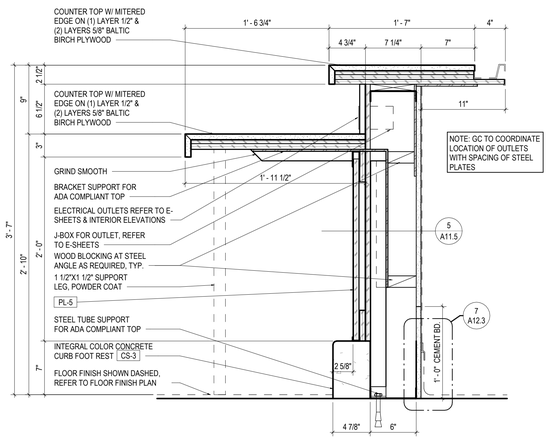
7 STEP BACK BAR SHELF
1 1/2" = 1'-0"



6 BACK BAR SECTION @ WINE TAPS
1 1/2" = 1'-0"

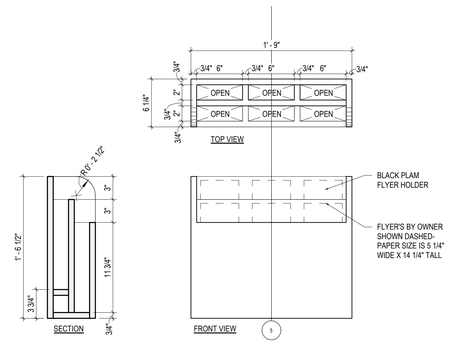


5 ADA BAR SUPPORT
6" = 1'-0"

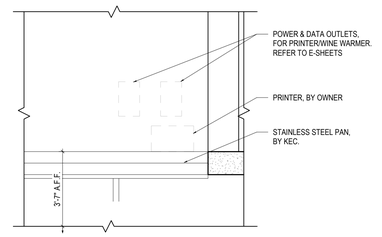


4 BAR (H.C.) SECTION
1 1/2" = 1'-0"

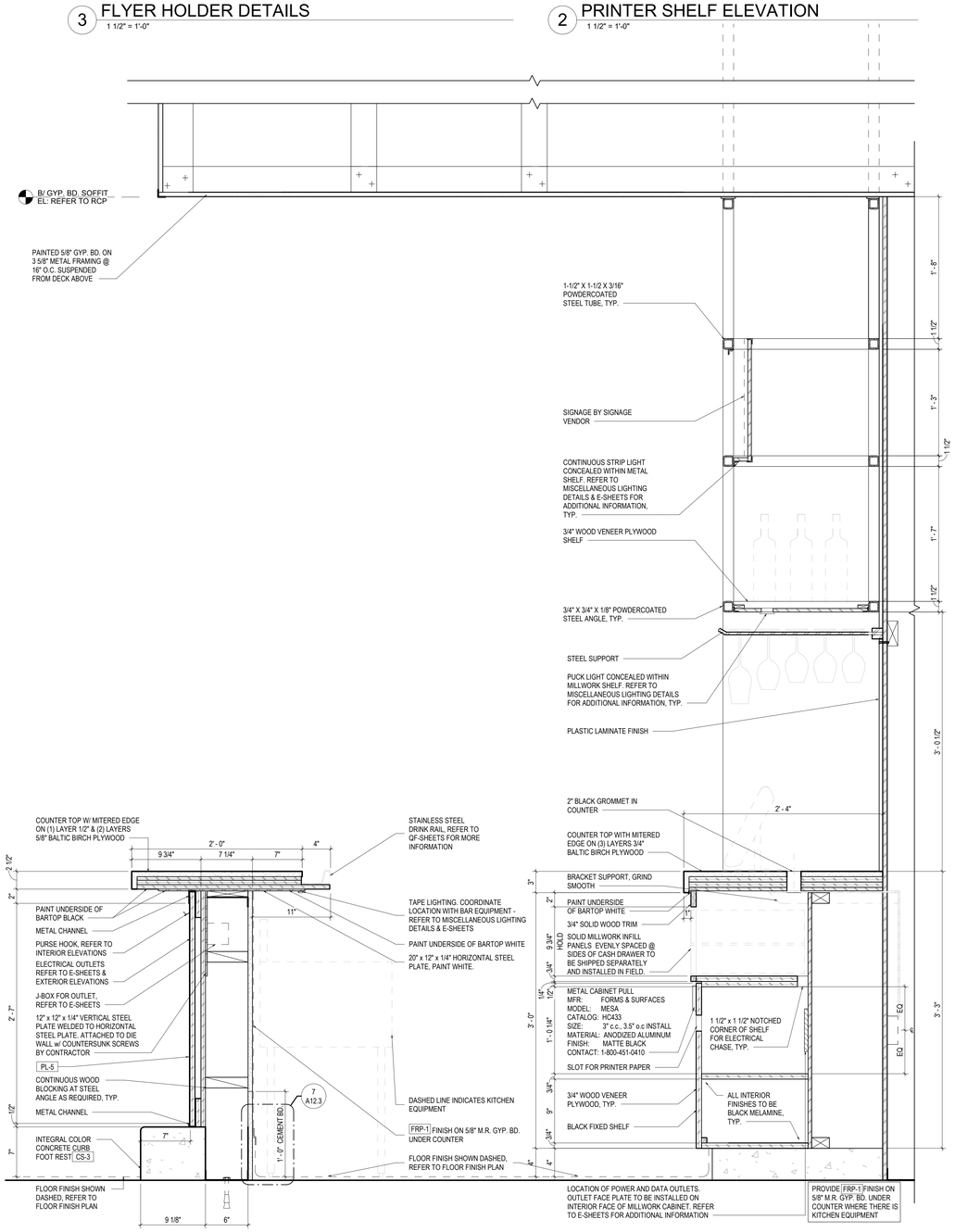
1. ALL WOOD TO BE WD-2 UNLESS NOTED OTHERWISE
2. ALL WOOD VENEER TO BE WV-2 UNLESS NOTED OTHERWISE
3. ALL STONE TO BE S-2 UNLESS NOTED OTHERWISE



3 FLYER HOLDER DETAILS
1 1/2" = 1'-0"



2 PRINTER SHELF ELEVATION
1 1/2" = 1'-0"



1 BAR SECTION
1 1/2" = 1'-0"

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Drawing Title
BAR SECTIONS & DETAILS

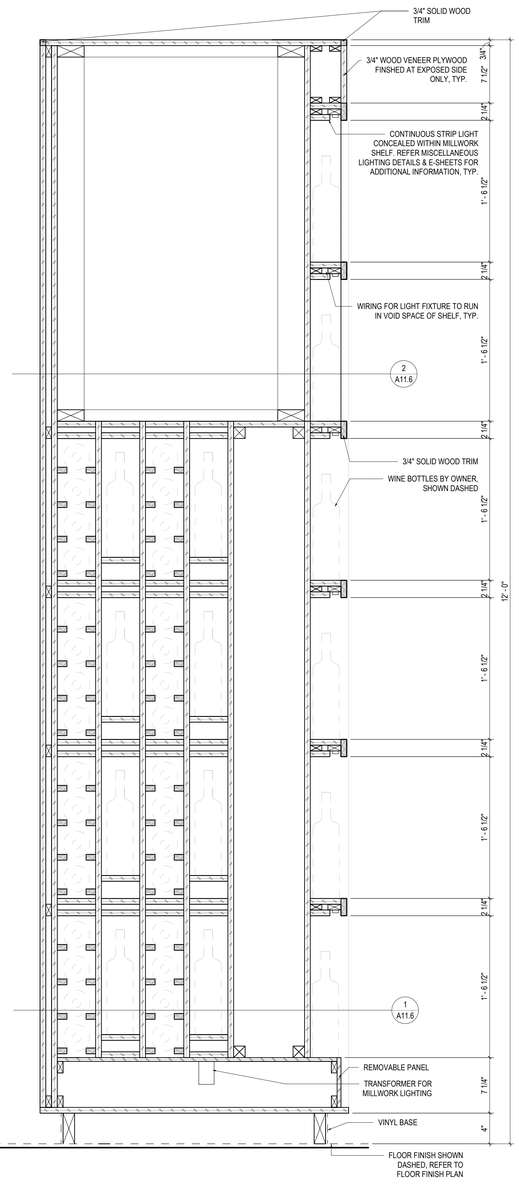
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204530	Author

Scale	Date
As indicated	08/19/2021

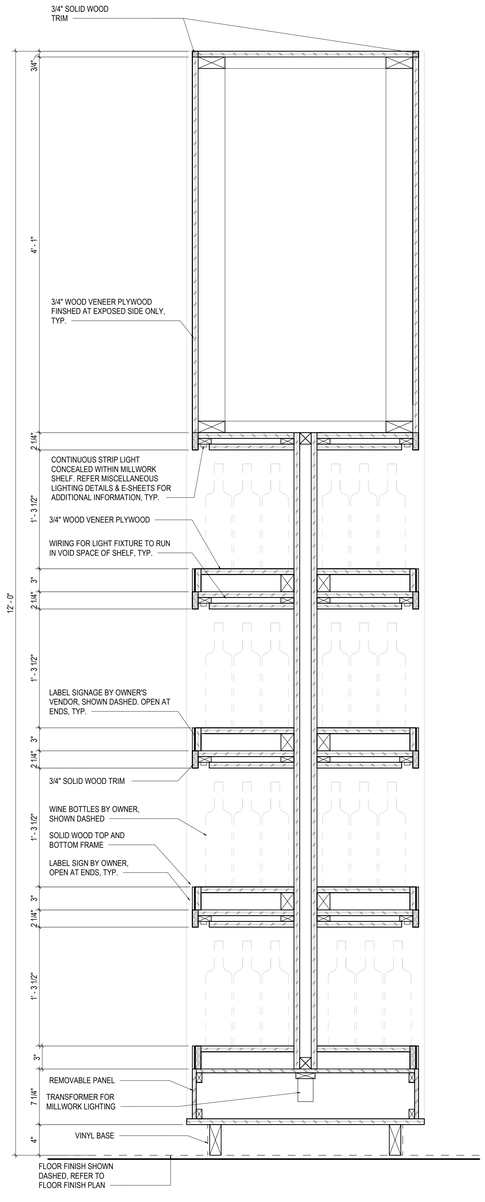
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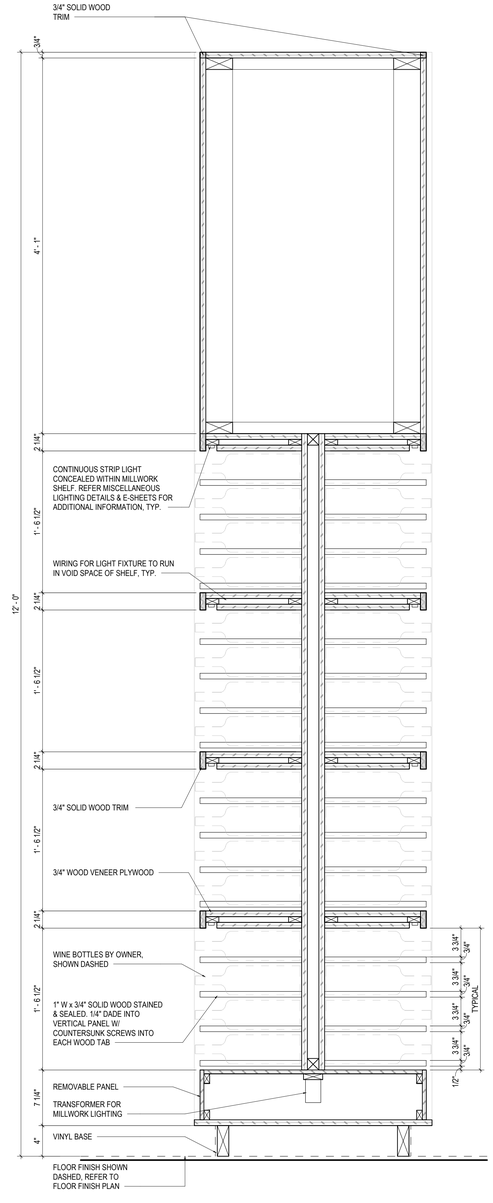
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2. ALL WOOD VENEER TO BE WV-2, UNLESS NOTED OTHERWISE
3. ALL PLASTIC LAMINATE TO BE PL-4 , UNLESS NOTED OTHERWISE



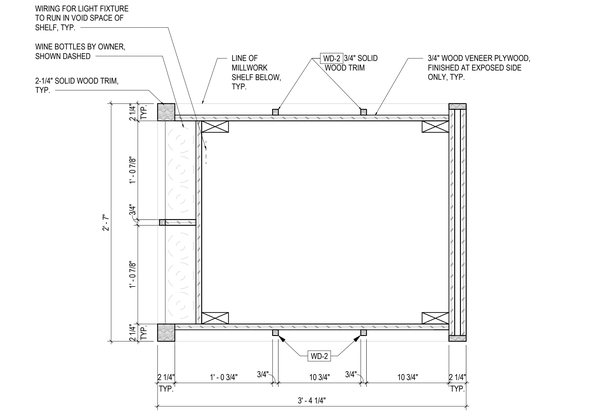
5 WINE DISPLAY SECTION
1 1/2" = 1'-0"



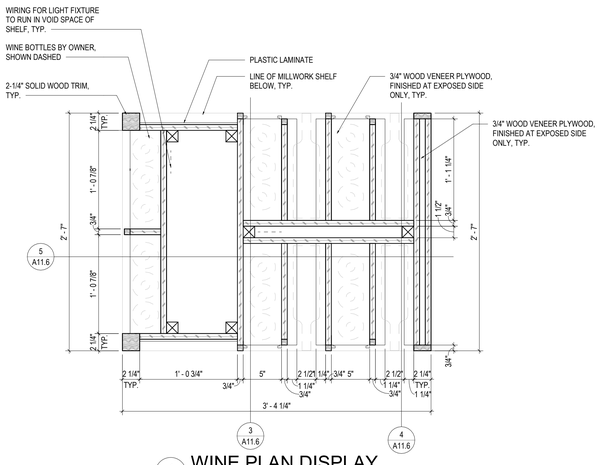
4 WINE DISPLAY SECTION
1 1/2" = 1'-0"



3 WINE DISPLAY SECTION
1 1/2" = 1'-0"



2 WINE PLAN DISPLAY
1 1/2" = 1'-0"



1 WINE PLAN DISPLAY
1 1/2" = 1'-0"

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REVISIONS

STATE OF MISSOURI
DANIEL PAUL BERNATEK
NUMBER A-2010026259
ARCHITECT
8/19/21
EXP 12/31/22

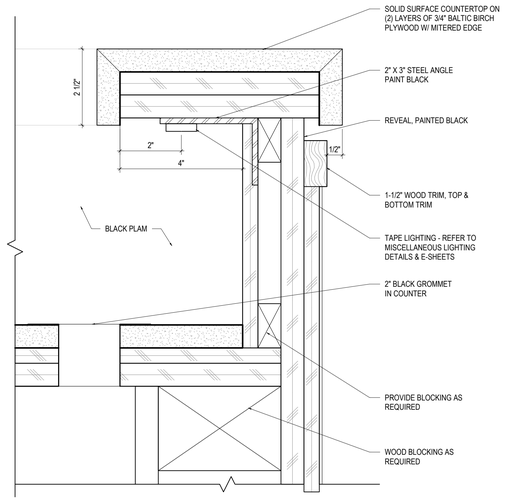
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RETAIL MILLWORK DETAILS

Job No.	Drawn
204530	AZ
Scale	Date
As indicated	08/19/2021

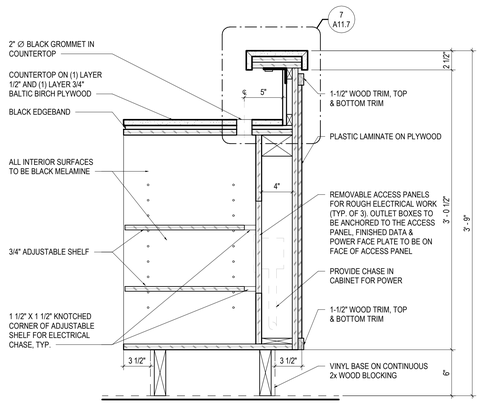
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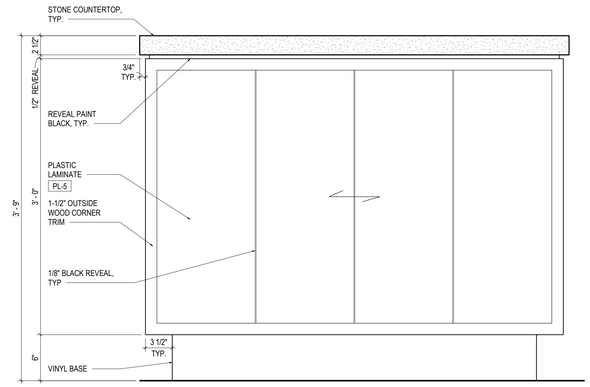
1. ALL WOOD TO BE WD-2, UNLESS NOTED OTHERWISE
2. ALL WOOD VENEER TO BE WV-2, UNLESS NOTED OTHERWISE
3. ALL STONE TO BE S-2, UNLESS NOTED OTHERWISE



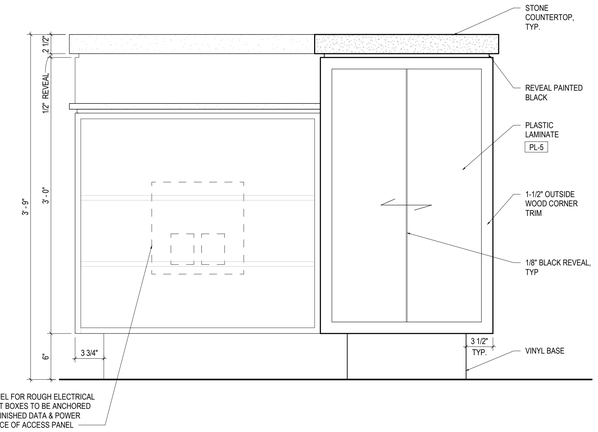
7 HOST STAND DETAIL
6" = 1'-0"



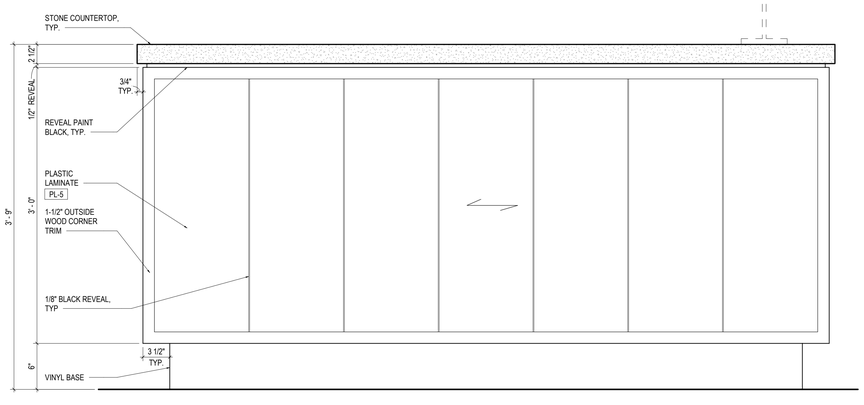
6 HOST STAND SECTION
1 1/2" = 1'-0"



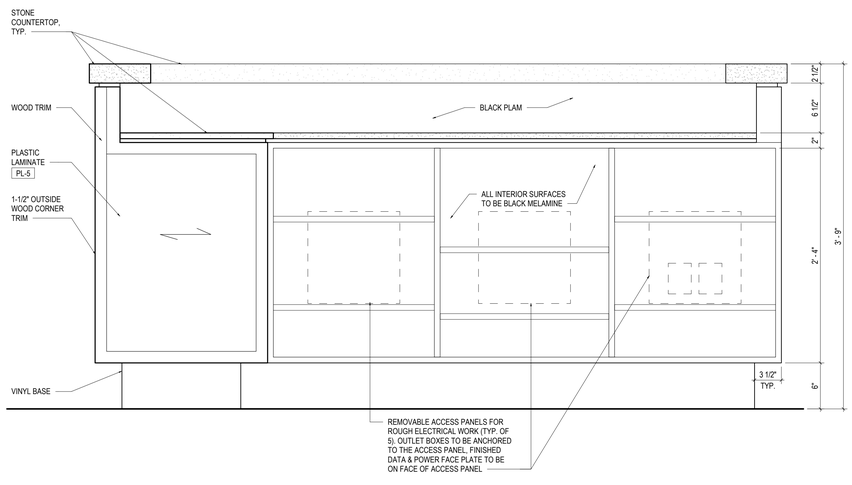
3 HOST STAND SIDE ELEVATION
1 1/2" = 1'-0"



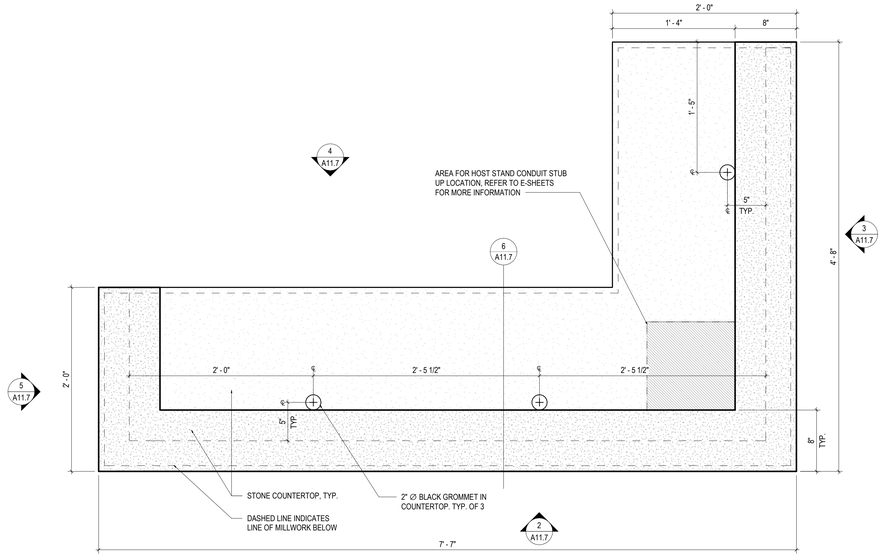
5 HOST STAND SIDE ELEVATION
1 1/2" = 1'-0"



2 HOST STAND FRONT ELEVATION
1 1/2" = 1'-0"



4 HOST STAND REAR ELEVATION
1 1/2" = 1'-0"



1 ENLARGED HOST STAND
1 1/2" = 1'-0"

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8/19/21
EXP 12/31/22

Drawing Title
MILLWORK DETAILS

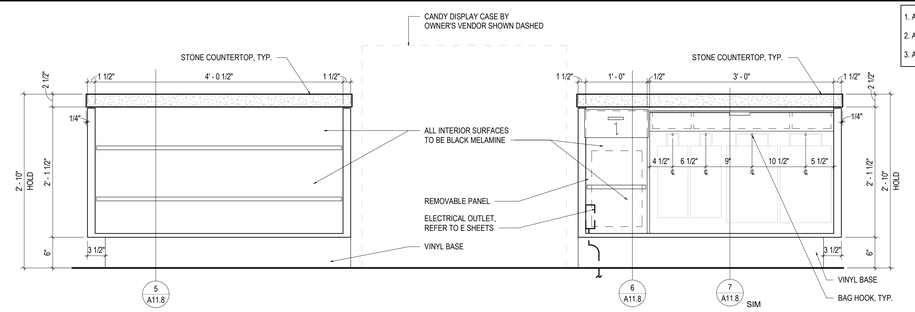
Job No.	Drawn
204530	Author

Scale	Date
As indicated	08/19/2021

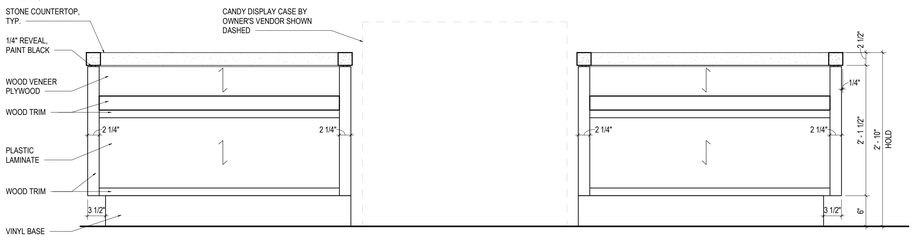
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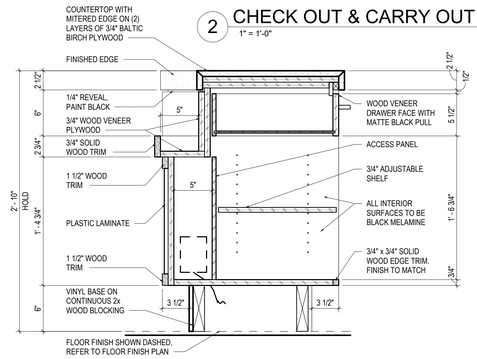
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2. ALL WOOD VENEER TO BE WV-1 UNLESS NOTED OTHERWISE
3. ALL STONE TO BE S-1 UNLESS NOTED OTHERWISE



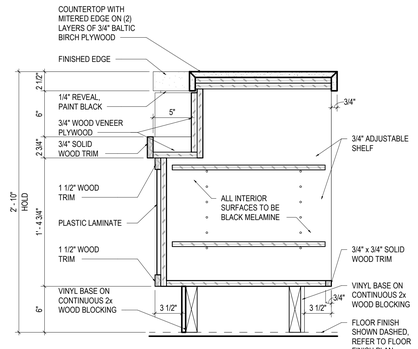
3 CHECK OUT & CARRY OUT BACK ELEVATION
1" = 1'-0"



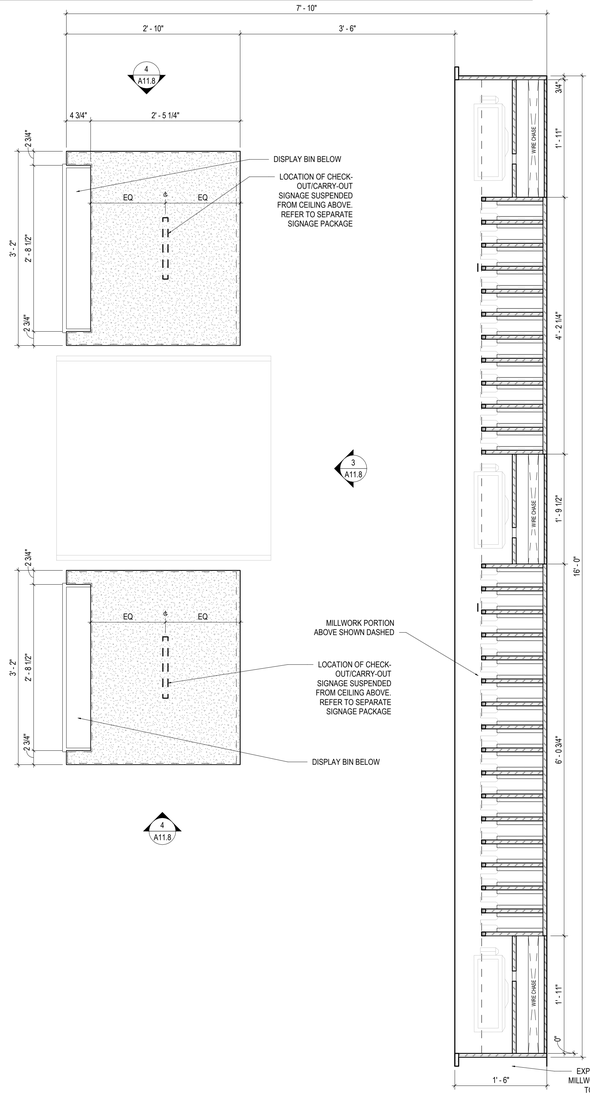
2 CHECK OUT & CARRY OUT FRONT ELEVATION
1" = 1'-0"



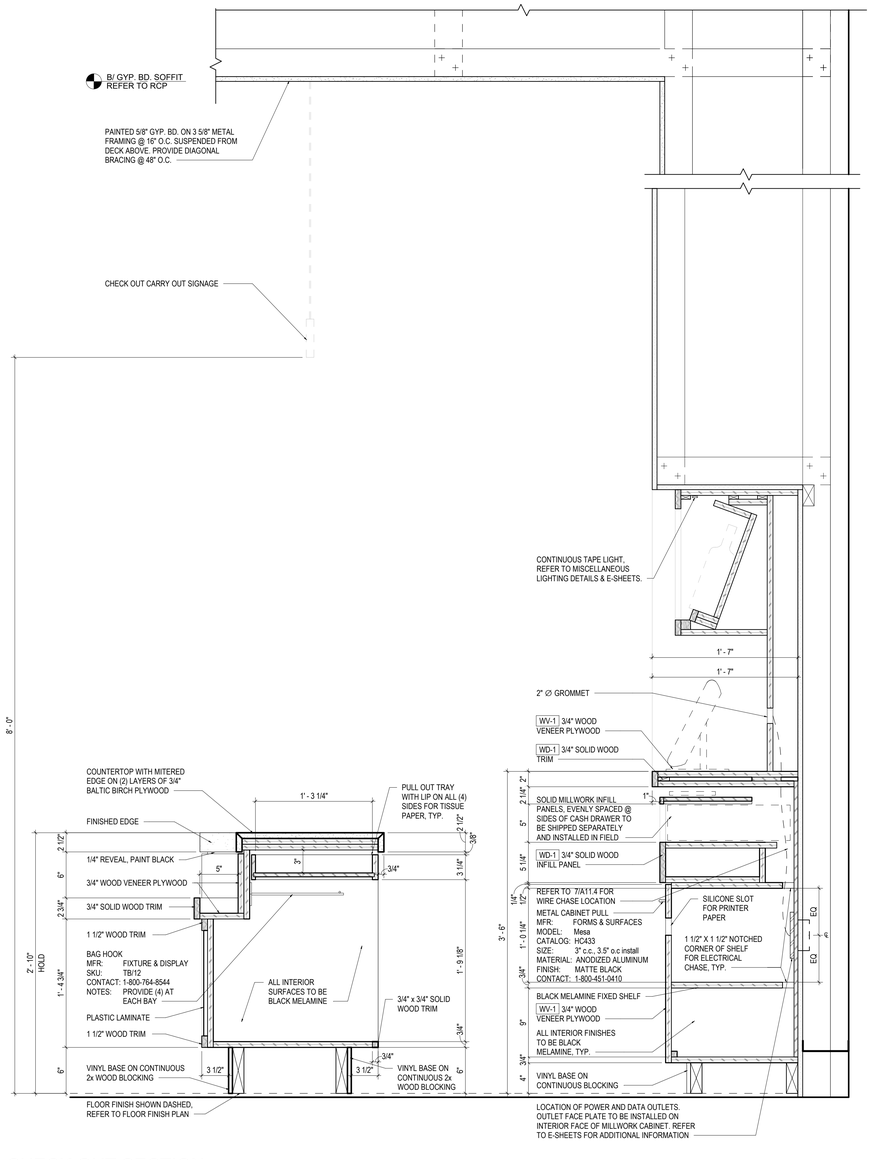
6 CHECK OUT SECTION
1 1/2" = 1'-0"



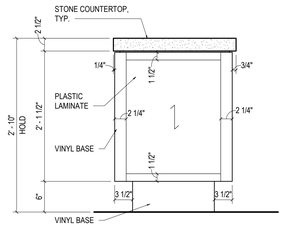
5 CARRY OUT SECTION
1 1/2" = 1'-0"



1 ENLARGED CHECK OUT & CARRY OUT PLAN
1" = 1'-0"



7 CHECK OUT SECTION
1 1/2" = 1'-0"



4 SIDE ELEVATION
1" = 1'-0"

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ARCHITECT
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EXP 12/31/22

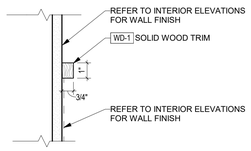
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CHECK OUT & CARRY OUT DETAILS

Job No.	Drawn
204530	Author
Scale: As indicated	Date: 08/19/2021

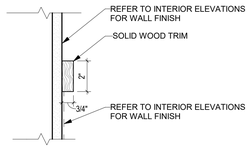
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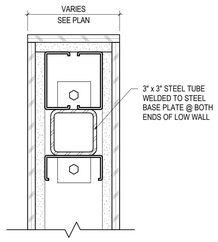
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2. ALL WOOD VENEER TO BE WV-2 UNLESS NOTED OTHERWISE
3. ALL STONE TO BE S-2 UNLESS NOTED OTHERWISE



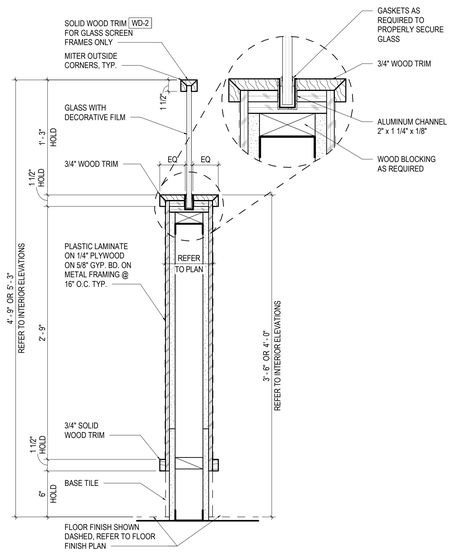
9 WOOD TRIM DETAIL
3" = 1'-0"



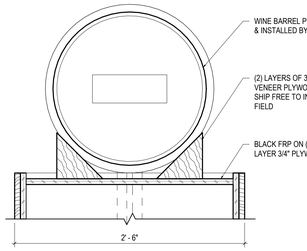
8 WOOD TRIM DETAIL
3" = 1'-0"



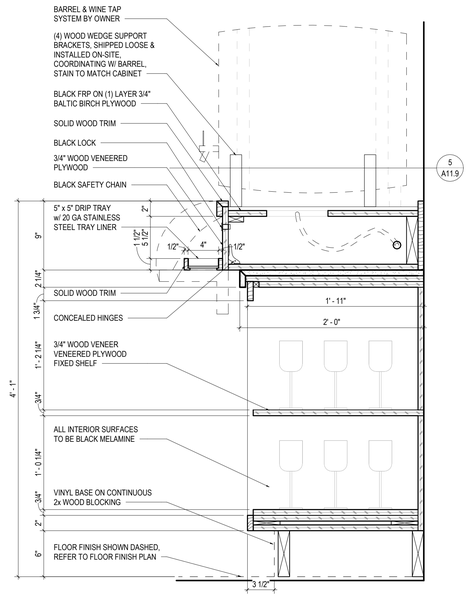
7 LOW WALL SUPPORT DETAIL
3" = 1'-0"



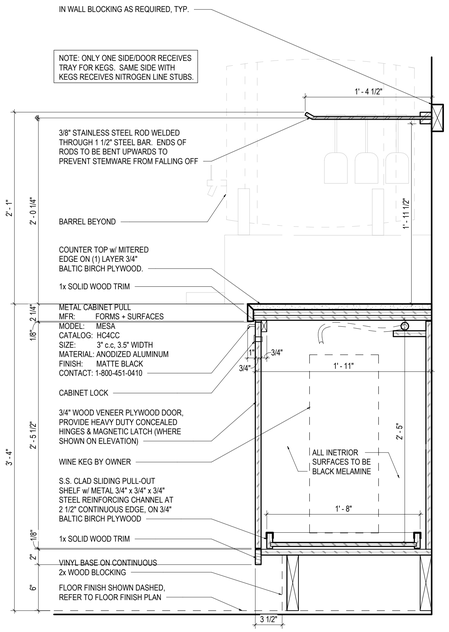
6 GLASS LOW WALL SECTION
1 1/2" = 1'-0"



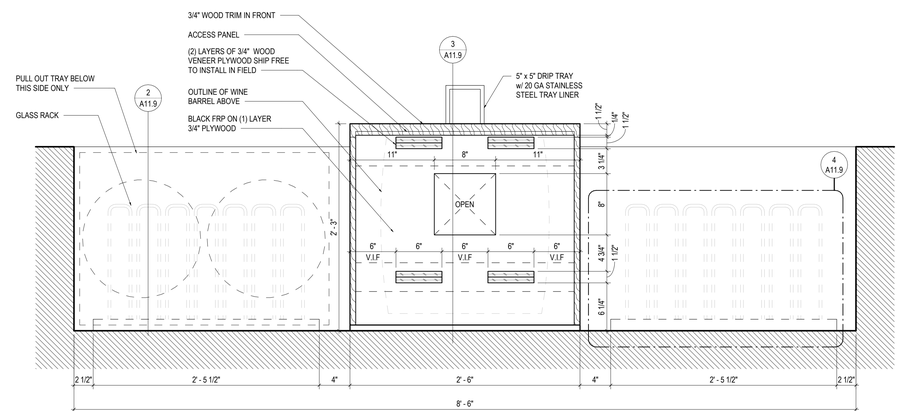
5 WINE BARREL SECTION
1 1/2" = 1'-0"



3 WINE BARREL DETAIL
1 1/2" = 1'-0"



2 CABINET DETAIL
1 1/2" = 1'-0"



1 ENLARGED BARREL RESERVE PLAN
1 1/2" = 1'-0"

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Drawing Title
MILLWORK & COLUMN DETAILS

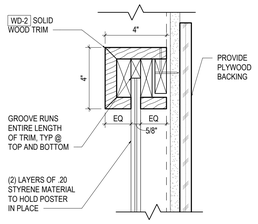
Job No.	Drawn
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Scale	Date
As indicated	08/19/2021

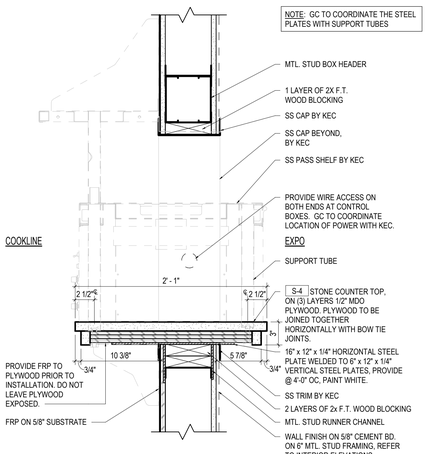
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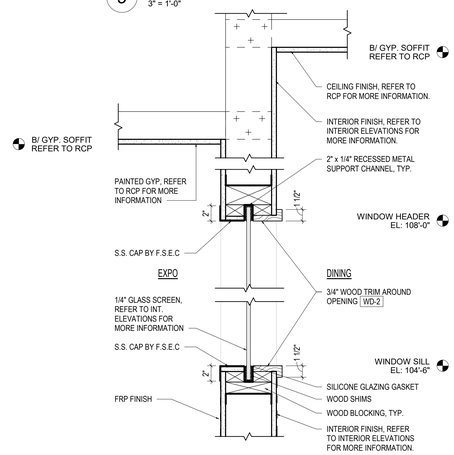
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3. ALL STONE TO BE S-1 UNLESS NOTED OTHERWISE



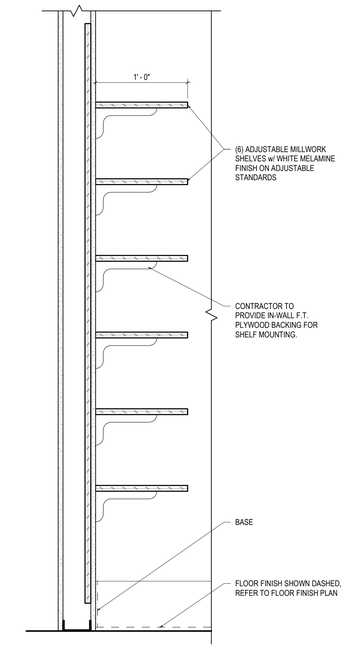
9 TYPICAL EASEL DETAIL
3" = 1'-0"



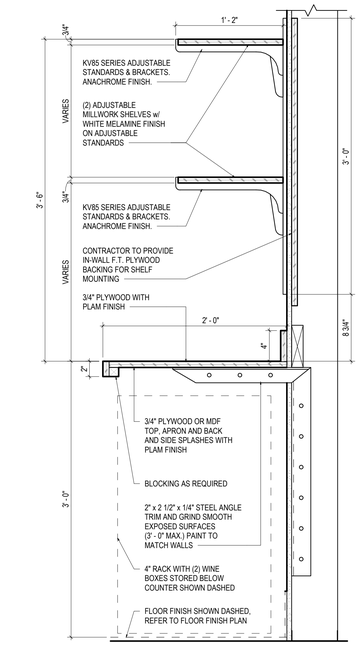
11 PASS-THROUGH DETAIL
1 1/2" = 1'-0"



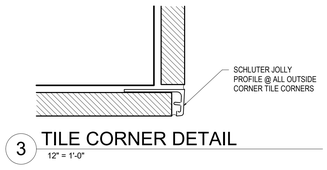
8 SCREEN @ KITCHEN EXPO
1 1/2" = 1'-0"



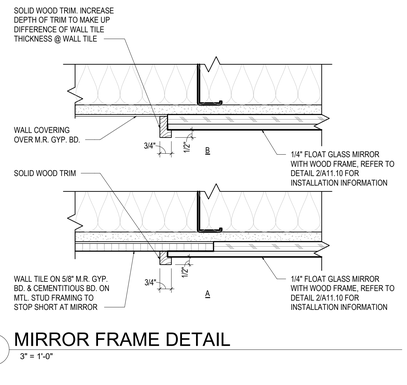
6 MARKETING/TOILET STORAGE SECTION
1 1/2" = 1'-0"



