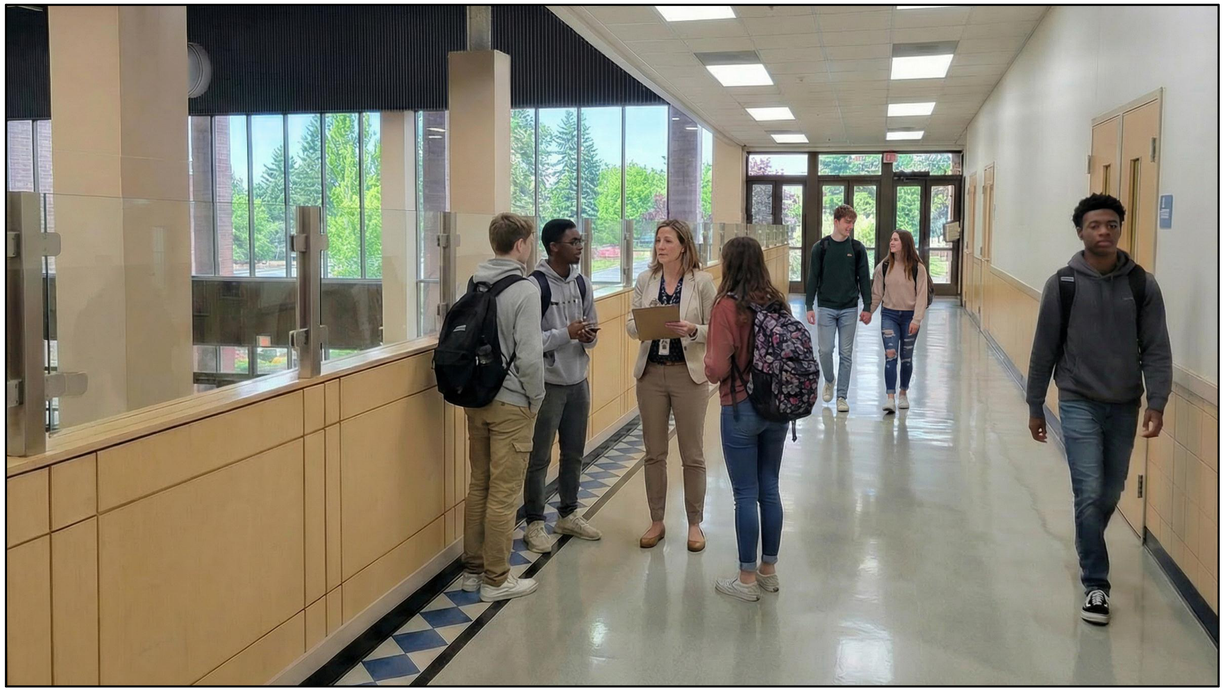
ABERDEEN HIGH SCHOOL RENOVATION

ABERDEEN SCHOOL DISTRICT

ABERDEEN, WASHINGTON

BID SET



This image is provided for REFERENCE ONLY and is not a part of contract documents.

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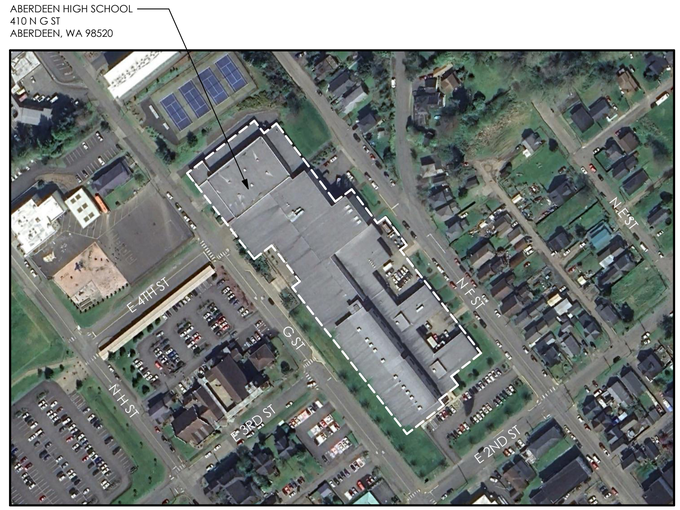
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SITE VICINITY MAP

NTS

SHEET INDEX

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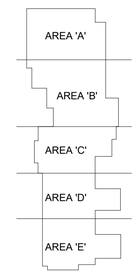
Client
ABERDEEN SCHOOL DISTRICT 5

Project
ABERDEEN SCHOOL DISTRICT 5

2025 - 007
ABERDEEN HIGH SCHOOL
410 N G St., Aberdeen, WA 98520

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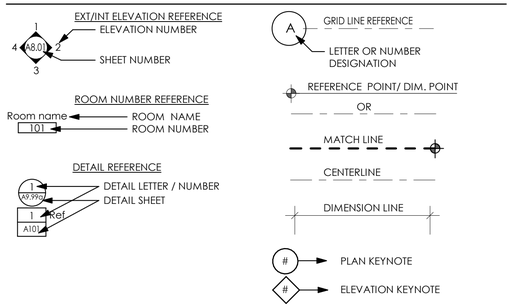
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GENERAL ABBREVIATIONS

NOTE: ALSO SEE GENERAL NOTES AND SCHEDULES FOR ADDITIONAL SPECIFIC ABBREVIATIONS NOT LISTED HERE, SPECIFIC ABBREVIATIONS IN THE SCHEDULES AND GENERAL NOTES SHALL SUPERCEDE THE DEFINITION OF ABBREVIATIONS GIVEN IN THE GENERAL ABBREVIATIONS