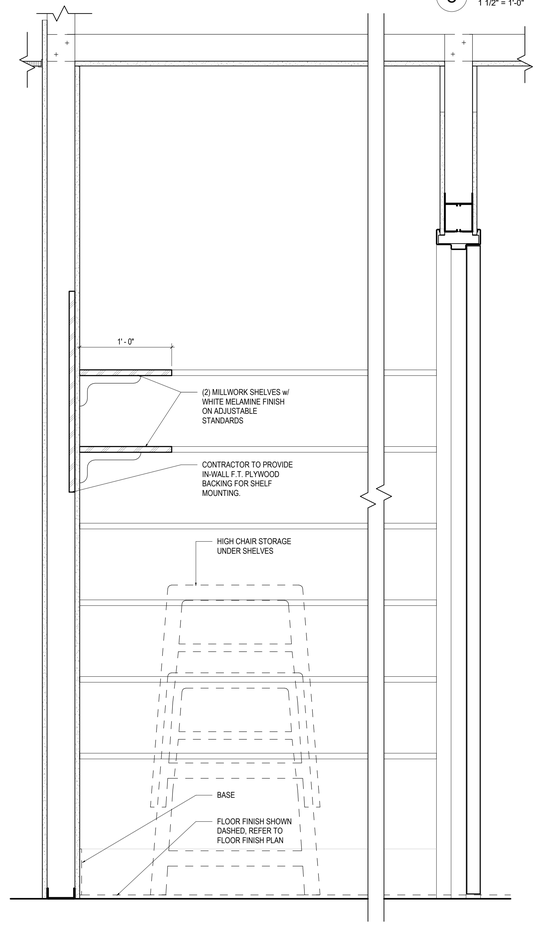
5 SHELVING DETAIL
1 1/2" = 1'-0"



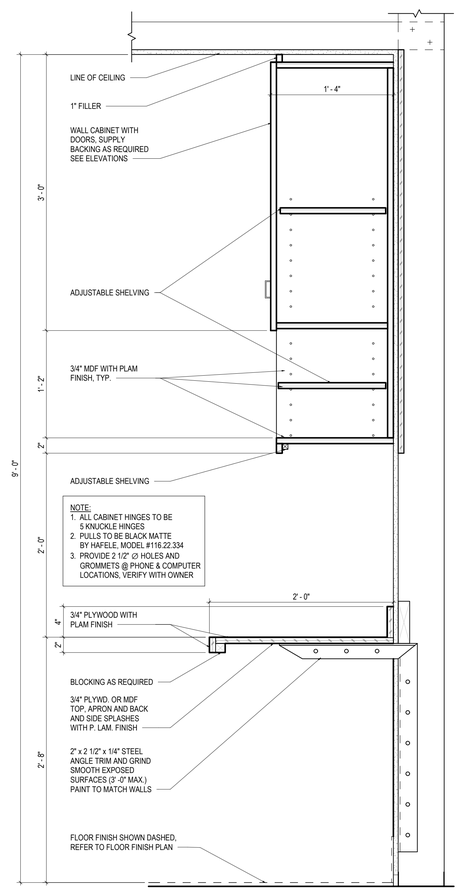
3 TILE CORNER DETAIL
12" = 1'-0"



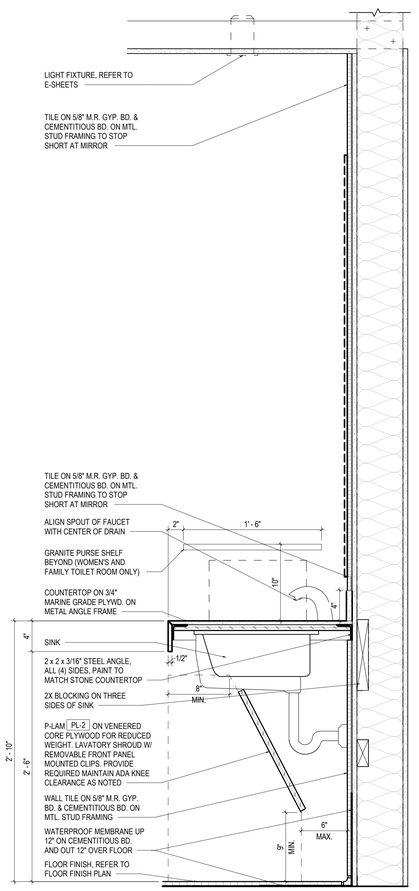
2 MIRROR FRAME DETAIL
3" = 1'-0"



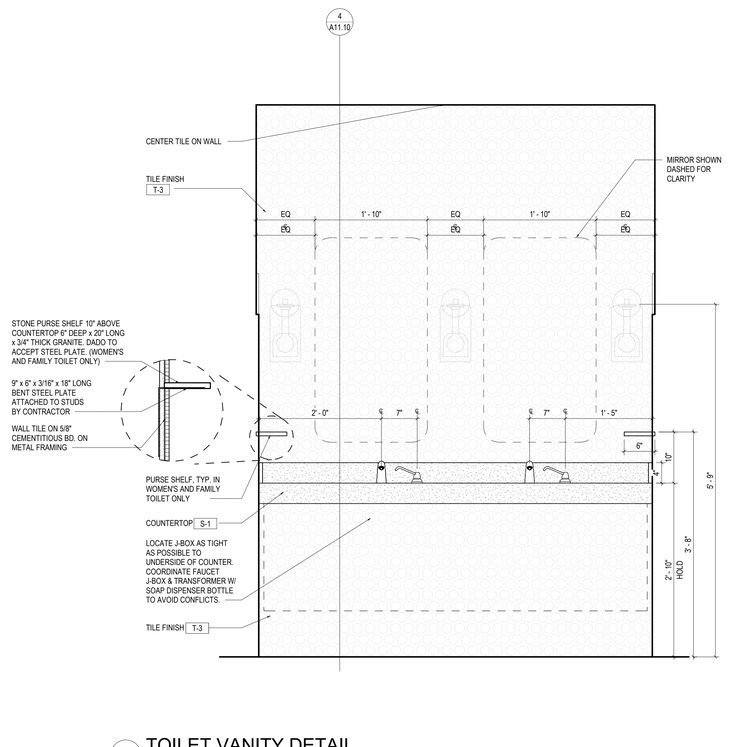
10 HIGH CHAIR STORAGE SECTION
1 1/2" = 1'-0"



7 SECTION @ OFFICE
1 1/2" = 1'-0"



4 SECTION @ LAVATORY
1 1/2" = 1'-0"



1 TOILET VANITY DETAIL
1" = 1'-0"

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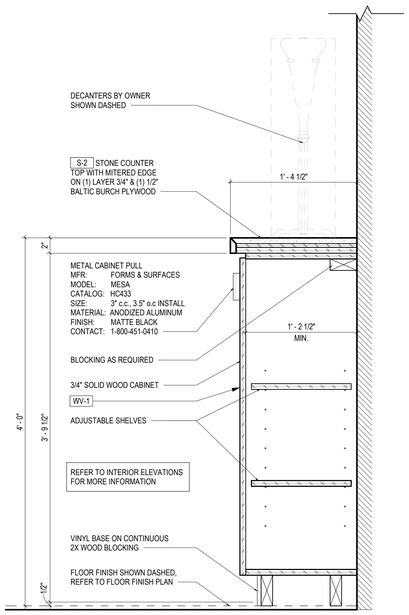
Drawing Title
COUNTER AND CABINET DETAILS

Job No.	Drawn
204530	Author
Scale	Date
As indicated	08/19/2021

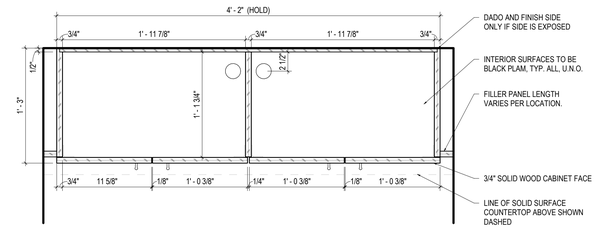
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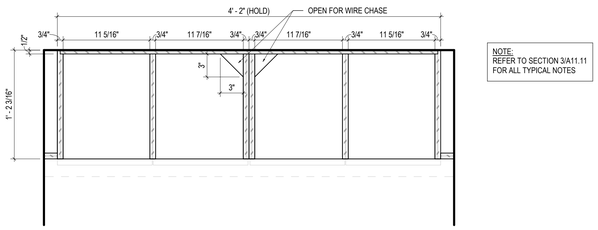
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2. ALL WOOD VENEER TO BE WV-2 UNLESS NOTED OTHERWISE
3. ALL STONE TO BE S-3 UNLESS NOTED OTHERWISE



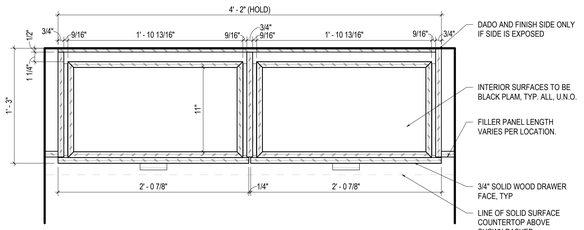
7 TYPICAL DECANTER COUNTER SECTION
1 1/2" = 1'-0"



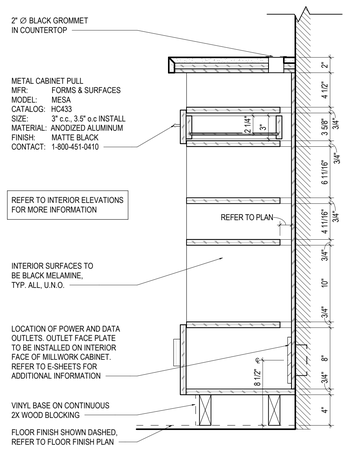
5 P.O.S. PLAN DETAIL
1 1/2" = 1'-0"



4 P.O.S. PLAN DETAIL
1 1/2" = 1'-0"

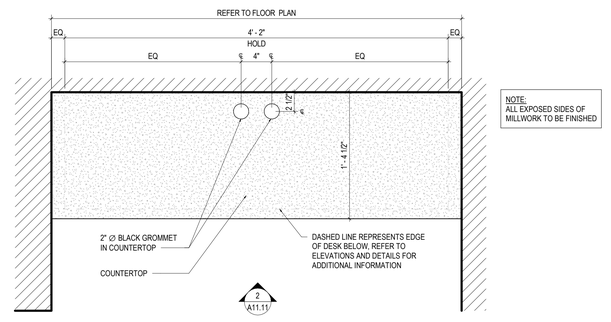


3 P.O.S. PLAN DETAIL
1 1/2" = 1'-0"



6 TYPICAL P.O.S. SECTION
1 1/2" = 1'-0"

2 ENLARGED P.O.S. ELEVATION
1 1/2" = 1'-0"



1 ENLARGED P.O.S. PLAN
1 1/2" = 1'-0"

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8/19/21
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Drawing Title
P.O.S. & DECANTER DETAILS

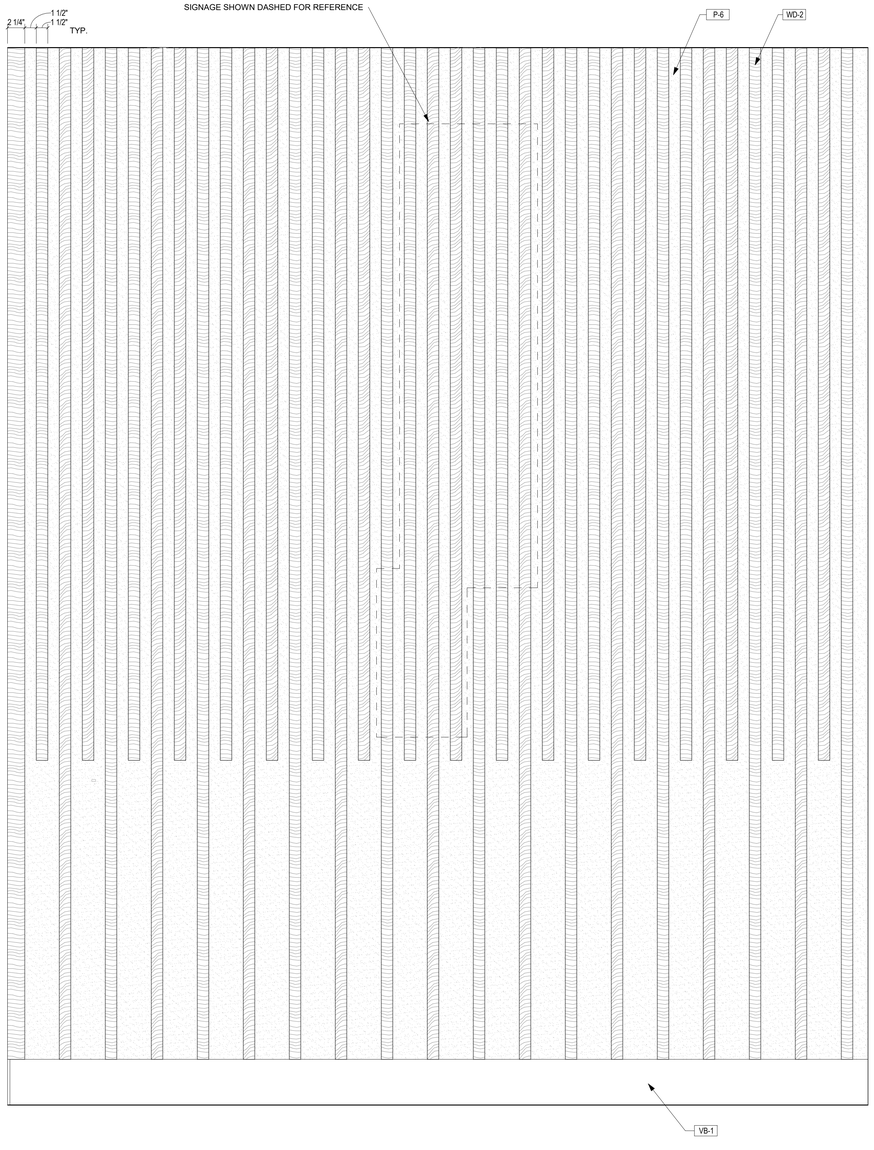
Job No.	Drawn
204530	Author

Scale	Date
As indicated	08/19/2021

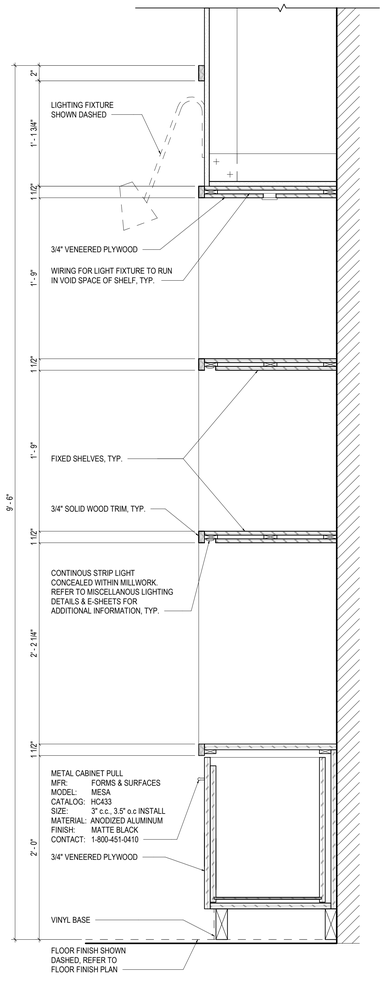
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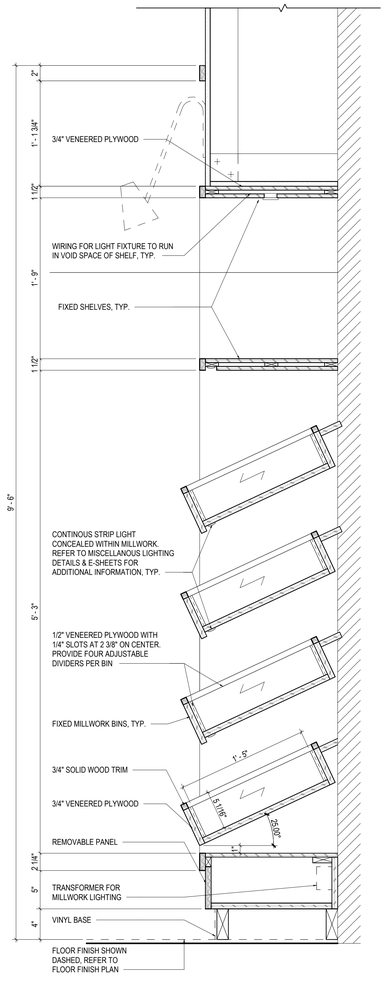
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2. ALL WOOD VENEER TO BE WV-2 UNLESS NOTED OTHERWISE
3. ALL STONE TO BE S-3 UNLESS NOTED OTHERWISE



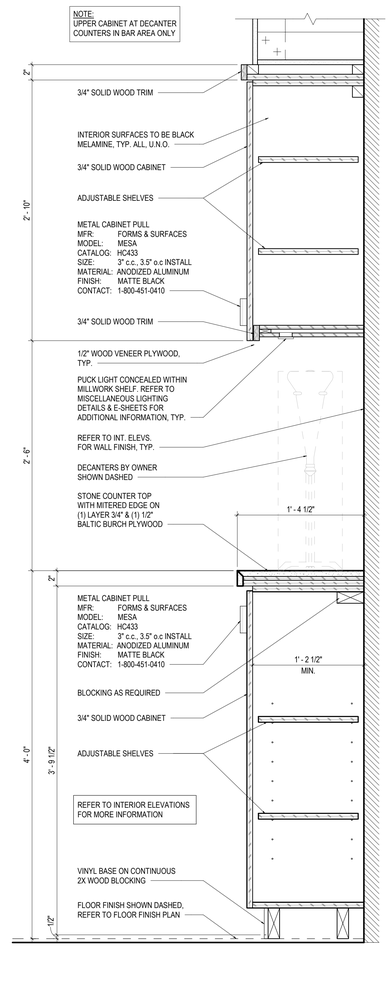
4 HOST WALL ELEVATION
1 1/2" = 1'-0"



3 RETAIL DISPLAY
1 1/2" = 1'-0"



2 RETAIL DISPLAY
1 1/2" = 1'-0"



1 TYPICAL DECANTER COUNTER SECTION
1 1/2" = 1'-0"

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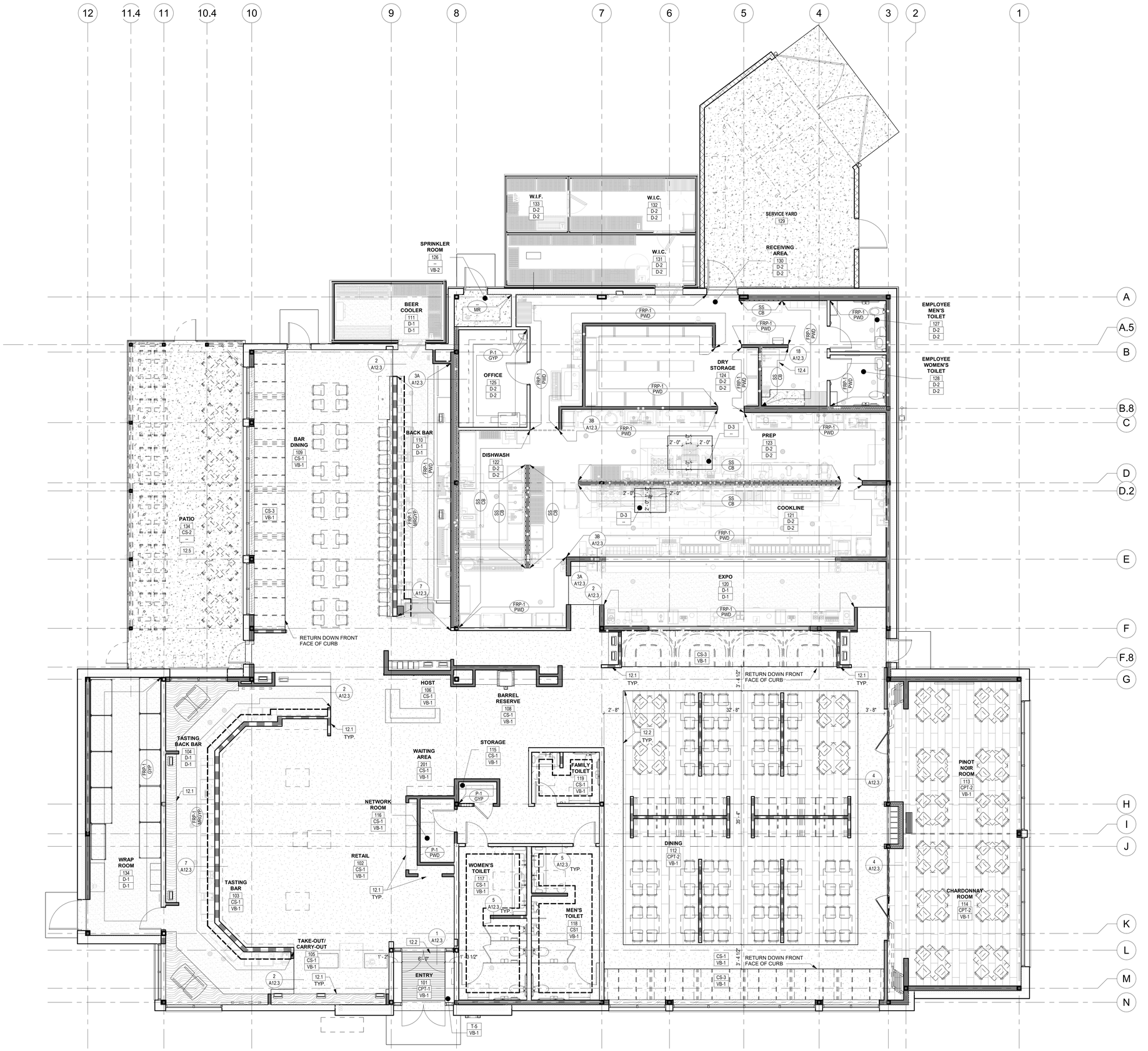
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Job No.	Drawn
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Scale	Date
As indicated	08/19/2021

Sheet No.
A11.12

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1 WALL & FLOOR FINISH PLAN
3/16" = 1'-0"

N

GENERAL NOTES

1. ALL BOOTH/BANQUETTE SEATING TO HAVE BLACK VINYL BASE.
2. PROVIDE 14 GAUGE GALVANIZED BACKING OR 3/4" FIRE-TREATED PLYWOOD IN KITCHEN WALLS AS REQUIRED BY F.S.E.C. FOR EQUIPMENT, MILLWORK, SHELVES, ETC. VERIFY HEIGHTS AND LOCATIONS.
3. FOR TOILET ROOM WALL FINISHES, SEE ELEVATIONS, SHEET A8.1
4. WATERPROOFING IN MOP BASIN AREA TO BE UNDER ENTIRE MOP BASIN AND UP 36" ON WALLS. STAINLESS STEEL TO BE FULL HEIGHT TO CEILING ABOVE.
5. REFER TO KITCHEN DRAWINGS FOR EXACT FLOOR SINK LOCATIONS. G.C. TO COORDINATE ALL KITCHEN FLOOR SINKS (F.S.) AND FLOOR DRAINS (F.D.) WITH KITCHEN EQUIPMENT PRIOR TO PLACEMENT.
6. TILE CONTRACTOR TO ENSURE THAT FLOOR TILE IS FLUSH WITH COVE BASE TILE PER HEALTH DEPT. AT TOILETS.
7. WALLS AT CEILING OF KITCHEN AND PREP. AREAS SHALL BE SMOOTH FINISH AND WASHABLE.
8. MAXIMUM FLOOR SLOPE IN ANY DIRECTION IS 1 IN 20.
9. SILICONE ALL FRP INTERSECTIONS BASE, CEILING, DOOR FRAMES, ETC.
10. WALL/FLOOR BASE AT BATHROOM AREAS TO HAVE WATERPROOFING, SEE SHEET A12.3
11. TO AVOID PONDING, KITCHEN FLOORS ARE TO MEET THE REQUIREMENTS OF A "FLAT" CLASSIFICATION FOR LEVELNESS (FL 25) AND FLATNESS (FF 35) PER ACI 117. SLOPE TO DRAIN REQUIREMENTS ARE SHOWN ON 8/A12.3.
12. ALL MATERIALS TRANSITIONS TO MEET A.D.A. REQUIREMENTS.
13. COVED TILE BASE TO BE PROVIDED AT ALL KITCHEN EQUIPMENT AFTER PLACEMENT OF EQUIPMENT, IF ON CURB.
14. ALL FLOOR FINISHES AND PATTERNS TO EXTEND UNDER BOOTH, SEATING, EQUIPMENT, TABLES AND CHAIRS, AND TO BAR DIE.
15. CONTRACTOR TO PROVIDE ANTI FRACTURE MEMBRANE AT ALL CONCRETE SLAB CONTROL JOINTS UNDER TILE FLOORING.
16. CONTRACTOR TO PROVIDE ANTI FRACTURE MEMBRANE UNDER ALL TILES LARGER THAN 12x12.

LEGEND

- FLOOR DRAIN - REFER TO PLUMBING & QF-SHEETS FOR EXACT LOCATIONS & ADDITIONAL INFORMATION
- FLOOR SINK - REFER TO PLUMBING & QF-SHEETS FOR EXACT LOCATIONS & ADDITIONAL INFORMATION
- INDICATES LIMITS OF WATERPROOFING TO FACE OF CEMENT BOARD 12" HIGH AND 12" ONTO FLOOR.
- NOTES FLOOR FINISH, REFER TO FINISH SCHEDULE ON SHEET A9.2
- DENOTES BASE FINISH, REFER TO FINISH SCHEDULE ON SHEET A9.2
- DENOTES WALL FINISH, REFER TO FINISH SCHEDULE ON SHEET A9.2
- DENOTES SUBTRATE
  - CB=CEMENT BOARD
  - MR=MOISTURE RESISTANT GYPSUM BOARD
  - EXT.=EXISTING GYPSUM BOARD
  - PWD=PLYWOOD

KEYNOTES

12.1	PROVIDE VINYL BASE AT ALL MILLWORK & MILLWORK WALLS
12.2	FLOAT CARPET TILE 3' MIN. UP TO TILE FOR CLEAN TRANSITION
12.4	EPOXY FLOORING TO WRAP UP SIDES OF MOP SINK
12.5	CONCRETE SAW CUTS AT PATIO REFER TO A1.0

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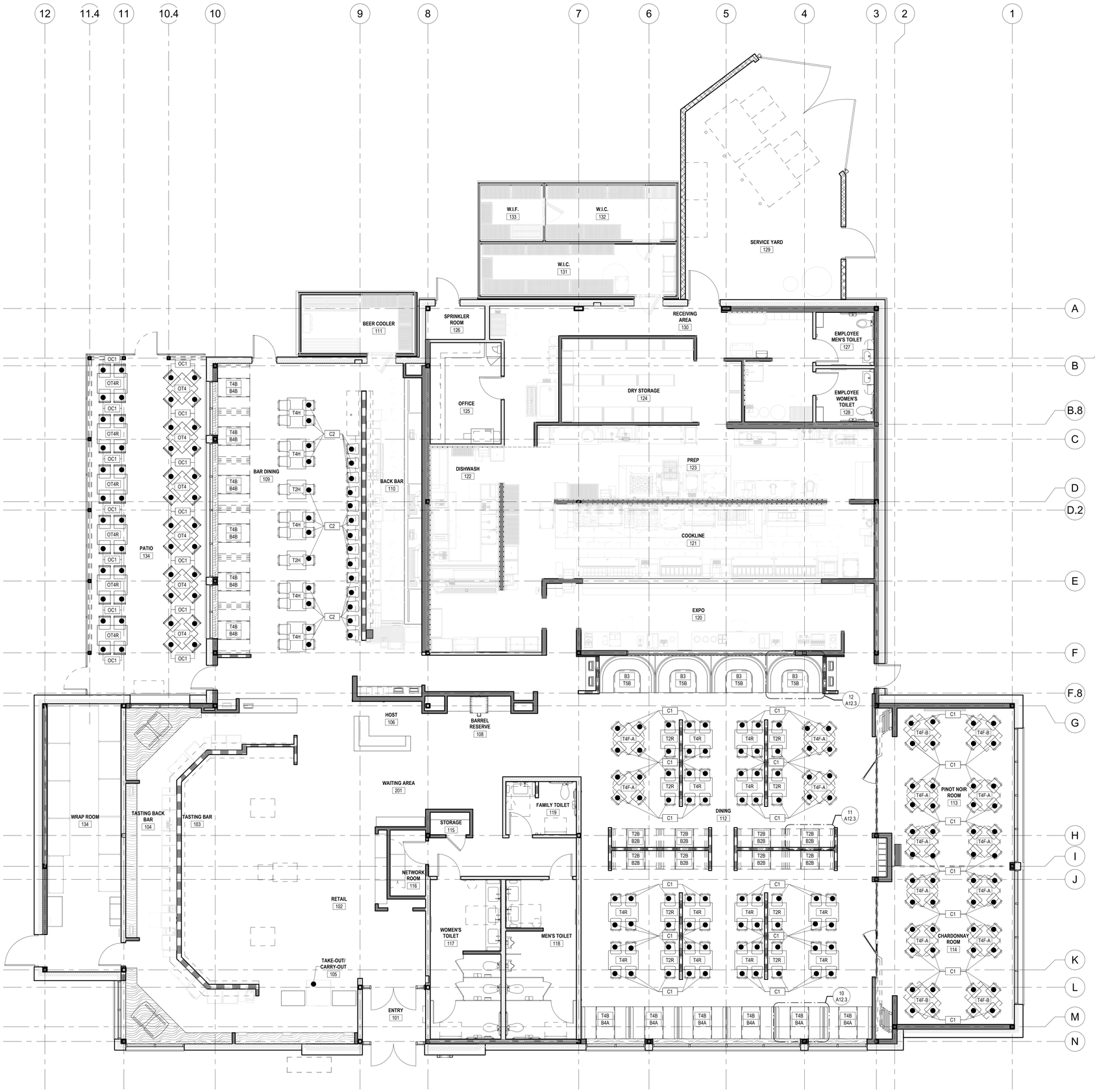
Drawing Title
WALL & FLOOR FINISH PLAN

Job No.	Drawn
204530	Author

Scale	Date
AS NOTED	08/19/2021

Sheet No.
A12.1

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1 SEATING PLAN & FURNITURE LEGEND
3/16" = 1'-0"

N

GENERAL NOTES

1. REFER TO SHEET A12.3 FOR BOOTH DETAILS.
2. BOOTH SHOPS TO SHOW & DIMENSION THE FULL RUN OF BOOTHS.
3. ADD PURSE HOOKS TO BAR DINING TABLES.

SEATING LEGEND

	SEATING UNIT	NUMBER PER UNIT	PERSONS PER UNIT	TOTAL PERSONS
BAR				
C2	BARSTOOL	14	1	14
			TOTAL:	14
BAR DINING				
T2H	2 TOP (30" x 30" x 42"H)	2	2	4
T4B	4 TOP PULLMAN (30" x 52")	6	4	24
T4H	4 TOP (30" x 48" x 42"H)	5	4	20
			TOTAL:	48
DINING				
T2B	2 TOP PULLMAN (30"X30")	8	2	16
T2R	4 TOP (30" x 30")	8	4	32
T4B	4 TOP PULLMAN (30" x 52")	6	4	24
T4F-A	4 TOP (36" x 36" FLIP UP TO 50" DIAMETER)	4	4	16
T4R	4 TOP (30" x 48")	12	4	48
T5B	U-BOOTH	4	4	16
			TOTAL:	152
PRIVATE DINING I & II				
T4F-A	4 TOP (36" x 36" FLIP UP TO 50" DIAMETER)	8	4	32
T4F-B	4 TOP (36" x 36" FLIP UP TO 36" x 50" RECTANGLE)	4	4	16
			TOTAL:	
			TOTAL INTERIOR SEATING:	48
				262
OUTDOOR DINING				
OT4	4 TOP (36" x 36")	6	4	24
OT4R	4 TOP (32" x 48")	6	4 TOTAL:	24
			TOTAL OUTDOOR SEATING:	48
				48

FURNITURE FINISH LEGEND

ITEM	DESCRIPTION	SEAT	BACK	NOTES
INDOOR				
C1	DINING CHAIR	SV-1	--	SEE FINISH SCHEDULE BELOW
C2	BARSTOOL	SV-2	--	SEE FINISH SCHEDULE BELOW
B2	PULLMAN BOOTH DINING	SV-2	FA-3	REFER TO 11/A12.3
B3	U-BOOTH DINING	SV-2	FA-2	REFER TO 12/A12.3
B4A	PULLMAN BOOTH DINING	SV-2	FA-4	REFER TO 10/A12.3
B4B	PULLMAN BOOTH BAR	SV-2	FA-4	REFER TO 10/A12.3
C3	WAITING BENCH	SV-1	--	SEE FINISH SCHEDULE BELOW
OUTDOOR				
OC1	OUTDOOR DINING CHAIR	--	--	SEE FINISH SCHEDULE BELOW

FURNITURE FINISH SCHEDULE

KEY	DESCRIPTION	MFR	PRODUCT	COLOR	SIZE	FINISH	NOTES	LOCATION	LEADTIME	CONTACT
C1	DINING CHAIR	SANDLER SEATING	HAWK 1.O WITH STRETCHERS			BLACK METAL, WOOD BACK: AMERICAN WALNUT	ORDER 12 EXTRA CHAIRS	DINING ROOM, PRIVATEDINING ROOM		
C2	BARSTOOL	SANDLER SEATING	HAWK 3.0			BLACK METAL, WOOD BACK: AMERICAN WALNUT	BAR			
C3	WAITING BENCH	N/A	METAL FRAME BENCH			BLACK METAL		RETAIL/HOST AREA		
CH-1		ALNO, INC	CREATION S A903-BRZ		PURSE HOOKS		COORDINATE WITH OWNER			818-882-6028
CH-2		IVES BY SCHLANGE	580-A716 CEILING HOOK		PURSE HOOKS		COORDINATE WITH OWNER			877-860-0174
FA-1	SEAT BACK FABRIC	KRAVET SMART	N/A	30666-516	54"		INSTALL: RAILROADED	PULLMAN BOOTHS	IN STOCK	SHELLY BRESS 312-935-8860 DEVARYBEST@AOL.COM
FA-2	SEAT BACK FABRIC	BURCH	LABYRINTH	OLIVE	54"		INSTALL: RAILROADED	U BOOTHS	IN STOCK	ERIC WILKINS 616-822-0811 EWILKINS@BURCHFABRICS.COM
FA-3	SEAT BACK FABRIC	ANZEA	BABY BEAR	MARSH GREEN	54"		INSTALL: OFF THE BOLT	PULLMAN BOOTHS	5-8 DAYS	HOLLI CAULFIELD 847-951-9787 HOLLICAULFIELD@COMCAST.NET
FA-4	SEAT BACK FABRIC	LOOMSOURCE	UPTON	STONE	54"		INSTALL: RAILROADED	PULLMAN BOOTHS	8 WEEKS	LYNDSI O'DONNELL 312-494-3010 LODONNELL@MOMTEX.COM
OB1	OUTDOOR BENCH	CANAAN SITE FURNISHINGS	METRO		71"	RECYCLED PLASTIC WOOD AND POWDERCOATED METAL (BLACK)	CAN BE CUSTOMIZED TO REMOVE DIVIDERS FROM SEAT, SURFACE MOUNT	NEAR ENTRY	8-12 WEEKS	
OB-1		CANAAN SITE FURNISHINGS	METRO		OUTDOOR BENCH		CUSTOMIZABLE TO REMOVE SEAT DIVIDERS, SURFACE MOUNTED			
OC1	OUTDOOR CHAIR	FLORIDA SEATING	AL-5624-0			BLACK WITH DARK BASKET		PATIO		
OT	OUTDOOR TABLE	FLORIDA SEATING	TA-PT-TOPS			BLACK/GRAY FAUX TEAK		PATIO		
OTB	OUTDOOR TABLE BASE		METAL TABLE BASE			ANTHRACITE BLACK		PATIO		
SV-1	SEAT VINYL	KB CONTRACT	REMINGTON	SLATE	SEAT VINYL			U-BOOTHS, DINING & BAR CHAIR	IN STOCK	KATHRYN GOURLEY 720-458-8124 kgourley@kaystonebros.com
SV-2	SEAT VINYL	KB CONTRACT	REMINGTON	FLINT	SEAT VINYL			BAR BOOTHS AND BAR CHAIRS	IN STOCK	
TB1	TABLE BASE		STANDARD X-BASE			BLACK WRINKLE		DINING AND BAR TABLES		
TB2	TABLE BASE		STANDARD CANTELIEVER BASE			BLACK WRINKLE		DINING AND BAR PULLMANS		
TB3	TABLE BASE		ADJUSTABLE HEIGHT X-BASE			BLACK WRINKLE	3" STEEL COLUMN, MANUAL ADJUSTMENT	BAR TABLES		
TS-1		WHITE OAK	N/A		TABLE STAIN		EPOXY FILLED KNOTS EASED EDGE DETAIL			

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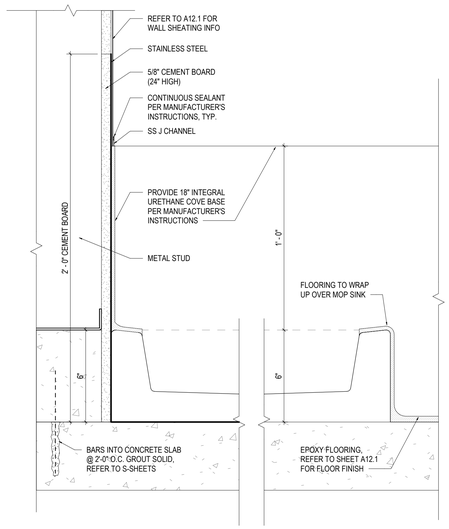
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Drawing Title
SEATING PLAN & FURNITURE LEGEND

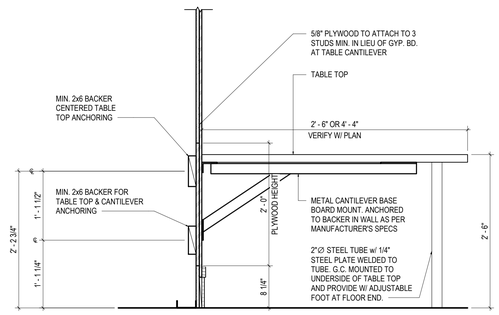
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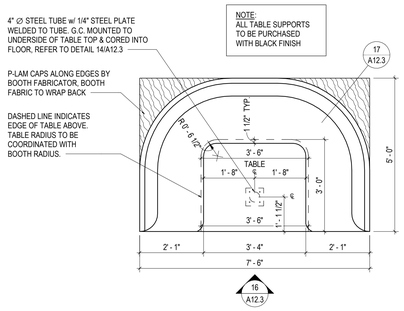
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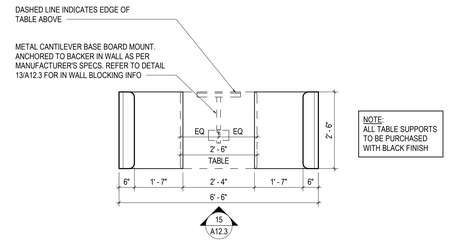
18 MOP SINK DETAIL
3" = 1'-0"



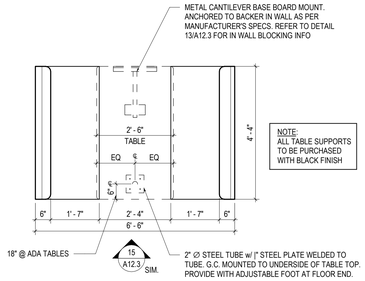
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1" = 1'-0"



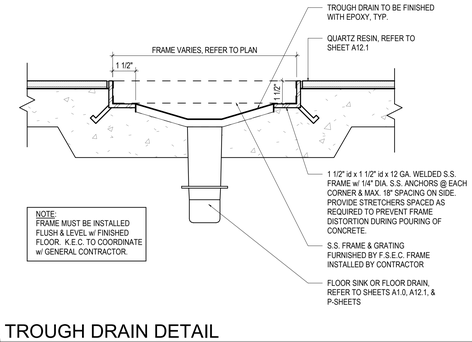
12 U-BOOTH PLAN
1/2" = 1'-0"



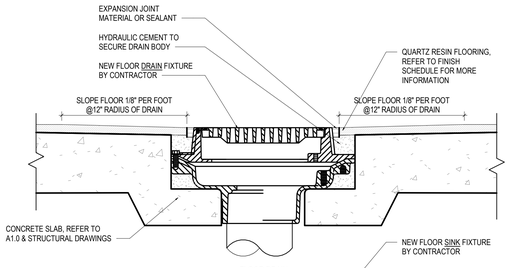
11 BOOTH PLAN
1/2" = 1'-0"



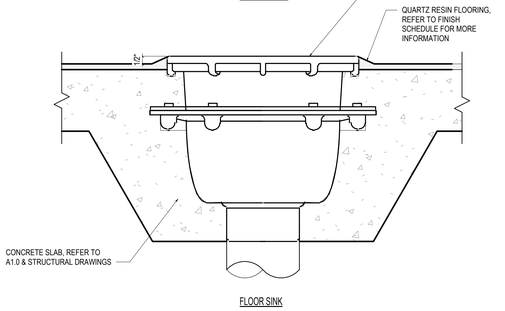
10 BOOTH PLAN
1/2" = 1'-0"



9 TROUGH DRAIN DETAIL
3" = 1'-0"

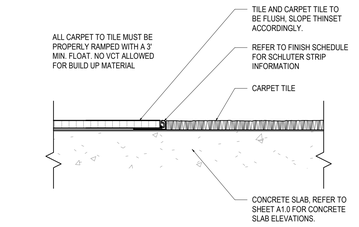


FLOOR DRAIN

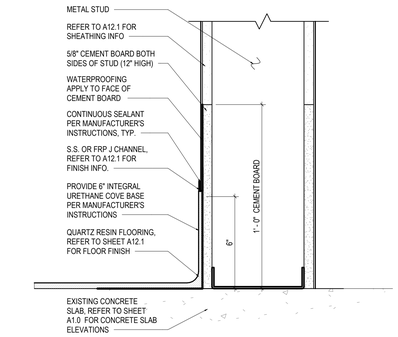


FLOOR SINK

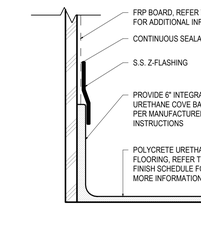
8 FLOOR DRAIN/ SINK DETAIL
3" = 1'-0"



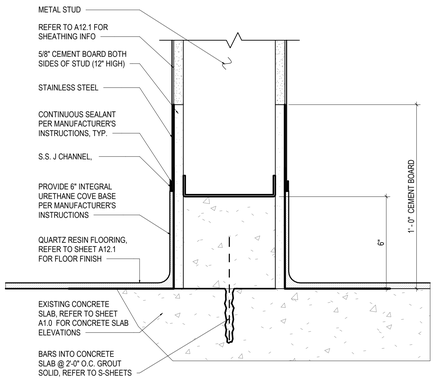
4 CARPET TILE/ TILE TRANSITION
3" = 1'-0"



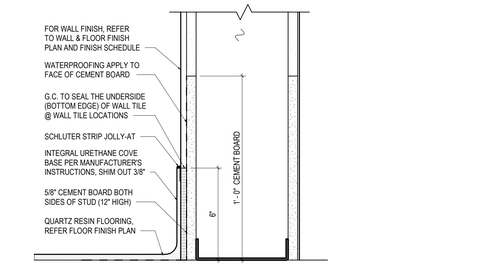
3B TYPICAL BASE DETAIL
3" = 1'-0"



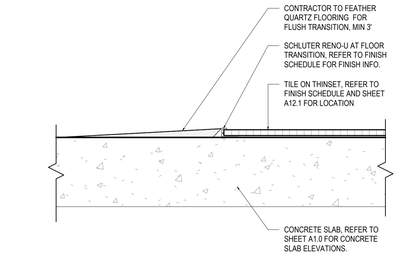
7 Z-FLASHING DETAIL
3" = 1'-0"



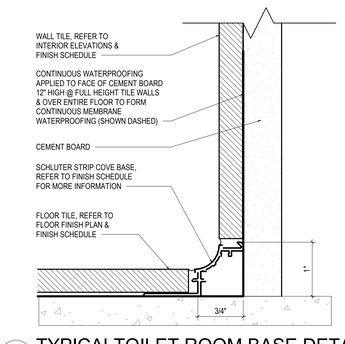
6 CONCRETE CURB @ DISHWASHING
3" = 1'-0"



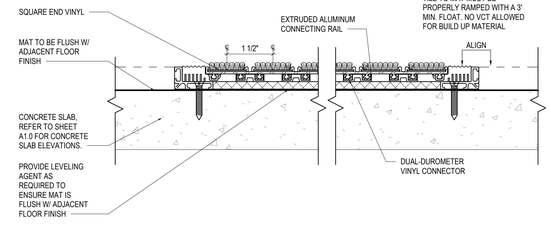
3A TYPICAL BASE DETAIL
3" = 1'-0"



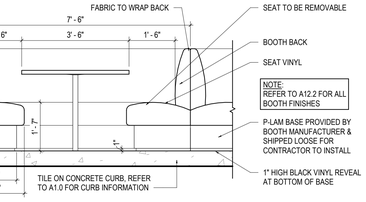
2 TILE TO QUARTZ TRANSITION
3" = 1'-0"



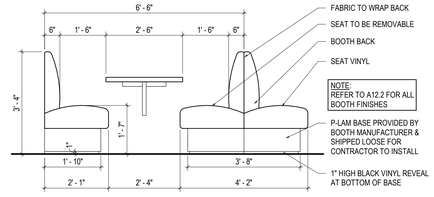
5 TYPICALTOILET ROOM BASE DETAIL
1/2" = 1'-0"



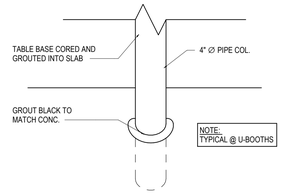
1 ENTRY MAT SYSTEM TRANSITION
6" = 1'-0"



16 U-BOOTH ELEVATION
1/2" = 1'-0"



15 PULLMAN BOOTH ELEVATION
1/2" = 1'-0"



14 TABLE BASE DETAIL
12" = 1'-0"

17 U-BOOTH SECTION
1/2" = 1'-0"

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830 North Blvd.
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ARIA GROUP ARCHITECTS, INC.