@	At
&	And
A/C	Air Conditioning
A/V	Audio/Video
AB	Anchor Bolt
ACP	Acoustical Ceiling Panels
ACT	Acoustical Ceiling Tile
ADA	American with Disabilities Act
ADD	Additive
ADD'L	Additional
ADJ	Adjustable
ADM	Addendum
ADMIN	Administration or Administrative
AFF	Above Finish Floor
AL	Aluminum
ALT	Alternate
ALUM	Aluminum
ANOD	Anodized
AP	Access Panel
APRX	Approximate
ARCH	Architect (ural)
ASPH	Asphalt
ASST	Assistant
ASSY	Assembly
AUTO	Automatic
AWP	Acoustical Wall Panel
B	Bottom
BD	Board
BEL	Below
BLDG	Building
BLK	Block
BLKG	Blocking
BM	Beam
B.O.	Bottom Of
STRUCT	Bottom Of Structure
BOT	Bottom
BPL	Base Plate
BRG	Bearing
BRK	Brick
BS	Back Splash
BTWN	Between
BV	Brick Veneer
CABT	Cabinet
CB	Coved Base
CC	Clear Coating
CFMF	Cold-Formed Metal Framing
CH	Coat Hook
CIP	Cast-In-Place
CIPC	Cast-in-Place Concrete
CJ	Control Joint
C/L	Centerline
CLG	Ceiling
CLR	Clear
CLT	Cross-Laminated Timber
CMU	Concrete Masonry Unit
CO	Cleanout
COJ	Construction Joint
COL	Column
COMP	Composition or Composite
CONC	Concrete
COND	Condition
CONF	Conference
CONST	Construction
CONT	Continuous
CONTR	Contract(or)
COORD	Coordinate
CORR	Corridor
CPT	Carpet
CT	Ceramic Tile
CTR	Center or Counter
CW	Curtain Wall
CTW	Ceramic Tile Wainscot
DBL	Double
DEG	Degree
DEMO	Demolition
DF	Drinking Fountain
DIAG	Diagonal
DIA	Diameter
DIM	Dimension
DISP	Dispenser
DMPR	Damproofing
DMT	Demountable
DN	Down
DR	Door
DS	Downspout
DW	Dishwasher
DWG	Drawing
DWR	Drawer
(E)	Existing
E	East
EA	Each
EB	Expansion Bolt
EFC	Epoxy Floor Coating
EJ	Expansion Joint
EL	Elevation
ELEC	Electrical
ELEV	Elevation or Elevator
EMER	Emergency
ENCL	Enclosure
EP	Electrical Panel or Epoxy Paint
EPS	Expanded Polystyrene
EQ	Equal
EQP	Equipment
ES	Each Side
EW	Each Way
EXEC	Executive
EXH	Exhaust
EXP	Exposed
EXPN	Expansion
EXT	Exterior
EXTN	Extinguisher
F	Float
FA	Fire Alarm
FAWP	Fluid-Applied Waterproofing
FAWRB	Fluid-Applied Weather Resistant Barrier
FAP	Fire Alarm Panel
FC	Furring Channel
FCP	Fiber Cement Panel
FCL	Fiber Cement Lap Siding
FCV	Fiber Cement V-Groove Siding
FCS	Fiber Cement Shiplap Siding
FD	Floor Drain
FE	Fire Extinguisher
FEB	Fire Extinguisher Bracket
FEC	Fire Extinguisher Cabinet
FF	Factory Finish
FFSAM	Foil Faced Self Adhered Membrane
FH	Fire Hydrant
FIN	Finish
FIX	Fixture
FLEX	Flexible
FLR	Floor
FLSH	Flash or Flashing
FND	Feminine Napkin Dispenser
F.O.	Face of
FOB	Face of Brick
FOC	Face of Concrete
FOCL	Face of Column
FOM	Face of Masonry
FOS	Face of Stud
FRL	Fiber Reinforced Laminate
FRP	Fiberglass Reinforced Panels
FRT	Fire Retardant Treated
FS	Foreshortened
FSS	Folding Shower Seat
FT	Feet or Foot
FTP	Fire Tape / Mud
FTG	Footing
GA	Gauge
GB	Gypsum Board
GBR	Grab Bar
GALV	Galvanized
GEJ	Gutter Expansion Joint
GFRC	Glass-Fiber-Reinforced Concrete
GL	Glass
H	Height
HBD	Hardboard
HDO	High Density Overlay
HDR	Header
HDW	Hardware
HGT	Height
HM	Hollow Metal
HMP	Horizontal Metal Panel
HORZ	Horizontal
HR	Hour
HSD	Hand Sanitizer Dispensor
HSS	Hollow Structural Section
HT	Height
HTSAM	High Temperature Self Adhered Membrane
HVAC	Heating/Ventilating/Air Conditioning
HWH	Hot Water Heater
ID	Inside Diameter
IF	Insulated Float
IGU	Insulated Glass Unit
IFRM	Intumescent Fire-Resistive Material
INCL	Including
INSUL	Insulation
INT	Interior
INV	Invert
ISO	Isometric
IT	Insulated Tempered
JAN	Janitor
JT	Joint
KIT	Kitchen
KO	Knockout
KS	Knee Space
LAB	Laboratory
LAV	Lavatory
LB	Pound or Lag Bolt
LBL	Label
LBS	Pounds
LF	Linear Foot
LH	Left Hand
LIN	Linoleum
LINS	Linoleum Sheet
LINT	Linoleum Tile
LOC	Location
LP	Light Pole
LT	Light
LTWT	Light Weight
LVR	Louver
LWIC	Lightweight Insulating Concrete
MACH	Machine
MAN	Manual
MAT	Material
MAX	Maximum
MB	Machine Bolt or Marker Board
MBR	Member
MDF	Medium Density Fiberboard
MDFS	Medium Density Fiberboard Stripping
MDFW	Medium Density Fiberboard Wainscot
MDO	Medium Density Overlay
M/E	Mechanical/ Electrical
MEAS	Measure
MECH	Mechanical
MED	Medium
MEMB	Membrane
M/E/P	Mechanical/Electrical/Plumbing
MFR	Manufacturer
MHO	Magnetic Hold Open
MIN	Minimum
MISC	Miscellaneous
MO	Masonry Opening
MOD	Modular
MTD	Mounted
MTG	Mounting
MTL	Metal
MULL	Mullion
MW	Microwave Oven
N	North
N/A	Not Applicable
NIC	Not In Contract
NO	Number
NOM	Nominal
NTS	Not to Scale
O/	Over
O/R	Oven/Range
OA	Overall
OC	On Center
OD	Outside Diameter
OFF	Office
OH	Overhead
OPG	Opening
OPH	Opposite Hand
OPP	Opposite
OFCI	Owner Furnished, Contractor Installed
OFOI	Owner Furnished, Owner Installed
OSB	Oriented Strand Board
PAV	Paving
PART	Partition or Partial
PC	Polished Concrete
PCC	Precast Concrete
PEMB	Pre-Engineered Metal Building
PERF	Perforated
PERIM	Perimeter
PJ	Panel Joint
PKG	Parking
PL	Plate
PLAM	Plastic Laminate
PR	Pair
PREC	Precast
PREFIN	Pre-finished
PROJ	Project
PS	Purse Shelf
PSF	Pounds/Square Foot
PSI	Pounds/Square Inch
PT	Paint(ed) or Point
PTD	Paper Towel Dispenser
PTRT	Pressure Treated
PW	Plywood
QT	Quarry Tile
QTY	Quantity
R	Radius
RAF	Rubber Athletic Flooring
RB	Rubber Base
RC	Resilient Channel
RCP	Reflected Ceiling Plan
RD	Roof Drain
REF	Refrigerator
REINF	Reinforcing
REL	Relocate
REQ'D	Required
REQ'S	Requirements
RESIL	Resilient
RETG	Retaining
RFG	Roofing
RH	Right Hand or Robe Hook
RECEPT	Reception
RECPT	Receptacle
RECT	Rectangular
REF	Reference
REFL	Reflected
REFR	Refrigerator
RFAM	Reinforced Fluid Applied Membrane
RL	Rain Leader
RM	Room
RO	Rough Opening
ROW	Right-of-Way
RT	Rubber Tile
S	South
SAM	Self Adheared Water Resistant Membrane
SAU	Self-Adheared Underlayment
SB	Splash Block
SC	Solid Core
SCH	Schedule
SCHED	Schedule
SD	Soap Dispenser or Storm Drain
SF	Storefront
SFRM	Sprayed Fire-Resistive Material
SECT	Section
SHT	Sheet
SHTHG	Sheathing
SIM	Similar
SL	Sealed
SM	Sheet Metal
SND	Sanitary Napkin Disposal
SNV	Sanitary Napkin Vendor
SOG	Slab on Grade
SPEC'D	Specified
SPECS	Specifications
SQ	Square
SS	Stainless Steel
SSM	Solid Surface Material
SS TWF	Stainless Steel Through-Wall Flashing
SSW	Stainless Steel Wainscot
SSD	See Structural Drawings
SSL	Stain and Seal
ST	Stain
STG	Storage
STL	Steel
STRUCT	Structural
SU	Synthetic Underlayment
SUSP	Suspended
SV	Sheet Vinyl
SW	Shear Wall
SYM	Symmetrical/Symmetry
T	Tempered
TB	Tackboard
TC	Top of Curb
TCS	Tackable Cork Surface
TEL	Telephone
TG	Translucent Glass
T&G	Tongue and Groove
THK	Thick
T.O.	Top of
TPD	Toilet Paper Dispenser
TSCD	Toilet Seat Cover Dispenser
TWF	Through-Wall Flashing
TYP	Typical
UNF	Unfinished
UNO	Unless Noted Otherwise
UR	Urinal
VB	Vapor Barrier
VCT	Vinyl Composition Tile
VERT	Vertical
VEST	Vestibule
VIF	Verify in Field
VOL	Volume
VRB	Vented Rubber Base
VWC	Vinyl Wall Covering
WAF	Wood Athletic Flooring
W	West
WWF	Welded Wire Fabric
W	Width
W/	With
W/D	Washer/Dryer
WB	Wood Base
WC	Water Closet
WD	Wood
WDW	Window
WF	Wide Flange
WGT	Weight
W/O	Without
WOM	Walk-Off Mat
WP	Waterproof
WR	Weather Resistant or Waste Receptacle
WRB	Weather Resistant Barrier
WRBPS	Weather Resistant Barrier Pre-Strip
WS	Wood Stripping
W	Wainscot or Wood Struds
WT	Weight
WWF	Welded Wire Fabric
XPS	Extruded Polystyrene Board Insulation

SYMBOLS



GENERAL NOTES

A. GENERAL REQUIREMENTS: IT SHALL BE THE SPECIFIC DUTY AND RESPONSIBILITY OF EACH TRADE AND SUPPLIER TO EXAMINE ALL DRAWINGS, DETAILS AND SPECIFICATIONS, AND TO PROVIDE AND FURNISH PROPER EQUIPMENT, HARDWARE, FIXTURES, MATERIALS, LABOR, ETC., PERTAINING TO THEIR PART OF THE WORK SHOWN OR LISTED IN ANY PART OF THE CONTRACT DOCUMENTS. SCHEDULES ARE FOR THE CONVENIENCE OF THE CONTRACTOR TO ASSIST THEM IN UNDERSTANDING AND CONSTRUCTING THE PROJECT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THAT ALL ITEMS IN THE SCHEDULES REFLECT THE PLANS AND DETAILS. ANY OMISSIONS OR CONTRADICTIONS IN THESE DOCUMENTS SHALL BE CALLED TO THE ATTENTION OF THE ARCHITECT PRIOR TO THE CONTRACTOR'S FINAL BID. THE CONTRACTOR'S FINAL BID SHALL BE CONSIDERED TO INCLUDE ALL ITEMS SHOWN AND/OR SPECIFIED OR SCHEDULED FOR A COMPLETE PROJECT.