COOPER'S HAWK WINERY & RESTAURANT
540 NW CHIPMAN ROAD, LEE'S SUMMIT, MO 64086

FIELD VERIFICATION
Contractor shall verify all figured dimensions and conditions at the job site and notify Aria Group Architects, Inc. of any dimensional errors, omissions or discrepancies before beginning or fabricating any work. Do not scale these drawings.

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NO.	DATE	REMARKS
1	08/19/2021	ISSUED FOR PERMIT

REVISIONS

STATE OF MISSOURI
DANIEL PAUL BERNATSIK
NUMBER A-2010002539
ARCHITECT
8/19/21
EXP 12/31/22

Drawing Title
FINISH FLOOR & BOOTH DETAILS

Job No.	Drawn
204530	Author
Scale	Date
As indicated	08/19/2021

Sheet No.
A12.3

8/19/2021 3:41:13 PM
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SECTION 00701 - GENERAL CONDITIONS

1. GENERAL

1.1 GENERAL CONDITIONS

A. The AIA Document A201 2007 Edition General Conditions of the Contract for Construction are incorporated as part of the construction documents. These General Conditions are available from the Architect.

B. The contract documents shall consist of agreement between Owner and Contractor, conditions of contract, drawings, specifications, and addenda

C. The AIA "Instructions to Bidders" document A701 latest edition is to be used

D. The AIA "Performance and Payment Bond" document A312 - latest edition, in the amount of 100% of contract amount to be delivered simultaneously with executed contract

SECTION 00750 - INSURANCE REQUIREMENTS

1. GENERAL

1.1 TERMS

A. Owner

B. Owner Representative:

C. By Owner- Supplied by Owner, installed by General Contractor

D. N.I.C. - Not in Contract - work not in general contractor's scope of work but provided and installed by separate contractor or vender hired independently by Owner. Coordination by General Contractor as necessary.

E. Landlord - Base building Owner

F. Architect - Aria Group Architects Inc.

G. General Contractor / Contractor - The prime contractor that will execute the work described in these contract documents

H. Sub-Contractor - Any contractor, vendor, or entity who enters into a contract with the General Contractor / Contractor to execute a portion of the work described in these contract documents

1.2 CERTIFICATE OF INSURANCE

A. The contractor shall purchase liability insurance as required by article 11.1 of the AIA document A201 "General Conditions of the Contract for Construction". No work will be permitted on the project site until all required insurance certificates have been delivered to the Landlord/Owner. The contractor's liability insurance will be paid for and maintained by the contractor for the duration of the project and will contain all provisions described in this specification section.

B. Provide for additional insured for the following:

1. Owner
2. Aria Group Architects, Inc.
3. Landlord
4. Anyone employed directly or indirectly by any of the above.

C. Worker's compensation and statuary limits, as required by the state where work is being performed and Employer's Liability with limits no less than $500,000 each accident or occupational disease.

D. Comprehensive General Liability including Premises Operations, Products and Completed Operations Liability, Independent Contractors Liability, Contractors Liability and Broad Form Property Damage Liability with limits no less than:

Bodily Injury and Property Damage Liability

Option 1:
$2,000,000 Each Occurrence
$2,000,000 General Aggregate
$2,000,000 Product & Completed Operations Aggregate
$3,000,000 Umbrella Each Occurrence/Aggregate
-or-
Option 2:
$1,000,000 Each Occurrence
$2,000,000 General Aggregate
$2,000,000 Product & Completed Operations Aggregate
$3,000,000 Umbrella Each Occurrence/Aggregate

E. Such insurance shall provide coverage as described in article 11.1 of the AIA document A201 "General Conditions of the Contract for Construction"

F. Comprehensive Automobile Liability Insurance including the ownership, maintenance and operation of any automobile equipment owned, hired and non-owned including the loading and unloading thereof in the following minimum amounts:

1. Bodily Injury Liability and Property Damage Liability $2,000,000 each accident
2. Umbrella Liability Insurance covering all operations of Contractor and with no less than Bodily Injury and Property Damage Liability
3. (See option 1 and option 2 listed previously)

G. Builder's Risk Insurance to be provided by and maintained by the owner

SECTION 01000 - GENERAL REQUIREMENTS

1. GENERAL

1.1 GENERAL REQUIREMENTS

A. Contractor shall coordinate use of premises w/owner, including but not limited to:

1. Storage
2. Staging
3. Parking
4. Refuse
5. Other required uses

B. The following specifications are general in nature and allow Contractor to select manufacturers for materials on the basis of cost and availability of such materials unless preselected manufacturers are indicated and items indicated as supplied by Owner

C. It is understood that the Owner may be purchasing and/or installing materials, equipment and furnishings under separate contract. This Contract shall cooperate with the Owner to allow the delivery and installation of such materials, equipment and furnishings by other Contractors and suppliers which commence prior to final acceptance of the remodeled space by Owner so as to assure the Owner of the earliest possible completion date.

D. The Contract Documents are intended to include either directly or by implication all items required for the proper execution and completion of the work. The General Contractor shall provide all labor, material and equipment to complete the work as shown and specified in the contract documents.

E. The Contractor is solely responsible for the complete coordination of the work and required trades so that no part of the work shall be left in an unfinished state as a result of lack of coordination, disagreements between the parties performing the work, or any other reason

F. The Contractor shall be solely responsible for obtaining access to the site to determine and verify the existing conditions, materials, systems, sizes, dimensions, quantities, layouts, locations, and potential limitations for the performance of the work completed herein

G. These drawings are not to be scaled. If the required dimensions or information cannot be found herein, the Architect shall be requested to interpret the documents, and his interpretations shall be final and binding.

H. The General Contractor shall be solely responsible for all trash removal from the demised premises at the end of working day. Coordinate with Owner and Landlord.

I. The General Contractor shall be responsible for repair or replacement for any damage caused by him or his Sub-Contractors to existing work in place

J. The General Contractor is responsible for providing temporary bracing, as necessary to ensure the vertical and lateral stability of the entire structure or a portion thereof during construction as necessary

K. The General Contractor is responsible for providing all engineering services required by code including but not limited to design, inspection, and certification

1.2 NOTES REGARDING INSPECTION OF EXISTING SPACES/BUILDING

A. While the size and location of new work and equipment in the existing building has been indicated on the drawings as accurately as possible, the Contractor shall adjust his work as required to avoid existing ducts, pipes, conduits, structural members and the like not shown on the plans. Contractor shall adapt his work to meet all actual conditions on the site and in the existing building without additional cost to the Tenant.

B. Contractor shall inspect the premises and make a detailed examination of all locations where new work is to be installed. Contractor shall verify location of all utilities and shall notify Architect of any discrepancies prior to commencing work. The Contractor shall be responsible for any damages to underground utilities encountered in areas where excavations are indicated and shall repair any such damage at his own expense. Where utility lines must be maintained under building, they shall be properly sleeved through foundation walls.

C. After inspecting the premises and examining the drawings, the Contractor shall notify the Engineer and Architect of any defects, discrepancies, problems, uncertainties or clearances required for the installation of new work. Contractor shall await resolution prior to proceeding with the work and will be responsible for all changes necessary without additional cost to the Owner if he neglects to notify the Architect.

D. No extras will be allowed for claims due to unforeseen or unanticipated conditions which could have been discovered by each Contractor during inspection of the site, during bidding period and prior to the commencement of the work

1.3 REGULATORY REQUIREMENTS

A. All work is to be performed and installed in compliance with governing local building codes and regulations. The Contractor shall be responsible for obtaining any required building permits for the performance of this work. Permit fees shall be reimbursed by Owner.

B. The General Contractor is to build and maintain construction barricades (all necessary lights, sign, etc.) for the protection of the public, as per local ordinances and Landlord requirements and obtain all required permits

1.4 BASE BUILDING COORDINATION

A. All new Construction is to be properly integrated with the existing perimeter walls, structural framing, roofing, plumbing, electrical, and other building components as applicable

B. Owner's General Contractor shall consult and coordinate with the Landlord's Construction Coordinator in all matters of workmen parking, delivery and storage of materials, safety protection, trash removal, use of temporary facilities and other such operations in advance

C. The General Contractor shall provide blocks, openings, cores, etc. not specifically shown on the drawings as necessary for mechanical and electrical equipment, vents, ducts, and typical details. All cores and penetrations are to be approved by Landlord's structural engineer.

D. Any alterations, additions, reinforcements, or modifications to Landlord's structure, piping, conduit, or ductwork to accommodate Owner's work, including slab infill, shall not be performed without in each instance Owner obtaining Landlord's prior written approval. Owner shall leave Landlord's structure as strong as or stronger than the original design and with finishes unimpaired. Landlord may require that approved structural or mechanical/electrical modifications be performed by Landlord's contractor under contract to Owner at Owner's expense and Landlord may further required that engineering analysis, review, or design be performed by Landlord's engineer at Owner's expense. If changes are made without written approval, such changes shall be the legal and financial responsibility of the Contractor to replace or repair as directed by the Landlord's structural engineer.

E. Extra care must be taken to control dust, noise and safety of workmen, patrons, tenants, etc. General Contractor shall properly protect work for public safety and against accident, weather or any other hazard with lights, guard rails, etc. as necessary (temporary barricade if needed). Any damage between construction line & temporary barricade shall be repaired or replaced at G.C.'s expense.

1.5 SELECTIVE DEMOLITION

A. Work included: Contractor to provide all work, labor, materials, and equipment to complete all the demolition as specified herein or shown on these drawings and notes

B. Summary: Demolish and remove selected portions of building, demolish and remove selected site elements, demolish and remove below grade abandoned building foundation as required for new construction, disconnect, cap, or seal utilities prior to demolition

C. Patch and repair damaged surfaces caused by selective demolition operations. Demolished materials become Contractor's property, unless noted otherwise. Dispose of demolished materials off site at a government approved dumping site.

SECTION 01330 - SUBMITTAL PROCEDURES

1. GENERAL

1.1 SUMMARY

A. This section outlines requirements for submittals during the construction process. Refer to individual specification section for specific submittals required for each section.

1.2 PROCEDURES

A. Submittals:

1. Identify project, contractor, subcontractor, major supplier
2. Identify deviations from Contract Documents
3. Provide space for Contractor and Architect review stamps
4. Contractor: Thoroughly review and stamp submittals from subcontractors prior to submitting to Architect
   a. Thoroughly review submittals and indicate where conflicts occur with Contract Documents and with work of other subcontractors
   b. Return submittals which may vary significantly from Contract Documents
   c. Cursory review and stamping of subcontractor submittal by Contractor shall not be acceptable
   d. When emailing the submittal, the contractor shall copy more than one Aria team member on the email
   e. The Architect takes no responsibility for emailed submittals that have technological incompatibilities

B. After Architect review of submittal, revise and resubmit as required and identify changes made since previous submittal

1.3 CONSTRUCTION PROGRESS SCHEDULES

A. Submit one (1) electronic copy of the construction progress schedule with separate item for each major trade and operation, identifying first day of each week within fourteen (14) days after the award of contract, and at least ten (10) business days prior to submitting applications of payment

1.4 SHOP DRAWINGS

A. Submit electronic shop drawing copy in 24-bit color pdf format (or 300 dpi minimum if scanned), clear and to scale with transmittal to the Architect. Transmittal must contain due date. Each submittal must be attached as a separate file and named accordingly. Do not set permission restrictions on attachments. Whenever possible, create digital files from originals for clarity. Unreadable or illegible submittals will be rejected.

B. After General Contractor review, distribute.

C. Shop Drawing to be presented in a clear and thorough manner. Title each drawing with Project name and number; identify each element of drawings by reference to sheet number and detail, schedule or room number of contract documents. Identify field dimensions, show relation to adjacent or critical features or work or products.

1.5 SAMPLES

A. Submit full range of manufacturer's standard colors, textures, and patterns except when more restrictive requirements are specified for Architect's selection

B. Submit a minimum of three (3) samples unless otherwise specified; Architect will retain one sample; maintain one set of approved samples at Project Field Office

1.6 PRODUCT DATA

A. Submit only pages which are pertinent in electronic format. Mark each page to identify pertinent products referenced to project manual section and article number. Show reference standards, performance characteristics and capacities, wiring and piping diagrams and controls component parts finishes dimensions and required clearances.

1.7 MATERIAL SAFETY DATA SHEET (MSDS)

A. Submit a MSDS that states all physical properties of the specific product or assembly that is submitted. If the V.O.C. value is not explicitly shown on the MSDS submit additional information as required to vary the V.O.C. quantities of the product or assembly.

1.8 MOCK-UPS

A. Erect field samples and mock-ups on site in accordance with requirements where included in Specification section or where referenced in finish schedule.

1.9 SCHEDULE OF VALUES

A. The general contractor shall submit one (1) electronic copy of the schedule of values within 14 days after the award of contract, and at least 10 business days prior to submitting applications for payment.

B. Show a line item for each section used in this specification that is subdivided into material, labor, and overhead and profit. Contractor to provide percentage of total completion and percentage of completion achieved for each progress payment. Provide unit costs for material and labor.

C. For each line item show all Sub contractors, material suppliers and the amounts to become due each.

D. Itemized separate line item costs for each of the following general costs:

1. Performance and Payment Bonds
2. Field supervision
3. Temporary utilities and controls
4. Temporary construction
5. Daily cleaning
6. General contractor overhead and profit
7. List allowances separately

1.10 APPLICATION FOR PAYMENT

A. Submit application at least ten (10) days before the date established for each progress payment per Article 9 of the AIA document A201"General Conditions of the Contract for Construction"

B. Submit an adjusted schedule of values for each line item where payment is requested showing the following:

1. Monetary amounts requested for the progress payment
2. Percentage of completion achieved for the progress payment
3. Total percentage of completion at the date of progress payment request

C. Monetary amount of payment requested to match percentage of completion achieved for progress payment on the date of submission of application for payment

D. Submit all other data as required by other sections of this specification

SECTION 01500 - TEMPORARY FACILITIES AND CONTROLS

1. GENERAL

1.1 ELECTRICITY AND LIGHTING

A. Provide electrical service required for construction operations, with branch wiring and distribution boxes located to allow service and lighting by means of construction-type power cords

B. Provide lighting for construction operations

1. Permanent lighting may be used during construction; maintain lighting and relamp prior to turnover

1.2 HEAT AND VENTILATION

A. Provide temporary heat and ventilation as required to maintain specified conditions for construction operation, to protect materials and finishes from damage due to temperature and humidity

B. Do not use the permanent HVAC system for temporary heat & ventilation unless written approval from the owner is granted

C. Seal all registers, grills, diffusers and transfer ducts completely until final building flush out has started and all other construction has ceased

D. Replace all unit filters with new before turnover

1.3 WATER AND SANITARY FACILITIES

A. Provide water service required for construction operations; extend branch piping with outlets located so water is available by use of hoses

B. Provide and maintain sanitary facilities and enclosures as required by applicable authorities

1.4 BARRIERS

A. Provide barriers as required to prevent public entry to to construction areas and to protect adjacent properties from damage from construction operations

1. Fence: Provide minimum of 6'-0" high commercial grade chain link or painted solid wood fence around construction site; equip with gates with locks
2. Interior demising barriers: Construct interior demising barriers in compliance with Landlord's requirements

B. Where potentially in danger of damage by construction operations, provide barriers around trees and plants designated to remain

1.5 CLEANING DURING CONSTRUCTION

A. Control accumulation of waste materials and rubbish; dispose of off-site at intervals approved by Architect, landlords' rep and other applicable authorities

B. Clean interior areas prior to start of finish work, maintain areas free of dust and other contaminants during finishing operations

SECTION 01632 - SUBSTITUTIONS

1. GENERAL

1.1 SUBSTITUTIONS

A. Requests will be considered only when a product becomes unavailable due to no fault of Contractor. More than one request for substitution will be considered if necessary.

B. Provide identification with manufacturer's literature and samples where applicable

C. Itemize comparison of proposed substitution with product specified and list significant variations

D. Note effect of substitution on other work, products, or separate contracts

E. Substitutions will not be considered for acceptance when:

1. They are indicated or implied on submittals without a formal request from Contractor
2. They are requested directly by a subcontractor or supplier
3. Acceptance will require substantial revision of Contract Documents

F. Substitute products shall not be ordered without written acceptance of Architect

G. Architect will determine acceptability of proposed substitutions and reserves the right to reject proposals due to insufficient information

1.2 CONTRACTOR'S REPRESENTATION

A. Requests constitute a representation that Contractor:

1. Has investigated proposed product and determined it meets or exceeds, in all respects, specified product
2. Will provide same warranty for substitution as for specified product
3. Will coordinate installation and make other changes which may be required for work to be complete in all respects
4. Waives claims for additional costs which subsequently become apparent
5. Will pay costs of changes to drawings, details and specifications required by accepted substitutions

SECTION 01741 - WARRANTIES

1. GENERAL

1.1 CONSTRUCTION WARRANTY

A. General Contractor to warranty all work and materials from defects for one year from date of Substantial Completion. Construction Warranty to have to following provisions during the duration of the warranty:

1. Contractor shall promptly correct work rejected by Architect as defective or as failing to conform to Contract Documents whether observed before or after Substantial Completion and whether or not fabricated, installed or completed
2. Contractor shall bear costs of correcting such rejected work, including compensation for Architect's additional services made necessary because of corrections
3. Period of correction shall be one year after Date of Substantial Completion of Work or designated portion of Work, or within such longer period as prescribed by law and by terms of special warranties required in Contract Documents

1.2 MANUFACTURE WARRANTY

A. Standard product warranties are preprinted written warranties published by the individual manufacturers for particular products and are specifically endorsed by the manufacturer to the Owner

B. Special warranties are written warranties required by or incorporated in the Contract Documents, either to extend time limits provided by standard warranties or to provide greater rights for the Owner

C. Disclaimers and Limitations: Manufacturer's disclaimers and limitations on product warranties do not relieve the Contractor of the Warranty on the Work that incorporates the products. Manufacturer's disclaimers and limitations on product warranties do not relieve suppliers, manufacturers, and subcontractors required to countersign special warranties with the Contractor.

D. Related Damages and Losses: When correcting failed or damaged warranted construction, remove and replace construction that has been damaged as a result of such failure or remove and replace to provide access for correction of warranted construction

E. Reinstatement of Warranty: When work covered by a warranty has failed and been corrected by replacement or rebuilding, reinstate the warranty by written endorsement. The reinstated warranty shall be equal to the original warranty with an equitable adjustment for depreciation.

F. Replacement Cost: Upon determination that Work covered by a warranty has failed, replace or rebuild the Work to an acceptable condition complying with requirements of the Contract Documents. The contractor is responsible for the cost of replacing or rebuilding defective Work regardless of whether the Owner has benefited from use of the Work through a portion of its anticipated useful service life.

G. Owner's Recourse: Expressed warranties made to the Owner are in addition to implied warranties and shall not limit the duties, obligations, rights, and remedies otherwise available under the law. Expressed warranty periods shall not be interpreted as limitations on the time in which the Owner can enforce such other duties, obligation, rights, or remedies.

1. Rejection of Warranties: The Owner reserves the right to reject warranties and to limit selection to products with warranties not in conflict with requirements of the Contract Documents

H. When the Contract Documents require the Contractor, or the Contractor and a subcontractor, supplier or manufacturer to execute a special warranty, prepare a written document that contains appropriate terms and identification, ready for execution by the required parties. Submit a draft to the Owner, through the Architect, for approval prior to final execution.

SECTION 01770 - CLOSEOUT PROCEDURES

1. GENERAL

1.1 SUBSTANTIAL COMPLETION

A. When work is substantially complete and ready for a walk through, submit written certification indicating:

1. In the Statement for Payment that coincides with, or first follows, the date Substantial Completion is claimed, show 100 percent completion for the Work claimed as substantially complete. Advise the Owner of pending insurance changeover requirements.
2. Submit specific warranties, workmanship bonds, maintenance agreements, final certifications, and similar documents
3. Submit record drawings, maintenance manuals, property surveys, and similar final record information
4. Deliver tools, spare parts, extra stock, and similar items
5. Changeover locks and transmit keys to the Owner
6. Complete startup testing of systems and instruction of operation and maintenance personnel. Remove temporary facilities, mockups, construction tools, and similar elements.
7. Complete final cleanup requirements, including touch-up painting and change-out of equipment filters. Touch up and repair and restore marred, exposed finishes.

1.2 FINAL COMPLETION

A. When comments and work from the review at substantial completion are resolved and completed, submit written certification indicating:

1. Work has been inspected for compliance with Contract Documents
2. Work has been completed in accordance with Contract Documents and have deficiencies listed with Certificate of Substantial Completion have been corrected
3. Equipment and systems have been tested in presence of Owner's representative and are operational
4. Work is complete and ready for final inspection

1.3 FINAL CLEANING

A. Execute final cleaning prior to final inspection

1. Clean interior and exterior surfaces exposed to view; remove temporary labels, stains and foreign substances; polish transparent and glossy surfaces; vacuum soft surfaces
2. Clean equipment and fixtures to a sanitary condition, clean filters of mechanical equipment, replace filters where cleaning is impractical
3. Clean site; sweep paved areas
4. Remove waste, surplus materials and rubbish from Project and site

1.4 PROJECT RECORD DOCUMENTS

A. Indicate actual work on as-built Drawings; indicate actual products used in Project Manual, including manufacturer, model number and options

B. At Contract close-out submit documents with transmittal letter containing date, Project title, Contractor's name and address, list of documents, and signature of Contractor

C. Affidavits A.I.A. G706, G706A, G707

1.5 OPERATION AND MAINTENANCE DATA

A. Provide data for:

1. Electrically operated items
2. Mechanical equipment and controls
3. Electrical equipment and controls
4. Submit two sets prior to final inspection, bound in 8½" by 11" three-ring binders and systems, using operation and maintenance data as basis of instruction

1.6 SYSTEMS DEMONSTRATION

A. Instruct owner's personnel in operation, adjustment, and maintenance of equipment and systems, using operation and maintenance data as basis of instruction

1.7 WARRANTIES

A. Submit written warranties to the Architect prior to the date stated for Substantial Completion as required by each individual section per "Section 01741 - Warranties"

B. Bind warranties in heavy-duty, commercial-quality, durable 3-ring, vinyl-covered loose-leaf binders, thickness as necessary to accommodate contents, and sized to receive 8-1/2 - by - 11 inch paper

1. When warranted construction requires operation and maintenance manuals provide additional copies of each required warranty, as necessary, for inclusion in each required manual

SECTION 03301 - CAST IN PLACE CONCRETE

1. GENERAL

1.1 SUMMARY

A. Provide all labor, material, work and equipment necessary to complete all Cast-In-Place Concrete as shown on the drawings or specified herein, including but not limited to:

1. Cast-in-place concrete-not shown on the structural drawings
2. Vapor retarder (same as vapor barrier)
3. Steel reinforcement bars, & accessory ties, anchors, supports, etc.
4. Steel reinforcement wire fabric, & accessories
5. Floor sealer/hardener
6. Flatwork control joints

1.2 SUBMITTALS

A. Submit product data for each product used:

1. Mix design description
2. Mix design testing reports for each mix used
3. Cold weather placement procedures
4. Warm Weather placement procedures

B. Submit shop drawing showing the following:

1. Steel reinforcing detailing and fabrication
2. Location of control and expansion joints

1.3 DESIGN REQUIREMENTS

A. Concrete materials and workmanship shall be in accordance with the latest edition of the American Concrete Institute's publications unless more stringent requirements are specified on the contract drawings or these specifications:

1. ACI 117 - Tolerances for Concrete Construction
2. ACI 201.2 - Guide to Durable Concrete
3. ACI 301 - Specifications or Structural Concrete
4. ACI 302 - Recommended practice for Concrete Floor and Slab Construction
5. ACI 304 - ACI manual for Concrete Inspection
6. ACI 311 - Recommended Practice for Measuring, Mixing, Transporting and Placing Concrete
7. ACI 315 - Details and Detailing of Concrete Reinforcement
8. ACI 318 - Building Code Requirements for Reinforced Concrete
9. ACI 347 - Recommended Practice for Concrete Form Work

2. PRODUCTS

2.1 MATERIALS

A. Portland Cement: Conforming to ASTM C150 in types as recommended by the ACI for the specific project conditions to which the concrete will encounter during curing and after installation

B. Fly Ash: If fly ash is used it must conform to ASTM C618, Class C or F

C. Aggregates:

1. Fine and coarse aggregates for normal weight structural and non-structural concrete: ASTM C33
2. Aggregates for lightweight structural and non-structural concrete: ASTM C330
3. Alkali Silicate Reactivity: Expansion of fine aggregate tested per ASTM C1260 shall not exceed 0.15%
4. If fly ash or other pozzolans are used to reduce shrinkage to meet this requirement, expansion of Fine aggregate tested per ASTM C1260 without fly ash or other pozzolans shall not exceed 0.25%
5. Coarse aggregates shall not contain quartzite or gneiss

D. Water: Potable, clean, and free from deleterious amounts of acids, alkalies or organic materials

E. Admixtures:

1. Air Entraining Admixture: ASTM C260
2. Water Reducing Admixtures: ASTM C494, Type A and free from chlorides and added lignin
3. High-Range Water-Reducing Admixture (Superplasticizer): ASTM C494, Type F or G, free from chlorides and added lignin
4. Prohibited Admixtures: Calcium chloride, thiocyanates or admixtures containing more than .05% chloride ions

2.2 Accessories:

A. Under slab vapor barrier: Provide under slab vapor retarder as show on construction drawings per "Section 07191 - Under Slab Vapor Retarders"

B. Expansion joint and isolation joint filler: Preformed, resilient, non-extruding asphalt impregnated cane fiber, ASTM D1751

C. Reinforcing Steel: ASTM A615 or ASTM A996

D. Welded Wire Fabric: ASTM A185

E. Sheet Materials for Curing Concrete: ASTM C171

F. Splash Blocks: Poured-in-place, factory precast, or job site cast

2.3 MIXES

A. Submit concrete mix design for each type of concrete at least 14 days prior to the proposed start of placement. Mix designs must be reviewed prior to pouring concrete. Review is for conformance with specification requirements only. Contractor is responsible for performance.

B. Concrete shall conform to the requirements of ASTM C94 (Option A) unless other requirements of this project specification are more stringent. Establish mix proportions according to the procedure in ACI 301.

C. Concrete Materials and Mixing for fiber-reinforced concrete: ASTM C1116 alternative number 2, performance level 1, and toughness index I5

D. Provide concrete with workability such that it will fill the forms, without voids or honeycombs, when properly vibrated, without permitting materials to separate or excess water to collect on the surface

E. Provide mixes meeting the following minimum requirements:

1. Exterior Concrete:
   a. Minimum 28 day compressive strength: 3,000 psi
   b. Maximum water to cement ratio: 0.45
   c. Minimum Cement Content: 564 lb./cu. yd.
   d. Air-entrainment by volume: 6%-8% depending upon size of aggregate used
2. Exterior Concrete Flat Work:
   a. Minimum 28 day compressive strength: 3,000 psi
   b. Maximum water to cement ratio: 0.45
   c. Minimum Cement Content: 564 lb./cu. yd.
   d. Air-entrainment by volume: 6%-8% depending upon size of aggregate used
3. Interior Concrete Slab on Grade:
   a. Minimum 28 day compressive strength: 3,000 psi
   b. Maximum water to cement ratio: 0.45
   c. Minimum Cement Content: 564lb./cu. yd.
   d. Air-entrainment by volume: 2%-3% depending upon size of aggregate used

F. Substitution of fly ash for Portland Cement shall not exceed 30% by weight of cement for footings and 25% by weight of cement for other concrete

G. Exterior concrete includes: exterior sidewalks, aprons and slabs; semi-exterior slabs at overhead doors, loading docks, etc.; exterior walls, piers, columns, etc.

H. Structural lightweight concrete shall have an air-dry unit weight, per ASTM C567, of 115 pcf ±3 pcf

I. Lightweight non-structural concrete topping shall have a freshly mixed weight of 80 pcf ±3 pcf, Air-dry density to be 70 pcf, Determine weights per ASTM C567

3. EXECUTION

3.1 INSTALLATION

A. Formwork: Design, construct, erect, shore, brace, and maintain formwork according to ACI 301

B. Graded Aggregate Fill: Install minimum 4" thick layer of number 57 stone, clean and washed sand or clean river rock under slab unless noted otherwise in these specifications or the contract drawings. Compact aggregate fill later to 100% Standard Proctor.

C. Vapor Retarder: Install, protect, and repair under slab vapor retarder sheets according to ASTM E1643; place sheets in position with the longest dimension parallel with direction of pour

D. Steel Reinforcement: Comply with CRSI's "Manual of Standard Practice" for fabricating, placing, and supporting reinforcement

1. Do not cut or puncture vapor retarder. Repair damage and reseal vapor retarder before placing concrete.

E. Joints: Install expansion and control joints as indicated on drawings and as required to control cracking and allow for normal thermal expansion and contraction

F. Concrete Placement: Comply with recommendations in ACI 304R for measuring, mixing, transporting, and placing concrete

1. Do not add water to concrete during delivery, at Project site, or during placement
2. Consolidate concrete with mechanical vibrating equipment

G. Tolerances: Comply with ACI 117, "Specifications for Tolerances for Concrete Construction and Materials"

H. General: Protect freshly placed concrete from premature drying and excessive cold or hot temperatures. Comply with ACI 306.1 for cold-weather protection, and follow recommendations in ACI 305R for hot-weather protection during curing.

I. Curing Methods: Cure formed and unformed concrete for at least seven days by moisture curing, moisture-retaining-cover curing, curing compound, or a combination of these

SECTION 03351 - INTEGRAL STAINED CONCRETE

1. GENERAL

1.1 SUMMARY

A. Provide integral and dry shake color finish for cast-in-place concrete, with curing and finishing materials; non-slip finish

B. Materials: Materials for special concrete finishes shall each come from a single source, and shall not be changed throughout Project

2. PRODUCTS

2.1 MATERIALS

A. See Finish Legend sheet on drawings

B. Broom Finish at Exterior

C. Smooth hard-troweled interior floor finish required, use of textures not acceptable

3. EXECUTION

3.1 APPLICATION

A. Apply dry-shake coloring and curing materials in process conforming with coloring material manufacturer recommendations and instructions as required to match approved samples and mock-up

B. Apply two coats of specified sealer in accordance with manufacturer's recommendations and application instructions and as required to match approved samples and mock-up

SECTION 04200 - UNIT MASONRY

1. GENERAL

1.1 SUMMARY

A. Furnish and Install: All masonry work indicated on the drawings and specified, including but not limited to the following:

1. Decorative cut concrete unit masonry
2. Concrete masonry units (CMU)
3. Clay masonry units (Common Brick or Face Brick)
4. Furnish and install control joints as indicated on the drawings
5. Installation of steel lintels and other built-in miscellaneous metal items and required accessories and/or reinforcement

B. The price for all work specified in this Section shall be included in the total price indicated by the Bidder in General Contract Work

1.2 QUALITY ASSURANCE

A. Certification:

1. Competence: The approved mason must have a reputation for doing satisfactory work on time and shall have successfully completed comparable work. The Architect reserves the right to approve the mason selected.

B. Materials:

1. Masonry Units: Obtain masonry units from one manufacturer cured by one process and of uniform texture and color, for each type required for each continuous area and visually related areas. Whenever concrete units are shown or scheduled to be painted, provide fine textured units.
2. Mortar: Do not change source or brands of masonry mortar materials during the course of the work
3. Decorative Cut Masonry Units: Uniform texture, color and tolerances
4. Do not use metal reinforcing, or ties having loose rust or other coating, including ice, which will reduce or destroy bond

C. Codes: Comply with the applicable requirements of governing authorities and codes for the types of masonry construction shown

D. Coordination: Review installation procedures and coordinate with other work that must be integrated with masonry

E. Cut stone workmanship and fabrication shall comply with quality standards and practices of Indiana Limestone Institute

1.3 SUBMITTALS

A. Submit product data for each product used

2. PRODUCTS

2.1 Masonry Units

A. Concrete Masonry Units (CMU): Nom. Size, 8in x 8in x 16in or 4in x 8in x 16in

1. Hollow load-bearing units: ASTM C90, Grade N, Type I, normal weight
2. Provide for lintels and bull nose corners as indicated on drawings

B. Clay Masonry Units (Common Brick or Face Brick):

1. Building (common) brick, ASTM C62, Grade SW
2. Facing brick, unglazed, ASTM C216, Grade SW, Type FBS

2.2 Mortar & Grout

A. Mortar: ASTM C270, Type N, color to match color selected by architect from manufacture's full range of colors

B. Portland Cement: ASTM C150, Type I, non-staining, without air entrainment. Use Type III high-early strength as required for laying masonry in cold weather.

C. Masonry Cement: ASTM C91, Type II, non-staining, except with 12% maximum air content by volume, not acceptable for exterior applications

D. Hydrate Lime: ASTM C207, Type S, special finishing hydrated lime, non-air entrained

E. Aggregate for Mortar: Sand, ASTM C144

F. Water: Clean potable water free of deleterious materials which would impair strength or bond

G. Commercial Cement Grout: Proprietary compound of Portland cement and additives, factory blended to decrease shrinkage and increase moisture resistance

1. Products offered by manufacturers to comply with the requirements and include the following:
   a. Hydroment Joint Filler; Upco Chem/USM
   b. L & M Acid-R Grout; L & M-Surco
   c. SAC; Syracuse

H. Fine Aggregate for Grout; Sand, ASTM C404, size No 1

I. Coarse Aggregate for Grout: ASTM C404, size No. 8 or size No. 89

2.3 STEEL REINFORCEMENT BARS: Steel Bars complying with ASTM A615, Grade 60 unless otherwise specified by structural engineer

2.4 Masonry Accessories

A. Manufactures: Provide products that comply with the project requirements and are manufactured by the following

1. Dur-O-Wal
2. AA Wire Products
3. Masonry Reinforcing Corp of America
4. Heckmann Building Products Inc.

B. Single Wythe Joint Reinforcement: To consist of ladder type joint reinforcement manufactured per ASTM A951 from hot dip galvanized steel per ASTM A153

C. Multi-Wythe Adjustable Joint Reinforcement: To consist of adjustable ladder type joint reinforcement equal to Dur-O-Wal's Ladder-Eye- DA3600 system manufactured per ASTM A951 from hot dip galvanized steel per ASTM A153

D. Wire mesh ties: Wire mesh ties or hardware cloth used to anchor non load-bearing partitions to intersecting masonry

1. Manufacture from at least 15-guage zinc or copper-coated steel wire, have a ¾ in mesh and be at least 12 in. long. The width should be 1 in. less than the wall thickness.

E. Adjustable Wall Ties- Metal Stud Back-up:

1. Veneer Anchor Screw on Plates: Hot dip galvanized steel per ASTM A153. Plat should be equal to Dur-O-Wal # DA210 veneer anchor screw on plate
2. Triangular Wall Tie: 3/16" diameter Hot dip galvanized steel per ASTM A153

F. Adjustable Wall Ties- Structural Steel Back-up:

1. Channel anchor slot manufactured from galvanized sheet steel per either ASTM A153 nor ASTM A653. Channel anchor should be equal to Dur-O-Wal # DA901 Channel Anchor Slot.

G. Wall Flashing: The product supplied shall be marked with the manufacturer or brand name factory's applied at frequent intervals, permitting easy identification. The Contractor has the option of installing any one of the types of materials listed below.

1. Copper reinforced with inter-lacing sisal fibers and bonded with two layers of asphalt to heavy creped craft paper. Copper Armored Sisalkraft, Sandell, Wasco or equal, 3 oz. psf.
2. Non-reinforced, homogeneous, waterproof, impermeable sheeting compound of elastomeric substances which have been reduced to a thermoplastic state and extruded into continuous sheeting approximately 0.02" thick and weighing approximately 22 ounces per square yard. Nervastral, Sandell Nu-Flex, or equal.

H. Compressible Filler: Expanded polyethylene.

I. Control Joint: Install masonry control joint in walls as indicated on plans and elevations or as required. Joint material fabricated of PVC with a hardness of 70 durometer. Vinylex type CJ-A, or Dur-O-Wal. Provide full bond break at all control joints.

J. Mortar Net: Dur-O-Wal, DA1008 Mortar Net or equal installed in at base of all cavities where a cell vent is installed

K. Cell Vent: Dur-O-Wal, DA1006 Cell Vent or equal as install as shown on drawings

2.5 MIXES

A. General: Do not lower the freezing point by use of admixtures or anti-freeze agents. Do not use calcium chloride in mortar or grout.

B. Mortar for Unit Masonry: Comply with ASTM C270, Proportion Specifications for Type 'N' Mortar, except where indicated otherwise

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FIELD VERIFICATION
Contractor shall verify all figured dimensions and conditions at the job site and notify Aria Group Architects, Inc. of any dimensional errors, omissions or discrepancies before beginning or fabricating any work. Do not scale these drawings.

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NO.	DATE	REMARKS

REVISIONS

STATE OF MISSOURI
DANIEL PAUL BERNATEK
NUMBER A-2010026259
ARCHITECT
8/19/21
EXP 12/31/22

Drawing Title
SPECIFICATION SHEET

Job No. 204530
Drawn Author
Scale
Date 08/19/2021

Sheet No.
G1.1

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C. Grout: Portland cement, sand gravel, and water, proportioned as required per ASTM C476 to provide a 28-day minimum compressive strength of 3,000 psi

D. Job Mixing Mortar or Grout:

1. All materials for mortar or grout shall be measured by volume. Combine and mix cement, lime water and aggregates for a minimum of 5 minutes in a mechanical batch mixer. For mortar, add as much water as is required for workability. Mortar may be re-tempered by adding water and remixing, as required for workability. Do not use mortar or grout which has begun to set or if more than 2-1/2 hours or 1-1/2 hours if the temperature is 80 degrees, has elapsed after initial mixing.
2. Mix grout to have a slump of 10" plus or minus 1" at time of placement
3. Do not add air-entraining agents or other admixtures
4. Add tint to mortar as recommended by manufacture to ensure uniformity from batch to batch

2.6 INSULATION (where noted on drawings)

A. Rigid Insulation - see Section 07210 for products

B. Zonolite vermiculite loose fill in all CMU block core

3. EXECUTION

3.1 EXAMINATION

A. General:

1. Build masonry construction to the full thickness shown
2. Examine conditions, with installer present, for compliance with requirements, for installation tolerances, for site specific conditions, and other conditions affecting performance of unit masonry
3. Examine rough-in and built-in construction to verify actual locations prior to installation
4. Start of work will indicate acceptance of conditions

3.2 INSTALLATION

A. Basic Requirements:

1. Comply with ACI 530.1, the "Recommended Practices & Guides Specifications for Severe (Cold-Hot) Weather, Masonry Construction", all local codes and regulations, and this specification
2. Build chases and recesses as shown or required for the work of other trades. Provide not less than 8" of masonry between chases or recess and jamb of openings, and between adjacent chases and recesses.
3. Leave openings for equipment to be installed before completion of masonry work. After installation of equipment, complete masonry work to match work immediately adjacent to the opening.
4. Build chases and recesses as shown or required for the work of other trades. Provide not less than 8" of masonry between chases or recess and jamb of openings, and between adjacent chases and recesses.
5. Cut masonry units using motor driven saws to provide clean, sharp unchipped edges. Cut units as required to provide pattern shown and to fit adjoining work neatly. Use full-sized units without cutting wherever possible.
6. Lay out walls in advance for accurate spacing of surface bond patterns with uniform joint widths and to properly locate openings, movement type joints, returns and offsets. Avoid the use of less than half-size units at corner, jambs and wherever possible at other locations.
7. Lay-up walls plumb and true to comply with specified tolerances, with courses level, accurately spaced and coordinated with other work
8. Set decorative cut stone per "Section - 04851 Manufactured Masonry Veneer" and cast stone sections per "Section 04720- Cast Stone" of this specification
9. Lay exposed masonry in running bond with vertical joint in each course centered on units in courses above and below. Lay concealed masonry with all units in a wythe bonded by lapping not less than 2". Bond and interlock each course of each wythe at corners. Do not use units with less than 4" horizontal face dimensions at corners and jambs.

B. Construction Tolerances:

1. Variation from Plumb: For lines and surfaces of columns, walls and arises, do not exceed 1/4" in 10' or 3/8" in a story height of 20' maximum. Except for external corners, expansion joints and other conspicuous lines do not exceed 1/4" in any story or 20' maximum.
2. Variation from level: For lines of exposed lintels, sills, parapets, horizontal grooves and other conspicuous lines, do not exceed 1/4" in any bay or 20' maximum, nor 3/4" in 40' or more
3. Variation of Linear Building Lines: For position shown in plan related portion of columns, walls and partitions, do not exceed 1/2" in any bay or 20' maximum, nor 3/4" in 40' or more
4. Variation in Cross Sectional Dimensions of Multi-Width Elements: For columns and thickness of walls, from dimensions shown, do not exceed minus 1/4" nor plus 1/2"
5. Variation in Plans: Do not exceed 1/16" offset, unit to unit at joint
6. Comply with ACI 530.1, section 2.3.3.2

C. Setting - Stone:

1. All decorative cut stone units shall be set accurately in strict accordance with the contract and shop drawings
2. All caststone units shall be set accurately in strict accordance with the contract and shop drawings

D. Composite Walls:

1. Fill the vertical, longitudinal joint between withes (collar joint) solidly with mortar by parging the in-place wythe and shoving units into the parging
2. Provide weepholes in exterior applications located immediately above ledges and flashing, spaced maximum 2'-0" O.C.
3. Use 1'2' lengths of 1/4" cotton rope (sash cord) cut flush with face of wall

E. Cavity Walls:

1. Keep cavity clean of mortar droppings and other materials during construction
2. Tie exterior wythe to back up with continuous horizontal joint reinforcement as specified
3. Provide rope wicks and cell vents in head joints of exterior wythe of cavity wall located immediately above ledges and flashing, spaced maximum 2'-0" O.C. Recess cell vents 1/8" from face of masonry. Cut rope wicks flush with face of wall.
4. At rigid cavity wall insulation, install rope wicks so that the back of the rope wick comes in contact with the drainage plane of the rigid cavity wall insulation
5. Remove mortar from face of CMU prior to installation of liquid applied air barrier per Division 7 of this specification. Ensure direct contact of back of the ridged cavity wall insulation.
6. Cut insulation units to fit tight to each other. Fit courses of insulation between wall ties and other confining obstructions in cavity, with edges butted tightly in all directions. Press units firmly against inside of wythe.

F. Mortar Bedding and Jointing:

1. Lay hollow concrete masonry units with full mortar coverage on horizontal and vertical face shells. Bed webs in mortar in starting course on footings and foundation walls and in all courses of piers, columns and pilasters, and where adjacent to cells or cavities to be reinforced or filled with concrete or grout.
2. Maintain joint widths shown, except for minor variations required to maintain bond alignment. If not shown, lay walls with 3/8" joints.
3. Tool exposed joints slightly concave, except as otherwise shown or required to match existing
4. Cut joints flush for masonry walls, which are to be concealed or to be covered by other materials
5. Remove masonry units disturbed after lying; clean and reset in fresh mortar. Do not pound corners at jambs to fit stretcher units which have been set in position. If adjustments are required, remove units, clean off mortar, and reset in fresh mortar.

G. Stopping and Resuming Work:

1. Rack back 1/2 masonry unit length in each course; do not tooth. Clean exposed surfaces of set masonry, wet units lightly (if required) and remove loose masonry units prior to laying fresh masonry.

H. Built-In Work:

1. As the work progresses, build-in items specified under this and other sections and as required to complete the project. Fill in solidly with masonry around built-in items.
2. Fill space between hollow metal frames and masonry solidly with mortar
3. Where built-in items are to be embedded in cores of hollow masonry units, place a layer of metal lath in the joint below and rod mortar or grout into core

I. Horizontal Joint Reinforcing and Structural Bonding:

1. Provide continuous horizontal joint reinforcing at 16" O.C. vertically. Fully embed longitudinal side rods in mortar for their entire length with a minimum cover of 5/8" on exterior side walls and 1/2" at other locations. Lap reinforcement a minimum of 6" at ends of units. Do not bridge control and expansion joints with reinforcing except at wall openings.
2. Provide continuity at corners and wall intersections by use of pre-fabricated "L" and "T" sections. Cut and bed units as directed by manufacturer for continuity at returns, offsets, column fireproofing, pipe enclosures, and other special conditions.
3. Reinforce masonry openings greater than 1'-0" wide, with horizontal joint reinforcing placed in two horizontal joints approximately 8" apart, immediately above the lintel and immediately below the sill. Extend reinforcing a minimum of 2'-0" beyond jambs of the opening, bridging control joints where provided.
   a. In addition to wall reinforcing, provide additional reinforcing at openings as required to comply with the above
   b. For exterior walls, use truss type reinforcing for interior partitions; use either truss type or ladder type reinforcing

J. Anchoring Masonry Work:

1. Anchor masonry to structural members where masonry abuts or faces such member to comply with the following:
   a. Provide compressible filler not less than 1" thickness between masonry and structural member
   b. Provide expansion filler under all shelf angles and at face brick vertical masonry expansion joints
   c. Anchor masonry to structural members with metal ties embedded in masonry joints and attached to structure. Provide anchors with flexible tie sections.
   d. Space anchors as shown but not more than 16" O.C. vertically or 16" O.C. horizontally
   e. Weld veneer anchor plates to steel
2. Anchor single wythe masonry veneer to metal studs with masonry veneer anchors to comply with the following requirements:
   a. Fasten each anchor section through sheathing and air barrier to studs with self-sealing anti-corrosive fastener to ensure a weather tight seal
   b. Embed tie section in masonry joints. Provide not less than 1-1/2" Air space between back of masonry veneer wythe and face of sheathing
   c. Locate anchor section relative to course in which tie section is embedded to allow maximum vertical differential movement of tie up or down
   d. Space anchors as shown but not more than 16" O.C. vertically or 16" O.C. horizontally

K. Flashing of Masonry Work:

1. Provide flashing at masonry work, whether shown or not shown, at shelf angles, lintels, ledges, and other obstructions to interrupt the downward flow of water in the wall so as to divert such water to the exterior
2. Prepare masonry surfaces to be smooth, level, and free from projections, which might puncture flashing
3. Seal flashing penetrations with mastic before covering with mortar
4. At lintels and shelf angles, install shelf adhering flexible flashing directly on steel surface
5. Extend flashing beyond edge of lintels and walls at least 8" and turn up edge on sides to form pan to direct moisture to the exterior
6. Install flashings in accordance with manufacturer's instructions
7. Install reglets and nailers for flashing and other related work where shown to be built into masonry work
8. Copper reinforced flashing: Extend flashing through the exterior face of the masonry wall and terminate flashing 1/2" from face of wall. Turn down to form drip edge unless otherwise shown.
   a. Overlap flashing joints 4" minimum and provide flat locked seams set in mastic. Extend flashing beyond edge of lintels, sills and end terminations and turn up edges on sides to form end dam pan to direct moisture to the exterior.
9. Non-Reinforced, Homogeneous, Waterproof, Sheet Flashing: Remove Dust from contact surfaces. Prime as recommended by manufacture when surfaces are too dirty or dusty for good adhesion at initial touch and at temperatures below 40 degrees Fahrenheit.
   a. Install 2" stainless steel drip edge by extending 1-3/4" under the edge of exterior face of masonry wall, 1-3/4" over the edge of concrete at top of foundation walls, and 1-3/4" over edge of steel lintels or shelf angles. Edge of stainless steel drip edge to be bent down 1/4" at (45 degrees) to form drip. At foundation set 2" stainless steel drip edge in either bed of mastic or strip of self-adhering flexible flashing.
   b. Install the sheet flashing with the edge of the sheet set 1-1/2" onto the 1-3/4" horizontal portion of the 2" stainless steel drip edge. Overlap and press seams tight to provide a water tight seal.
   c. Install preformed boots at inside, outside corners, and at end dams at end terminations. Install sheet flashing 4" minimum over preformed boots. At end dams extend sheet flashing to exterior face of masonry and cut flush. In all cases overlap and press seam tight to achieve a water tight seal.
   d. In cavity wall construction where a concrete masonry unit back up wall abuts horizontal or vertical members of a structural frame, cover joint with a continuous sheet of rubberized asphalt flashing

3.3 Repair

A. Remove and replace masonry units which are loose, chipped, broken, stained or otherwise damaged, or if units do not match adjoining units and install in fresh mortar or grout, pointed to eliminate evidence of replacement

B. During the tooling of joints, enlarge any voids or holes, except weep holes, and completely fill with mortar

C. Point up all joints at corners, openings and adjacent work to provide a neat, uniform appearance, properly prepared for application of caulking or sealant compounds

3.4 CLEANING

A. Cleaning exposed, unglazed masonry surfaces: Wipe off excess mortar as the work progresses. Dry brush at the end of each day's work.

B. Final Cleaning:

1. After mortar is thoroughly set and cured, clean sample wall area of approximately 20 square feet. Obtain Architect's acceptance of sample cleaning before proceeding to clean rest of masonry work.
2. Prior to cleaning, remove all stains and graffiti using Sure-Klean Stand-Off Graffiti Remove, per manufacturer's instructions
3. Clean new concrete masonry surfaces with a product recommended by Sure-Klean or Process Solvent Company for the type of substrate. Conform to cleaning product manufacturer's instructions.
4. Acid cleaning of masonry will not be permitted
5. Other specially formulated masonry cleaning products will be acceptable

C. Sealer at Exterior Masonry: Provide sealer as noted on drawings or compatible with finished Masonex

SECTION 04720 - CAST STONE

1. GENERAL

1.1 SUMMARY

A. Provide all labor, materials and equipment to provide Cast Stone as shown on contract drawings and as described in this specification

1.2 SUBMITTALS

A. Submit product data for each product

B. Submit shop drawings that include the following:

1. Profiles
2. Cross-sections
3. Reinforcement
4. Exposed faces
5. Arrangement of all joints
6. Anchoring methods
7. Anchors
8. Annotation of stone types and details in their location in plan
9. Length of each cast stone piece

C. Submit samples for each product

D. Submit manufacturer's written maintenance instructions

1.3 QUALITY ASSURANCE

A. Manufacturer shall have completed at least ten (10) projects of similar scope and have at least ten (10) years' experience as a manufacture of cast stone products

B. Installer shall have completed at least ten (10) projects of similar scope and have at least ten (10) years' experience as an installer of cast stone products

C. Both the manufacturer and installer must be a member in good standing with the Cast Stone Institute

D. Follow the recommendations of the Cast Stone Institute for storage and handling of materials. Stained products will either not be accepted or will require cleaning per the recommendations of the manufacturer.

1. Cleaning: The cleaning of a product does not release that cast stone product from the color uniformity requirements of this specification. Non-conformance to those standards is grounds for rejection and replacement of each rejected cast stone product at the contractor's expense.

2. PRODUCTS

2.1 ARCHITECTURAL CAST STONE

A. Physical Properties: Cast Stone shall be in the sizes, shapes, and quantities as indicated on the contract drawings complying with ASTM C1364 and the following physical requirements:

1. Compressive Strength: 6,500 psi after 28 days, per ASTM C1194
2. Absorption: 6% max by the cold water method or 10% maximum by the boiling method for products at 28 days
3. Air Content: 4%-8% as tested per ASTM C1364
4. Freeze-Thaw: The Cumulative Percentage Weight Loss (CPWL) shall be less than 5% after 300 cycles of freezing and thawing
5. Linear Shrinkage: Shall not exceed 0.065% per ASTM C426
6. Colors: Refer to the drawings

2.2 CAST STONE RAW MATERIALS

A. Portland Cement: Type I, white and/ or grey, conforming to ASTM C150

B. Coarse Aggregates: Granite, quartz, or limestone conforming to ASTM C33

C. Fine Aggregates: Manufactured or natural sands conforming to ASTM C33

D. Colors: Inorganic iron oxide pigments conforming to ASTM C979. Carbon black pigments shall not be used. Refer to "Finish Legend" for colors.

E. Admixtures: Comply with the following:

1. Air-entraining Admixtures: Comply with ASTM C260
2. Types (A-G) for Water Reducing, Retarding, Accelerating, and High Range Admixtures: Comply with ASTM C494/C495M
3. Other Admixtures: Integral water repellents and other chemicals for which no ASTM standard exist must be shown suitable by proven field performance or through verifiable third party laboratory testing

2.3 MANUFACTURING TOLERANCES

A. Manufacturing tolerances are as follows:

B. Cross section dimensions shall not deviate by more than +/- 1/8"

C. Length of unit's shall not deviate by more than (length/360) or +/- 1/8" whichever is greater

D. Warp Bow or twist of units shall not exceed (length/360) or +/- 1/8" whichever is greater

E. Maximum Length: The maximum length of any Cast Stone unit is to be no more than 8ft in length

2.4 COLOR AND FINISH OF CAST STONE

A. Color: Refer to "Finish Legend" for specified color

B. Color Uniformity: Units shall exhibit a texture approximately equal to the approved sample when viewed under direct daylight illumination at a 10ft. distance

1. All colors must conform to the following requirements as measured by ASTM D2244 for permissible variation in color between units of comparable age subjected to similar weathering exposure
   a. Total color difference - not greater than 6 units
   b. Total hue difference - not greater than 2 units

C. Surface Uniformity: All surfaces intended to be exposed to view shall have a fine-grained texture similar to natural stone, with no air voids in excess of 1/32 inch. The density of such voids shall be less than 3 occurrences per any 1 inch. Voids shall not be obvious under direct daylight illumination at a 5ft. distance.

1. Units shall show no evidence of crazing

2.5 REINFORCEMENT

A. Cast Stone Units to be reinforced as required to ensure safe handling and structural stress after installation

1. Minimum reinforcing shall be 0.25 percent of the cross section area

B. Reinforcing Bars: Deformed steel bars complying with ASTM A615/A615M

1. Epoxy Coating: ASTM A775/A775M
2. Galvanized Coating: ASTM A767/A767M

C. Welded Wire Fabric: Conforming to ASTM A185

2.6 MISCELLANEOUS MATERIALS

A. Mortar: Type N, conforming to ASTM C270

B. All anchors, dowels and other anchoring devices and shims shall be fabricated from stainless steel complying with ASTM A276 or ASTM A666, Type 304

C. Sealants and Joint Materials: Provide either one-part "moisture cure" or "air cure". Two part system conforming to ASTM C920 and the following requirements:

1. Allowance for thermal and other movement to be within 25% of the joint size
2. Provide a Two component, polyurethane sealant or Silicon sealant that will ensure a weather tight seal and allow for thermal expansion and contraction for ten years or more without failure
3. Color: To match Cast Stone unless noted otherwise on contract drawings

3. EXECUTION

3.1 EXAMINATION

A. Examine substrates and conditions, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of cast stone

B. Proceed with installation only after unsatisfactory conditions have been corrected

C. Installing contractor shall check Cast Stone materials for fit and finish prior to installation. Do not set unacceptable units.

3.2 INSTALLATION

A. Set cast stone as indicated on contract drawings and per the recommendations of the manufacturer. Install anchors, supports, fasteners, and other attachments indicated or necessary to secure units in place. Set units accurately in locations indicated with edges and faces aligned according to established relationships and indicated tolerances.

B. Setting Tolerances: Comply with tolerances described in the Cast Stone Institute Technical Manual and the following:

1. Set cast stone units 1/8inch or less, within the plane of adjacent units
2. Joints, plus-1/16" minus-1/8"

C. Install all expansion and sealant joints as shown on shop drawings. All joints shall comply with the recommendations of the Cast Stone Institute.

3.3 REPAIR, CLEANING, AND PROTECTION

A. Repair any chips with touchup materials furnished by manufacturer

B. Saturated or stained units to be cleaned prior to setting with a manufacturer recommendations

C. Protect installed products from staining or chipping throughout the duration of construction

3.4 INSPECTION AND ACCEPTANCE

A. All installed units not conforming to the visual requirements of this specification will be rejected and replaced at the contractor's expense

B. Do not field apply water repellent until repair, cleaning, inspection, and acceptance is completed

SECTION 04851 - MANUFACTURED MASONRY VENEER

1. GENERAL

1.1 SUMMARY

A. Provide all work associated with the installation of manufactured stone veneer as shown on the contract drawings

1.2 SUBMITTALS

A. Submit product data for each product per "Section - 01330 Submittals"

B. Submit samples for each product per "Section - 01330 Submittals"

C. Submit manufacturer's written maintenance instructions per "Section 01700 Close-Out Procedures"

1.3 QUALITY ASSURANCE

A. Manufacturer must have at least 5 years' experience manufactured stone veneer

B. Installer must have at least five (5) years' experience installing manufactured stone veneer in projects similar in scope to that of this project

C. Must meet the minimum requirements for adhered precast veneer stone as set forth in the local building code

1.4 WARRANTIES

A. Provide a manufacturer's standard fifty (50) year warranty for all exterior manufactured stone veneer materials installed

2. PRODUCTS

2.1 MANUFACTURERS

A. Refer to Finish Legend located on the contract drawings for acceptable manufacturers

1. No Substitutions

2.2 MANUFACTURED STONE MATERIALS

A. Refer to Finish Legend for color and style of manufactured stone veneers

2.3 SETTING ACCESSORIES

A. In exterior applications provide one of the following:

1. A weather barrier per "Section 07270-Sheet Membrane Waterproofing for Plaster Cladding"
2. No. 15 non-perforated asphalt saturated organic felt conforming to ASTM D226

B. Fasteners: Galvanized staples, nails or screws of size, spacing, and type as recommended by manufactured stone veneer manufacturer

C. Mortar and Grout

1. Materials:
   a. Cement: ASTM C150 Type 1
   b. Mortar: ASTM C270Type N mortar with additional bonding agents per manufacturer's specifications
   c. Masonry sand, complying with ASTM C144
2. Color: Refer to Finish Legend located on the contract drawings

3. EXECUTION

3.1 EXAMINATION

A. Examine substrates which manufactured veneer stone is to be applied and ensure that substrates conform to the installation requirements of the manufacturer

B. Correct any non-conforming substrates prior to installation

C. Commencement of installation of manufactured stone products shall indicate acceptance of substrate conditions

3.2 INSTALLATION

A. Install manufactured stone veneer products in accordance with manufacturer's written recommendations

B. Protect finished work from rain for 48 hours following installation

SECTION 05400 - COLD-FORMED METAL FRAMING

1. GENERAL

1.1 SUMMARY

A. Section Includes:

1. Exterior steel-stud wall framing for cladding system per drawings
2. Interior steel stud partition framing gypsum wallboard assemblies

1.2 SYSTEM DESCRIPTION

A. AISI "Specifications": Calculate structural characteristics of cold-formed metal framing according to AISI's "Load and resistance Factor Design Specification for Cold-Formed Steel Structural Members"

B. Structural Performance: Engineer, fabricate and erect cold-formed metal framing to withstand design loads within limits and under conditions required

1. Design framing systems to withstand design loads without lateral deflections greater than 1/240 of the wall height
2. Exterior Framing; Wind Loads: Uniform pressure (velocity pressure of 40 lb per sq. ft. within 20 feet each building corner), acting inwards or outwards
3. Interior Framing: Design loads for interior framing shall be 5 lbs per sq. ft.
4. Design framing systems to provide for movement of framing members without damage or overstressing, exterior insulation and finish system component failure, connection failure, undue strain on fasteners and anchors, or other detrimental effects when subject to a maximum ambient temperature change (range) of 120 deg F (67 deg C)
5. Design framing system to accommodate deflection of primary building structure and construction tolerances, and to maintain clearances at opening

C. Design exterior nonload-bearing framing to accommodate lateral deflection without regard to contribution of exterior finish system

D. Engineering Responsibility: Engage a fabricator who assumes undivided responsibility for engineering cold-formed metal framing by employing a Registered Structural Engineer in the State which the project occurs to prepare design calculations, shop drawings, and other structural data

1.3 SUBMITTALS

A. Submit product data for each type of cold-formed metal framing, accessory, and product

B. Shop drawings showing layout, spacing, sizes, thicknesses, and types of cold-formed metal framing, fabrication, fastening and anchorage details, including mechanical fasteners. Show reinforcing channels, opening framing, supplemental framing, strapping, bracing, bridging, splices, accessories, connection details and attachments to other units of Work.

1. For cold-formed metal framing indicated to comply with certain design loadings, include structural analysis data sealed and signed by a Registered Structural Engineer in the State which the project occurs who was responsible for its preparation

1.4 QUALITY ASSURANCE

A. Welding Standards: Comply with applicable provisions of AWS D1.1 "Structural Welding CodeSteel" and AWS D1.3 "Structural Welding CodeSheet Steel"

B. Fire-Resistance Ratings: As indicated by design designations listed in UL "Fire Resistance Directory", or by Warnock Hersey or another testing and inspecting agency acceptable to authorities having jurisdiction

C. Structural Engineer Qualifications: A structural Engineer legally authorized to practice in the State where the project occurs and experienced in providing engineering services of the kind indicated that have resulted in the installation of cold-formed metal framing similar to this Project in material, design, and extent and that have a record of successful in-service performance

2. PRODUCTS

2.1 MATERIALS

A. For Exterior Framing; Galvanized-Steel Sheet: ASTM A446, zinc coated according to ASTM A525, and as follows:

1. Coating Designation: G 60
2. Grade: As required by structural performance

B. Galvanized Steel Studs: Manufacturer's standard C-shaped steel studs of web depths indicated, with lipped flanges, and complying with the following:

1. Design Uncoated-Steel Thickness:
   a. 0.0358 inch (20-gauge)
   b. 0.0474 inch (18-gauge)
   c. 0.0598 inch (16-gauge)
2. Web: Punched

C. For Interior Wall framing; Prime-Painted Steel Sheet: ASTM A570 or ASTM A611, cleaned, pretreated, and primed with manufacturer's baked-on, lead-and chromate-free, rust-inhibitive primer conforming to the performance requirements of FS TT-P-664

1. Grade: As required by structural performance

D. Steel Studs: Manufacturer's standard C-shaped steel studs of web depths indicated, with lipped flanges, and complying with the following:

1. Design Uncoated-Steel Thickness:
   a. 0.0358 inch (20-gauge)
   b. 0.0474 inch (18-gauge)
   c. 0.0598 inch (16-gauge)
2. Web: Punched

E. Galvanized Steel Track: Manufacturer's standard U-shaped steel track, unpunched, of web depths indicated, with straight flanges, and complying with the following:

1. Design Uncoated-Steel Thickness: Matching steel studs
2. Flange Width: Manufacturers standard deep flange deflection track where indicated, standard flange elsewhere

3. EXECUTION

3.1 INSTALLATION

A. Cold-formed metal framing may be shop or field fabricated for installation, or it may be field assembled

B. Install cold-formed metal framing and accessories plumb, square, true to line, and with connections securely fastened, according to manufacturer's recommendations and the requirements of this Section

1. Cut framing members by sawing or shearing; do not torch cut
2. Fasten cold-formed metal framing members by welding or screw fastening, as standard with fabricator. Wire tying of framing members is not permitted.
   a. Comply with AWS requirements and procedures for welding, appearance and quality of welds, and methods used in correcting welding work
   b. Locate mechanical fasteners and install according to cold-framed metal framing manufacturer's instructions with screw penetration joined members by not less than 3 exposed screw threads

C. Install framing members in one-piece lengths, unless splice connections are indicated for track or tension members

D. Provide temporary bracing and leave in place until framing is permanently stabilized

E. Fasten reinforcement plate over web penetrations that exceed size of manufacturer's standard punched openings

F. Erection Tolerances: Install cold-formed metal framing to a maximum allowable tolerance variation from plumb, level, and true to line of 1/8 inch in 10 feet and as follows:

1. Space individual framing members no more than plus or minus 1/8 inch from plan location. Cumulative error shall not exceed minimum fastening requirements of sheathing or other finishing materials.

3.2 INSTALLATION (EXTERIOR WALL)

A. Install continuous tracks sized to match studs. Align tracks accurately and securely anchor to supporting structure as indicated.

B. Squarely seat studs against webs of top and bottom tracks. Fasten both flanges of studs to top and bottom track unless otherwise indicated. Space studs as follows:

1. Stud spacing: See contract documents

C. Set studs plumb except as needed for diagonal bracing or required for nonplumb walls or warped surfaces and similar requirements

D. Isolate steel framing form building structure at locations indicated to prevent transfer of vertical loads while providing lateral support

1. Connect studs with vertical slide clips to continuous angles or supplementary framing anchored to building structure

E. Install horizontal bridging in curtainwall studs, spaced in rows not more than 48 inches apart. Fasten at each stud intersection.

1. Bridging: Combination of flat, steel-sheet strips of width and thickness indicated and stud-track blocking of width and thickness matching studs. Fasten flat straps to stud flanges and secure solid blocking to stud webs or flanges.

F. Install miscellaneous framing and connections, including stud kickers, web stiffeners, clip angles, continuous angles, anchors, fasteners, and stud girts, to provide a complete and stable curtainwall-framing system

G. Erection Tolerances: Bolt or weld framing at horizontal and vertical junctures to produce flush, even, true-to-line joints

1. Maximum variation in plane and true position between prefabricated assemblies should not exceed 1/16 inch

3.3 INSTALLATION (INTERIOR WALL)

A. Install continuous top and bottom tracks sized to match studs. Align tracks accurately and securely anchor at corners and ends, and at spacing recommended by the manufacturer, but not greater 24 inches for power-driven anchors

B. Squarely seat studs against webs of top and bottom tracks. Fasten both flanges of studs to top and bottom track. Space studs as indicated on drawings.

C. Set studs plumb except as needed for diagonal bracing or required for nonplumb walls or warped surfaces and similar requirements

D. Isolate steel framing from building structure at locations indicated to prevent transfer of vertical loads while providing lateral support

E. Install supplementary framing, blocking, and bracing in stud framing indicated to support fixtures, equipment, services, casework, heavy trim, furnishings, and similar work requiring attachment to framing

F. Install miscellaneous framing and connections, including supplementary framing, web stiffeners, clip angles, continuous angles, anchors, and fasteners, to provide a complete and stable wall-framing system

3.4 REPAIRS

A. Galvanizing Repairs: Prepare and repair damaged galvanized coatings on fabricated and installed cold-formed metal framing with galvanizing repair paint according to ASTM A780 and the manufacturer's instructions

B. Touchup Painting: Wire brush, clean, and paint scarred areas, welds, and rust spots on fabricated and installed prime-painted, cold-formed metal framing

1. Touchup painted surfaces with same type of shop paint used on adjacent surfaces

3.5 FIELD QUALITY CONTROL

A. Testing and Inspection Laboratory: A qualified Independent Testing and Inspection Laboratory employed and paid by Owner will perform field quality-control testing

B. Field and shop welds will be subject to inspection and testing

C. Testing laboratory will report test results promptly and in writing to Contractor and Architect

D. Remove and replace Work that does not comply with Specified requirements

E. Additional testing will be performed to determine compliance of corrected Work with specified requirements

3.6 PROTECTION

A. Provide final protection and maintain conditions in a manner acceptable to manufacturer and Installer to ensure that cold-formed metal framing is without damage or deterioration at the time of Substantial Completion

SECTION 05700 - ORNAMENTAL METALS

1. GENERAL

1.1 SUMMARY

A. Metal fabrications includes items made from iron and steel shapes, plates, bars, strips, tubes, pipes and castings which are not a part of structural steel or metal systems specified elsewhere

1.2 SUBMITTALS

A. Submit shop drawings for each fabrication and product data for each material

2. PRODUCTS

2.1 MATERIALS

A. Steel Shapes, Plates and Bars: ASTM A36

B. Structural Steel Sheet: Hot rolled, ASTM A570; or cold rolled, ASTM A611, Class 1; of grade required for design loading

C. Steel Pipe: ASTM A53, Type S seamless, grade as selected by fabricator and as required for design loading; minimum standard weight, STD or Schedule 40

D. Steel tubing: Cold formed ASTM A500; or hot rolled, ASTM A501; minimum Grade B; seamless where exposed

E. Fasteners and Rough Hardware: Type required for specific usage; provide zinc-coated fasteners for exterior use or where built into exterior walls

F. Grind exposed welds continuous, smooth and flush with adjacent finished surfaces, and ease exposed edges to approximate 1/32" uniform radius

G. Exposed Mechanical Fastenings: Flush countersink fasteners unobtrusively located, consistent with design of structure

H. Ladders: Comply with ANSI A14.3 and Cal/OSHA; finishes as selected by Architect from manufacturers full range of available finishes

1. Roof Ladder: Fixed aluminum access ladder with roof hatch. O'Keefe Precision L.L.C. or equal. (Mill finish) Contractor responsible to determine correct length, platform return configuration, and attachment detail. All ladders to comply with O'Keefe specification #05510.

I. Finishes: Unless otherwise scheduled, galvanize and prime paint exterior steel work and prime paint interior work

1. Provide minimum ASTM A123 or A924 and A653 G90 galvanized coating; iron and steel hardware galvanized conforming with ASTM A153

3. EXECUTION

3.1 INSTALLATION

A. Field bolt and weld to match standard of shop bolting and welding; hide bolts and screw whenever possible, where not hidden, use flush countersunk fastenings

B. Perform field welding in accordance with AWS D1.1

SECTION 05721 - ORNAMENTAL RAILINGS

1. GENERAL

1.1 SUMMARY

A. Provide ornamental items including attachment devises and accessories, as required for complete, finished installation

1.2 QUALITY ASSURANCE

A. Structural Performance: Engineer, fabricate, and install steel stairs to withstand the following structural loads unless more stringent requirements are required by the local governing code

1. Railing assembly shall withstand a single concentrated load of 200 pounds applied in any direction at any point along the top, and transfer this load through the supports to the structure
2. Railing assembly shall withstand a minimum uniform load of 50 lbs per linear ft applied in any direction at any point along the top, and transfer this load through the supports to the structure
3. Glass used in handrail assemblies shall comply with safety glazing requirements of ANSI Z97.1 and also be able to with stand the Railing assembly loads stated above

1.3 SUBMITTALS

A. Submit shop drawings samples and product data for each product

2. PRODUCTS

2.1 MATERIALS

A. Comply with following standards for forms and types of brass

1. Seamless Tubing: ASTM B135
2. Sheet, Plate and Bar: ASTM B36
3. Castings: ASTM B176

B. Copper: ASTM B370, cold rolled or soft temper, minimum 16 oz (0.0216" thick); finish NAAMM Specular, M22, buffed finish

C. Stainless steel: Grade 304 stainless steel or where severe corrosion conditions exist, Grade 316 shall be provided

1. Finish: BHMA 630 (US32D) or NAAMM Number 4, satin directional polished stainless steel
2. Seamless Tubing: ASTM A269
3. Sheet and Plate: ASTM A666
4. Bar Stock: ASTM A666

D. Steel Components: ASTM A36

2.2 FABRICATION

A. Hand Railings: Comply with applicable codes and ADAAG and with requirements of NAAMM "Pipe Railing Manual"; welded construction; cap exposed ends

B. Comply with AWS for recommended practices in welding each type of material; provide welds behind finished surfaces without distortion or discoloration on exposed side; dress exposed and contact surfaces

C. Exposed Mechanical Fastenings: Flush countersink fasteners unobtrusively located, consistent with design of structure

D. Separate dissimilar materials with bituminous paint where concealed, with preformed separators, or similar method to prevent corrosion

SECTION 06100 - ROUGH CARPENTRY

1. GENERAL

1.1 SUMMARY

A. This section includes minimum grading and quality standards for rough carpentry. Review local codes for additional requirements.

1.2 QUALITY ASSURANCE

A. All wood provide must be grade marked by one of the following associations or standards

B. WWPA: Western Wood Products Association

C. WCLIB: West Coast Lumber Inspection Bureau Standard Grading Rules No.17

D. Plywood Standard: Comply with PS-1 (ANSI A199.1) and grade marked by the Engineered Wood Association (APA)

E. RIS: Red Wood Inspection Service, Standard Specifications for Grades of California

2. PRODUCTS

2.1 MATERIALS

A. Provide rough dimensional that is seasoned to have a moisture content of no more than 19% and is marked either "S-DRY" per the WCLIB or "KD or S-DRY"per the WWPA

B. Provide dimensional lumber per the National Grading Rule for Dimensional Lumber

1. Structural Light Framing: Douglas Fir - Hemlock, No.1 grade per the WWPA and WCLIB not to exceed design values described in the WWPA Product Use Manual
2. Light Framing: Douglas Fir - Hemlock, Standard & Better(STAND & BTR) and STUD grade, per the WWPA or Construction or Standard grades per the WCLIB
3. Sills on Concrete or Blocking in Exterior Assemblies: Pressure Treated Douglas Fir - Hemlock No.2 grade or better per the WWPA that complies with AWPA standards for pressure impregnation containing no Urea-Formaldehyde, or Redwood, Merchantable Heart Grade
4. Fire Retardant Treatment (F.T.): Comply with AWPA standards for pressure impregnation containing no Urea-Formaldehyde to achieve flame spread rating of not more than 25 in accordance with ASTM E84 or ULT23

C. Provide APA rated plywood in the thickness described on the contract drawings and as required by code. Grades and locations will be as follows unless noted otherwise.

1. Exterior Walls, Roofs, and Subflooring: APA Structural I Rated Sheathing, EXP 1, C-D
2. Marine Grade Plywood: APA Marine EXT, A-B

D. Nails, Spikes, and Staples: Galvanized and conforming to requirements of ASTM F1667 and article 2303.6 - IBC 2009. Provide size and type to suite application.

E. Bolts, Nuts, Washers, Lags, Pins, and Screws - Medium Carbon Steels; galvanized; size and type to suit application

3. EXECUTION

3.1 INSTALLATION

A. Provide wood nailers of size, shape where indicated, required

B. Fasten securely to substrate with appropriate fasteners. Use expansion-type anchors at masonry or concrete, self-tapping screws at steel. Use corrosive resistant fasteners for roofing applications or where otherwise exposed to moisture.

C. Install work that is component of the roofing system according to roofing material manufacturer's current printed instructions

D. Install blocking for windows, storefront and entrances according to approved Shop Drawings. Blocking shall be continuous the width or height of rough openings, unless otherwise shown on Drawings. Install all sealer under windowsill blocking as detailed

E. Install blocking for finish materials, such as windows and sheet metal fascias, with minimum number of joints, plumb and level, true and straight with no distortions. Discard materials which are unsound, warped, bowed, twisted, improperly treated, and not adequately seasoned.

SECTION 06200 - FINISHED CARPENTRY

1. GENERAL

1.1 SUMMARY

A. This section includes performance and installation criteria for finished carpentry elements

1.2 SUBMITTALS

aria GROUP

830 North Blvd.
Oak Park, Illinois
60301

708-445-8400
ariainc.com

ARIA GROUP ARCHITECTS, INC.

COOPER'S HAWK WINERY & RESTAURANT

540 NW CHIPMAN
ROAD, LEE'S SUMMIT,
MO 64086

FIELD VERIFICATION
Contractor shall verify all figured dimensions and conditions at the job site and notify Aria Group Architects, Inc. of any dimensional errors, omissions or discrepancies before beginning or fabricating any work. Do not scale these drawings.

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NO.	DATE	REMARKS

REVISIONS

STATE OF MISSOURI
DANIEL PAUL BERNATEK
NUMBER A-2010026259
ARCHITECT
8/19/2021
EXP 12/31/22

A. Submit samples and shop drawings

1.3 QUALITY ISSUANCE

A. All work in this section shall comply with premium grade quality of the current edition of the AWI Quality Standards Illustrated

B. Manufacturers and installers shall demonstrate successful experience with work of comparable extent, complexity and quality to that shown and specified

C. Manufacturers and installers are members and who are in good standing with the Architectural Woodwork Institute and are familiar with this standard

D. Store materials indoors, in ventilated areas with constant but minimum temperature of 60 degrees F and a maximum relative humidity of 25% to 55%

2. PRODUCTS

2.1 MATERIALS

A. Wood Trim and Jambs:

1. Exterior, Transparent Finished: For semi-transparent stain
2. Quality: AWI/Premium Grade
3. Wood: Type and finish on drawings
4. Interior, Transparent and Stained Finished Quality: AWI/Premium Grade
5. Wood: Type and finish on Drawings

B. Wood Panel Products

1. Quality: AWI/Premium Grade, Grade AA
2. Wood: Type and finish on drawings

C. Matching: Book match unless otherwise noted on contract documents

D. Anchors, Nails and Screws: Select the material, type, size and finish required by each substrate for secure anchorage; provide toothed steel or lead expansion bolt screws for drilled-in-lace anchors

E. Wood filler: Color to match wood being filled

F. Use exposed fastening devices or nails only when approved and unavoidable; arrange neatly

G. Sealant: non-staining sealant compatible with the carpentry components and adjacent surfaces shall be used to seal material joints.