B. CONFLICTING INFORMATION: IN THE EVENT OF CONFLICTING INFORMATION WITHIN THE DOCUMENTS, IMMEDIATELY CONTACT THE ARCHITECT FOR CLARIFICATION. PROCEEDING WITHOUT SUCH CLARIFICATION IS AT THE CONTRACTORS RISK AND COST.

C. SCALING DRAWINGS: DO NOT SCALE DRAWINGS; CONTACT ARCHITECT FOR ANY MISSING OR INACCURATE DIMENSIONS PRIOR TO PROCEEDING WITH THE WORK.

D. HAZARDOUS MATERIALS:
1. ALL PRODUCTS AND MATERIALS USED IN THIS PROJECT MUST BE CERTIFIED AS BEING "ASBESTOS FREE," NO EXCEPTIONS.
2. NO PRODUCTS CONTAINING PCB OR OTHER HAZARDOUS MATERIALS SHALL BE USED ON THIS PROJECT, NO EXCEPTIONS.
3. NO PRODUCTS CONTAINING LEAD SHALL BE USED ON THIS PROJECT WITHOUT PRIOR WRITTEN APPROVAL FROM THE ARCHITECT AND OWNER.

E. DOWNSPOUTS: THE GENERAL CONTRACTOR SHALL COORDINATE ALL DOWNSPOUT LOCATIONS AND CONNECTIONS TO TIGHTLINES AND STORM DRAINAGE SYSTEM(S) (ALSO SEE NOTE ABOVE). THE ARCHITECTURAL PLANS, ELEVATIONS AND DETAILS ILLUSTRATE AND DIMENSION DOWNSPOUT LOCATIONS AND SHALL TAKE PRECEDENCE.

F. FINISH LUMBER SIZES: THE LUMBER SIZES SHOWN FOR WOOD BLOCKING, BACKING, ETC., WILL NOT BE ACTUAL SIZES BUT NOMINAL SIZES. FINISHED TRIM CALLOUTS WILL BE A "NET" DRESSED SIZE, TYP. UNLESS NOTES OTHERWISE.

G. FIRE SPRINKLER SYSTEM: SPRINKLER PIPES, DRAIN VALVES AND OTHER COMPONENTS OF THE SYSTEM (EXCEPT HEAD) SHALL NOT BE EXPOSED TO VIEW EXCEPT AT CANOPIES, ROOMS WITH EXPOSED STRUCTURE AND ATTICS, UNLESS NOTED OTHERWISE. PROVIDE ACCESS PANELS/DOORS FOR FIRE SPRINKLER SYSTEM ACCESS WHERE SPRINKLER HEADS, DRAIN VALVES, INSPECTORS, TESTS, ETC. ARE INACCESSIBLE WITHOUT DEMOLITION OF BUILDING ELEMENTS. PANELS SHALL BE OF A FUNCTIONAL SIZE FOR APPLICATION, MEET ALL CODE REQUIREMENTS AND GENERAL CONTRACTOR SHALL COORDINATE WITH THE FIRE SPRINKLER SYSTEM DESIGNER (BIDDER / DESIGN) TO ASSURE ALL SUCH PANELS AND INSTALLATION COSTS ARE INCLUDED IN THE BID. ALL PANELS EXPOSED TO VIEW FROM OCCUPIED SPACES SHALL BE OF A FLUSH DESIGN, PAINTED TO MATCH ADJACENT SURFACES AND FIRE RATED WHERE REQUIRED BY CODE. FIRE SPRINKLER SUB-CONTRACTOR SHALL PROVIDE DRAWINGS CLEARLY INDICATING PROPOSED LOCATIONS OF EXPOSED PIPES, SPRINKLER HEADS AND ACCESS PANELS FOR THE ARCHITECT'S REVIEW AND APPROVAL. SHOULD THE ARCHITECT NOT APPROVE OF PROPOSED LOCATIONS, CONTRACTOR AND SPRINKLER SYSTEM DESIGNER SHALL ENDEAVOR TO WORK WITH THE ARCHITECT TO FIND ACCEPTABLE LOCATIONS. SUCH CHANGES SHALL BE INCLUDED IN THE BID COSTS.

H. DEVICE COORDINATION: ARCHITECTURAL DRAWINGS DO NOT ILLUSTRATE ALL MECHANICAL AND ELECTRICAL ITEMS AND DEVICES. ITEMS AND DEVICES WHICH ARE SHOWN ARE FOR COORDINATION AND LOCATING PURPOSES. SEE MECHANICAL AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS. LACK OF ILLUSTRATION OF DEVICES AND/OR BUILDING ELEMENTS ON ARCHITECTURAL DRAWINGS DOES NOT EXCLUDE SUCH WORK FROM BID. NOTIFY ARCHITECT IMMEDIATELY OF ANY CONFLICTS FOR CLARIFICATION. DO NOT PROCEED WITH WORK WITHOUT CLARIFICATION.

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11526 REGISTERED ARCHITECT
STEPHEN WACHTLER
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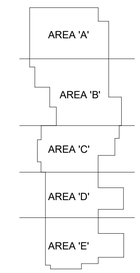
Client
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Project
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2025 - 007
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410 N G St., Aberdeen, WA 98520

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Sheet Title
ABBREVIATIONS, SYMBOLS, GENERAL NOTES & MATERIALS LEGEND

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CODE OVERVIEW

PROJECT: ABERDEEN HIGH SCHOOL RENOVATION

JURISDICTION:
CITY OF ABERDEEN https://www.aberdeenwa.gov/

SITE ADDRESS: 410 N G ST., ABERDEEN, WA

PARCEL NUMBER: 011200700000

ZONING: ABERDEEN MI MAJOR INSTITUTIONAL

EXISTING SCHOOL, CONSTRUCTED 2006 CLASSIFIED AS IBC TYPE II-B, 3 STORIES

SCOPE OF THIS PROJECT:

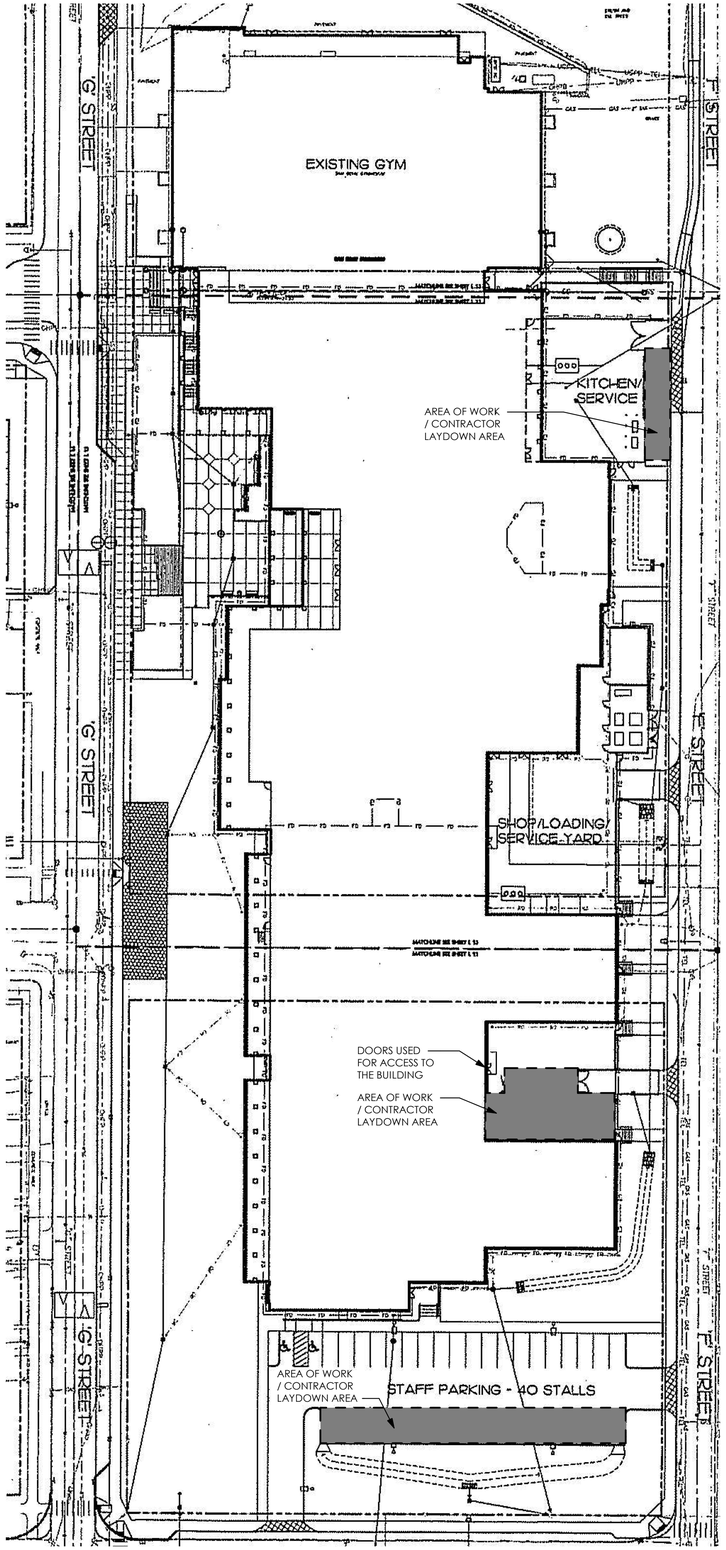
1) INCREASE GUARDRAIL HEIGHT AT SOME LOCATIONS, EXISTING & REMODELED GUARDRAILS ARE ALL AT LEAST 42 INCHES HIGH PER IBC 1015.

2) ADD ADA COMPLIANT COUNTER AND SINK AT ROOM B116A.

3) REPLACE EXISTING SAWDUST COLLECTION SYSTEM. TIE INTO EXISTING SYSTEMS.

4) ADD CANOPY NORTH OF EXISTING WOOD SHOP (ROOM E137). EXTEND EXISTING FIRE SPRINKLER SYSTEM.

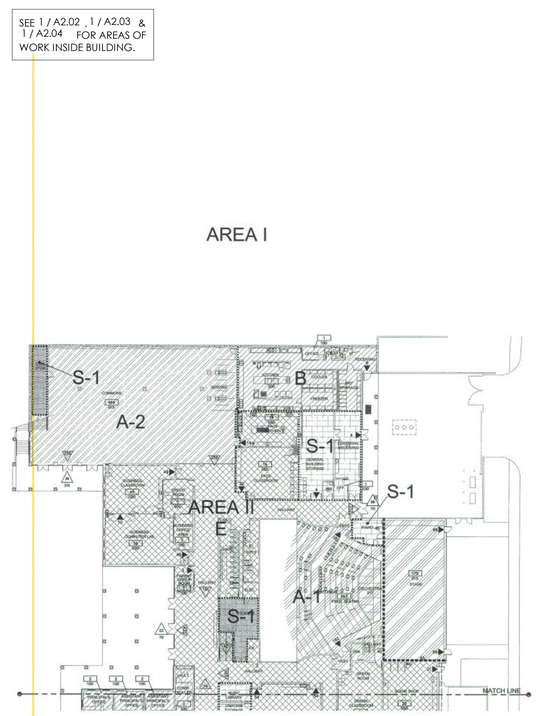
NOTE: NO CHANGES TO MEANS OF EGRESS ARE PROPOSED IN THIS PROJECT. CONTRACTOR TO COORDINATE MAINTAINING EGRESS PATHWAYS DURING CONSTRUCTION WORK AT ALL OCCUPIED PORTIONS OF BUILDING. WORK IS SCHEDULED TO OCCUR DURING 2026 SUMMER BREAK.