3. EXECUTION

3.1 INSTALLATION

A. Install work consistent with specified AWI quality grade, plumb, level true and straight with no distortions; shim as required, using concealed shims

B. Install trim in single, unjointed lengths for openings and for runs less than 10'-0"

C. For longer runs, use only one piece less than 10'-0" in any straight run; provide scarf joints between members

D. Variation from True Position: Maximum 1/16" at any position and maximum 1/8" in any 10'-0" length

E. Apply wood filler in exposed nail and screw indentations and leave ready to receive site-applied finishes

F. Apply sealant at top of wall base to seal joint between base and wall

SECTION 06400 - ARCHITECTURAL WOODWORK

1. GENERAL

1.1 SUMMARY

A. Section includes, but is not limited to the following items of architectural woodwork:

1. Casework
2. Pre-manufactured Casework
3. Solid Surface Counter Tops
4. Decorative Laminate for ceiling feature, misc. millwork, and cabinets

1.2 SUBMITTALS

A. Submit shop drawings

B. Submit samples for each exposed product

C. Submit product data for each hardware product

1.3 QUALITY ASSURANCE

A. All work in this section shall comply with premium grade quality of the current edition of the AWI Quality Standards Illustrated

B. Manufacturers and installers shall demonstrate successful experience with work of comparable extent, complexity and quality to that shown and specified

C. Manufacturers and installers are members and who are in good standing with the Architectural Woodwork Institute and are familiar with this standard

D. Store materials indoors, in ventilated areas with constant but minimum temperature of 60 degrees F and a maximum relative humidity of 25% to 55%

1.4 PROJECT CONDITIONS

A. Environmental Limitations: Do not deliver or install woodwork until building is enclosed, wet-work is complete, and HVAC system is operational and will maintain temperature and relative humid at occupancy levels during the remainder of the construction period

1.5 ENVIRONMENTAL REQUIREMENTS

A. Composite wood and agrifiber products must not contain any urea-formaldehyde resins as required by the LEED NC Version 2 rating system

B. Adhesives and Sealants must adhere to Rule 1168 of California's South Coast Air Quality Management District (Rule 1168) VOC requirements as defined by the LEED NC Version 2 Rating system

2. PRODUCTS

2.1 MATERIALS

A. General: Provide materials that comply with requirements of the AWI woodworking standard for each type of woodwork and quality grade indicated and where the following products are part of woodwork, with requirements of the referenced product standards that apply to product characteristics indicated

B. Wood Species for Standing and Running Trim and Jambs and Frames: Any closed-grain hardwood listed in referenced woodworking standard unless noted otherwise on the contract drawings

C. Lumber Products: Where indicated, use materials pressure-impregnated with Interior Type A fire-retardant chemical to comply with AWPA C20 Kiln dried material after treatment per AWI Section 100 Lumber Grades to a moisture content of 5%-10% unless noted otherwise. Grades per AWI 400A-T-1standards are as follows:

1. Exposed surfaces: Premium
2. Semi-exposed surfaces: Premium
3. Concealed Surfaces: Economy

D. Panel Products: Core material for high pressure decorative laminate (HPDL) cabinet: from grade AA veneer plywood or high density moisture resistant industrial grade particleboard (MD): ANSI A208.1 per AWI section 400 standards

E. Fasteners and anchorages: Provide nails, screws and other anchoring devices of the proper type, size, material and finish for application indicated to provide secure attachment, concealed where possible

F. Adhesive for Bonding Plastic Laminate: Contact cement

2.2 PLASTIC LAMINATE CLAD CABINETS and CASEWORK

A. Quality Standard: Comply with AWI Section 400 requirements for laminate-clad cabinets

B. Quality Standard: Comply with WIC Section 15, "Plastic-Covered Casework"

1. Grade: Premium

2.3 PLASTIC LAMINATE MATERIALS

A. Plastic Laminate: Comply with NEMA LD-3; shall be of types and thickness indicated for each application

B. Plastic Laminate for bases and dividers shall be 0.0625 inch thick, General Purpose Type (high-pressure)

C. Plastic Laminate for External Vertical Surfaces: 0.0625-inch minimum thick, General Purpose Type (high-pressure)

D. Plastic Laminate for Cabinet Linings: Chemical resistant plastic, 0.0625 inch thick, Cabinet Liner Type (high-pressure)

E. Plastic Laminate for Concealed Panel Backing: 0.020 inch thick, Backer Type (high-pressure)

F. Plastic laminate exterior shall be of colors, patterns and finishes as indicated on the contract drawings

G. Plastic laminate interior surfaces shall be of colors standard as described for the exterior surfaces

H. High-Pressure Decorative Laminate: NEMA LD 3, grades as indicated, or if not indicated, as required by casework quality standard

I. Refer to Finish Legend for colors, finish, and manufacture of plastic laminate materials provided

2.4 HARDWARE AND ACCESSORY MATERIALS

A. Casework Hardware: Provide casework hardware items as required for complete installation as indicated

1. Plug-In Pin Type Shelf Supports: Provide holes 1" on center
   a. Acceptable Manufacturers:
      1) Hafele American Co./No. 282.04.711
      2) Knape & Vogt/No. 333
2. Cabinet Hinges: Concealed type, minimum 160 degree opening, with spring closer
   a. Acceptable Manufacturers (concealed type)
      1) Hafele America Co./No.345.47.665
      2) Julius Blum Inc./No. 91.650
      3) Stanley Hardware/No. 1511
3. Cabinet Pulls: As indicated on Drawings
4. Cabinet Locks: Pin and tumbler slide bolt lock, two keys each
   a. Acceptable Manufacturers:
      1) National Lock Hardware/No. C8133/5 drawer, C8139 door lock
      2) Schlage Lock Co./J46-002 Cabinet Locks
      3) Best Lock Corp./5L Series
5. Anchors, Nails and Screws: Select material, type, size and finish required by each substrate for secure anchorage; provide toothed steel or lead expansion bolt screws for drilled-in-place anchors
6. Wood Filler: Color to match wood being filled

2.5 PLASTIC LAMINATE CABINET FABRICATION:

A. Fabricate casework to dimensions, profiles and details shown

B. Assemble units in the shop in as large components as practicable to minimize field jointing

C. Install hardware uniformly and precisely after final finishing is complete. Set hinges snug, and flat in mortises unless otherwise indicated. Turn screws to flat seat. Adjust and align hardware so that moving parts operate freely and contact points meet accurately. Allow for final field adjustment after installation.

D. Base Cabinets, Floor Mounted and Suspended:

1. Top Panel: 3/4-inch, front edge banded as specified above
2. Bottom Panel:
   a. Floor Mounted: 3/4 inch engineered wood product, front edge banded as specified above
   b. Suspended: 1-inch hardwood particleboard, front edge banded as specified above
3. Side Panels: 3/4 inch engineered wood product front edge banded as specified above
4. Back Construction: 3/8-inch engineered wood product with 3/8 inch x 3-inch full width engineered wood product cross rails top and bottom. All components perimeter glued with hot melt glue.
5. Door Fronts: 3/4-inch engineered wood product with front edge edge banded as specified above
6. Shelves: Less than 36 inches in length shall be 3/4 inch thick engineered wood product. Shelves 36 inches long and over shall be l inch thick engineered wood product. Leading edge of shelf shall be finished with a high impact, rigid PVC extrusion, in color to match shelf surface and cabinet interior.
7. Toe Base: Separate toe base frame to be constructed on the job site of 3/4-inch plywood provided by the casework manufacturer; shall be approximately 6 inches high by 3 inches deep, with no open pockets unless noted otherwise on the contract drawings

E. Wall and Upper Cases:

1. Top Panel: 3/4-inch engineered wood product; front edge banded as specified above
2. Bottom Panel: 1-inch hardwood plywood, front edge banded as specified above
3. Side Panels: 3/4-inch engineered wood product, front edge banded as specified above
4. Back Construction: 3/8-inch with 3/4 inch x 3-inch full width engineered wood product cross rails top and bottom (additional center rail on upper case). All components hot melt perimeter glued.
5. Door Construction:
   a. Solid: 3/4-inch engineered wood product, edge banded as specified above

F. Filler Strips: Provide where required for closing space between cabinets and walls of same material and finish as cabinets

G. Utility Openings & Space: Provide cutouts and holes for pipes, conduits, wall outlets, switches, computer wiring, ventilation holes, and fittings in cabinet bodies to accommodate services

H. All open shelves, exposed to view, shall have interior surfaces and shelving of same plastic laminate materials as specified for cabinet door fronts

I. All cabinet, equipment, work stations, etc., surfaces exposed to view (where not shown to be wood,) including underneath open countertops at work stations etc., shall be Plastic Laminate faced, 0.030 inch thick, General Purpose Type (high-pressure).

2.6 SOLID SURFACING MATERIAL COUNTERTOPS

A. Fabrication: Fabricate tops in one piece with shop-applied backsplashes and edges, unless otherwise indicated. Comply with solid surfacing material manufacturer's recommendations for adhesives, sealers, fabrication, and finishing.

B. Install sink bowl openings in countertops in the shop. Filed verify size and location of openings.

C. Drill holes in countertops for plumbing fittings and soap dispensers in the shop

D. Solid Surfacing Material Thickness: 3/4 inch minimum

E. Build up exposed edges of tops to 1-1/2 inch thickness. Provide back & side splashes. All edges to be eased slightly rounded. Provide manufacturer's recommended sealant at back and sides of back splash. Tops shall be one piece.

F. Countertops spanning between supports, open underneath, or overhanging shall be built to support 300 lbs. (per lineal foot) vertical down load, less than l/180 deflection. Supports shall be solid surfacing panels, approved steel brackets and or steel angles, or as detailed.

G. Refer to Finish Legend for colors, finish, and manufacture of solid surface materials provided

3. EXECUTION

3.1 INSPECTION

A. Examine the substrate and conditions under which the work under this section is to be performed and notify the Contractor in writing of unsatisfactory conditions. Do not proceed with work under this section until unsatisfactory conditions have been corrected.

3.2 PREPARATION

A. Condition casework to average prevailing humidity conditions in installation areas before installing for a minimum of 48 hours

B. Before installing architectural casework, examine shop-fabricated work for completion and complete work as required, including back priming and removal of packing

3.3 INSTALLATION

A. Unless shown or specified otherwise installation shall be in accordance with the recommendations of the manufacturer of the item installed. Attachments shall be rigid and substantial. The work shall be left in a first-class condition.

B. The Contractor shall furnish all anchors, hangers, screws, bolts, expansion and toggle bolts, clip angles, inserts, nails, etc., required for approved complete assembly and installation of all items herein specified. Where bolts, screws, etc., are exposed, they shall be bronze, brass, stainless steel or chromium finish, as selected by Architect.

C. Woodwork Quality Standard: Install woodwork to comply with AWI for the same grade specified of this Section for type of woodwork involved

D. Install all casework plumb, level, true, and straight with no distortions. Shim as required with concealed shims. Install to a tolerance of 1/8 inch in 96 inches for plumb and level (including tops).

E. Architectural casework includes furring, blocking, shims, and hanging strips for installing casework items unless concealed within other construction prior to casework installation

F. Scribe and cut casework to fit adjoining work and refinish cut surfaces or repair damaged finish at cuts

G. Cabinets: Install without distortion so that doors and drawers fit openings properly and are accurately aligned. Adjust hardware to center doors and drawers in openings and to provide unencumbered operation. Complete the installation of hardware and accessory items as indicated.

H. Install cabinets with no more than 1/8 inch in 96-inch sag, bow, or other variation from a straight line

I. Tops: Anchor securely to base units and other support systems as indicated. Caulk space between backsplash and wall with specified sealant.

J. Install countertops with no more than 1/8 inch in 96-inch sag, bow, or other variation from a straight line

3.4 ADJUSTING AND CLEANING

A. Repair damaged and defective casework where possible to eliminate functional and visual defects; where not possible to repair, replace casework. Adjust joinery for uniform appearance.

B. Clean, lubricate, and adjust hardware

C. Clean casework on exposed and semi exposed surfaces. Touch up shop-applied finishes to restore damaged or soiled areas.

3.5 PROTECTION

A. Provide final protection and maintain conditions in a manner acceptable to fabricator and Installer that ensures that casework is without damage or deterioration at the time of Substantial Completion

SECTION 06415 - STONE COUNTERTOPS

1. GENERAL

1.1 SUMMARY

A. This section includes performance and installation criteria for stone counter tops.

1.2 SUBMITTALS

A. Complete shop and erection drawings that show method of fastening, thicknesses, joints and location

B. Submit samples for each product

C. Submit manufacturer's written maintenance instructions

1.3 QUALITY ASSURANCE

A. Manufacturer Qualifications: Installer must have a Minimum of five (5) years' experience on comparable projects

B. Installer Qualifications: Installer must have a Minimum of five (5) years' experience on comparable projects

1.4 WARRANTY

A. Submit the manufacturer's standard written warranty

2. PRODUCTS

2.1 MATERIALS

A. Stone: Refer to "Finish Legend" for manufacturer, color and finish

B. Adhesive - ANSI A108.4

C. Grout - ANSI A108.10

D. Substrate - Marine grade plywood

E. Sealer - as recommended by stone counter top manufacturer

F. Stone shall be fabricated to thicknesses and dimensions indicated with clean true edges and arris. Provide all cutouts as indicated or required. All surfaces shall be true and not warped.

3. EXECUTION

3.1 INSPECTION

A. Installer must examine the areas and conditions under which tone is to be installed. Notify the Contractor in writing of conditions detrimental to the proper and timely completion of the work. Do not proceed with the work until unsatisfactory conditions have been corrected in a manner to the installer.

B. Starting of work will be construed as the installer's acceptance of the surfaces within any particular area

3.2 INSTALLATION

A. Install stone counter tops in accordance with manufacturer's written instructions

B. Each piece of stone shall be washed clean before being set. Mortar splashing shall be removed immediately, using clean water and sponge.

C. Seal all exposed surfaces with penetrating sealer. Apply as recommended by manufacturer.

3.3 PROTECTION

A. Protect all stone work under this section during installation and until accepted by the Owner. Stone shall be protected from physical damage and staining.

SECTION 07141 - INTERIOR WATERPROOFING

1. GENERAL

1.1 SUMMARY

A. Includes but not limited to furnishing and installing liquid applied water proofing membrane on the interior as described by the Contract Documents

1.2 QUALITY ASSURANCE

A. Meet requirements of ANSI A 118.10 for load bearing, bonded, waterproof membranes

B. Meet the requirements of ANSI A 118.12 system for crack isolation material

C. After membrane has fully cured, water test all penetrations to ensure water tight seal

D. Adhere to Rule 1168 of California's South Coast Air Quality Management District (Rule 1168) VOC limit of 250 g/L for applications classified as a Multipurpose Construction Sealant

1.3 SUBMITTALS

A. Submit product data for each product

1.4 WARRANTY

A. Submit standard manufacturer's warranty

2. PRODUCTS

2.1 LIQUID APPLIED WATER PROOFING MEMBRANE

A. Laticrete - Laticrete 9235 liquid applied water proofing membrane or equal and compatible with thin set tile system

B. Mapei - Mapelastic HPG liquid applied water proofing membrane or equal and compatible with thin set tile system

3. EXECUTION

3.1 INSTALLATION

A. Install in accordance with Manufacturer's instruction specific instructions and per this specification

B. All substrates must be level structurally, sound and clean free of: dirt, dust, oil, grease, loose/ peeling paint, laitance, efflorescence, concrete sealers, curing compounds or any other bond inhibiting materials

C. The surface temperature should be between 50 degrees and 90 degrees Fahrenheit at time of application unless specified otherwise by manufacturer. Temperature must be maintained until membrane has fully cured.

D. Pre-treat cracks and unlevel surfaces per manufacture's installation requirements

E. Reinforce membrane with mesh reinforcing compatible with membrane system at any change in plane and around drains

F. Do not install membrane on concrete substrate if moisture pressure is greater the 3lb per 1,000 sf per 24 hrs per ASTM F1869 or up to 75% relative humidity as measured with moisture probes

SECTION 07190 - WATER REPELLENTS

1. GENERAL

1.1 SUMMARY

A. Provide all work, labor, materials, and equipment to complete all the work as shown on the contract drawing and as specified in this specification.

1.2 QUALITY ASSURANCE

A. Engage an experienced applicator who employs only persons trained and approved by water repellent manufacture for application of manufacture's products.

B. Provide a minimum 5 year warrant from date of substantial competition.

C. Absorption: Provide a 90% reduction of absorption after 24 hours in comparison of treated and untreated specimens: Concrete Masonry Units, Clay Masonry Units, Stone.

D. Water-vapor transmission: Provide a maximum 10% reduction in rate of vapor transmission in comparison of treated and untreated specimens measured per ASTM E96.

E. Water Penetration and leakage through masonry: Provide a maximum 90% reduction in leakage rate in comparison of treated and untreated specimens measured per ASTM E514

F. Durability: Provide a maximum 5% loss of water repellency after 2500 hours of weathering in comparison to specimens before weathering measured per ASTM G53.

G. Permeability: minimum 80% breathable in comparison of treated and untreated specimens measured per ASTM D1653.

2. PRODUCTS

2.1 MANUFACTURERS

A. Dietrich Technologies, Inc.

B. Dayton Superior Company

C. Chemical Products, Inc.

2.2 MATERIAL

A. Silanes: Penetrating water repellent. A monomeric compound containing alkyltrialkoxsilanes with alcohol, mineral spirits, water, or other proprietary solvent carrier. Product should contain a VOC concentration no more than 400g/L.

B. Siloxanes: Penetrating water repellent. Alkyltrialkoxsilanes that is oligomerous with alcohol, ethanol, mineral spirits, water, or other proprietary solvent carrier. Product should contain a VOC concentration no more than 400g/L.

C. Silane/ Siloxane Blends: Consisting of silanes and siloxanes blended to achieve a particular penetration and protection on specific substrates.

D. Proprietary Blends: Consisting of resins blended to produce breathable penetrating water repellent that dries clear and does not change the color or appearance of the substrate in any way. Product should contain a VOC concentration no more than 400g/L.

3. EXECUTION

3.1 INSTALLATION

A. Install in accordance with Manufacturer's specific instructions and per this specification

B. Installers to test install water repellant on a small section of every substrate to receive treatment as specified by the architect

C. Verify that Masonry is thoroughly cleaned and free of dirt, oil, or other containments that would hinder a chemical bond

D. Test for PH level, acceding to water repellent manufacturer's written instructions, to ensure chemical bond.

E. Protect Adjoining Work: Cover nearby surfaces of aluminum and glass. Cover live plants and grass.

F. Coordinate with Sealants: Do not apply water repellent until sealants have been installed and cured

G. Application: Comply with manufacturer's written instructions. Apply a heavy- saturation coat using low pressure spray equipment. Apply a second coat per manufacturer's written instructions.

H. Manufacturer's Field Service: Provide Services of a factory-authorized technical service representative to inspect substrate before application and to instruct applicator on product and application method.

I. Remove all protective covering from adjacent surfaces and other protected areas

J. Clean adjoining surfaces and surfaces soiled or damaged by water-repellent application as work progresses per manufacturer's written cleaning instructions. Repaired damage cause by water-repellent application.

SECTION 07191 - UNDER SLAB VAPOR BARRIER

1. GENERAL

1.1 SUMMARY

A. Provide all work associated with the installation of vapor barrier under all concrete slabs on grade and were noted in exterior wall assemblies on the contract drawings

1.2 RERFERENCES

A. ASTM International

1. ASTM E1745-17: Standard Specification for Plastic Water Vapor Retarders Used in Contact with Soil or Granular Fill Under Concrete Slabs.
2. ASTM E1643-18a: Selection, Design, Installation, and Inspection of Water Vapor Retarders Used in Contact with Earth or Granular Fill Under Concrete Slabs.

1.3 SUBMITTALS

A. Submit product data for each product

B. Submit samples for each product

1.4 QUALITY ASSURANCE

A. Summary of test results per paragraph 9.3 of ASTM E1745.

B. Manufacturer's samples and literature including manufacturer's installation instructions for placement, seaming, penetration prevention and repair, and perimeter seal.

C. All mandatory ASTM E1745 testing must be performed on a single production roll per ASTM E1745 Section 8.1.

D. Contact vapor barrier manufacturer to schedule a pre-construction meeting and to coordinate a review, in-person or digital, of the vapor barrier installation.

E. Manufacturer verify in writing 20 years in the industry with no reported product failures.

2. PRODUCTS

2.1 MATERIALS

A. Vapor barrier shall have all the following qualities:

1. Maintain permeance of less than 0.01 Perms [grains/(ft2 · hr · inHg)] as tested in accordance with mandatory conditioning tests per ASTM E1745 Section 7.1 (7.1.1-7.1.5).
2. Other performance criteria:
   a. Strength: ASTM E1745 Class A.
   b. Thickness: 15 mils minimum
3. Warranty: (a) compliance with the designated ASTM E1745 classification, and (b) no manufacturing defects in the product for, at least, the Life of the Building.

B. Vapor barrier products:

1. Basis of Design: Stego Wrap Vapor Barrier (15-mil) by Stego Industries LLC., (877) 464-7834 www.stegoindustries.com
2. Approved Alternate: VaporGuard by Reef Industries, 713-507-4250. www.reefindustries.com.
3. Approved Alternate: Moistop Ultra15 by Fortifiber Building Systems Group. 800-773-4777. www.fortifiber.com.
4. No substitutions.

C. Accessories:

1. Accessories and Vapor Barrier shall be from the same manufacturer to maintain system warranty.

3. EXECUTION

3.1 INSTALLATION

A. Install vapor retarding materials per the written recommendations of the manufacturer, all materials to be compatible with each other, the concrete slab, and any soil conditions.

SECTION-07210 - BUILDING INSULATION

1. GENERAL

1.1 SECTION INCLUDES

A. Types and general applications of insulation specified in this section include the following:

1. Sound Insulation: Unfaced Semi-Refractory or Glass Fiber Blanket/Batt: Used in interior partitions and on top of ceilings when indicated for sound ratings where indicated on contract drawings
2. Faced Batt Insulation; Faced semi-Refractory or Glass Fiber Blanket/Batt: Used in exterior walls for thermal insulation where indicated on contract drawings
3. Foundation Drainage Board: Used at exterior side of foundation walls where indicated on the contract drawings
4. Rigid Insulation: As indicated on the contract drawings

1.2 SUBMITTALS

A. Submit product data for each product

1.3 QUALITY ASSURANCE

A. Single-Source Responsibility for Insulation Products: Obtain each type of building insulation from a single source with resources to provide products of consistent quality in appearance and physical properties without delaying progress of the Work

1.4 DELIVERY, STORAGE AND HANDLING

A. Protect insulation materials from physical damage and from deterioration by moisture, soiling and other sources. Store inside and in a dry location. Comply with manufacturer's recommendations for handling, storage and protection during installation.

2. PRODUCTS

2.1 MANUFACTURERS

A. Manufacturers: Subject to compliance with requirements, provide insulation products of one of the following:

1. Manufacturers of Glass Fiber Insulation:
   a. CertainTeed Corp
   b. Schuller (Johns-Manville)
   c. Owens/Corning Fiberglas Corp
2. Manufacturers of Semi-Refractory Fiber Insulation:
   a. Cafco Industries Ltd.
   b. Fibrex Inc.
   c. USG: Thermafiber Div., USG Interiors, Inc.
3. Rigid Insulation:
   a. Dow Corporation
   b. Owens/Corning Corp.

2.2 MATERIALS

A. Sound Insulation: Unfaced Mineral Fiber Blanket/Batt Insulation: Sound insulation produced by combining mineral fibers of type described below with thermosetting resins to comply with ASTM C665 for Type I (blankets without membrane facing); and as follows:

1. Mineral Fiber Type: Fibers manufactured from glass or slag
2. Surface Burning Characteristics: Maximum flame spread and smoke developed values of 25 and 50 respectively

B. Foil Faced Thermal Insulation Mineral Fiber Blanket Insulation: Thermal insulation produced by combining mineral fibers of type described below with thermosetting resins and faced on one side with foil scrim kraft vapor retarder to comply with ASTM C665 for Type III (blankets with membrane facing) and as follows:

1. Mineral Fiber Type: Fibers manufactured from glass or slag

C. Foil-Faced, Glass-Fiber Board Insulation: Thermal insulation combining glass fibers with thermosetting resin binders and faced on one side with foil-scrim-kraft or foil-scrim-polyethylene vapor retarder to comply with ASTM C612, Type IA or Type IA and IB; and with other requirements indicated below:

1. Nominal density of 3 lb./cu. ft. (48 kg/cu. M), thermal resistivity f 4.3 deg F x h x sq. ft./Btu x in. at 75 deg F (29.8 K x m/W at 24 deg C)
2. Surface-Burning Characteristics: Maximum flame-spread and smoke-developed indices of 25 and 50, respectively

D. Foundation Drainage Board: Extruded poly-styrene closed-cell foam panel with fabricated drainage channels and a non-woven filtration fabric on one side equal to Foamular Insul Drain

E. Rigid Insulation: 24" wide rigid insulation, USG Foamular, Dow Styrofoam SM, Styropar, weight 2.1 lbs. per cu/ ft., CPR Rigid Board, BASF Wyandotte Styropar or equal, conforming to Fed. Spec. HH-1-524b, Type II, Class 1

F. Adhesive for Bonding Insulation: Product with demonstrated capability to bond insulation or mechanical anchors securely to substrates indicated without damaging or corroding either insulation, anchors, or substrates

3. EXECUTION

3.1 EXAMINATION

A. Examine substrates and conditions with Installer present, for compliance with requirements of the Sections in which substrates and related work are specified and to determine if other conditions affecting performance of insulation are satisfactory. Do not proceed with installation of insulation until unsatisfactory conditions have been corrected.

3.2 PREPARATION

A. Clean substrates of substances harmful to insulations including removal of projections that might puncture insulation

3.3 INSTALLATION

A. Comply with insulation manufacturer's instructions applicable to products and application indicated. If printed instructions are not available or do not apply to project conditions, consult manufacturer's technical representative for specific recommendations before proceeding with installation of insulation.

B. Extend insulation full thickness as indicated to envelop entire area to be insulated. If insulation provided by another trade is present, fit insulation of this contract tightly to existing insulation. Cut and fit tightly around obstructions, and fill voids with insulation. Remove projections that interfere with placement.

C. Apply a single layer of insulation of required thickness, unless otherwise shown or required to make up total thickness

D. Apply insulation units to substrate by method indicated complying with manufacturer's recommendations

E. If no specific method is indicated, bond units to substrate with adhesive or use mechanical anchorage to provide permanent placement and support of units

F. Stuff glass fiber blanket/batt insulation into miscellaneous voids and cavity spaces where shown. Compact to approximately 40 percent of normal maximum volume (to a density of approximately 2.5 pcf).

3.4 PROTECTION

A. General: Protect installed insulation and vapor retarders from damage due to harmful weather exposures, physical abuse and other causes. Provide temporary covering or enclosures where insulation will be subject to abuse and cannot be concealed and protected by permanent construction immediately after installation.

SECTION 07240 - EXTERIOR INSULATION AND FINISH SYSTEMS (EIFS)

1. GENERAL

1.1 SUMMARY

A. This section includes minimum performance requirements for Exterior Insulation and Finish Systems (EIFS) installed for this project

B. Details and information contained in these contract plans and specifications shall be used in consultation with the manufacturer's literature and application instructions in order to facilitate the installation of the (EIFS) exterior wall system

1.2 SUBMITTALS

A. Submit product data for each product

B. Submit samples

C. Submit shop drawings

1.3 QUALITY ASSURANCE

A. The contractor shall submit a certificate of instruction from the respective (EIFS) manufacturer's applicator training program. The contractor shall also demonstrate the ability to install (EIFS) products of similar size and compatibility by submitting a list of completed projects.

1.4 WARRANTY

A. Provide a system manufacturer's standard and material warranty of not less than five (5) years

2. PRODUCTS

2.1 MANUFACTURERS

A. Provide Class PB (EIFS) as defined by ASTM E2568 by one of the following:

1. Sto Industries
2. Senergy EIFS and Stucco
3. Dryvit Systems, Inc.

2.2 MATERIALS

A. Adhesive: The adhesive shall be compatible with all components including the insulation board, substrate and reinforcing mesh

B. Portland Cement: Type I or II per ASTM C150

C. Insulation Board: Provide one of the two insulation board types that comply with the applicable building code

1. Expanded Polystyrene Insulation Board: Type I per ASTM C578 and per dimensions listed below:
   a. Board Width Maximum, Class PB: 48 inches
   b. Board Length Maximum, Class PB: 120 inches
   c. Board Thickness Minimum, Class PB: ½ inch
2. Polyisocyanurate (Polyiso) Insulation Board: Type II per ASTM C1289 and per dimensions listed below:
   a. Board Width Maximum, Class PB: 48 inches
   b. Board Length Maximum, Class PB: 120 inches
   c. Board Thickness Minimum, Class PB: 5/8 inch

D. Reinforcing Mesh: Shall be balanced, open weave glass fiber fabric treated for compatibility with other materials of the system

E. Base Coat: shall be compatible with the insulation board and reinforcing mesh

F. Primers: shall be as required by the system manufacturer

G. Finish Coat: Refer to finish schedule for type, color, and texture

H. Mechanical Fasteners: The mechanical fasteners shall be as required by the (EIFS) manufacturer; fabricated from corrosion-resistant materials; and shall have the necessary pull-out, tensile and shear strength, when installed to resist design loads upon the system

I. Flashing and Accessories: Provide flashing and accessories as shown on contract drawings and as required by (EIFS) manufacturer to provide weather tight seal

J. Water: Clean and potable

2.3 PERFORMANCE CHARACTERISTICS

A. Durability: The following are minimum performance criteria for the (EIFS) wall system. Consult local building codes for addition requirements.

B. Abrasion Resistance: ASTM D968, No cracking, checking or loss of film integrity at 500 liters (528) quarts of sand.

C. Accelerated Weathering: ASTM G153/G 152 or G 154, No deleterious effects after 2000 hours when viewed under 5x magnification

D. Freeze / Thaw Resistance: ASTM E2485, No deleterious effects after 60 cycles when viewed under 5x magnification

E. Mildew Resistance: ASTM D3273, No growth supported during 28-day exposure period

F. Salt Spray Resistance: ASTM B117, No deleterious effects at 300 hour exposure period

G. Tensile Adhesion: ASTM C297, No failure for tested values of 103Kpa (15 psi) or less

H. Water Penetration: ASTM E331, No water penetration beyond the base coat/insulation board interface after 2 hours at 299 Pa (6.24 psf), or 20% of positive wind pressure, whichever is greater

I. Water Resistance: ASTM D2247, No deleterious effects at 14 day exposure

J. Alkali Resistance of Reinforcing Mesh: ASTM E2098, 21 dN/cm (120 pli) retained tensile strength

2.4 FIRE PERFORMANCE

A. Surface Burning: ASTM E84, Insulation board and reinforced coating system shall each separately have a flame spread of 25 or less and a smoke developed of 450 or less

B. Fire Endurance: ASTM E119, Maintain fire resistance of known rated wall assembly

2.5 IMPACT PERFORMANCE TEST

A. Impact Resistance: EIMA 101.86, Provide (EIFS) wall system that meets the following minimum impact requirements:

1. Level 1: 2.83 - 5.54J (25-49in-lb), for all surfaces 10 feet above grade
2. Level 3: Greater than 10.2-17J (90-150in-lb), for all surfaces less than 10 feet above grade

2.6 WIND LOAD

A. Wind Load: ASTM E330, Withstand negative and positive wind loads as required by code or as stated below whichever is more stringent:

1. 40 lbs. per sq. ft. in the normal plan of the wall
2. 45 lbs. per sq. ft. within 20 feet of building corners acting inwards or outwards

3. EXECUTION

3.1 INSTALLATION

A. Installation shall be performed in accordance with this specification, the (EIFS) manufacturer's current published instructions, the applicable building code, and project requirements

B. (EIFS) with Drainage: Install a water-resistive barrier that complies with IBC Section 1404.2, ASTM E2570, or as required by code over the substrate

C. Window corners and similar reentrant corners shall be cut out of a single insulation board. Board joints shall not be aligned at corner with head, sill, or jambs of windows, doors, similar openings and aesthetic reveals.

D. Insulation board thickness shall not be less than 3/4 inch in the bottom of a reveal

E. Positive drainage toward the building exterior shall be provided when horizontal configurations are used (minimum slope 1:2)

F. The finish coat shall be mixed and applied according to the specifications of the (EIFS) manufacturer. Only clean potable water shall be added to achieve the desired workability.

SECTION 07243 - PORTLAND CEMENT PLASTER (STUCCO)

1. GENERAL

1.1 SUMMARY

A. Provide all labor, materials, and equipment associated with the installation of Portland Cement Plaster Systems as described in the contract drawings and these specifications

1.2 SUBMITTALS

A. Submit product data for each product

B. Submit samples for each product

C. Submit manufacturer's written maintenance instructions

1.3 QUALITY ASSURANCE

A. Installer's qualification: Documented five (5) years' experience as installer of portland cement plaster wall systems of at least 10 projects of similar size and complexity to this project

1.4 ENVIRONMENTAL REQUIREMENTS

A. Do not apply stucco when the ambient temperature is 40 degrees Fahrenheit or lower or when a drop in temperature below 40 degrees Fahrenheit is expected within 48 hours after application

2. PRODUCTS

2.1 STUCCO MATERIALS

A. Colored Stucco Finish: Refer to the "Finish Legend" and the contract drawings for colors and locations of stucco finishes

B. Portland Cement: Shall conform to ASTM C150, Type I Use Type II for applications over brick, concrete masonry units, or in applications where resistance to sulfate attack is needed

C. Hydrate Lime: Provide Type S conforming to ASTM C206, hydrate lime must not contain more than 8% unhydrated oxides

D. Sand: Sand aggregate for job-mixed base coat and job mixed finish coat stucco shall conform to ASTM C897

E. Water: should be clean and free from deleterious amounts of oils, acids, alkalies, salts, and organic substances that could adversely affect proper hydration or cause corrosion of metal reinforcement and accessories

2.2 ACCESSORIES

A. Expanded Metal Lath: As specified in ASTM C847, lath shall be fabricated from hot dipped galvanized steel with a minimum G60 zinc coating. Provide backing paper with a min vapor permeance of 5 perms in the following applications:

1. Exterior Locations
2. Wet Interior Locations
3. When plaster will be sprayed applied

B. Plaster Trim: Shall be fabricated from hot dipped galvanized steel, with a G60 Coating as specified in ASTM B69 or zinc alloy as Specified in ASTM B69. The min. thickness of trim pieces is as follows for each metal:

1. Galvanized Steel:
   a. Corner Beads: 0.0172"
   b. Cashing Beads: 0.0172"
   c. Weep Screeds: 0.0172"
   d. Control Joints: 0.0172"

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FIELD VERIFICATION
Contractor shall verify all figured dimensions and conditions at the job site and notify Aria Group Architects, Inc. of any dimensional errors, omissions or discrepancies before beginning or fabricating any work. Do not scale these drawings.

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NO.	DATE	REMARKS

REVISIONS

STATE OF MISSOURI
DANIEL PAUL BERNATEK
NUMBER A-2010026259
ARCHITECT
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2. Zinc Alloy:
   a. Corner Beads: 0.020"
   b. Cashing Beads: 0.020"
   c. Weep Screeds: 0.020"
   d. Control Joints: 0.0180"

C. Cold-Rolled Furring Channels: Shall be fabricated from hot dipped galvanized steel, with a G60 Coating as specified in ASTM A653 with minimum yield strength of 33,000 psi

D. All fasteners to be galvanized and the type as recommended by NAAMM Standard-EMLA 920-09 "Guide for Expanded Metal Lathing and Furring" for the intended application

E. Exterior Locations: Provide a weather resistive barrier per "Section 07270- Sheet Membrane Waterproofing For Plaster Cladding"

3. EXECUTION

3.1 INSTALLATION

A. Install metal lath and reinforcing per the recommendations of NAAMM Standard-EMLA 920-09 "Guide for Expanded Metal Lathing and Furring"

B. Plaster Application Standard: Plaster materials, composition, and mixes to comply with ASTM C926

C. At exterior locations install weather barrier and flashing in order to provide a weather tight seal

D. Install expansion and control joints as required to sufficiently control cracking caused by thermal expansion and contraction

E. Expansion joints to be installed directly over all new or existing expansion joints that occur in the substrate assembly

F. Apply three coat portland cement plaster system in accordance with ASTM C920

G. Finish Coats: Apply finish coats to comply with the following requirements:

1. Finish: Apply finish coat to a minimum thickness of 1/8 inch (3mm) to completely cover base coat, uniformly floated to a true even plane with fine-textured finish matching existing conditions

2. Prepared finish: Apply stucco finish coats, acrylic-based finish coats, and other factory-prepared finish coats according to manufacturer's written instructions

3. Surface Tolerance: Do not deviate more than plus or minus 1/8 inch in 10 feet from a true plane in finished plaster surfaces, as measured by a 10 foot straightedge placed at any location on surface

H. Provide final protection and maintain conditions, in a manner acceptable to manufacturer and installer that ensure plaster work is without damage or deterioration at the time of Substantial Completion

SECTION 07270 - WEATHER BARRIER MEMBRANE FOR PLASTER CLADDING

1. GENERAL

1.1 SUMMARY

A. Provide all work associated with the installation of weather barrier membrane for plaster cladding in exterior wall assemblies as indicated on contract drawings

1.2 PERFORMANCE REQUIREMENTS

A. Air Penetration: 0.004 cfm/ft2 at 75 Pa, when tested in accordance with ASTM E2178, Type I per ASTM E1677

B. Water Vapor Transmission: 50 perms, when tested in accordance with ASTM E96, Method B

C. Water Penetration Resistance: Minimum 210 cm when tested in accordance with AATCC Test Method 127

D. Air Resistance: Air infiltration at 300 seconds, when tested in accordance with TAPPI Test Method T-460

E. Surface Burning Characteristics: Class A, when tested in accordance with ASTM E84

1.3 SUBMITTALS

A. Submit product data for each product

1.4 WARRANTY

A. Provide a ten (10) year manufacturer warranty on all materials installed

2. PRODUCTS

2.1 MANUFACTURERS

A. Provide weather resistive barriers and accessories from one of the following manufacturers:

1. Dupont (Tyvek)
2. Ownes Corning
3. VaproShield
4. Dow

2.2 MATERIALS

A. Basis of Design: spunbonded polyolefin, non-woven, non-perforated, weather barrier is based upon DuPont™ Tyvek® StuccoWrap® and related assembly components

B. PHYSICAL REQUIREMENTS

1. Air Resistance: Air infiltration at 300 seconds, when tested in accordance with TAPPI Test Method T-460
2. Tensile Strength: Minimum 30/30 lbs/in., when tested in accordance with ASTM D882, Method A
3. Tear Resistance: 7/9 lbs, when tested in accordance with ASTM D1117

2.3 ACCESSORIES

A. Provide and install accessories as required by manufacture to guaranty a weather tight barrier over exterior sheathing

3. EXECUTION

3.1 EXAMINATION

A. Verify substrate and surface conditions are in accordance with weather barrier manufacturer recommended tolerances prior to installation of weather barrier and accessories

3.2 INSTALLATION

A. Install weather barrier Install in accordance with manufacturer's instruction over exterior sheathing. Seal joints and penetrations through weather resistant barrier with specified tape and fasteners prior to installation of finish material. Weather resistant barrier shall be air-tight and free from holes, tears, and punctures. All window and door penetrations are to be taped per manufacturer's instruction.

SECTION 07271-SELF - ADHERING AIR AND VAPOR BARRIER

1. GENERAL

1.1 SUMMARY

A. Provide all work associated with the installation of water-resistant self-adhering sheet air and vapor barrier in exterior wall assemblies.

1.2 PERFORMANCE REQUIREMENTS

A. Material Performance: Provide materials which have an air permeance not to exceed 0.004 cubic feet per minute per square foot under a pressure differential of 0.3 in. water (1.57 pounds per square foot) (0.02 liters per second per square meter at 75 Pascals) when tested according to ASTM E2178, and a vapor permeance of 0.1 perms or less when tested according to ASTM E96.

B. Assembly shall perform as a liquid drainage plane flashed to discharge condensation or water penetration to the exterior. Assembly shall accommodate movements of building materials by providing expansion and control joints as required, with accessory air and vapor seal materials at such locations, changes in substrate and perimeter conditions.

1. Assembly shall be capable of withstanding positive and negative combined design wind, fan and stack pressures on the envelope without damage or displacement, and shall transfer the load to the structure.
2. Assembly shall not displace adjacent materials under full load.
3. Assembly shall be joined in an airtight and flexible manner to the air barrier material of adjacent assemblies, allowing for the relative movement of assemblies due to thermal and moisture variations and creep, and anticipated seismic movement.

1.3 SUBMITTALS

A. Submit product data for each product

1. Submit letter from primary materials manufacturer indicating approval of products not manufactured by primary manufacturer.
2. Include statement that materials are compatible with adjacent materials proposed for use.
3. Submit reports indicating that field peel-adhesion test on all materials to which sealants are adhered have been performed and the changes made, if required, to other approved materials, in order to achieve successful adhesion.
4. Include VOC content of each material, and applicable legal limit in the jurisdiction of the project.

B. Submit samples for each product

1.4 QUALITY ASSURANCE

A. Air Barrier Contractor Qualifications: Currently accredited by the Air Barrier Association of America (ABAA) whose applicators are certified in accordance with the ABAA Quality Assurance Program

B. Manufacturer: Obtain primary materials from a single manufacturer regularly engaged in manufacturing air and vapor barrier membranes. Obtain secondary materials from a source acceptable to the primary materials manufacturer.