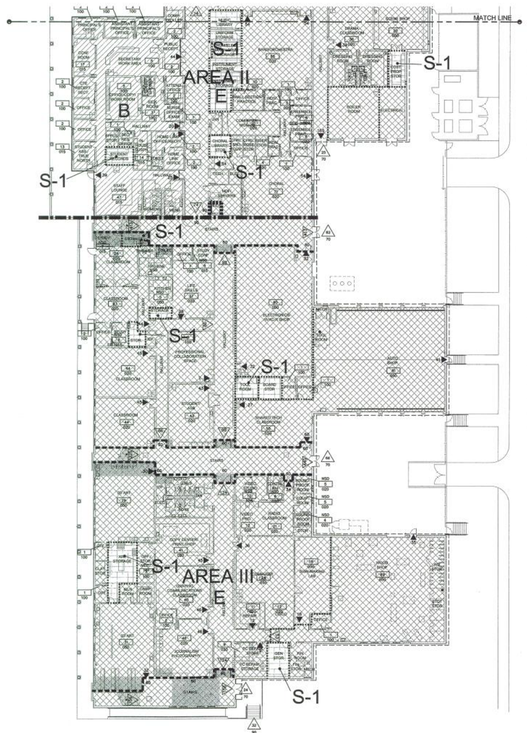
1 SITE PLAN
NS

NORTH

SEE 1 / A2.02 , 1 / A2.03 & 1 / A2.04 FOR AREAS OF WORK INSIDE BUILDING.



FIRST FLOOR - AREAS I & II



FIRST FLOOR - AREAS II & III

PLUMBING FIXTURE CALCULATIONS

FIXTURES REQUIRED

	OCCUPANTS	MEN'S	LAVS.
A, AREA (STUDENTS): 300,000 SF 100 SF / PERSON	1,000 MALE	20	10
OCCUPANTS: 2,000	1,000 FEMALE	34	17
E, AREA (STAFF): 3000 STUDENTS	50 MALE	3	2
E, AREA (VISITORS) OCCUPANTS: 100	50 FEMALE	3	2
A-1 AREA: 600 FIXED SEATS	300 MALE	3	2
OCCUPANTS: 600	300 FEMALE	12	6
A-4 AREA (MAIN GYM): 1,000 FIXED SEATS	800 MALE	5	3
OCCUPANTS: 1,800	800 FEMALE	24	14
A-4 AREA (MAIN & AUX): 13,392 + 6522	664 MALE	5	3
15 SF /PERSON OCCUPANTS: 1328	664 FEMALE	22	11

FIXTURES PROVIDED

WATER CLOSETS PROVIDED (STUDENTS):			
MALE	8 (2 @)		15
FEMALE	20		21
UNISEX	2		2
WATER CLOSETS PROVIDED (STAFF):			
MALE	6 (2 @)		4
FEMALE	1		1
UNISEX	1		1
WATER CLOSETS PROVIDED (ASSEMBLY):			
MALE	12 (6 @)		6
FEMALE	24		12
UNISEX	--		--

NOTES:
1. FOR E OCCUPANCY PLUMBING FIXTURE COUNT PURPOSES, WE HAVE INCLUDED ALL PROGRAM AREAS, MECHANICAL FAN ROOMS HAVE BEEN EXCLUDED. THIS IS 90% OF THE GROSS AREA OF THE BUILDING (3 APPROXIMATELY EXCLUDED SQUARE FEET).
2. NO CALCULATION HAS BEEN PROVIDED FOR THE COMMONS. THE COMMONS IS ANCILLARY TO THE GYMNASIUM AND AUDITORIUM AND IS NOT A SEPARATE OCCUPANCY. IT IS ONLY USED AS CIRCULATION SPACES. WHEN THE COMMONS IS OCCUPIED FOR LUNCH OR BEFORE AND AFTER SCHOOL, IT'S CALCULATED OCCUPANT LOAD IS LESS THAN THAT OF THE COMBINED GYMNASIUMS.
3. ASSEMBLY FIXTURES ARE ALSO INCLUDED IN STUDENT FIXTURE COUNT TOTALS.

AREA II - FIRST FLOOR ALLOWABLE AREA CALCULATIONS

AREA II CONSTRUCTION TYPE = IIB
FULLY SPRINKLERED PER 903.3.1.1 — ALLOWABLE AREA INCREASE OF 200% TWO STORIES WITH MEZZANINES

FRONTAGE INCREASE CALCULATION (PER SOK.2):

$$100\left[\frac{875}{1100}-.25\right]\frac{30}{30}=48.5\%$$

ALLOWABLE AREAS BY OCCUPANCY PER FLOOR (PER TABLE 503 & SECTION 506.1):

E 14,500 + (14,500 X .485) + (14,500 X 2) = 50,678 SF

ACTUAL AREA: 49,319 SF

NOTES:
1. GROUP A USES ARE ACCESSORY TO GROUP E PER 302.3.1
2. NON-SEPARATED USES INCLUDED IN GROUP E: CLASSROOMS, STORAGE/PREP ROOMS, LABS AND SCIENCE ROOMS, COOKING SCHOOL, LAUNDRY, AND BOILER ROOM ARE INCIDENTAL USE AREAS PER 302.1.1, AND ARE PROVIDED WITH SPRINKLERS AND SEPERATED WITH SMOKE PARTITIONS.

AREA III - FIRST FLOOR ALLOWABLE AREA CALCULATIONS

AREA III CONSTRUCTION TYPE = IIB
FULLY SPRINKLERED PER 903.3.1.1 — ALLOWABLE AREA INCREASE OF 200% THREE STORIES WITH MEZZANINES

FRONTAGE INCREASE CALCULATION (PER SOK.2):

$$100\left[\frac{969}{1100}-.25\right]\frac{30}{30}=63.8\%$$

ALLOWABLE AREAS BY OCCUPANCY PER FLOOR (PER TABLE 503 & SECTION 506.1):

E 14,500 + (14,500 X .638) + (14,500 X 2) = 52,763 SF

ACTUAL AREA: 41,525 SF

NOTES:
1. GROUP A USES ARE ACCESSORY TO GROUP E PER 302.3.1
2. NON-SEPARATED USES INCLUDED IN GROUP E: CLASSROOMS, STORAGE/PREP ROOMS, LABS AND SCIENCE ROOMS, COOKING KITCHEN, LAUNDRY, AND BOILER ROOM ARE INCIDENTAL USE AREAS PER 302.1.1, AND ARE PROVIDED WITH SPRINKLERS AND SEPERATED WITH SMOKE PARTITIONS.