1.5 WARRANTY

A. Provide the following standard manufacturer's written warranty

1. Provide manufacturer's standard product warranty, for a minimum three (3) years from date of Substantial Completion
2. Provide installer's two (2) year warranty from date of Substantial Completion, including all components of the air and vapor barrier assembly, against failures including loss of air tight seal, loss of watertight seal, loss of adhesion, loss of cohesion, failure to cure properly

2. PRODUCTS

2.1 MATERIALS

A. Sheet Air and Vapor Barrier: Self-adhering membrane composed of flexible facing material coated completely and uniformly on one side with adhesive material, formed into uniform, flexible sheets, interleaved with disposable release liner that is removed prior to application. Use regular or low-temperature formulation depending on site conditions, within temperature ranges specified by manufacturer. Provide related accessories including primers, mastics, adhesives, tapes, sealants, flashings, and counterflashings recommended by manufacturer. Subject to compliance with requirements, provided by one of the following manufacturers:

1. Carlisle Coatings and Waterproofing
2. Grace Construction Products
3. Henry
4. Protective Coatings Technology, Inc.
5. Tremco, Inc.
6. W. R. Meadows, Inc.

2.2 AUXILIARY MATERIALS

A. Membrane at Transitions in Substrate and Connections to Adjacent Elements: Neoprene, ASTM D2000 Designation 2BC415 to 3BC620, 50 to 65 mils (1.3 mm to 1.6 mm) thick with non-corrosive termination bars and fasteners. Adhesive and lap sealant as recommended by manufacturer.

B. Transition Membrane between Air and Vapor Barrier Membrane and Roofing and Other Adjacent Materials: Comply with both air and vapor barrier manufacturer's recommendations and material manufacturer's recommendations

3. EXECUTION

3.1 PREPARATION

A. Examine substrates, areas, and conditions under which air and vapor barrier assemblies will be applied, with Installer present, for compliance with manufacturer's requirements. Do not proceed with installation until unsatisfactory conditions have been corrected.

B. Clean, prepare, and treat substrate according to manufacturer's written instructions. Ensure clean, dust-free, and dry substrate for air and vapor barrier application.

3.2 INSTALLATION

A. Install membrane to provide continuity throughout the building envelope. Install materials in accordance with manufacturer's recommendations.

B. Apply primer at rate recommended by manufacturer prior to membrane installation. Allow primer to dry completely before membrane application. Apply as many coats as necessary for proper adhesion.

1. When membrane is properly positioned, press into place and roll membrane with roller immediately after placement
2. Apply membrane sheets to shed water naturally without interception by a sheet edge, unless that edge is sealed with permanently flexible termination mastic.
3. Position sheets of membrane applied above so that membrane overlaps the membrane sheet by a minimum of 4 inches unless greater overlap is recommended by the manufacturer.
4. Seal around all penetrations in accordance with manufacturer's written recommendations to guarantee water and air tight seal.
5. Connect air and vapor barrier in exterior wall assembly continuously to the air barrier of the roof, to concrete below-grade structures, to windows, curtain wall, storefront, louvers, exterior doors and other intersection conditions and perform sealing of penetrations, using accessory materials and in accordance with the manufacturer's recommendations.
6. At changes in substrate plane, provide transition material (bead of sealant, mastic, extruded silicone sealant, membrane counterflashing or other material recommended by manufacturer) under membrane to eliminate all sharp 90 degree inside corners and to make a smooth transition from one plane to another.
7. Provide mechanically fastened non-corrosive metal sheet to span gaps in substrate plane and to make a smooth transition from one plane to the other. Membrane shall be continuously supported by substrate.
8. At through-wall flashings, provide an additional 6 inch wide strip of manufacturer's recommended membrane counterflashing to seal top of through-wall flashing to membrane. Seal exposed top edge of strip with bead of mastic as recommended by manufacturer.
9. Do not expose membrane to sunlight longer than as recommended by the manufacturer.
10. Inspect installation prior to enclosing assembly and repair punctures, damaged areas and inadequately lapped seams with a patch of membrane lapped as recommended by manufacturer.

3.3 PROTECTION & CLEANING

A. Protect air and vapor barrier assemblies from damage during application and remainder of construction period, according to manufacturer's written instructions

B. Coordinate with installation of materials which cover air and vapor membrane, to ensure exposure period does not exceed that recommended by the air and vapor barrier manufacturer.

C. Clean spillage and soiling from adjacent construction using cleaning agents and procedures recommended by manufacturer of affected construction and acceptable to the primary material manufacturer.

SECTION 07272 - FLUID APPLIED AIR AND VAPOR BARRIER

1. GENERAL

1.1 SUMMARY

A. Provide all work associated with the installation of water-resistant fluid applied air and vapor barrier in exterior wall assemblies

1.2 PERFORMANCE REQUIREMENTS

A. Material Performance: Provide materials which have an air permeance not to exceed 0.004 cubic feet per minute per square foot under a pressure differential of 0.3 in. water (1.57 pounds per square foot) (0.02 liters per second per square meter at 75 Pascals) when tested according to ASTM E2178, and a vapor permeance of 0.1 perms or less when tested according to ASTM E96

B. Assembly shall perform as a liquid drainage plane flashed to discharge condensation or water penetration to the exterior. Assembly shall accommodate movements of building materials by providing expansion and control joints as required, with accessory air and vapor seal materials at such locations, changes in substrate and perimeter conditions.

1. Assembly shall be capable of withstanding positive and negative combined design wind, fan and stack pressures on the envelope without damage or displacement, and shall transfer the load to the structure.
2. Assembly shall not displace adjacent materials under full load.
3. Assembly shall be joined in an airtight and flexible manner to the air barrier material of adjacent assemblies, allowing for the relative movement of assemblies due to thermal and moisture variations and creep, and anticipated seismic movement

1.3 SUBMITTALS

A. Submit product data for each product

1. Submit letter from primary materials manufacturer indicating approval of products not manufactured by primary manufacturer
2. Include statement that materials are compatible with adjacent materials proposed for use

3. Include VOC content of each material, and applicable legal limit in the jurisdiction of the project

B. Submit samples for each product

1.4 QUALITY ASSURANCE

A. Air Barrier Contractor Qualifications: Currently accredited by the Air Barrier Association of America (ABAA) whose applicators are certified in accordance with the ABAA Quality Assurance Program

B. Manufacturer: Obtain primary materials from a single manufacturer regularly engaged in manufacturing air and vapor barrier membranes. Obtain secondary materials from a source acceptable to the primary materials manufacturer.

1.5 WARRANTY

A. Provide the following standard manufacturer's written warranty

1. Provide manufacturer's standard product warranty, for a minimum three (3) years from date of Substantial Completion
2. Provide installer's two (2) year warranty from date of Substantial Completion, including all components of the air and vapor barrier assembly, against failures including loss of air tight seal, loss of watertight seal, loss of adhesion, loss of cohesion, failure to cure properly

2. PRODUCTS

2.1 MATERIALS

A. Fluid-Applied Air and Vapor Barrier: Fluid-applied proprietary materials as specified. Use regular or low-temperature formulation depending on site conditions, within temperature ranges specified by manufacturer. Provide related accessories including primers, mastics, adhesives, tapes, sealants, flashings and counterflashings recommended by manufacturer. Subject to compliance with requirements, provided by one of the following manufacturers:

1. Carlisle Coatings and Waterproofing
2. Grace Construction Products
3. Henry
4. Protective Coatings Technology, Inc.
5. Tremco, Inc.
6. W. R. Meadows, Inc.

2.2 AUXILIARY MATERIALS

A. Membrane at Transitions in Substrate and Connections to Adjacent Elements: Neoprene, ASTM D2000 Designation 2BC415 to 3BC620, 50 to 65 mils (1.3 mm to 1.6 mm) thick with non-corrosive termination bars and fasteners. Adhesive and lap sealant as recommended by manufacturer.

B. Transition Membrane between Air and Vapor Barrier Membrane and Roofing and Other Adjacent Materials: Comply with both air and vapor barrier manufacturer's recommendations and material manufacturer's recommendations

3. EXECUTION

3.1 PREPARATION

A. Examine substrates, areas, and conditions under which air and vapor barrier assemblies will be applied, with Installer present, for compliance with manufacturer's requirements. Do not proceed with installation until unsatisfactory conditions have been corrected.

B. Clean, prepare, and treat substrate according to manufacturer's written instructions. Ensure clean, dust-free, and dry substrate for air and vapor barrier application.

3.2 INSTALLATION

A. Install transition strip materials and fluid-applied air and vapor barrier to provide continuity throughout the building envelope. Install materials in accordance with manufacturer's recommendations and as follows, unless manufacturer recommends other procedures in writing based on project conditions or particular requirements of their recommended materials:

1. Apply primer for transition strips at rate recommended by manufacturer. Allow primer to dry completely before transition strip application. Apply as many coats as necessary for proper adhesion.
2. Apply primer for fluid-applied air and vapor barrier as recommended by fluid-applied air and vapor barrier manufacturer. Based on manufacturer's recommendation, no primer may be required for the fluid-applied materials.
3. Apply fluid-applied air and vapor barrier using equipment and methods recommended by manufacturer, to achieve a dry film thickness as recommended by the manufacturer
4. Apply fluid-applied air and vapor barrier and transition strips to shed water naturally without interception by a sheet edge, unless that edge is sealed with permanently flexible termination mastic
5. Position transition strips so that transition strips overlaps the membrane sheet below by a minimum of 4 inches, unless a greater overlap is recommended by manufacturer. Roll into place with roller.
6. Seal around all penetrations with termination mastic, extruded silicone sealant, membrane counterflashing or other procedure in accordance with manufacturer's recommendations
7. Connect air and vapor barrier in exterior wall assembly continuously to the air barrier of the roof, to concrete below-grade structures, to windows, curtain wall, storefront, louvers, exterior doors and other intersection conditions and perform sealing of penetrations, using accessory materials and in accordance with the manufacturer's recommendations
8. At changes in substrate plane, provide transition material (bead of sealant, mastic, extruded silicone sealant, membrane counterflashing or other material recommended by manufacturer) under membrane to eliminate all sharp 90 degree inside corners and to make a smooth transition from one plane to another
9. Provide mechanically fastened non-corrosive metal sheet to span gaps in substrate plane and to make a smooth transition from one plane to the other. Membrane shall be continuously supported by substrate or as recommended by the manufacturer.
10. At through-wall flashings, provide an additional 6 inch wide strip of manufacturer's recommended membrane counterflashing to seal top of through-wall flashing to membrane or as recommended by manufacturer. Seal exposed top edge of strip with bead of mastic or as recommended by manufacturer.
11. Do not allow materials to come in contact with chemically incompatible materials
12. Do not expose membrane to sunlight longer than as recommended by the manufacturer
13. Inspect installation prior to enclosing assembly and repair punctures, damaged areas and inadequately lapped seams with a patch of membrane lapped as recommended by manufacturer

3.3 PROTECTION & CLEANING

A. Protect air and vapor barrier assemblies from damage during application and remainder of construction period, according to manufacturer's written instructions

B. Coordinate with installation of materials which cover air and vapor membrane, to ensure exposure period does not exceed that recommended by the air and vapor barrier manufacturer

C. Clean spillage and soiling from adjacent construction using cleaning agents and procedures recommended by manufacturer of affected construction and acceptable to the primary material manufacturer

SECTION 07280 - WATER RESISTIVE BARRIERS

1. GENERAL

1.1 SUMMARY

A. Provide all work associated with the installation of water resistive barriers in exterior wall assemblies

1.2 PERFORMANCE REQUIREMENTS

A. Air Penetration: 0.001 cfm/ft2 at 75 Pa, when tested in accordance with ASTM E2178. Type I per ASTM E1677. ≤0.04 cfm/ft2 at 75 Pa, when tested in accordance with ASTM E2357

B. Water Vapor Transmission: 28 perms, when tested in accordance with ASTM E96, Method B.

C. Water Penetration Resistance: Minimum 280 cm when tested in accordance with AATCC Test Method 127.

D. Air Resistance: Air infiltration at >1500 seconds, when tested in accordance with TAPPI Test Method T-460.

E. Surface Burning Characteristics: Class A, when tested in accordance with ASTM E84.

1.3 SUBMITTALS

A. Submit product data for each product used

1.4 WARRANTY

A. Provide a ten (10) year manufacturer warranty on all materials installed

2. PRODUCTS

2.1 MANUFACTURERS

A. Provide water resistive barriers and accessories from one of the following manufacturers:

1. Dupont (Tyvek)
2. Owens Corning
3. VaproShield
4. Dow

2.2 MATERIALS

A. Basis of Design: Spunbonded polyolefin, non-woven, non-perforated, weather barrier is based upon DuPont™ Tyvek® CommercialWrap® and related assembly components

B. PHYSICAL REQUIREMENTS

1. Basis Weight: Minimum 2.7 oz/yd2, when tested in accordance with TAPPI Test Method T-410
2. Tensile Strength: Minimum 38/35 lbs/in., when tested in accordance with ASTM D882, Method A
3. Tear Resistance: 12/10 lbs., when tested in accordance with ASTM D1117

2.3 ACCESSORIES

A. Provide and install accessories as required by manufacturer to guaranty a weather tight barrier over exterior sheathing

3. EXECUTION

3.1 EXAMINATION

A. Verify substrate and surface conditions are in accordance with weather barrier manufacturer recommended tolerances prior to installation of weather barrier and accessories

3.2 INSTALLATION

A. Install weather barrier Install in accordance with manufacturer's instruction over exterior sheathing. Seal joints and penetrations through weather resistant barrier with specified tape and fasteners prior to installation of finish material. Air infiltration barrier shall be air-tight and free from holes, tears, and punctures. All window and door penetrations are to be taped per manufacturer instruction.

SECTION 07412 - EXTERIOR COMPOSITE ALUMINUM WALL PANELS

1. GENERAL

1.1 SUMMARY

A. Minimum performance requirements for the Composite Aluminum Wall Panel System installed

1.2 SUBMITTALS

A. Submit product data for each product

B. Submit samples

C. Submit shop drawings

1.3 WARRANTIES

A. Provide manufacturer's standard and material warranty that the panels will not delaminate for no less than five (5) years

B. Provide manufacturer's standard and material warranty of no less than twenty (20) years for the finish

2. PRODUCTS

2.1 MANUFACTURERS

A. Provide Composite Aluminum Wall Panels manufactured with aluminum sheet alclad alloy 3003 or 3004 per ASTM B209, with temper to suit forming operations by one of the following:

1. Alucobond
2. Southern Aluminum Finishing Company
3. Petersen Aluminum Co.
4. Citadel Architectural Products

2.2 MATERIALS

A. General: Wall panels shall be of sizes, thickness, color, and system types as shown on drawings

B. Composite Panel Thickness: Achieve a minimum thickness of 0.12 inches (3mm)

C. Bond Integrity: There shall be no evidence of delaminating when the panels are tested by simulating 2 million cycles of positive and negative pressurization L1/60. Test must be performed by a third party independent testing agency.

D. Finish Type: Refer to Finish Schedule for color. Unless otherwise noted on the drawings the finish type shall be factory applied and as follows:

1. Exterior Locations:
   a. Kynar 500, per AAMA 2605
   b. Anodized Architectural Aluminum, Class I Clear/Class I Color, per AAMA Specification 611
2. Interior Locations
   a. Baked Enamel, per AAMA 2603
   b. Anodized Architectural Aluminum, Class II Clear/Class II Color, per AAMA Specification 611

E. Fasteners: Galvanized Self-tapping screws, bolts, nuts, self-locking rivets and bolts, end-welded studs, and other suitable fasteners designed to withstand design loads. All fasteners to be concealed.

2.3 FIRE PERFORMANCE

A. Surface Burning: ASTM E84, have a flame spread index of less than 25 and a smoke developed index of less than 450

B. Fire Endurance: ASTM E119, Maintain fire resistance rating of known rated walls

2.4 SYSTEM PERFORMANCE

A. Water Penetration: ASTM E331, No water penetration after 2 hrs at 299 Pa (6.24 PSF)

B. Air Infiltration: ASTM-283-73, Air infiltration shall not exceed .03 cfm per square foot when tested as a static pressure of 1.56 psf (equivalent to 25MPH wind)

C. Wind Load: System must withstand negative and positive wind load as required by local code and shall be within the limits as specified by AISC and ACI as measured per ASTM E330

3. EXECUTION

3.1 INSPECTION

A. All structural systems and support systems shall be inspected for proper alignment and tolerances. Building tolerances shall be within those limits specified by AISC or ACI

3.2 INSTALLATION

A. Comply with panel fabricator and material manufacturer's instructions and recommendations for installation. Anchor panels and other components of the work securely in place with provisions for thermal/structural movement.

1. Field cutting of exterior panels is not permitted
2. Install panels with concealed fasteners

B. Install waterproofing and flashing to prevent air and moisture penetration. Install gaskets, joint fillers and sealants where indicated and where required for weatherproof performance of panel system. Provide types of gaskets and sealants fillers indicated or, if not indicated, types recommended by panel manufacturer.

SECTION 07541 - POLYVINYL CHLORIDE (PVC) MEMBRANE ROOFING

1. GENERAL

1.1 WORK INCLUDED

A. PVC Adhered membrane roofing system.

B. Base Sheet.

1.2 PERFORMANCE CRITERIA

A. General: Installed roofing membrane and base flashing systems shall remain watertight; and resist specified wind uplift pressures, thermally induced movement, and exposure to weather without failure.

B. Material Compatibility: Roofing materials shall be compatible with one another under conditions of service and application required, as demonstrated by roofing system manufacturer based on testing and field experience.

C. Wind Uplift Performance: Roofing system shall be identical to systems that have been successfully tested by a qualified testing and inspecting agency to resist wind uplift pressure calculated in accordance with ASCE-7.

1.3 SUBMITTALS

A. Product Data: Manufacturer's product data sheets for each product to be provided.

B. Maintenance Data: Refer to manufacturer's latest published documents

C. Guarantees: Special guarantees specified in this Section.

1.4 QUALITY ASSURANCE

A. Installer Qualifications: Qualified firm that is approved, authorized, or licensed by roofing system manufacturer to install manufacturer's product and is eligible to receive the specified manufacturer's guarantee.

B. Manufacturer Qualifications: Qualified manufacturer that has UL listing for roofing system identical to that used for this Project.

C. Testing Agency Qualifications: Independent testing agency with the experience and capability to conduct the testing indicated, as documented in accordance with ASTM E 548.

D. Source Limitations: Obtain all components from the single source roofing system manufacturer guaranteeing the roofing system. All products used in the system shall be labeled by the single source roofing system manufacturer issuing the guarantee.

E. Fire-Test-Response Characteristics: Roofing materials shall comply with the fire-test-response characteristics indicated as determined by testing identical products per test method below by UL, [FMG], or another testing and inspecting agency acceptable to authorities having jurisdiction. Materials shall be identified with appropriate markings of applicable testing and inspecting agency.

1. Exterior Fire-Test Exposure: Class C, ASTM E 108, for application and roof slopes indicated.
2. Fire-Resistance Ratings: ASTM E 119, for fire-resistance-rated roof assemblies of which roofing system is a part.

1.5 GUARANTEES

A. Provide manufacturer's system guarantee equal to Johns Manville's Peak Advantage No Dollar Limit Roofing System Guarantee.

1. Single-Source special guarantee includes roofing plies, base flashings, liquid applied flashing, roofing membrane accessories, [roof insulation], [fasteners], [cover board], [substrate board], [vapor retarder], [walkway products], [manufacturer's expansion joints], [manufacturer's edge metal products], and other single-source components of roofing system marketed by the manufacturer.
2. Guarantee Period: 15 years from date of Substantial Completion.

B. Installer's Guarantee: Submit roofing Installer's guarantee signed by Installer, covering Work of this Section, including all components of roofing system, for the following guarantee period:

1. Guarantee Period: Five Years from date of Substantial Completion.

2. PRODUCTS

2.1 Polyvinyl-Chloride Roofing Membrane - PVC

A. PVC Sheet: ASTM D 4434, Type III, fabric reinforced that contains KEE (Elvaloy) to reduce plasticizer migration. Basis of Design: PVC, Duro-Last, Carlisle, or architect pre approved equal

1. If the membrane does not contain KEE, then a post installation coating is required to mitigate plasticizer migration..
2. Certification, by letter, stating that the formulation has a minimum 15 years of performance history in North America.
3. Thickness: 60 mils (1.52 mm), nominal
4. Minimum three-year aged solar reflectance of 0.55 and three-year aged thermal emittance of 0.75

2.2 AUXILIARY Roofing Materials - Single Ply

A. General: Auxiliary materials recommended by roofing system manufacturer for intended use and compatible with membrane roofing.

1. Liquid-type auxiliary materials shall meet VOC limits of authorities having jurisdiction.
2. Sheet Flashing: Manufacturer's sheet flashing of same material, type, reinforcement, thickness, and color as sheet membrane.
3. Bonding Adhesive: Manufacturer's standard bonding adhesive for membrane, and solvent-based bonding adhesive for base flashings.
4. Slip Sheet: Manufacturer's recommended slip sheet, of type required for application.
5. Miscellaneous Accessories: Provide pourable sealers, preformed cone and vent sheet flashings, preformed inside and outside corner sheet flashings, T-joint covers, termination reglets, cover strips, sealants, and other accessories.

2.3 WALKWAYS

A. Flexible Walkways: Factory-formed, nonporous, heavy-duty, slip-resisting, surface-textured walkway pads sourced from membrane roofing system manufacturer.

3. EXECUTION

3.1 EXAMINATION

A. Examine substrates, areas, and conditions for compliance with requirements affecting performance of roofing system.

B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

A. Clean and remove from substrate sharp projections, dust, debris, moisture, and other substances detrimental to roofing installation in accordance with roofing system manufacturer's written instructions.

B. Prevent materials from entering and clogging roof drains and conductors and from spilling or migrating onto surfaces of other construction.

C. Prime surface of concrete deck with asphalt primer at a rate recommended by roofing manufacturer and allow primer to dry.

D. Proceed with installation only after unsatisfactory conditions have been corrected.

3.3 ROOFING MEMBRANE INSTALLATION, GENERAL

A. Install roofing membrane in accordance with roofing system manufacturer's written instructions, applicable recommendations of the roofing manufacturer and requirements in this Section.

B. Start installation of roofing membrane in presence of roofing system manufacturer's technical personnel.

C. Where roof slope exceeds 1/2 inch per 12 inches (1:24, contact the membrane manufacturer for installation instructions regarding installation direction and backnailing

D. Cooperate with testing and inspecting agencies engaged or required to perform services for installing roofing system.

E. Coordinate installing roofing system so insulation and other components of the roofing membrane system not permanently exposed are not subjected to precipitation or left uncovered at the end of the workday or when rain is imminent.

3.4 ADHERED ROOFING MEMBRANE INSTALLATION

A. Install roofing membrane over area to receive roofing in accordance with membrane roofing system manufacturer's written instructions. Unroll roofing membrane and allow to relax before installing.

1. Install sheet in accordance with ASTM D 5036 and roofing system manufacturer's written instructions.

B. Start installation of roofing membrane in presence of membrane roofing system manufacturer's technical representative.

C. Accurately align roofing membrane and maintain uniform side and end laps of minimum dimensions required by manufacturer. Stagger end laps.

D. Bonding Adhesive: Apply solvent-based bonding adhesive to substrate and underside of roofing membrane at rate required by manufacturer and allow to partially dry before installing roofing membrane. Do not apply bonding adhesive to splice area of roofing membrane.

E. Bonding Adhesive: Apply water-based bonding adhesive to substrate at rate required by manufacturer and immediately install roofing membrane. Do not apply bonding adhesive to splice area of roofing membrane.

F. Urethane Membrane Adhesive: Apply 2-Part Urethane Adhesive substrate at rate required by manufacturer and install fleece-backed roofing membrane. Do not apply bonding adhesive to splice area of roofing membrane.

G. Mechanically fasten roofing membrane securely at terminations, penetrations, and perimeter of roofing.

H. Apply roofing membrane with side laps shingled with slope of roof deck where possible.

I. Adhesive Seam Installation: Clean both faces of splice areas, apply splicing cement, and firmly roll side and end laps of overlapping roofing membranes according to manufacturer's written instructions to ensure a watertight seam installation. Apply lap sealant and seal exposed edges of roofing membrane terminations.

1. Apply a continuous bead of in-seam sealant before closing splice if required by membrane roofing system manufacturer.

J. Seams: Clean seam areas, overlap roofing membrane, and hot-air weld side and end laps of roofing membrane according to manufacturer's written instructions to ensure a watertight seam installation.

1. Test lap edges with probe to verify seam weld continuity. Apply lap sealant to seal cut edges of roofing membrane.
2. Verify field strength of seams a minimum of twice daily and repair seam sample areas.
3. Remove and repair any unsatisfactory sections before proceeding with Work.
4. Repair tears, voids, and lapped seams in roofing membrane that do not meet requirements.

K. Spread sealant or mastic bed over deck drain flange at deck drains and securely seal roofing membrane in place with clamping ring.

L. Install roofing membrane and auxiliary materials to tie in to existing roofing.

M. Proceed with installation only after unsatisfactory conditions have been corrected.

3.5 WALKWAY INSTALLATION

A. Flexible Walkways: Install walkway products in locations indicated. Adhere with compatible adhesive and heat weld walkway products to substrate according to roofing system manufacturer's written instructions. - PVC

B. Roof-Paver Walkways: Install walkway roof pavers according to manufacturer's written instructions in locations indicated, to form walkways. Leave 3 inches (75 mm) of space between adjacent roof pavers.

C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.6 FIELD QUALITY CONTROL

A. Testing Agency: Owner will engage a qualified independent testing and inspecting agency to perform roof tests and inspections and to prepare test reports.

B. Final Roof Inspection: Arrange for roofing system manufacturer's Registered Roof Observer (RRO) to inspect roofing installation on completion and submit report to Architect.

C. Repair or remove and replace components of roofing system where test results or inspections indicate that they do not comply with specified requirements.

SECTION 07620 - FLASHING AND SHEET METAL

1. GENERAL

1.1 WORK INCLUDED

A. Provide flashing and accessories as required for complete weather tight installation of exterior envelope assemblies

B. The information in this section is intended for general flashing products and does not override flashing requirements described in other sections

1.2 PERFORMANCE

A. All flashing materials must possess the following properties:

1. Impervious to moisture penetration
2. Resistant to corrosion caused by exposure to the atmosphere or by caustic materials in adjacent materials
3. Resistant to puncture, abrasion and other damage during installation
4. Formability so that the flashing can be worked to the correct shape and retain this shape after installation

1.3 SUBMITTALS

A. Submit product data for each product used noting the application and location for each product as part of the submittal

1.4 QUALITY ASSURANCE

A. Conform to the most stringent of the recommendations of the following publications except as herein exceeded:

1. Sheet Metal and Air Conditioning Contractors National Associations, Inc.
2. NRCA Roofing Manuals, latest version

1.5 WARRANTIES

A. Provide a three (3) year warranty covering flashing assemblies for water tightness and from buckling

2. PRODUCTS

2.1 METAL FLASHING

1. Aluminum is subject to attack by the caustic alkalis present in fresh, in hardened mortar. Dry seasoned mortar will not affect aluminum however corrosion can occur is the adjacent mortar becomes wet. Therefore aluminum should not be used by itself as masonry or stone wall flashing. If aluminum must be used it must be coated complete to protect it from contact with mortar]

A. Aluminum Sheet Metal: ASTM B209, Alloy 3003 with a thickness greater than 0.019 inches thick and have a 16,000 psi tensile strength

B. Extruded Aluminum: ASTM B221, Alloy 6063

1. Base, valley, gable end, other flashings, gravel stops, downspouts, and some other flashings should weigh between 20 and 24oz/sq. ft depending upon their use. Consult the Copper Development Association's CDA publication "Copper, Brass, Bronze Design Handbook, Sheet Copper Applications"]

C. Sheet Copper: ASTM B37, with a weight greater than 16oz/sq. ft.

1. Galvanized sheet steel will corrode when in contact with fresh mortar and may even corrode when in contact with cured mortar. Therefore it should not be used in masonry or stone when possible. If galvanized sheet steel must be used than it should be protected completely with a bituminous coating.
2. Galvanized sheet steel will also eventually corrode when in contact with air unless coated with a bituminous coating or paint]

D. Galvanized Sheet Steel: ASTM A653, with a thickness greater than 0.0396 inches

1. Stainless steel used for masonry wall flashing should be AISI Type 304 with a No. 2B finish. It should be specified by number and not the generic term alone.]

E. Stainless Sheet Steel: AISI Type 302/304, ASTM A666, with a thickness greater than 0.0156 inches with a 2B finish

F. All metals to arrive to the job site with a factory finish in the color that is specified on the contract documents

2.2 FLEXIBLE FLASHING

A. Concealed Though-Wall Flashing: Combination Sheet flashing consisting of at least one (1) 7oz copper sheet laminated between 2 layers of bituminous impregnated Kraft paper or saturated fabric

2.3 ACCESSORIES

A. Solder: Use solder conforming to ASTM B32 that is compatible with the metal being installed

B. Fasteners: Noncorrosive metal compatible and in the same finish as the metal being installed

C. Asphalt Mastic: SSPC-Paint 12, asbestos free, solvent type

D. Mastic Sealant: Polyisobutylene; non-hardening, non-skinning, non-drying, non-migrating sealant

E. Elastomeric Sealant: As specified by "Section - Joint Sealants & Joint Fillers"

F. Epoxy Seam Sealer: 2 part noncorrosive seam cementing compound compatible with the flashing material being installed

G. Adhesives: Type recommended for waterproof and weather resistant seaming and adhesion

H. Clips, Straps, Anchoring Devices, and Similar Accessories: Noncorrosive metal compatible with the metal being installed

I. Paper Slip Sheet: Sb/square red rosin, sized building paper conforming to FS VV-B-790, Type I, Style 1b

3. EXECUTION

3.1 INSPECTION

A. Verify that substrates are smooth and clean to extent needed for flashing work

B. Verify that cants and blocking to receive flashing material are installed and free of concrete and soil

C. Do not start flashing work until conditions are satisfactory

3.2 INSTALLATION

A. Install work water-tight, without waves, warps, buckles, fastening stresses or distortion, allowing for expansion and contraction

B. Install pre-manufactured sheet metal systems in compliance with manufacturer's recommendations, except where more stringent requirements are specified herein

C. Protect metals from galvanic action of dissimilar materials

D. Protect materials from deterioration or corrosion caused by exposure to caustic materials in adjacent materials

E. Hem all exposed Edges

F. Angle bottom edges of exposed vertical surfaces to form drips

G. Provide a 4 inch minimum over lap when splicing flashing materials

SECTION 07811 - SPRAY FIRE-RESISTIVE MATERIALS

1. GENERAL

1.1 WORK INCLUDED

A. Furnish and install sprayed-fiber and cementitious sprayed fire-resistive materials

aria GROUP

830 North Blvd.
Oak Park, Illinois
60301

708-445-8400
ariainc.com

ARIA GROUP ARCHITECTS, INC.

COOPER'S HAWK WINERY & RESTAURANT

540 NW CHIPMAN
ROAD, LEE'S SUMMIT,
MO 64086

FIELD VERIFICATION
Contractor shall verify all figured dimensions and conditions at the job site and notify Aria Group Architects, Inc. of any dimensional errors, omissions or discrepancies before beginning or fabricating any work. Do not scale these drawings.

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NO.	DATE	REMARKS

REVISIONS

STATE OF MISSOURI
DANIEL PAUL BERNATEK
NUMBER A-2010026239
ARCHITECT
8/19/21
EXP 12/31/22

Drawing Title
SPECIFICATION SHEET

Job No.	Drawn
204530	Author
Scale

1.2 QUALITY ASSURANCE

A. Installer Qualifications: Engage an experienced installer certified, licensed, or otherwise qualified by sprayed fire-resistive material manufacturer with a signed certificate by the manufacturer as having the necessary experience, staff, and training to install manufacturer's product according to specified requirements

B. Testing Agency Qualifications: An independent testing and inspecting agency with the experience and capability to conduct the testing indicated without delaying the Work as documented according to ASTM E699

1.3 WARRANTY

A. General Warranty: Warranty Period: 2 years from date of Substantial Completion

2. PRODUCTS

2.1 MATERIALS

A. Material Composition: Fire resistive materials to be composed of the following dry or wet applied products

1. Gypsum or Portland cement binders and mineral or synthetic aggregate
2. Cement binders and cement aggregate
3. Inorganic binders and mineral fibers

B. Material Density Classification and Usage:

1. Low Density: At all interior applications
2. Medium Density: At all interior exposed applications
3. High Density: At all exterior applications with indirect exposure

C. Physical Properties: These are minimum values, unless otherwise indicated, or required to attain designated fire-resistance rating described in the contract documents

1. Dry Density: As measured per ASTM E605
   a. Low Density: 15 pcf (240 kg/m3)
   b. Medium Density: 22 pcf (3252 kg/m3)
   c. High Density: 40 pcf (641 kg/m3)
2. Thickness: Minimum average thickness not less than 1/4 inch as determined per ASTM E605 or as required to attain designated fire-resistance rating
3. Cohesion / Adhesion: As measured per ASTM E736
   a. Low Density: 150 psf (72 kPa)
   b. Medium Density: 434 psf (208 kPa)
   c. High Density: 1,000 psf (479 kPa)
4. Compressive Strength: As measured per ASTM E761
   a. Low Density: 750 psf (359 kPa)
   b. Medium Density: 7,344 psf (351 kPa)
   c. High Density: 43,200 psf (2,068 kPa)
5. Corrosion Resistance: No evidence of corrosion per ASTM E937
6. Deflection: no cracking, spalling, delamination, or the like per ASTM E759
7. Effect of Impact on Bonding: No cracking, spalling, delamination, or the like per ASTM E760
8. Air Erosion: Maximum weight loss of 0025 g/sq ft in 24 hours per ASTM E859
9. Combustion Characteristics: Pass ASTM E136
10. Fire Test-Response Characteristics: Flame spread of 10 or less and smoke developed of 0 per ASTM E84

D. Products: Subject to compliance with requirements, provide products by one of the following manufacturers:

1. Cementitious Sprayed Fire-Resistive Material:
   a. Carboline Co, Fireproofing Products Div
   b. Grace & Co Conn, Construction Products Div
   c. Isolatek International Corp, Cafco Products
2. Sprayed-Fiber Fire-Resistive Material:
   a. Isolatek International Corp, Cafco Products

2.2 ACCESSORIES

A. General: Provide auxiliary fire-resistive materials that are compatible with sprayed fire-resistive materials and substrates and are approved by UL or of another testing and inspecting agency acceptable to authorities having jurisdiction for use in fire-resistive designs indicated

3. EXECUTION

3.1 INSTALLATION: GENERAL

A. Comply with fire-resistive material manufacturer's written instruction for mixing materials, application procedures and types of equipment used to convey and spray on fire-resistive material, as applicable to particular conditions of installation and as required to achieve fire-resistance ratings indicated

B. Cover other work subject to damage from fall out or over spray of fire-resistive materials during application Provide temporary enclosures as required to confine spraying operations, protect the environment, and ensure maintenance of adequate ambient conditions of temperature and ventilation

C. Apply fire-resistive material in thicknesses and densities indicated, but not less than those required to achieve fire-resistance ratings designated on contract documents

D. Where sealers are used, apply products that are tinted to differentiate them from the sprayed fire-resistive material over which they are applied

3.2 FIELD QUALITY CONTROL

A. Testing Agency: Contractor will engage a qualified independent testing and inspecting agency to perform field tests and inspections and to prepare test reports

1. Testing and inspecting agency will interpret tests and state in each report whether tested work complies with or deviates from requirements

B. Testing and inspecting of completed applications of sprayed fire-resistive material will take place in successive stages, in areas of extent and using methods as follows: Do not proceed with application of fire-resistive material for the next area until test result for previously completed applications of fire-resistive material show compliance with requirements

C. Remove and replace applications of fire-resistive material where test results indicate that they do not comply with specified requirements of cohesion and adhesion or for density & thickness, or both

3.3 CLEANING AND PROTECTION

A. Cleaning: Immediately after completing spraying operations in each containable area of Project, remove material overspray and fallout from surfaces of other construction and clean exposed surfaces to remove evidence of soiling

B. Cure exposed cementitious sprayed fire-resistive material according to product manufacturer's written recommendations to prevent premature drying

C. Repair or replace work that has not been successfully protected

SECTION 07842 - FIRE RESISTIVE JOINT SYSTEMS

1. GENERAL

1.1 SUMMARY

A. This section contains general performance criteria for fire resistive joint systems for this project

1.2 QUALITY ASSURANCE

A. Fire resistive system installation must meet requirements of ASTM E814, UL 1479 or UL 2079

B. For those fire resistive joint applications that exist for which no UL tested system is available through a manufacturer, a manufacturer's engineering judgment derived from similar UL system designs or other tests will be submitted to local authorities having jurisdiction for their review and approval prior to installation Engineer judgment drawing must follow requirements set forth by the International Fire Stop Council

2. PRODUCTS

2.1 GENERAL

A. Provide fire resistive system composed of components that are compatible with each other, the substrates forming openings, and items, if any, penetrating the fire resistive system under conditions of service application, as demonstrated by the fire resistive system manufacturer based on testing and fied experience

B. Use only components specified by the fire resistive system manufacturer and approved by the qualified testing agency for designated fire-resistance -rated systems

2.2 MANUFACTURERS

A. Manufacturers are subject to compliance with through penetrations fire stop systems (XHEZ) and joint systems (XHBN) listed in Volume II of the UL Fire Resistance Directory for all systems and products provided

2.3 MATERIALS

A. Use only fire resistive products that have been UL 1479, ASTM E814, or UL 2079 tested for specific fire-rated construction conditions conforming to construction assembly type, penetrating item type, annular space requirements, and fire-rating involved for each separate instance

B. Provide a fire resistive system with an "F" rating as determined by UL 1479 or ASTM E814 which is equal to the time rating of construction being penetrated

C. Provide a fire resistive system with an assembly rating as determined by UL 2079 which is equal to the time rating of construction being penetrated

3. EXECUTION

3.1 INSTALLATION

A. Install fire resistive materials in accordance with the UL Fire Resistance Directory & manufacturer's instructions for installation of through-penetration and construction join materials

SECTION 07920 - JOINT SEALANTS & JOINT FILLERS

1. GENERAL

1.1 SUMMARY

A. Provide sealants and caulking materials indicated on contract drawings and described in the contract specifications

1.2 PERFORMANCE REQUIREMENTS

A. Provide sealants and caulking material in joints fitting descriptions and locations listed below and complying with C920

1. Joints on exterior of building and joints on interior of building in horizontal (traffic) surfaces such as: concrete, metal, mortar & concrete to precast concrete: Multi-Part Pourable Urethane
2. Exposed metal to metal joints: One-Part Non-Acid Curing Silicone
3. Joints on interior of building in vertical and overhead surfaces, top of partitions, unless otherwise indicated, and joints subject to maximum movement of plus or minus 12.5 percent: Acrylic
4. Non-moving joints on interior of building in vertical and overhead surfaces at perimeter of elevator door frames, hollow metal door frames, and other metal frames, gypsum drywall, and other interior locations, unless otherwise indicated: Acrylic-emulsion
5. Joints in Toilet Rooms and other wet areas, and perimeter of hot pipes through non-fire-rated floors or walls: One-Part Mildew-Resistant Silicone
6. Acoustical Sealant: Concealed acoustical sealed joints in interior partition construction and at perimeter of interior partition which abut other materials:
7. Acoustical non-drying, non-hardening, non-skinning, non-staining, gunnable synthetic rubber sealant recommended for sealing interior concealed joints to reduce transmission of airborne sound

B. Joint Seals and Fillers: Provide the following joint seals and fillers:

1. Joint fillers in exterior concrete paving
2. Reticulated filter foam
3. Cellular foam fillers for non-fire-rated interior drywall partitions

1.3 WARRANTIES

A. Provide warranty that the exterior sealant installation will remain weather tight or will not lose adhesion to its sealed surfaces for a period of five (5) years

2. PRODUCTS

2.1 MATERIALS, MISCELLANEOUS

A. Compatibility: Provide sealants, joint fillers and other related materials that are compatible with one another and with joint substrates under conditions of service and application, as demonstrated by sealant manufacturer based on testing and field experience

B. Standard Colors: Provide color of exposed joint sealers as selected by Architect from manufacturer's standard color

C. General: Provide sealant backings of material and type which are non-staining and are compatible with joint substrates, sealants, primers and other joint fillers

3. EXECUTION

3.1 INSTALLATION

A. Surface Cleaning of Joints: Clean out joints immediately before installing joint sealers to comply with recommendations of joint sealer manufacturer

B. Joint Priming: Prime joint substrates where indicated or where recommended by joint sealer manufacturer based on preconstruction joint sealer-substrate tests or prior experience

C. Masking Tape: Use masking tape to prevent contact of sealant with adjoining surfaces

D. Install all materials as recommended by manufacture for application and materials indicated

SECTION 08110 - HOLLOW METAL DOORS AND FRAMES

1. GENERAL

1.1 SUMMARY

A. This section includes performance criteria for work and material for hollow metal doors and frames

1.2 SUBMITTALS

A. Submit shop drawings, samples and product data

1.3 QUALITY ASSURANCE

A. Manufacturer Qualifications: Minimum 5 years' experience in manufacturing similar systems

B. Installer Qualifications: Minimum 2 years' experience installing similar systems and acceptable to the manufacturer

C. Fabrication methods and product quality shall meet the standards set by the Hollow Metal Manufacturers Associations, HMMA, a Division of the National Association of Architectural Manufacturers, NAAMM, as set forth in these specifications

2. PRODUCTS

2.1 HOLLOW METAL DOORS

A. Interior doors shall be made of commercial quality, level cold rolled steel conforming to ASTM A366, or hot rolled, pickled and oiled steel conforming to ASTM A569 and free of scale, pitting or surface defects. Face sheets shall not be less than 18 gauge.