CODE PLAN GENERAL NOTES

1. SEE MAIN FLOOR PLANS FOR DIMENSIONS, WALL TYPE REFERENCES AND FIRE EXTINGUISHER CABINET LOCATIONS.
2. SEE DOOR AND RELITE SCHEDULES, SHEETS A3.26, A3.27 AND A3.28, FOR FIRE EXIT HARDWARE AND OTHER FIRE RATING REQUIREMENTS FOR DOORS AND RELITES.
3. SEE ELECTRICAL DRAWINGS FOR EXIT SIGNS AND EMERGENCY EGRESS LIGHT FIXTURES.
4. STORAGE AND USE OF CLASS I, II, AND IIIA LIQUIDS ARE PROHIBITED EXCEPT IN APPROVED QUANTITIES AS NECESSARY IN LABORATORIES AND CLASSROOMS FOR OPERATION AND MAINTENANCE. THE QUANTITIES OF OTHER HAZARDOUS MATERIALS SHALL NOT EXCEED THE EXEMPT AMOUNTS AS SPECIFIED IN IBC TABLES 307.1(1) AND 307.7(2).
5. THE NEW BUILDING IS NON-COMBUSTIBLE, FULLY SPRINKLED CONSTRUCTION. AREAS OF EVACUATION ASSISTANCE ARE NOT REQUIRED. AN EMERGENCY EVACUATION PLAN, AS REQUIRED BY IFC SECTION 404 CHAPTER 9 AND A WRITTEN EVACUATION PLAN WILL BE PREPARED BY THE DISTRICT AND SUBMITTED TO THE CITY FIRE MARSHALL FOR APPROVAL.
6. ALL ASSEMBLY ROOMS SHALL BE POSTED WITH ROOM CAPACITY SIGNS PER IBC 103.2.2.5.
7. LESS THAN 25ft OF THE LINEAR FEET OF EACH WALL IN ALL 2-HOUR HORIZONTAL EXIT WALLS AND FIRE WALLS WILL BE PENETRATIONS.
8. SEE G2.5, ROOF PLAN FOR 1-HR ROOF PROTECTION AND ROOF PENETRATIONS. NO PENETRATIONS ARE PERMITTED WITHIN 4'-0" OF A FIRE WALL.
9. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING SUBMITTALS TO THE PERMITTING AUTHORITY AND THE ARCHITECT, OF DEFERRED SUBMITTALS DURING THE SHOP DRAWING PHASE RELATING TO:
   A. AUTOMATIC SPRINKLER SYSTEM DESIGN DRAWINGS.
   B. MANUAL AND AUTOMATIC FIRE ALARM DRAWINGS.
   C. INSTALLATION DETAILS OF ACOUSTICAL CEILING SUSPENSION SYSTEM.
   D. DESIGN DETAILS AND STRUCTURAL CALCULATIONS FOR FIRE-RESISTIVE JOINT SYSTEMS.
   E. DESIGN DETAILS AND STRUCTURAL CALCULATIONS FOR THE SEISMIC ANCHORAGE AND BRACING OF CEILINGS, LIGHT FIXTURES, SUSPENDED AND ROOF MOUNTED MECHANICAL AND OTHER EQUIPMENT WEIGHING 400 POUNDS OR MORE.
   F. STEEL STAIRWAY TREAD AND STRINGER DESIGN DRAWINGS AND STRUCTURAL CALCULATIONS.