B. Refer to door schedule for types, sizes, and finish of doors to be provided and shall as be constructed in accordance with The Performance test for Steel Doors and Hardware Reinforcing's (ANSI A151.1)

1. The testing specimen shall be a 3'-0" x 7'-0" normal size 1 ¾" door
2. The specimen shall be tested in a accordance with the ANSI A 151.1 procedure for the level A doors (1,000,000 cycles)
3. The specimen shall be tested in accordance with the ANSI A151.1 procedure for twist test which requires maximum pressure of 300lbs

C. Doors shall be designed and constructed per the recommendations NAAMM Standard HMMA 860 and conform to the requirements of SDI-100

2.2 HOLLOW METAL FRAMES

A. Interior Openings: Frames shall be, either commercial grade cold-rolled steel conforming to ASTM A366 or commercial grade hot-rolled and pickled steel conforming to ASTM A569. Metal thickness shall be not less than 16 gauge for frames that receive hollow metal doors.

B. Frames shall be designed and constructed per the recommendations NAAMM Standard HMMA 860 and with the following additional requirements

C. Refer to Door Schedule for types, size, and finish of frame

D. Refer to wall thickness for throat thickness

2.3 FINISHING REQUIREMENTS

A. After fabrication, all tool marks and surface imperfections shall be removed, and exposed faces of all welded joints shall be dressed smooth. Frames shall he treated to insure maximum paint adhesion and shall be coated on all accessible surfaces with a rust inhibitive primer which meets or exceeds ASTM B117 salt spray for 150 hours, and ASTM D1735 water fog test for organic coatings for 200 hours and which is fully cured prior to shipment.

B. All doors and frames to be field painted. Refer to Door Schedule for color.

3. EXECUTION

3.1 INSTALLATION

A. Store and protect material according to the recommendations of NAAMM Standard HMMA 860

B. Prior to installation all frames must be checked and corrected for size, swing, squareness, alignment, twist and plumbness

C. Plaster guards and junction boxes are intended to protect hardware mortises and tapped holes from masonry grout of 4" maximum slump consistency which is hand troweled in place. If a light consistency grout (greater than 5" slump) is to be used, special precautions must be taken in the field by the installation contractor to protect the aforementioned.

D. Any grout or other bonding material shall be cleaned off the frames or doors immediately following installation. Hollow metal surfaces shall be kept free of grout, tar, or other bonding material or sealer.

E. Maintain proper clearances and tolerances as defined by recommendations of NAAMM Standard HMMA 860

F. Exposed field welds shall be ground smooth and touched up with a rust inhibitive primer prior to field painting

SECTION 08125 - ALUMINUM DOORS AND FRAMES

1. GENERAL

1.1 SUMMARY

A. This section contains performance criteria for aluminum doors and frames

1.2 SUBMITTALS

A. Submit shop drawings, samples and product data

1.3 QUALITY ASSURANCE

A. Manufacturer Qualifications: Minimum 5 years' experience in manufacturing similar systems

B. Installer Qualifications: Minimum 2 years' experience installing similar systems and acceptable to the manufacturer

1.4 WARRANTY

A. Submit a written three (3) year manufacturer's warranty executed by the manufacturer agreeing to repair or replace units that fail in materials or workmanship with in the specified warranty period. Failures included but are not limited to:

1. Structural failures including excessive deflection, excessive leakage or air circulation
2. Faulty operation
3. Deterioration of metals, metal finishes and other materials beyond normal weathering

2. PRODUCTS

2.1 MATERIALS

A. Aluminum for framing members and door: Alloy and temper recommended by the manufacturer for strength, corrosion resistance, and application of required finish indicated, complying with the requirements of the standards indicated below:

1. Sheets and Plate: ASTM B209
2. Aluminum Extrusions: ASTM B221
3. Extruded Structural Pipe and Tubes: ASTM B429

2.2 ALUMINUM DOORS

A. Door Frames: Provide tubular and channel frame entrance door frame assemblies, as indicated, with welded or mechanical joints in accordance with manufacturer's standards. Reinforce as necessary to support required loads.

B. Stile and Rail Type Doors: Provide tubular frame members, fabricated with mechanical joints using heavy inserted reinforcing plates and concealed tie rod or j-bolts

1. Door Glazing: Fabricate doors to facilitate replacement of glass or panels, without disassembly of stiles and rails. Provide snap-on extruded aluminum glazing stops, with exterior stops anchored for non-removal.
2. Door Design: Provide 1-3/4 inch thick doors of design indicated. Provide ADA compliant bottom rail.
3. Exterior Doors are to be thermally broken

C. Door Hardware: Refer to "Section 08710 - Door Hardware" and the Hardware Schedule in the contract drawings

D. Exterior Framing System: Provide inside-outside matched resilient flush-glazed storefront framing system with provisions for glass replacement. Shop-fabricate and preassemble frame components where possible.

E. Thermally Broken, Framing Systems

F. Weather-Stripping: For exterior doors and where indicated, EPDM or vinyl blade gasket weather-stripping in bottom door rail, adjustable for contact with threshold

G. At interior doors and other locations without weather-stripping, provide neoprene silencers on stops to prevent metal-to-metal contact

2.3 FABRICATION

A. General: Factory-fabricate assemblies to greatest extent possible, assuring that installed units will be without warp, twist, bow, or other defect in appearance or function

B. Door Frames: Self-mortising, non-handed, and reversible. Throat openings as required. All fasteners concealed except in finish hardware.

C. Windows / Frames: Factory fabricated and complete per manufacturer's standard extrusion details. Coordinate with glass provided as work of another specification section.

D. Reinforcement: Reinforce frames for field-installed exposed hardware items. Provide frames non-handed, Self-Mortising and Reversible, for placement of Hinges and Strike Plates in the field.

E. Thermal-Break Construction: Fabricate exterior door and framing systems with integrally concealed, low conductive thermal barrier, located between exterior materials and exposed interior members to eliminate direct metal-to-metal contact. Use manufacturer's standard construction that has been in use for similar projects for period of not less than 3 years.

2.4 FINISHES

A. Finish all exposed aluminum with manufacturer's standard system in the finishes described in the contract drawing complying with the following performance standards:

1. Interior Pigmented Organic Coating: Baked Enamel compliant with the performance standards set forth in AAMA 2603
2. Exterior High Performance Organic Coating: 50% Kynar 500/Hylar 5000 compliant with the performance standards set forth in AAMA 2604
3. Exterior High Performance Andoic Finish: Class I anodized architectural aluminum compliant with the performance standards set forth in AAMA 611
4. Interior / Light Exterior Anodic Finish: Class II anodized architectural aluminum compliant with the performance standards set forth in AAMA 611

3. EXECUTION

3.1 INSTALLATION

A. Install in accordance with manufacturer's instructions

B. General: Install aluminum frames and accessories to comply with manufacturer's recommendations

C. Comply with detailed installation requirements of final shop drawings

D. Frame Installation:

1. General: Adhere to manufacturer's recommendations
2. Place pre-finished frames after wall finishing is complete, braced securely to achieve plumb, planar installation. Remove braces after anchorages have achieved final set, leaving frames in smooth, undamaged condition.
3. Anchors: Use screws, per manufacturer's standard installation instruction, for secure attachment to wall conditions

3.2 PROTECTION

A. After installation, adequately protect from damage by grinding and polishing machines, plaster, lime, acid, cement or other harmful compounds per the recommendations of the manufacturer

3.3 CLEANING

A. Remove protective materials and clean materials per the manufacturer's recommendations, being careful to use materials which will not damage frame or glazing material

SECTION 08211 - WOOD DOORS

1. GENERAL

1.1 WORK INCLUDED

A. Provide interior flush solid core, exterior flush solid core and stile and rail doors as indicated on the contract drawings and in these specifications

1.2 SUBMITTALS

A. Submit project data for each type of product

B. Submit shop drawings indicating location, size, and elevation of kind of door including construction details location and extent of hardware blocking and cutouts

C. Submit samples of finished wood product

1.3 QUALITY ASSURANCE

A. Wood Flush Doors: Conform to requirements of NWWDA Standard I.S.1-A

B. Stile and Rail Doors: Conform to requirements of NWWDA Standard I.S.6

C. Manufacture: Obtain doors from a single manufacturer

D. Wood products and assemblies must not contain any urea-formaldehyde resins

1.4 DELIVERY STORAGE AND HANDLING

A. Door Protection: Protect Doors during transit, storage and handling to prevent damage, soiling, and deterioration. Comply with requirements of referenced standards and manufacturer's instructions.

B. Doors shall be stored on leveled supports. Protect all door faces.

C. Protect all doors from exposure to light.

D. All doors shall be inspected by contractor for color match, face grade and visual defects prior to installation

1.5 WARRANTY

A. Provide manufacturer's standard warranty which warrants products for a period of two (2) years after substantial completion from any defects

2. PRODUCTS

2.1 DOORS

Premium grade is intended for natural or stain finish, standard or custom grade is intended for opaque (paint) finish]

A. Stile and Rail Doors: Provide [premium grade] [standard grade] stile and rail doors in the style, sizes, and species indicated on the contract drawings conforming to WDMA I.S.6

Use of wood doors on the exterior of a building is not recommended unless the doors are well protected from the weather]

B. Exterior Flush Solid Core Doors: Provide Type I solid wood core door in the style, sizes, and species indicated on the contract drawings conforming to WDMA I.S.1-A

C. Interior Flush Solid Core Doors: Provide Type II solid wood core door in the style, sizes, and species indicated on the contract drawings conforming to WDMA I.S.1-A

D. Fire Doors: Install fire doors in accordance with NFPA 80. Do not paint over labels.

2.2 ACCESSORIES & FABRICATION

A. Door Louvers: Provide louvers with a minimum of 35 percent free air. Mount louvers on doors as indicated in the contract drawings.

B. Preservative Treatment: Treat doors scheduled for restrooms, janitor closets and other possible wet locations including exterior doors with a water-repellent preservative treatments at the manufacturer's plant in accordance with WDMA I.S.4

C. Adhesives and Bonds: In accordance with WDMA I.S.1-A use type I bond for exterior doors and Type II bond for interior doors. Provide a non-staining adhesive on doors with natural finish.

D. Pre-fitting: Provide factory pre-fitted doors for the specified hardware, door frame and door swing indicated. Machine and size doors at the factory by the door manufacturer in accordance with all applicable standards.

3. EXECUTION

3.1 EXAMINATION

A. Examine door frames after installation and doors prior to their hanging

B. Verify that frames comply with indicated requirements for type, size, location, and swing characteristics and have been installed with plumb jambs and level heads

C. Reject doors with defects

D. Do not install doors until unsatisfactory conditions have been corrected

3.2 INSTALLATION

A. Install doors to comply with manufacturer's instructions and of referenced standards and as indicated

B. Install fire-rated doors in corresponding fire rated frames in accordance with requirements of NFPA 80

3.3 ADJUSTING AND PROTECTION

A. Re-hang or replace doors which do not swing to operate freely

B. Refinish or replace doors damaged during installation

C. Protect doors as recommended by door manufacturer to assure that wood doors are without damaged at time of Substantial Completion

SECTION 08311 - ACCESS DOORS AND FRAMES

1. GENERAL

1.1 SUMMARY

A. This Section includes the following:

1. Wall access doors and frames

2. PRODUCTS

2.1 MANUFACTURERS

A. Manufacturers: Subject to compliance with requirements, provide access doors by one of the following:

1. J. L. Industries, Inc.
2. Larsen's Manufacturing Company
3. Nystrom Building Products Co.
4. Architect approved equal

2.2 ACCESS DOORS AND FRAMES

A. Flush Access Doors and Trimless Frames: Fabricated from metallic-coated steel sheet

1. Locations: Gypsum board wall and ceiling surfaces
2. Door: Minimum 0.060 inch thick sheet metal, set flush with surrounding finish surfaces, complying with ASTM A653
3. Frame: Minimum 0.060 inch thick sheet metal with drywall bead
4. Hinges: Spring-loaded concealed pin type
5. Latch: Screwdriver-operated cam latch

B. General: Provide access door assemblies manufactured as integral units ready for installation

3. EXECUTION

3.1 INSTALLATION

A. Comply with manufacturer's written instructions for installing access doors and frames

B. Install access doors with trimless frames flush with adjacent finish surfaces or recessed to receive finish material

SECTION 08411 - ALUMINUM ENTRANCES AND STOREFRONTS

1. GENERAL

1.1 SUMMARY

A. This section includes description of all work associated with the installation of all aluminum storefronts and aluminum doors and frames as shown on the contract drawings and as specified herein.

1.2 SYSTEM PERFORMANCE CRITERIA

A. General: Provide aluminum entrance and storefront assemblies that comply with performance characteristics specified, as demonstrated by testing the manufacturer's corresponding stock assemblies according to test methods indicted.

B. Thermal Movement: Design the aluminum entrance and storefront framing systems to provide for expansion and contraction of the component materials without buckling, failure of joint seals, undue stress on structural elements, damaging loads on fasteners, reduction of performance, stress on glass, or other detrimental effects. Entrance doors shall function normally over the specified temperature range.

C. Temperature change range: Metal surface temperature range of 180 degrees F.

D. Wind loads: Provide aluminum storefront entrance and storefront assemblies capable of withstanding wind pressures of 40psf inward and 40psf outward acting normal to the plane of the wall.

1. Deflection Normal to the Plane of the Wall: Deflection shall not exceed 1/175 of the clear span, when subjected to uniform load deflection test.
2. Deflection Parallel to the Plane of the Wall: Test pressures shall be equal to 1.5 times the wind pressures specified above. Deflection shall not exceed an amount that will reduce glass bite below 75 percent of the design dimension
   a. The clearance between the member and the fixed panel, glass or other fixed members above to less than 1/8 inch
   b. The clearance between the member and an operable door or window shall be at least 1/16 inch.

E. Structural Performance: Conduct tests for structural performance in accordance with ASTM E330. At the conclusion of these tests there shall be no glass breakage or permanent damage to fasteners, anchors, hardware or actuating mechanism. Framing members shall have no permanent deformation in excess of 0.2 percent of their clear span.

F. Air Infiltration: Provide aluminum entrance and storefront framing system with an air infiltration rate of not more than 0.06 cfm per square foot of fixed area (excluding operable door edges) when tested in accordance with ASTM E283 at an inward test pressure differential of 1.57 psf.

G. Water Penetration: Provide framing systems with no uncontrolled water penetration (excluding operable door edges) as defined in the test method when tested in accordance with ASTM E331 at an inward test pressure differential of 6.24 pounds per square foot.

1.3 SUBMITTALS

A. Submit shop drawings that show complete layout, elevations, key plans, dimension, details of typical member, peripheral conditions, anchorage, and complete hardware information.

B. Submit samples for each finish specified.

C. Submit product data for each product used.

1.4 QUALITY ASSURANCE

A. Subcontractor: The storefront subcontractor shall have been regularly engaged in this work for the past 5 years and employ skilled craftsmen for this work completely familiar with the methods and materials specified. He shall be an approved installer of one of the specified manufacturers, whose materials he proposes to furnish.

B. Manufacturer's Qualifications: Provide aluminum entrances and storefront systems produced by a firm experienced in manufacturing systems that are similar to those indicated for this project and that have a record of successful in-service performance.

C. Single Source Responsibility: Obtain aluminum entrance and storefront systems from one source and from a single manufacturer.

D. Design Criteria: The drawings indicate the size, profile and dimensional requirements of aluminum entrance and storefront works required and are based on the specific types and models indicated. Aluminum entrance and storefront by other manufacturers may be considered, provided deviations in dimensions and profiles are minor and do not change the design concept as judged by the Architect. The burden of proof of equality is on the proposer.

1.5 DELIVERY STORAGE AND HANDLING

A. Deliver aluminum entrance and storefront components in the manufacturer's original protective packaging.

B. Store aluminum components in a clean dry location away from uncured masonry or concrete. Cover components with waterproof paper, tarpaulin or polyethylene sheeting in a manner to permit circulation of air.

C. Stack framing components in a manner that will prevent bending and avoid significant or permanent damage.

1.6 WARRANTY

A. Submit a written three (3) year manufacturer's warranty executed by the manufacturer's agreeing to repair or replace units that fail in materials or workmanship with in the specified warranty period. Failures included but are not limited to:

1. Structural failures including excessive deflection, excessive leakage or air circulation
2. Faulty operation
3. Deterioration of metals, metal finishes and other materials beyond normal weathering

2. PRODUCTS

2.1 MANUFACTURERS

A. Aluminum storefronts and aluminum doors and frames to be comprised from compatible components of one of the following manufacturers unless noted otherwise on the contract documents:

1. Kawneer Company, INC
2. EFCO Corporation
3. Tubelite Architectural Systems

2.2 MATERIALS

A. Aluminum for framing members: Alloy and temper recommended by the manufacturer for strength, corrosion resistance, and application of required finish indicated, complying with the requirements of the standards indicated below:

1. Sheets and Plate: ASTM B209
2. Aluminum Extrusions: ASTM B221
3. Extruded Structural Pipe and Tubes: ASTM B429

B. Steel Reinforcement: Comply with ASTM A36 fir structural shapes, plates, and bars, ASTM A611 for cold-rolled sheet and strip; or ASTM A570 for hot-rolled sheet and strip.

C. Fasteners: Provide fasteners of aluminum, nonmagnetic stainless steel, or other materials warranted by the manufacturers to be noncorrosive and compatible with aluminum components, hardware, anchors and other components.

1. Exposed Fasteners: Except where unavoidable for application of hardware, do not use exposed fasteners. For the application of hardware, use fasteners that match the finish of member or hardware being fastened.
   a. Provide Phillips flat-head machine screws for exposed fasteners

D. Concealed Flashing: Use manufacturer's recommended standard corrosion-resistant, non-staining non-bleeding flashing, compatible with adjacent materials

E. Brackets and Reinforcements: Provide manufacturer's recommended standard corrosion-resistant reinforcements that are compatible with adjacent materials. Provide non-staining nonferrous shims for aligning stem components.

F. Concrete and Masonry Inserts: Provide cast iron, malleable iron or hot dip galvanized steel inserts complying with ASTM A123

G. Compression Weather-Stripping: Manufacturer's standard replaceable compressible weather-stripping gaskets of molded neoprene complying with ASTM C2000 or molded PVC complying with ASTM D2287

H. Sliding Weather-Stripping: Manufacturer's standard replaceable weather-stripping of wool, polypropylene or nylon woven pile, with nylon fabric or aluminum strip backing, complying with AAMA 701.2

2.3 STOREFRONT DOORS

A. Entrance Door Frames: Provide tubular and channel frame entrance door frame assemblies, as indicated, with welded or mechanical joints in accordance with manufacturer's standards. Reinforce as necessary to support required loads.

B. Stile and Rail Type Entrance Doors: Provide tubular frame members, fabricated with mechanical joints using heavy inserted reinforcing plates and concealed tie rod or j-bolts

1. Door Glazing: Fabricate doors to facilitate replacement of glass or panels, without disassembly of stiles and rails. Provide snap-on extruded aluminum glazing stops, with exterior stops anchored for non-removal.
2. Door Design: Provide 1-3/4 inch thick doors of design indicated. Provide ADA compliant bottom rail.
3. Exterior Doors are to be thermally broken

C. Door Hardware: Refer to the Hardware Schedule in the contract drawings

D. Storefront Framing System: Provide inside-outside matched resilient flush-glazed storefront framing system with provisions for glass replacement. Shop-fabricate and preassemble frame components where possible.

1. Thermally Broken, Framing Systems

E. Weather-Stripping: For exterior doors and where indicated, EPDM or vinyl blade gasket weather-stripping in bottom door rail, adjustable for contact with threshold

F. At interior doors and other locations without weather-stripping, provide neoprene silencers on stops to prevent metal-to-metal contact

2.4 FABRICATION

A. General: Fabricate aluminum entrance and storefront components to designs, sizes and thicknesses indicated and to comply with indicated standards and manufacturer's specifications. Sizes and profile requirements are indicated on the drawings.

B. Pre-Fabrication: Complete fabrication, assembly, finishing, hardware application and other work to the greatest extent possible before shipment to the project site. Disassemble components only as necessary for shipment and installation.

C. Thermal-Break Construction: Fabricate storefront framing systems with integrally concealed, low conductive thermal barrier, located between exterior materials and exposed interior members to eliminate direct metal-to-metal contact. Use manufacturer's standard construction that has been in use for similar projects for period of not less than 3 years.

D. Welding: Comply with AWS recommendations. Grind exposed welds smooth to remove weld spatter and welding oxides. Restore mechanical finish.

E. Welding behind finished surfaces shall be performed in such a manner as to minimize distortion and discoloration on the finished surface.

F. Dissimilar Metals: Separate dissimilar metals with bituminous paint or a suitable sealant or a non-absorptive plastic or elastomeric tape or a gasket between the surfaces. Do not use coatings containing lead.

G. Fasteners: Conceal fasteners accept as otherwise approved.

2.5 FINISHES

A. Finish all exposed aluminum with manufacturer's standard system in the finishes described in the contract drawing complying with the following performance standards:

1. Interior Pigmented Organic Coating: Baked Enamel compliant with the performance standards set forth in AAMA 2603
2. Exterior High Performance Organic Coating: 50% Kynar 500/Hylar 5000 compliant with the performance standards set forth in AAMA 2604
3. Exterior High Performance Andoic Finish: Class I anodized architectural aluminum compliant with the performance standards set forth in AAMA 611
4. Interior / Light Exterior Anodic Finish: Class II anodized architectural aluminum compliant with the performance standards set forth in AAMA 611

3. EXECUTION

3.1 INSTALLATION

A. Comply with manufacturer's instructions and recommendations

B. Install all elements plumb, straight, square and level and at proper elevation and in alignment with other work. All joints between interior metal and masonry and between interior glass framing and mullion members shall be caulked tightly in order to secure a watertight job. All materials shall be screwed in place using backing, masonry plugs or anchor straps as required. Thresholds are to be set in full bed of sealant.

C. Where moldings are joined, they shall be cut and fitted accurately to result in a tightly closed joint

D. Metal Protection: Where aluminum will contact dissimilar metals, protect against galvanic action by painting contact surfaces with primer or by applying sealant or tape recommended by manufacturer for this purpose. Where aluminum will contact concrete protect against corrosion by painting contact surfaces with bituminous paint.

E. Adjust doors, windows and hardware to function properly and for tight fit

3.2 PROTECTION

A. After erection, adequately protect from damage by grinding and polishing machines, plaster, lime, acid, cement or other harmful compounds per the recommendations of the manufacturer

3.3 CLEANING

A. Remove protective materials and clean materials per the manufacturer's recommendations, being careful to use materials which will not damage frame or glazing material

SECTION 08710 - DOOR HARDWARE

1. GENERAL

1.1 SUMMARY

A. Section Includes:

1. Door Hardware, including electric hardware

1.2 SUBMITTALS

A. Submit a hardware schedule and Organize schedule into "Hardware Sets" with index of doors and headings, indicating complete designations of every item required for each door or opening. Include the following information:

1. Type, style, function, size, quantity and finish of hardware items
2. Use BHMA Finish codes per ANSI A156.18
3. Name, part number and manufacturer of each item
4. Fastenings and other pertinent information
5. Location of hardware set coordinated with floor plans and door schedule
6. Explanation of abbreviations, symbols, and codes contained in schedule
7. Mounting locations for hardware
8. Door and frame sizes, materials and degrees of swing
9. List of manufacturers used and their nearest representative with address and phone number
10. Catalog cuts
11. Manufacturer's technical data and installation instructions for electronic hardware

B. Bid and submit manufacturer's updated/improved item if scheduled item is discontinued

C. Furnish as-built/as-installed schedule with closeout documents, manufacturer's installation, adjustment and maintenance information, and supplier's final inspection report

1.3 QUALITY ASSURANCE:

A. Hardware supplier must be a recognized architectural finish hardware supplier, with warehousing facilities, who has been furnishing hardware in the project's vicinity for a period of not less than 2 years who is or who employs an experienced architectural hardware consultant who is available, at reasonable times during the course of the Work, for consultation about project's hardware requirements to Owner, Architect and Contractor

1. Responsible for detailing, scheduling and ordering of finish hardware

B. Hardware: New, free of defects, blemishes and excessive play. Obtain each kind of hardware (latch and locksets, exit devices, hinges and closers) from one manufacturer.

C. Exit Doors: Operable from inside with single motion without the use of a key or special knowledge or effort

D. Fire-Rated Openings: In compliance with NFPA 80. Provide proper latching hardware, non-flaming door closers and approved-bearing hinges. Furnish openings complete.

E. Pre-Installation Meetings: Prior to start of hardware installation, contractor shall schedule and conduct pre-installation meeting with hardware supplier, lock, exit device, and door closer manufacturers' representative(s), installer and related trades, to coordinate materials and techniques, and sequence complex hardware items and systems installation. Proper and correct installation and adjustment of hardware is to be reviewed, and criteria for punch list review will be established. Convene at least one week prior to commencement of related work.

1.4 SEQUENCING AND COORDINATION:

A. Reinforce walls for wall stops

B. Coordinate finish floor materials and floor-mounted hardware

C. Conduit and raceways as needed for electrical hardware items. Fire/life-safety system interfacing. Point-to-point wiring diagrams plus riser diagrams to related trades.

D. Furnish manufacturer templates to door and frame fabricators

E. Use hardware consultant to check Shop Drawings for doors and entrances to confirm that adequate provisions will be made for proper hardware installation

1.5 WARRANTY:

A. Provide manufacturer's warranty for the following items:

1. Closers; Ten years mechanical, two years electrical
2. Locksets: Two Years
3. Exit Devices: Three years
4. Hinges: Life of Building
5. Other Hardware: Two years

2. PRODUCTS

2.1 MATERIALS

A. Refer to the Hardware Schedule and Door Schedule for the following items:

1. Hardware sets
2. Hardware types
3. Hardware styles and finishes
4. Hardware quantities and locations

3. EXECUTION

3.1 INSTALLATION

A. Ensure that walls and frames are square and plumb before hardware installation

B. Locate hardware per SDI-100 and applicable building, fire, life-safety, accessibility, and security codes

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ARIA GROUP ARCHITECTS, INC.

COOPER'S HAWK WINERY + RESTAURANT

540 NW CHIPMAN
ROAD, LEE'S SUMMIT,
MO 64086

FIELD VERIFICATION

Contractor shall verify all figured dimensions and conditions at the job site and notify Aria Group Architects, Inc. of any dimensional errors, omissions or discrepancies before beginning or fabricating any work. Do not scale these drawings.

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NO.	DATE	REMARKS

REVISIONS

STATE OF MINNESOTA
DANIEL PAUL BERNATEK
48358
A-20180256259
REGISTERED ARCHITECT
8/19/2021
EXP 12/31/2022

Drawing Title

SPECIFICATION SHEET

Job No.	Drawn
204530	Author
Scale	Date
	08/19/2021

Sheet No.

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C. Install hardware per manufacturer's instructions and recommendations. Do not install surface-mounted items until finishes have been completed on substrate. Set units level, plumb and true to line and location. Adjust and reinforce attachment substrate for proper installation and operation.

3.2 ADJUSTING

A. Adjust and check for proper operation and function. Replace units, which cannot be adjusted to operate freely and smoothly.

B. Hardware damaged by improper installation or adjustment methods to be repaired or replaced to Owner's satisfaction at no additional cost to Owner

C. Inspection: Use hardware supplier. Include suppliers with closeout documents.

3.3 PROTECTION/CLEANING

A. Cover installed hardware, protect from paint, cleaning agents, weathering, carts/barrows, etc. Remove covering materials and clean hardware just prior to substantial completion.

B. Clean adjacent wall, frame and door surfaces soiled from installation/reinstallation process

SECTION 08800 - GLASS AND GLAZING

1. GENERAL

1.1 SUMMARY

A. Provide all work associated with the installation of glass and glazing as described in the contract drawings and these specifications

1.2 SUBMITTALS

A. Submit the following product data for each product used

1. Manufacturer's glass data including specifications and installation instructions for each type of glass specified
2. Manufacturer's glazing material data including specifications and installation instructions for each type of glazing material used
3. Submit a certificate from the respective manufacturer attesting the glass and glazing materials furnished for project comply with the project requirements and project conditions
4. Submit samples of each glass material that is used

1.3 QUALITY ASSURANCE

A. Primary float glass shall comply with ASTM C1036

B. All safety glazing shall comply with ASTM C1036; ASTM C1048; ANSI Z97.1 and the Safety Glazing Certification Council (SGCC)

C. Heat strengthened glass shall comply with ASTM C1048

D. Insulated glass shall comply with ASTM E2190 and the Certification of Sealed Insulating Glass Certification Council (IGCC)

E. Laminated Glass shall comply with ASTM E1172

F. Mirrors shall comply with ASTM C1651

1.4 WARRANTY

A. Provide a ten (10) year manufacturer warranty on all materials installed

1. Provide a special Project Warranty on Insulated Glass: Provide written warranty signed by manufacturer of insulating glass agreeing to furnish replacements for those insulated glass that fail due to defects. Defects are defined as failure of hermetic seal of air space beyond that due to glass breakage, as evidenced by intrusion of dirt or moisture, internal condensation or fogging. Additional defects are deterioration of protected internal glass coating, if any, and other visual indications of seal failure or performance.

2. PRODUCTS

2.1 MANUFACTURERS

A. Provide glass and glazing products from one of the following manufacturers:

1. PPG Industries
2. Pilkington North America, Inc.
3. Old Castle Glass
4. Visteon
5. AFG Industries, Inc.
6. Guardian Industries Corp.

2.2 GLASS MATERIALS

A. Clear Float Glass: Type I, Class 1, Quality q3 (glazing select), ¼" thick minimum unless shown otherwise or project conditions require a greater thickness

B. Clear Tempered: Heat treated to 4-5 times annealed strength. Type I, Class 1, Quality q3 (glazing select), ¼" thick minimum unless shown otherwise or project conditions require a greater thickness. Us in locations indicated on the contract drawings and as required by local health life safety codes and regulations require.

C. Clear Insulating Glass Unit, 1" thick, Tempered Glass Unit: Type I, Class 2, Quality q3 (glazing select), 2 panes of ¼" thick minimum unless shown otherwise or project conditions require a greater thickness. Unit is made up of 2 panes of glass separated by a 1/2 inch air space. Use for new exterior windows and storefronts as indicated on the contract drawings. Refer to contract drawings and local health life safety codes and regulations to determine the location of tempered glazing.

1. The following Shading Heat Gain Coefficients (SHGC), U-factors, and Visible Light Transmittance values will be project minimums unless local codes and regulations require more stringent requirements
   a. (SHGC): 0.40
   b. U-Factor: 0.40
   c. Visible Light Transmittance: 70%

D. Clear Laminated Monolithic Two-Ply Laminated Glass, Tempered Glass Unit: Type I, Class 1, Quality q3 (glazing select) glass laminated together with a clear polyvinyl butyral interlayer or alternatives such as resin laminates, conforming to previously stated laminate glass requirements. Refer to contract drawings and local health life safety codes and regulations to determine the location of tempered glazing.

E. Heat Strengthened Glass: Type I, Class 1, Quality q3 (glazing select) ¼" thick minimum unless shown otherwise or project conditions require a greater thickness. (Heat Strengthened Glass does not qualify as safety glazing.)

F. Ceramic-Opacified Spandrel Glass, Tempered Ceramic-Opacified Spandrel Glass: Condition B (spandrel glass, one surface ceramic-coated as specified by the selected manufacture), Type I, Quality q3 (glazing select). Refer to contract drawings and local health life safety codes and regulations to determine the location of tempered glazing.

1. Color: Refer to Contract Drawings

G. Film-Opacified Spandrel Glass, Tempered Ceramic-Opacified Spandrel Glass: Condition C (spandrel glass, one surface coated with film as specified by the selected manufacture), Type I, Quality q3 (glazing select). Refer to contract drawings and local health life safety codes and regulations to determine the location of tempered glazing.

1. Color: Refer to Contract Drawings

H. Frosted Glass, Tempered Frosted Glass: All frosted glass types manufactured by acid etching Type I, Class 1, Quality q3 (glazing select) glass. The thickness of the glass to be ¼" thick minimum unless shown otherwise or project conditions require a greater thickness. Refer to contract drawings and local health life safety codes and regulations to determine the location of tempered glazing.

1. Pattern: Refer to Contract Drawings

2.3 GLAZING MATERIALS

A. General: Provide glazing materials, selected from items below, as recommended by manufacturer's for their intended use and for their compatibility with other glazing materials and others surfaces they will contact. Compatibility with other materials must be verifiable via acceptable 3rd party test results.

B. Silicone Glazing Sealant: Correct type, grade, class, and use silicone sealant as recommended in writing by manufacturers for application indicated and complying with ASTM C920

C. Glazing tapes: Preformed, butyl-based, 100 percent solids elastomeric tape; non-staining and non-migrating in contact with nonporous surfaces; with or without spacer rod as recommended in writing by manufacturers for application indicated; and complying with ASTM C1281 and AAMA 800

D. Expanded Cellular Glazing Tapes: Closed-cell, PVC foam tapes; factory coated with adhesive on both surfaces; as recommended in writing by manufacturers for application indicated and complying with AAMA 800

E. Dense Compression Gaskets: Molded or extruded gaskets of profile and hardness required as recommended in writing by manufacturers for application indicated to maintain watertight seal, made from one of the following:

1. Neoprene complying with ASTM C864
2. EPDM complying with ASTM C864
3. Silicone complying with ASTM C1115
4. Thermoplastic polyolefin rubber complying with ASTM C1115

F. Soft Compression Gaskets: Extruded or molded, closed-cell, integral-skinned gaskets complying with ASTM C509, Type II, black; of profile and hardness required as recommended in writing by manufacturers for application indicated to maintain watertight seal from the following materials

1. Neoprene
2. EPDM
3. Silicone
4. Thermoplastic polyolefin rubber

G. Miscellaneous Glazing Materials: Products of material, size, and shape complying with referenced glazing standard, requirements of manufacturers of glass and other glazing materials involved for glazing application indicated, and with a proven record of compatibility with surfaces contacted in installation

2.4 SPECIALTY PRODUCTS

A. Mirrors: Furnish and install mirrors, 1/4 inch thick, 3.25#/sq. ft., quality float glass silvered, copper sprayed and protected with black mirror backing, grind edges smooth and paint jet black, Globe-Emerada, Pittsburgh, or Falconer

2.5 FABRICATION

A. Fabricate glass and other glazing products in sizes required to glaze openings indicated for Project, with edge and face clearances, edge and surface conditions, and bite complying with recommendations of product manufacturer and referenced glazing publications as required to comply with system performance requirements

3. EXECUTION

3.1 INSTALLATION

A. Comply with combined recommendations of manufacturers of glass, sealants, gaskets, and other glazing materials, except where more stringent requirements are indicated, including those in "GANA Glazing Manual".

B. Protect glass from edge damage during handling and installation

C. Do not exceed edge pressures stipulated by glass manufacturers for installing glass lites

D. Set glass lites in each series with uniform pattern, draw, bow, and similar characteristics

E. Protect glass from contact with contaminating substances resulting from construction operations including weld splatter

F. Remove and replace glass that is broken, chipped, cracked, abraded, or damaged in any way, including natural causes, accidents and vandalism, during construction period

SECTION 09251 - GYPSUM BOARD ASSEMBLIES

1. GENERAL

1.1 SUMMARY

A. Provide gypsum board systems including non-load-bearing light gage metal framing, suspension system for gypsum board systems, joints treatment, acoustical accessories, and general accessories for complete installation

1.2 SUBMITTALS

A. Submit product data for each product used

1.3 QUALITY ASSURANCE

A. Sound Transmission Characteristics: For gypsum board assemblies with STC rating, provide materials and construction identical to those of assemblies whose STC ratings were determined according to ASTM E90 and classified according to ASTM E413 by a qualified independent testing agency

B. Fire Resistance: Provide gypsum board assemblies with fire-resistance rating indicated. Assemblies must be tested for fire resistance according to ASTM E119 by an independent testing and inspecting agency acceptable to authorities having jurisdiction.

1.4 PROJECT CONDITIONS

A. Environmental Conditions, General: Establish and maintain environmental conditions for applying and finishing gypsum board to comply with ASTM C840 requirements or gypsum board manufacturer's recommendations, whichever are more stringent

B. Maintain areas to receive gypsum board at minimum 50 degree F for 48 hours prior to application and continuously after application until drying of joint compound is complete; comply with ASTM C840

2. PRODUCTS

2.1 GYPSUM MATERIALS

A. Gypsum material to be manufactured from one of the following:

1. United States Gypsum Co., USG Corp.
2. Georgia-Pacific Corp.
3. National Gypsum Co.

B. Shall meet the requirements of ASTM C473. Panels shall be of thickness indicated on drawings column A only; shall have tapered edges and shall be of types suitable for conditions of use and as follows:

1. Gypsum Board (GB or GYP): Shall meet the requirements of ASTM C1396
   a. Type X Gypsum Board shall be used in fire rated assemblies
2. Gypsum Backing Board: Shall meet the requirements of ASTM C442
3. Moisture Resistant Gypsum Board (MR): Shall meet the requirements of ASTM C1396 and score a 10 or better in the mold growth test performed per ASTM D3273
4. Cement Backer Board (CB): Aggregated Portland cement board with woven glass fiber mesh facing; complying with ANSI A118.9 and score a 10 or better in the mold growth test performed per ASTM D3273
5. DensShield (DS): Fiberglass-Mat Faced Gypsum Backing Board ASTM C1178
   a. Mold Resistance of 10 per ASTM D3273

C. Gypsum Board Accessories: Comply with ASTM C840

1. Provide protective coated steel corner beads and edge trim; type designed to concealed in finished construction by tape and joint compound
2. Corner Beads: Manufacturer's standard metal beads
3. Edge Trim: "L," "LK" or "LC" casing beads

2.2 FRAMING MATERIALS

A. General: Comply with ASTM C754 for conditions indicated. Provide gages as recommended by manufacturer for spans and loads indicated and as required by applicable codes.

1. Seismic Requirements: Comply with state and local requirements for seismic bracing.

B. Steel Studs and Runners: ASTM C645

C. Firestop Track: As specified by approved fire resistive assembly

D. Hat-Shaped, Rigid Furring Channels: ASTM C645

E. Channels: ASTM C754

F. Grid Suspension System for Ceilings: ASTM C645, direct-hung system composed of main beams and cross-furring members that interlock from one of the following manufacture sytems

1. Armstrong World Industries, Inc.: Drywall Grid Systems.
2. USG Corporation: Drywall Suspension System

G. Hangers: ASTM A641, Class 1 wire, not less than sizes in Table No. 5 of ASTM C754 and as required by applicable codes; hanger rods, flat hangers, and angle-type hangers as required.

3. EXECUTION

3.1 INSTALLATION

A. Metal Framing Erection: Erect metal framing in accordance with ASTM C754 and manufacturer's recommendations

1. Where studs are installed directly against exterior masonry walls or dissimilar metals at exterior walls, install isolation strip between studs and exterior wall

B. Ceiling Framing Installation: Erect in accordance with ASTM C754 and manufacturer's recommendations

1. Isolate suspension systems from building structure where they abut or are penetrated by building structure to prevent transfer of loading imposed by structural movement

C. Gypsum Board Installation: Install in accordance with ASTM C840 and manufacturer's recommendations

D. Finishing: Comply with Gypsum Association (GA) "Levels of Gypsum Board Finish"

1. GA Level 4, three coat finishing and sanding is required for surfaces indicated to be painted. Provide flush, smooth joints and surfaces ready for applied paint finishes.

SECTION 09300 - TILE

1. GENERAL

1.1 WORK INCLUDED

A. Provide tile installations with accessories, as required for complete installation

1. Tile work includes various types of stone, quarry, and ceramic floor and wall tile

1.2 SUBMITTALS

A. Submit samples and product data for each product

1.3 WARRANTY

A. Provide manufacturer's standard warranty for each product specified

2. PRODUCTS

2.1 MATERIALS

A. Tile: Comply with ANSI A137.1 Specifications for Ceramic Tile for types of grades of tiles. Furnish tile complying with Standard Grade requirements unless otherwise indicated.

1. Acceptable Manufacturers: Refer to Finish Legend located on the drawings
2. Color, Style and Pattern: As indicated on Finish Legend and conforming to Architect approved samples
3. Floor Tile: Provide non-slip units with minimum wet and dry value of 0.60 coefficient of friction when tested in accordance with ASTM C1028. Contractor shall notify Architect if any floor material listed in the Finish Legend does not comply with this standard.
4. Base and Trim: Provide matching trim pieces, coordinated with sizes and coursing of adjoining flat tile as directed by Architect; types as indicated, as selected by Architect where not indicated

B. Latex Portland Cement Mortar-Thin Set: (All areas except quarry tile). Thinset bond coat, consisting of latex-cementitious mortar conforming to ANSI A118.4 to be compatible with liquid applied waterproofing.

C. Water Cleanable, Chemical Resistant, Tile-Setting Epoxy Adhesive: (At all quarry tile and if noted in the Finish Legend) conform to ANSI A118.3 to be compatible with liquid applied waterproofing

1. Color: Match specified epoxy grout color

D. Latex - Portland Cement Grout (At Latex-Thin Set): ANSI A118.7 latex-cementitious type, uniform in color, resistant to shrinkage

1. Color: See Finish Legend

E. Chemical Resistant 100% Solids, Nonsagging Epoxy Grout system (at epoxy adhesive and if noted on the Finish Legend): Conform to ANSI A118.3

F. Concrete Slab-On-Grade Sealer: Creteseal (800-278-4273)/CS2000 curing, hardener, sealer

G. Applied Waterproofing: Refer to "Section 07141 - Waterproofing"

2.2 MIXING

A. Mix and proportion cementitious materials for site-made leveling coats, setting beds and grout as recommended by the TCNA Handbook for Ceramic Tile Installation most current edition

B. Mix and proportion pre-mixed setting beds and grout materials in accordance with manufacturer's recommendations

3. EXECUTION

3.1 PREPARATION

A. Prior to installing tile, ensure surfaces are level

1. Substrate Tolerances: maximum surface variation of 1/8" in 10'-0" and 1/16" in 1'-0" from the required plane

B. Ensure surfaces are clean and well cured

C. Do not commence work until surface conditions are within tolerances required for proper installation; apply latex leveling material where necessary to meet required tolerances

D. Slab-on-Grade Sealer: Apply curing, hardener, sealer in accordance with manufacturer recommendations and application instructions to prevent damage to epoxy set floors from water intrusion from beneath slab

E. Cementitious Backer Units: Install units in accordance with ANSI A108.11, manufacturer's recommendations, and as required to provide fire ratings indicated on drawings

3.2 INSTALLATION

A. Install tile in accordance with referenced ANSI Standards and TCNA recommendations for type of substrate and indicated setting method

1. Latex-Cement Thin Set Floors over Concrete: TCNA F113
2. Epoxy Thin Set Floors over Concrete: TCNA F131, with epoxy grout
3. Latex-Cement Thins Set Wall Tile over Cementitious Backer Units: TCNA W244
4. Exterior Thin Set Tile over EIFS: TCNA W202, with highly modified latex-cement mortar

B. Place tile in accordance with patterns indicated on Drawings or as directed by Architect; carefully plan tile layouts, ensure pattern is uninterrupted from one surface to the next and through doorways

C. Apply latex thin set to back of tile where necessary to ensure 100% bond between bond coat and substrate; replace tiles which break due to voids between tile and substrate

D. Neatly cut tile around fixtures and drains; accurately form corners, base, intersections and returns

E. Locate expansion joints, control joints, contraction joints, and isolation joints where indicated; where not indicated, provide as recommended by TCNA Handbook and as approved by Architect

F. Ensure tile joints are uniform in width, subject to normal variance in tolerance allowed in tile size; ensure joints are watertight, without voids, cracks, excess mortar or grout

G. Sound tile after setting, remove and replace hollow sounding units

H. Allow tile to set for a minimum 48 hours prior to grouting

I. Grout tile to comply with recommendations of TCNA and as specified. (Trowel grout FLUSH to quarry tile in Food Prep. Areas).

J. Leave completed installation free of broken, damaged and faulty tile

K. Back-butter 100% all tiles at exterior and all interior large format tiles. Use non-sag mortars for all large format tiles.

3.3 CLEANING AND SEALING

A. Clean tile surfaces free of foreign matter upon completion of grouting

B. Seal and grout surfaces where recommended by manufacturer for materials and applications involved. Comply with manufacturer's recommendations.

C. Install grout sealer at all tile

SECTION 09511 - ACOUSTICAL PANEL CEILINGS

1. GENERAL

1.1 SUBMITTALS

A. This section includes performance criteria for all work associated with suspended vinyl-face gypsum (VGT) ceiling systems and suspended acoustical ceiling tile (ACT) systems

1.2 SUBMITTALS

A. Submit product data for each product used

1.3 QUALITY ASSURANCE

A. Surface-burning characteristics of acoustical panels comply with ASTM E1264 for Class A materials as determined by testing identical products per ASTM E84

B. Products are identified with appropriate markings of applicable testing and inspecting agency

C. Back of house ceiling systems must be acceptable to USDA for food processing areas

1.4 QUALITY ASSURANCE

A. Products: Subject to compliance with requirements, provide one of the products indicated for each designation in the Finish Legend

B. Metal Suspension System: Manufacturer's standard direct-hung suspension system complying with applicable ASTM C635 requirements and with requirements indicated in the Finish Schedule

C. Surface-burning characteristics of acoustical panels comply with ASTM E84 for Class A materials

D. Finishes and Colors for Metal Suspension System, General: Comply with NAAMM's "Metal Finishes Manual for Architectural and Metal Products" for recommendations for applying and designating finishes. Provide manufacturer's standard factory-applied finish for type of system indicated.

1.5 WARRANTY

A. Submit standard manufacturer's written warranty

2. PRODUCTS

2.1 MATERIALS

A. Provide ACT ceiling system as indicated in the Finish Legend and as described in the contract drawings

B. Provide VGT ceiling system as indicated in the Finish Legend and as described in the contract drawings. System must be acceptable to USDA for food processing areas.

C. Suspension System Attachment Devices: Fabricated from corrosion-resistant materials and sized for five times design load indicated in ASTM C635, Table 1, Direct Hung, unless otherwise indicated

D. Metal suspension system: In colors and materials as described on the contract drawings. In areas that require VGT ceilings suspension systems must meet USDA requirements for food processing areas.

E. Cast-in-Place and Post-installed Anchors in Concrete: Cast-in-place, or post-installed expansion or chemical anchors with holes or loops for attaching hangers of type indicated and with capability to sustain, without failure, a load equal to five times that imposed by ceiling construction, as determined by testing per ASTM E488, conducted by a qualified testing and inspecting agency.

F. Post-installed Powder-Actuated Fasteners in Concrete: Fastener system of type suitable for application indicated, fabricated from corrosion-resistant materials, with clips or other accessory devices for attaching hangers of type indicated, and with capability to sustain, without failure, a load equal to 10 times that imposed by ceiling construction, as determined by testing per ASTM E1190, conducted by a qualified testing and inspecting agency

G. Wire Hangers, Braces, and Ties: Zinc-coated, carbon-steel wire complying with ASTM A641/A641M, Class 1 zinc coating, soft temper. Size wire diameter so its stress, at three times hanger design load, (ASTM C635, Table 1, Direct Hung) will be less than yield stress of wire, but provide not less than 0.106-inch diameter wire.

H. Sheet-Metal Edge Moldings and Trim: Type and profile indicated or, if not indicated, manufacturer's standard moldings for edges and penetrations that fit acoustical panel edge details and suspension systems indicated; formed from sheet metal of same material and finish as that used for exposed flanges of suspension system runners

3. EXECUTION

3.1 INSTALLATION

A. General: Install acoustical panel ceilings to comply with publications referenced below per manufacturer's written instructions and CISCA's "Ceiling Systems Handbook"

1. Standard practice for installation of metal Suspension Systems for acoustical tile and lay-in panels. Comply with ASTM C635 & ASTM C636
2. Standard for Ceiling Suspension Systems Requiring Seismic Restraint: Comply with ASTM E580
3. CISCA's Recommendations for Acoustical Ceilings: Comply with CISCA's "Recommendations for Direct-Hung Acoustical Tile and Lay-in Panel Ceilings-Seismic Zones 0-2
4. CISCA's Guidelines for Systems Requiring Seismic Restraint: Comply with CISCA's "Guidelines for Seismic Restraint of Direct-Hung Suspended Ceiling Assemblies-Seismic Zones 3 & 4
5. Install ceiling suspension system to resist seismic loads as required by State and local codes, including extra hanger wires and compression supports for ceilings and light fixtures.

B. Secure ceiling hangers from suspension system members to building's structural members. Install hangers plumb and free from contact with other objects within ceiling plenum. Connect hangers directly either to structures or to inserts, eye screws, or other devices that are secure; that are appropriate for substrate; and that will not deteriorate or otherwise fail due to age, corrosion, or elevated temperatures.

1. Do not support ceilings directly from permanent metal forms, or floor or roof deck. Do not attach hangers to steel deck tabs.
2. Space hangers not more than 48 inches O.C. along each member supported directly from hangers, unless otherwise indicated; and provide hangers not more than 8 inches from ends of each member.

C. Install edge moldings and trim of type indicated at perimeter of acoustical ceiling area and where necessary to conceal edges of acoustical panels.

D. Install suspension system runners so they are square and securely interlocked with one another. Remove and replace dented, bent, or kinked members.

E. Install acoustical panels with undamaged edges and fitted accurately into suspension system runners and edge moldings. Scribe and cut panels at borders and penetrations to provide a neat, precise fit.

SECTION 09680 - CARPET

1. GENERAL

1.1 SUMMARY

A. The work consists of all labor, material, and equipment necessary and required to complete all carpet and padding as shown on the drawings and specified herein.

1.2 SUBMITTALS

A. Submit the following product data

1. Adhesives
2. Protection
3. Installation
4. Carpet
5. Padding
6. Manufacturer's Qualifications
7. Installer's Qualifications

B. Submit the following samples for each product

1. Carpet: 12 inches by 12 inches.
2. Padding: 12 inches by 12 inches
3. Edge Stripping: 12 inches long

C. Submit manufacturer's written maintenance instructions

1.3 QUALITY ASSURANCE

A. Manufacturer's qualifications: Documented five (5) years' experience as a manufacturer and a member in good standing with the Carpet and Rug Institute (CRI)

B. Installer's qualification: Documented five (5) years' experience as installer of at least 10 projects of similar size and complexity to this project. Installer must be approved by carpet manufacturer.

C. Source quality control: Prior to carpet being shipped to project, ensure that manufacturer has tested all carpet and provided written certification that all carpet construction meets or exceeds each minimum requirement of the project specifications

1.4 ENVIRONMENTAL REQUIREMENTS

A. All carpet installed in the building interior shall meet the testing and product requirements of the Carpet and Rug Institute's Green Label Plus Program

B. Use carpet adhesives that comply with the following limits for VOC content per (SCAQMD) rule 1168 when calculated according to 40 CFR 59, Subpart D (EPA method 24) or ASTM D3960

1. VOC: Limit of 50 g/L

1.5 WARRANTIES

A. Submit the following standard manufacturer's written warranties

1. Ten (10) year warranty
2. Two (2) year material and workmanship warranty
3. Ten (10) year tuft bind and delamination warranty

2. PRODUCTS

2.1 MATERIALS

A. Manufacturers: Refer to "Finish Legend" located in the drawings for acceptable manufacturers. No Substitutions.

B. Carpet Materials:

1. Size: Refer to Finish Legend
2. Flammability test requirements: Finish Legend
3. Colors and patterns: Refer to Finish Legend
4. Static Control: Maximum 3.5 KV, with Permanent Conductive Fiber
5. All carpet installed shall have a TARR rating of greater than equal to 3.5 for extra heavy/severe traffic.
6. Dye Lots: Yarns of each designated color for each area shall be from a single dye lot
7. All carpet shall be soil/stain resistant
8. Carpet shall have permanent anti-microbial protection guaranteed effective for life of carpet
9. Colors and patterns: Refer to Finish Legend
10. Reinforcement: Fiberglass reinforced
11. Backing Thickness: 0.090

C. Adhesives: Waterproof type recommended and approved by respective carpet manufacturer for use with their materials under site installation conditions

3. EXECUTION

3.1 PREPARATION

A. Verify that all areas scheduled for carpeting turned over to carpet installer are dry, broom-cleaned and free of grease, oil, paint or other foreign surfaces

B. Testing of the concrete slab for moisture and alkalinity to be done in advance of the installation. The Carpet and adhesive manufacturer are to be consulted for specific values that are acceptable for installation. At a minimum, a PH range of 7-9 and a moisture emission rate of 3lb/1000 sf shall be deemed acceptable unless more stringent requirements are required by the carpet and adhesive manufacturer.

C. Ensure that subfloor is smooth, clean and free of all foreign materials before starting installation

D. Repair any floor defects and irregularities prior to installation

E. Installation of materials constitutes Contractor's acceptance of previous construction items to the requirements of the carpet and adhesive manufacturers. Installation also constitutes the Contractor's assumption of responsibility for all unacceptable finished work caused by previous conditions.

3.2 INSTALLATION

A. Install all products in accord with manufacturer's current printed instructions and in accordance with CRI 104-Standard for installation of Commercial Carpet, the most stringent requirements shall govern

B. Lay carpet in manner that:

1. Will produce a minimum number of seams
2. Seams that are not obvious in the finished work
3. Installation is free of visual imperfections, adhesives, seam cement smears and other foreign matter

C. Upon completion of carpet work, restrict all traffic in finished areas to normal foot traffic for a minimum of 2 days

D. Unsatisfactory work: Work installed not in accordance with manufacturer's instructions, or in a manner unacceptable to Architect, will be deemed unsatisfactory and may result in Architect requiring removal and relaying at Contractor's expense

3.3 PROTECTION

A. Place protection continuously with all seams lapped a minimum of 6 inches and taped. Maintain in good condition until project acceptance by Owner, or as otherwise directed. Vacuum clean all carpet prior to placing protection.

3.4 PROJECT CLEAN-UP

A. Upon completion of work, thoroughly inspect entire installation. Remove all defective work and replace with perfect materials.

B. Cut off and trim all loose threads. Remove all visible adhesives, seam cement and scraps. Clean all carpet with an upright beater, bar-type vacuum cleaner.

C. Remove all rubbish, debris, containers and all excess materials not selected by Owner for retention and legally dispose of

D. Repair all damage resulting from carpet work. Clean, repair or replace all damage as directed.

E. Leave premises in clean, acceptable condition

SECTION 09651 - RESILIENT FLOOR TILE

1. GENERAL

1.1 SUMMARY

A. This section contains performance criteria for the vinyl composition tile (VCT) and accessories

1.2 QUALITY ASSURANCE

A. Provide flooring accessories, leveling and patching compounds, and adhesives that are all compatible with each other and the vinyl composition tile (VCT) provided

1.3 SUBMITTALS

A. Submit product data, samples and maintenance data for each product

1.4 EXTRA MATERIALS

A. Furnish extra materials described below that match products installed and that are packaged with protective covering for storage and identified with labels describing contents

B. Floor Tile: Furnish 1 box for every 50 boxes of each type, color, and pattern of floor tile installed

C. Resilient Wall Base: Furnish 10 linear feet for every 500 linear feet of each type, color, and pattern of wall base installed

2. PRODUCTS

2.1 VINYL COMPOSITE TILE (VCT)

A. Vinyl-composition tile (VCT) Standard: ASTM F1066

1. Refer to finish schedule in Finish Legend for manufacturer, type, color, pattern, and size of each type of tile to be provided

B. Manufacturing Classification: Class-2 (through-pattern tile)

C. Thickness: 0.125 inch

D. Fire Test Response Characteristics:

E. Critical Radiant Flux Classification: Class I, not less than 0.45 W/sq. cm per ASTM E648

2.2 RESILIENT WALL BASE

A. Wall Base: Provide thermoplastic rubber (TPR) wall base meeting performance criteria of ASTM F1861

1. Refer to finish schedule in Finish Legend for manufacturer, type, color, pattern, and size of each type of tile to be provided

B. Unless otherwise noted provide the following styles in the areas described

C. Cove Wall Base- For tile area

D. Butt -To-Wall: For carpeted areas

E. Flexibility: Meet ASTM F137 requirements

F. Staining: Wall base to contain no ingredient that will cause staining of finished surfaces adjacent to wall based per ASTM F1861

G. Resistance to Light: Meet ASTM F1515 requirements

H. Resistance to Chemicals: Meet ASTM F925 requirements

2.3 TRANSITION AND REDUCING STRIPS

A. Description: Cap for cove carpet, carpet edge for glue down applications, nosing for carpets, nosing for resilient floor covering, reducer strip for resilient floor covering, joiner for tile and carpet(s) required for each application

1. Refer to finishes schedule in Finish Legend for size material, and color for each product provided

2.4 ADHESIVES AND LEVELING COMPOUNDS

A. Adhesives: Water resistance type recommended by manufacturer that is compatible with substrate and resilient products. All adhesives used must meet SCAQMD Rule 1168 requirements for low VOC adhesives.

B. Leveling Compounds: Manufacturer recommended Latex-modified, Portland cement based or blended hydraulic cement based formulation that is compatible with all other products used

3. EXECUTION

3.1 INSTALLATION

A. Examine substrates with installer present, for compliance with requirements for installation tolerances, moisture content, and other conditions affecting performance

B. Prepare substrates according to manufacturer's written recommendations to ensure adhesion of resilient products

C. Lay out tiles as they are shown on the Floor Finish Plan

D. On irregular substrates, fill voids with manufacturer's recommended adhesive filler material

E. Transition and reducer strips: Butt to adjacent materials and tightly adhere to substrates throughout length of each piece. Install reducer strips at edges of floor covering that would otherwise be exposed.

F. Perform the following operations immediately after completing resilient product installation

G. Remove adhesive and other blemishes from exposed surface

H. Sweep and vacuum surfaces thoroughly

I. Damp-mop surfaces to remove marks and soil. Do not wash surfaces until after time period recommended by manufacturer.

J. Use protection methods recommended in writing by the manufacturer for the remainder of the construction period

SECTION 09671 - RESINOUS FLOORING

1. GENERAL

1.1 SUMMARY

A. Provide all labor, materials and equipment associated with the installation of Resinous Flooring System as described in the contract drawings and these specifications

1.2 SYSTEM DESCRIPTION

A. The work shall consist of preparation of the substrate, the furnishing and application of a trowel applied cementitious urethane based seamless flooring system with a urethane topcoat

B. The system shall have the color and texture as specified by the Owner with a nominal thickness of 1/4 inch. It shall be applied to the prepared area(s) as defined in the plans strictly in accordance with the Manufacturer's recommendations.

C. Cove base (if required) to be applied where noted on plans and per manufacturer's standard details unless otherwise noted

1.3 SUBMITTALS

A. Submit product data, samples and maintenance data for each product

1.4 QUALITY ASSURANCE

A. The Manufacturer shall have a minimum of 5 years' experience in the production, sales, and technical support of cementitious urethane and related materials

B. The Applicator shall have been approved by the flooring system manufacturer in all phases of surface preparation and application of the product specified

C. System shall be in compliance with requirements of United States Department of Agriculture (USDA), Food, Drug Administration (FDA), and local Health Department

1.5 WARRANTY

A. Submit standard manufacturer's written warranty

2. PRODUCTS

2.1 RESINOUS FLOOR SYSTEM

A. Refer to Finish Legend on the contract drawings for manufacturer, type, color, pattern, and thickness of each product to be provided

2.2 PHYSICAL REQUIREMENTS

A. Compressive Strength: 7,300 psi, per ASTM C579

B. Tensile Strength: 800 psi, per ASTM C307

C. Impact Resistance: No visible damage or deterioration at a min. of 160in-lb, per ASTM D2794

D. Flexural Strength: 1,800 psi, per ASTM C580

E. Water Absorption: less than 0.1%, per ASTM C413

F. Abrasion Resistance: 0.07g lost after 1,000 cycles from a CS-17 wheel, per ASTM D4060

G. Adhesion: 100% concrete failure at 400 psi, per ASTM D4541

H. Coefficient of Friction: 0.7

I. VOC Content: 0 g/l

J. Resistance to Elevated Temperatures: No Flow of Softening, per MIL-D-3134

K. Chemical Resistance: At a minimum, no effect when exposed to the following regents for 7 days when tested per ASTM D413

1. Acetic Acid: 5% Solution
2. Ammonium Hydroxide: 10% Solution
3. Citric Acid: 5% Solution
4. Urea: 6.6% Solution
5. Tri Sodium Phosphate: 5% Solution
6. Coffee

3. EXECUTION

3.1 PROJECT CONDITIONS

A. Site Requirements: Application may proceed while air, material and substrate temperatures are within the acceptable values as defined by the manufacturer's written recommendations

B. Conditions of new concrete to be coated with cementitious urethane material

1. Concrete shall be moisture cured for a minimum of 7 days and have fully cured for 14 days in accordance with ACI-308 prior to the application of the coating system pending moisture tests. Outside of these parameters, manufacturer shall be consulted.
2. Concrete shall have a flat rubbed finish, float or light steel trowel finish (a hard steel trowel finish is neither necessary nor desirable)
3. Sealers and curing agents should not to be used
4. Concrete surfaces on grade shall have been constructed with a vapor barrier to protect against the effects of vapor transmission and possible delamination of the system

3.2 INSPECTION

A. Examine substrates, areas, and conditions for compliance with manufacturer's written instructions and requirements to ensure that the conditions and substrates are satisfactory for flooring installation

3.3 INSTALLATION

A. Install resinous floor per the written instructions and recommendations of the manufacturer for the specific floor system and conditions indicated

3.4 CLEANING AND PROTECTION

A. Cure flooring material in compliance with manufacturer's directions, taking care to prevent their contamination during stages of application and prior to completion of the curing process

B. Remove masking. Perform detail cleaning at floor termination, to leave cleanable surface for subsequent work of other sections

SECTION 09720 - WALLCOVERINGS

1. GENERAL

1.1 SUMMARY

A. Provide all labor, materials and equipment associated with the installation of Wall Covering Systems as described in the contract drawings and these specifications

1.2 SUBMITTALS

A. Submit the product data for each product including the following:

1. Manufacturer's Qualifications
2. Installer's Qualifications

B. Submit the samples for each product

C. Submit manufacturer's written maintenance instructions

1.3 QUALITY ASSURANCE

A. Manufacturer's qualifications: Documented five (5) years' experience as a manufacturer of commercial wall coverings similar to those specified

B. Installer's qualification: Documented five (5) years' experience as installer of at least 10 projects of similar size and complexity to this project. Installer must be approved by wall covering manufacturer.

1.4 ENVIRONMENTAL REQUIREMENTS

A. All wall covering systems to be comprised of products that are GREENGUARD certified for low emissions

1.5 WARRANTY

A. Submit the manufacturer's standard written warranty

2. PRODUCTS

2.1 MATERIALS

A. Manufacturers: Refer to Finish Legend located on the contract drawings for acceptable manufacturers. No Substitutions.

B. Wall Covering Material Properties

1. Color & Style: Refer to Finish Legend located on the contract documents
2. Compliance: Fed. Spec. CCC-W-408D, Type II
3. Fabric Type: Refer to Finish Legend located on the contract documents
4. Finished Total Weight: 20oz/per linear yard or greater

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FIELD VERIFICATION
Contractor shall verify all figured dimensions and conditions at the job site and notify Aria Group Architects, Inc. of any dimensional errors, omissions or discrepancies before beginning or fabricating any work. Do not scale these drawings.

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NO.	DATE	REMARKS

REVISIONS

STATE OF MISSOURI
DANIEL PAUL BERNATSKE
NUMBER A-2010026259
ARCHITECT
8/19/21
EXP 12/31/22

Drawing Title
SPECIFICATION SHEET

Job No. 204530
Drawn Author
Scale
Date 08/19/2021

Sheet No.
G1.6

5. Surface Burning Characteristics: Refer to Finish Legend for required class of materials

6. Corner Burn Test, NFPA 286: Pass

C. Provide low VOC adhesive recommended by the wallcovering manufacturer for intended application as indicated on the contract drawings

3. EXECUTION

3.1 INSPECTION

A. The Contractor shall inspect all surfaces and structures to receive materials under this section and verify that conditions are acceptable by the wallcovering manufacturer for installation of the wallcovering products. Commencement of application shall indicate acceptance of substrates.

3.2 INSTALLATION

A. Wall covering shall be applied in strict accordance with manufacturer's printed instructions, one copy of which shall be at job-site for inspection at all times

B. If pattern is not random, examine for repeat in design. Install each roll in sequence as cut from roll. However, patterns, should be lined up, matched or reversed for best results. If necessary, trim salvage deep enough to ensure color uniformity.

C. Always bring material around outside corners. If inside corners are straight and true, material may be brought around the corner, being sure to force it into the corner to avoid spanning.

D. Remove excess adhesive along finished seam immediately after each wall covering strip is applied and air pockets and wrinkles are removed. Adjacent surfaces of walls, ceilings, etc., showing evidence of adhesive residue shall be cleaned to Architect's satisfaction.

SECTION 09775 - FIBER REINFORCED PLASTIC (FRP) WALL PANELS

1. GENERAL

1.1 SECTION INCLUDES

A. Furnish all labor, materials, services, equipment, and appliances required for fiberglass reinforced plastic wall paneling (FRP) work indicated on drawings and specified herein

B. Work includes, but is not limited to, the following:

1. Fiberglass reinforced plastic wall paneling (FRP)
2. Adhesives
3. Vinyl moldings

1.2 SUBMITTALS

A. Submit samples and product data for each product

2. PRODUCTS

2.1 MANUFACTURERS

A. Refer to Finish Legend

2.2 MATERIALS

A. Fiberglass reinforced plastic (FRP) 0.09" thickness, and weighing 0.7 pounds per square foot

B. Material must have USDA - Meat Inspection Division approval

C. Refer to Finish Legend in drawing set for finish and color

D. Class A if noted on drawings

2.3 ACCESSORIES

A. Adhesive:

1. C-551 Marlite FRP adhesive, or equal

B. Vinyl Moldings: Apply moldings to all joints, corners (inside and out), and top and bottom of panels. Set moldings in sealant.

3. EXECUTION

3.1 EXAMINATION

A. Examine areas and conditions under which work of this Section will be installed. Correct conditions detrimental to timely and proper completion of the Work. Do not proceed until unsatisfactory conditions are corrected.

3.2 INSTALLATION

A. Install all FRP, adhesives, and moldings in accordance with manufacturer's recommendation. Gypsum drywall surface to which paneling is to be applied shall be smooth; clean, dry, and free from defects which might lead to distortion of FRP work. Do not install with exposed fasteners.

B. Securely install the selected products, setting panels straight, plumb, level, and true to lines and profiles shown on the Drawings

C. Attach to walls and ceilings with adhesive in accordance with recommendations of the panel manufacturer

D. Finish butt joints, wall juncture, wall/ceiling, and wall/curb joints with the specified sealant, tooling to a smooth finish. Provide moldings at joints and corners.

E. Promptly upon completion of this portion of the Work, clean all surfaces. Use method and materials recommended by the panel manufacturer.

SECTION 09900 - PAINTING

1. GENERAL

1.1 SUMMARY

A. Surface preparation and priming in addition to shop-priming and surface treatment specified under other Sections

B. Painting and finishing of exposed interior items and surfaces

C. Painting and finishing of exposed exterior items and surfaces

1.2 SUBMITTALS

A. Submit product data and samples for each product

1.3 QUALITY ASSURANCE

A. Single-Source Responsibility: Provide primers and undercoat paint produced by the same manufacturer as the finish coats

1.4 ENVIRONMENTAL REQUIREMENTS

A. For interior applications use paints and coating that comply with the following limits for VOC content when calculated according to 40 CFR 59, Subpart D (EPA method 24) or ASTM D 3960 for the following standards:

1. Green Seal Standard GS-11, Paints, 1 st Edition, May 20, 1993
   a. Flat Paints and Coatings: VOC content not more than 50 g/L
   b. Non-Flat Paints and Coatings: VOC content not more than 150 g/L
2. Green Seal Standard GS-03, Anti-Corrosive Paints, 2 nd Edition, January 7, 1997
   a. Anti-Corrosive Coatings: VOC content not more than 250g/L
3. SCAQMD Rule 1113, Architectural Coatings, rules in effect January 1, 2004
   a. Varnishes and Sanding Sealers: VOC content not more than 350g/L
   b. Stains: VOC content not more than 250g/L
4. Aromatic Compounds: Paints and coatings shall not contain more than 1.0 percent by weight total aromatic compounds (hydrocarbon compounds containing one or more benzene rings)

2. PRODUCTS

2.1 MANUFACTURER

A. Refer to Finish Legend located on the contract drawings for acceptable manufacturers

1. No Substitutions

2.2 MATERIALS

A. Material Compatibility: Provide block fillers, primers, finish coat materials, and related materials that are compatible with one another and the substrates indicated under conditions of service and application, as demonstrated by the manufacturer based on testing and field experience

B. Provide colors and finishes as indicated on contract drawings. Colors must be pure, non-fading, applicable types to suit substrates and service indicated.

3. EXECUTION

3.1 EXAMINATION

A. Examine substrates, areas, and conditions, with the Applicator present, under which painting will be performed for compliance with paint application requirements

B. Do not begin to apply paint until satisfactory conditions have been corrected and surfaces receiving paint are thoroughly dry

C. Start of painting will be construed as the Applicator's acceptance of surfaces and conditions within a particular area

3.2 PREPARATION

A. General: Remove hardware and hardware accessories, plates, machined surfaces, lighting fixtures, and similar items already installed that are not to be painted. If removal is impractical or impossible because of the size or weight of the item, provide surface-applied protection before surface preparation and painting.

1. After completing painting operations in each space or area, reinstall items removed using workers skilled in the trades involved

B. Surface Preparation: Clean and prepare surfaces to be painted according to manufacturer's written instructions for each particular substrate condition and as specified

1. Schedule cleaning and painting so dust and other contaminants from the cleaning process will not fall on wet, newly painted surfaces

2. Ferrous metals: Touch up bare areas and shop applied prime coats that have been damaged prior to painting

C. Materials Preparation: Mix and prepare paint materials according to manufacturer's written instructions

D. Tinting: Tint each undercoat a lighter shade to simplify identification of each coat when multiple coats of the same material are applied. Tint undercoats to match the color of the finish coat, but provide sufficient differences in shade of undercoat to distinguish each separate coat.

3.3 APPLICATION

A. General: Apply paint according to manufacturer's written instructions. Use applicators and techniques best suited for substrate and type of material being applied.

1. Paint colors, surface treatments, and finishes are indicated in the schedules

2. Apply additional coats if undercoats, stains, or other conditions show through final coat of paint until paint film is of uniform finish, color, and appearance. Give special attention to ensure that surfaces, including edges, corners, crevices, welds, and exposed fasteners, receive a dry film thickness equivalent to that of flat surfaces.

3. Apply materials uniformly, showing no runs, sags, "crawls", "holidays", or other defects

4. The term "exposed surfaces" includes areas visible when permanent or built-in fixtures, convector covers, covers for finned-tube radiation, grilles, and similar components are in place. Extend coatings in these areas, as required, to maintain the system integrity and provide desired protection.

5. Finish exterior doors on tops, bottoms, and side edges the same as exterior faces as indicated on contract drawings

B. Scheduling Painting: Apply first coat to surfaces that have been cleaned, pretreated, or otherwise prepared for painting as soon as practicable after preparation and before subsequent surface deterioration

1. Do not apply succeeding coats until the previous coat has cured as recommended by the manufacturer

2. Omit primer on metal surfaces that have been shop primed and touchup painted

3. If undercoats, stains, or other conditions show through final coat of paint, apply additional coats until paint film is of uniform finish, color, and appearance. Give special attention to ensure edges, corners, crevices, welds, and exposed fasteners receive a dry film thickness equivalent to that of flat surfaces.

4. Heated Items: Pipes containing heat shall not be painted until system is cold and remains cold until after final coat has dried

C. Application Procedures: Apply paints and coatings by brush, roller, spray, or other applicators according to manufacturer's written instructions

1. Spray Equipment: If spray application is to be used, use airless spray equipment with orifice size as recommended by the manufacturer for the material and texture required

D. Recoat primed and sealed surfaces where there is evidence of suction spots or unsealed areas in first coat, to assure a finish coat with no burn-through (paint holidays) or other defects due to insufficient sealing

E. Block Fillers: Apply block fillers to concentrate masonry block at a rate to ensure complete coverage with pores filled

F. Prime Coats: Before applying finish coats, apply a prime coat of material, as recommended by the manufacturer, to material that is required to be painted or finished and that has not been prime coated by others. Recoat primed and sealed surfaces where evidence of suction spots or unsealed areas in first coat appears, to ensure a finish coat with no burn-through or other defects due to insufficient sealing.

G. Pigmented (Opaque) Finishes: Completely cover surfaces as necessary to provide a smooth, opaque surface of uniform finish, color, appearance, and coverage. Cloudiness, spotting, holidays, laps, brush marks, runs, sags, ropiness, or other surface imperfections will not be acceptable.

H. Stipple Enamel Finish: Roll and redistribute paint to an even and fine texture. Leave no evidence of rolling, such as laps, irregularity in texture, skid marks, or other surface imperfections.

I. Completed Work: Match accepted samples of color, texture, and coverage. Remove, refinish, or repaint work not complying with requirements.

3.4 CLEANING

A. Cleanup: At the end of each workday, remove empty cans, rags, rubbish, and other discarded paint materials from the site

B. After completing painting, clean glass and paint-spattered surfaces. Remove spattered paint by washing and scraping. Be careful not to scratch or damage adjacent finished surfaces.

3.5 PROTECTION

A. Protect work of other trades, whether being painted or not, against damage by painting. Correct damage by cleaning, repairing or replacing, and repainting.

B. Provide "Wet Paint" signs to protect newly painted finished. Remove temporary protective wrappings provided by others to protect their work after completing painting operations.

C. At completion of construction activities of other trades, touch up and restore damaged or defaced painted surfaces

3.6 PAINT SCHEDULE

A. Exterior Work: Provide the following painting systems in the colors and sheens as indicated on the contract drawings

1. Concrete, Stucco, and Masonry:
   a. Flat or Low-Luster Acrylic: Two coats over primer
   b. Semi-gloss or Full-Gloss Acrylic Enamel: Two coats over primer
2. Concrete Masonry Units:
   a. Flat or Low-Luster Acrylic: Two coats over block filler and primer
   b. Semi-gloss or Full-Gloss Acrylic Enamel: Two coats over block filler and primer
3. Mineral-Fiber-Reinforced Cement Panels:
   a. Flat Acrylic: Two coats over primer
4. Exterior Gypsum Soffit Board:
   a. Flat or Low-Luster Acrylic: Two coats over primer
   b. Semi-gloss or Full-Gloss Acrylic Enamel: Two coats over primer
5. Smooth Wood:
   a. Flat or Low-Luster Acrylic: Two coats over primer
   b. Semi-gloss or Full-Gloss Acrylic Enamel: Two coats over primer
   c. Full-Gloss Alkyd Enamel: Two coats over primer
6. Wood Trim:
   a. Medium-Shade, Semi-gloss, or Full-Gloss Acrylic Enamel: Two coats over primer
   b. Medium-Shade or Full-Gloss Alkyd Enamel: Two coats over primer
   c. Deep-Color, Full-Gloss, Acrylic Enamel: Two coats over primer
   d. Deep-Color, Full-Gloss, Alkyd Enamel: Two coats over primer
7. Wood Shakes and Rough Siding:
   a. Flat Acrylic Enamel: Two coats over primer
   b. Flat Alkyd Enamel. Two coats over primer
8. Plywood:
   a. Flat or Low Luster Acrylic Enamel: Two coats over primer
9. Stained Wood:
   a. Flat Acrylic: One coat semitransparent, waterborne, penetrating wood stain
   b. Flat Alkyd: One coat semitransparent, alkyd, penetrating wood stain
10. Ferrous Metal:
   a. Flat, Semi-gloss or Full-Gloss Acrylic Enamel: Two coats over rust-inhibiting primer
   b. Low Luster Acrylic: Two coats over rust-inhibiting primer
   c. Full-Gloss or Deep-Color Full-Gloss Alkyd Enamel: Two coats over rust-inhibiting primer
11. Zinc-Coated Metal:
   a. Low Luster: Two coats over galvanized metal primer
   b. Semi-gloss or Full-Gloss Acrylic Enamel: Two coats over galvanized metal primer
   c. Full-Gloss Alkyd Enamel: Two coats over galvanized metal primer
12. Aluminum:
   a. Semi-gloss or Full-Gloss Acrylic Enamel: Two coats over primer
   b. Full-Gloss Alkyd Enamel: Two coats over prime

B. Interior Work: Provide the following painting systems in the colors and sheens as indicated on the contract drawings

1. Concrete and Masonry:
   a. Flat Acrylic: Two coats over primer
   b. Flat Alkyd: Two coats over primer
   c. Semi-gloss Alkyd Enamel: Two coats over primer
2. Concrete Masonry Units:
   a. Flat Acrylic: Two coats over block filler and primer
   b. Low-Luster or Semi-gloss, Acrylic Enamel: Two coats over block filler and primer
   c. Semi-gloss Alkyd Enamel: Two coats over block filler and primer
3. Mineral-Fiber-Reinforced Cement Panels:
   a. Flat Acrylic: Two coats over primer
4. Gypsum Board:
   a. Flat Acrylic: Two coats over primer
   b. Low-Luster, Semi-gloss, or Full-Gloss Acrylic Enamel: Two coats over primer
   c. Semi-gloss or Full-Gloss Alkyd Enamel: Two coats over primer
5. Plaster:
   a. Flat Acrylic: Two coats over primer
   b. Flat Alkyd: Two coats over primer
   c. Low-Luster or Full-Gloss Acrylic Enamel: Two coats over primer
   d. Semi-gloss Acrylic Enamel: One coat over undercoat and primer
   e. Semi-gloss Alkyd Enamel: One coat over undercoat and primer
   f. Full-Gloss Alkyd Enamel: Two coats over primer
6. Acoustical Plaster:
   a. Flat Acrylic Latex: Two coats
7. Woodwork and Hardboard:
   a. Low Luster or Semi-gloss Acrylic Enamel: Two coats over primer
   b. Semi-gloss or Full-Gloss Acrylic Enamel: Two coats over wood undercoat
   c. Semi-gloss Alkyd Enamel: Two coats over primer
   d. Full-Gloss Alkyd Enamel: Two coats over wood undercoat
8. Stained Woodwork:
   a. Alkyd- Base, Satin Varnish: Two coats clear-satin varnish over sealer and wood stain
   b. Waterborne, Satin Varnish: Two coats clear-satin varnish over sealer and wood stain
   c. Water-Based Stain, Full Gloss, Varnish: Two coats full-gloss varnish over sealer and wood stain
   d. Alkyd-Based Stain, Wax Polished Finish: Three coats paste wax over sealer and wood stain
9. Natural-Finish Woodwork:
   a. Alkyd-Based, Satin Varnish: Two coats clear-satin varnish over sealer
   b. Waterborne, Satin Varnish: Two coats clear-satin varnish over sealer
   c. Water-Based, Full-Gloss, Varnish: Two coats full-gloss varnish over sealer
   d. Wax-Polished Finish: Three coats paste wax over sealer
10. Ferrous Metal:
   a. Flat Acrylic: Two coats over primer
   b. Low-Luster or Full-Gloss Acrylic Enamel: Two coats over primer
   c. Semi-gloss Acrylic Enamel: One coat over undercoat and primer
   d. Semi-gloss Alkyd enamel: One coat over undercoat and primer
   e. Full-Gloss, Alkyd Enamel: Two coats over primer
11. Zinc-Coated Metal:
   a. Flat Acrylic: Two coats over primer
   b. Low-Luster, Semi-gloss, or Full Gloss Acrylic Enamel: Two coats over primer
   c. Semi-gloss, or Full-Gloss Alkyd Enamel: One cost over undercoat and primer

SECTION 10520 - FIRE EXTINGUISHERS AND ACCESSORIES

1. GENERAL

1.1 SUMMARY

A. Section includes performance criteria for fire extinguishers, fire extinguisher cabinets, and fire extinguisher mounting brackets

1.2 SUBMITTALS

A. Submit product data for each product

1.3 QUALITY ASSURANCE

A. NFPA Compliance: Fire extinguishers shall comply with NFPA-10

B. UL-Listed Products: Fire extinguishers shall be UL listed with UL Listing Mark for type, rating, and classification of extinguisher

C. FM-Listed Products: Fire extinguishers approved by Factory Mutual Research Corporation for type, rating, and classification of extinguisher

2. PRODUCTS

2.1 MATERIALS

A. Fire Extinguishers: Provide fire extinguishers for locations as indicated on the drawing set and as maybe additionally required by authorities having jurisdiction. Types as described below:

1. Multi-purpose Dry Chemical: Type 2-A, UL-299, Rated for Class-A fires
2. Dry Chemical: Type -K, UL-299, Rated for Class-B fires involving combustible cooking media.
3. Carbon Dioxide: Type-C, UL-154, Rated for Class-C fires, fire extinguish shall contain agents that are nonconductive to electricity
4. Fire Extinguisher Cabinets: Size suitable for housing fire extinguishers to ensure fit and function of types and capacities indicated

B. Construction: Enameled steel box, trim, frame door, and hardware to suit cabinet type, trim style and door style as indicated. Weld joints and grind smooth. Miter and weld perimeter door frames.

1. Fire-Rated Cabinets: UL listed with UL Listing Mark with rating of wall where it is installed
2. Cabinet Mounting: Fully recessed in walls of sufficient depth to suit trim style
3. Trim Style: Trim-less with hidden flange of same metal and finish as box that overlaps surrounding wall finish and is concealed from view by overlapping door
4. Door Material and Construction: Manufacturer's standard enameled steel
5. Door Hardware: Provide door-operating hardware of proper type for cabinet type. Provide friction latch. Provide concealed hinge permitting door to open 180 degrees.
6. Steel Cabinet Finishes: Baked enamel finish selected by architect from manufacturer's standard colors
7. Identification: Complying with authorities having jurisdiction, identify the bracket mount fire extinguisher with the words "FIRE EXTINGUISHER" using letter decals applied to the door

C. Mounting Brackets: Manufacturer's standard galvanized steel, designed to secure fire extinguisher to wall or structure

1. Identification: Complying with authorities having jurisdiction, identify the bracket mount fire extinguisher with the words "FIRE EXTINGUISHER" using letter decals applied to mounting surface

3. EXECUTION

3.1 INSTALLATION

A. Install per manufacturer's written instructions

B. Install at heights indicated, or if not indicated at heights to comply with applicable regulations of governing authorities

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NO.	DATE	REMARKS

REVISIONS

STATE OF MISSOURI
DANIEL PAUL BERNATEK
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