   THE OWNER IS, LIKEWISE, RESPONSIBLE FOR THE DEFERRED SUBMITTAL OF A WRITTEN FIRE AND LIFE SAFETY EMERGENCY PLAN, WHICH SPECIFICALLY ADDRESSES THE EVACUATION OF PERSONS WITH DISABILITIES.
10. APPROVED AUDIBLE SPRINKLER FLOW ALARMS SHALL BE INSTALLED WITHIN THE BUILDING AND ON THE EXTERIOR OF THE BUILDING IN ACCORDANCE WITH NFPA 13. SPRINKLER SYSTEM SHALL HAVE ELECTRICAL FLOW MONITORING FOR SPRINKLER SYSTEM AND WATER FLOW SWITCHES SHALL BE INSTALLED AND CONNECTED TO AN APPROVED CENTRAL, REMOTE, OR PROPRIETARY MONITORING STATION.
11. AN APPROVED MANUAL AND AUTOMATIC FIRE ALARM SYSTEM SHALL BE INSTALLED AS SPECIFIED IN IBC SECTION 907.2.3 EXCEPTION 2 AND NFPA 72. THE SYSTEM SHALL BE ACTIVATED BY SMOKE DETECTORS IN ALL COMMON-USE AREAS, ASSEMBLY AREAS, TOILET ROOMS, HALLWAYS, CORRIDORS AND CORRIDORS.
12. A PROGRAM OF PROTECTION FOR ALL THROUGH PENETRATIONS AND MEMBRANE PENETRATIONS OF FIRE RATED WALLS, FLOOR CEILING, AND ROOF CEILING ASSEMBLIES SHALL BE PROVIDED. THIS PROGRAM SHALL APPLY AN 'F' RATING EQUAL TO THE FIRE RESISTIVE RATING OF THE COMPONENT BEING PENETRATED AS DEMONSTRATED BY THE MANUFACTURER OF THE PENETRATION PROTECTION SYSTEM THROUGH RECOGNIZED TESTING. ALL PENETRATIONS THROUGH ALL FIRE RATED ASSEMBLIES SHALL BE PROTECTED IN THIS MANNER. SEE DETAILS ON SHEET G1.11.
13. AT JOINTS BETWEEN FIRE RESISTIVE WALL ASSEMBLIES AND FIRE RESISTIVE ROOF CEILING OR FLOOR ASSEMBLIES, A PROGRAM OF PROTECTION FOR ALL MEMBRANE PENETRATIONS AND PERIMETER PROTECTION IS SPECIFIED IN ONE OF THE JOINT ASSEMBLIES. SUBMIT MANUFACTURER'S LITERATURE DESCRIBING FIRE RATING SYSTEM AND SPECIFIC DETAIL REQUIREMENTS FOR THE INSTALLATION OF THE SYSTEM. THE DESIGN OF THE BUILDING AND THE DETAILS OF THE BUILDING'S CONSTRUCTION SHALL BE MODIFIED TO ALLOW FOR THE INSTALLATION OF THE PROPOSED SYSTEM.
14. THE NONSEPARATED USE METHOD PER IBC 302.3.2 WILL BE APPLIED TO THE AREA CALCULATIONS FOR PORTIONS OF BUILDING AREAS E, I AND H.
15. S-1 AND S-2 OCCUPANCIES OVER 500 SQUARE FEET, THE LAUNDRY ROOM, BOILER ROOM, SCIENCE LABORATORIES AND VOCATIONAL SHOPS, WILL BE DESIGNATED AS INCIDENTAL USE AREAS PER IBC TABLE 303.1.1 AND SEPARATED FROM ADJACENT USES BY SMOKE BARRIERS PER 303.5.13.
16. INTERIOR WALL AND CEILING FINISHES SHALL CONFORM TO IBC SECTION 803.1 AND TABLE 803.4 FOR FLAME SPREAD REQUIREMENTS.
17. PROVIDE ASSISTED LISTENING DEVICES FOR THE HEARING IMPAIRED AT AUDITORIUM, GYMNASIUM AND COMMONS PER 1655G.
18. PROVIDE 2-HR SPRAY APPLIED FIRE PROOFING AT ALL STRUCTURAL MEMBERS SUPPORTING 2-HR FIRE WALLS. SEE FIRE-PROOFING PLAN G3.10.
19. KITCHEN EXHAUST DUCT AT TYPE I HOOD PROTECTED WITH 2-HR DUCT WRAP, SEE MECHANICAL SHT.

CODE PLAN LEGEND

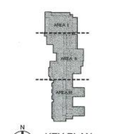
FIRE WALL: 2 HR WALLS, SEE CODE NOTE 18 AT
SHAFT ENCLOSURE: 2-HR WALLS
FIRE BARRIER FOR EXIT ENCLOSURES: 1 HR WALLS, 60 MIN OPENINGS
FIRE BARRIER FOR OCCUPANCY SEPARATION: 1 HR WALLS, 45 MIN OPENINGS
SMOKE PARTITION FOR INCIDENTAL USE: UNRATED WALLS, UNRATED OPENINGS, SELF-CLOSING
1-HR SPRAY APPLIED FIRE PROOFING ON THE UNDERSIDE OF THE ROOF DECK AT THE BASE OF 1-HR SHAFT WALL ASSEMBLY BELOW CLERESTORY AT THIRD FLOOR MEZZANINE, ONLY, SEE 10/G1.11

A-1 OCCUPANCY
A-2 OCCUPANCY
A-4 OCCUPANCY
B OCCUPANCY
E OCCUPANCY
S-1 OCCUPANCY
DIRECTION OF TRAVEL - OCCUPANT EXTING LOAD
90 DOOR RATING IN MINUTES, SEE DOOR SCHEDULE
DIRECTION OF TRAVEL - CUMMULATIVE OCC. EXIT. LOAD
ILLUMINATED EXIT SIGN WITH BATTERY OR EMERGENCY POWER SOURCE PER ELECTRICAL
INDICATES NON-CONTRIBUTING OCCUPANT LOAD FROM STRAIN ABOVE
FA FIRE ALARM PULL STATION PER ELECTRICAL
ALTERNATE SCENARIO
PH PANIC HARDWARE
ROOM OCCUPANT LOAD
OCCUPANT LOAD FACTOR
FEC FIRE EXTINGUISHER CABINET (75' MAX. TRAVEL, 8000 S.F. MAX. AREA) SEMI-RECESSED CABINETS IN FIRE RATED WALLS
MINIMUM REQUIRED EXIT WIDTH
ACTUAL EXIT WIDTH
NSO NOT SIMULTANEOUSLY OCCUPIED

FIRESTOPPING NOTE:
ALL PENETRATIONS MADE THROUGH FIRE-RATED WALLS, CEILINGS AND FLOOR ASSEMBLIES, BOTH EMPTY HOLES AND HOLES ACCOMMODATING SUCH ITEMS AS DUCTS, PIPES, CONDUIT, ETC. SHALL BE SEALED. PENETRATIONS SHALL BE SEALED TO RETAIN THE FIRE RATING OF THE WALL, CEILING OR FLOOR AND TO PREVENT THE PASSAGE OF BARRIER AGAINST THE SPREAD OF FLAME, SMOKE AND GASES, IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 07270 – FIRESTOPPING, MECHANICAL AND ELECTRICAL. THE GENERAL CONTRACTOR SHALL COORDINATE THE WORK OF THE SUBCONTRACTOR MAKING THE PENETRATION. – SEE MECHANICAL AND ELECTRICAL.

ZONING INFORMATION

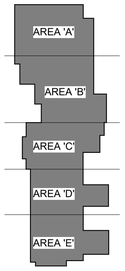
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USE ZONE OF ADJACENT LOTS	NORTH	RS/MI
	EAST	RS/RM
	SOUTH	RP
	WEST	RS/RM



KEY PLAN
NO SCALE

CODE PLAN - FIRST FLOOR
SCALE 1" = 20'-0"

2 CODE REVIEW - FIRST FLOOR
NS



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Issue & Revision Dates
7 APRIL 2026 BID SET

BID SET

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Checked By AH

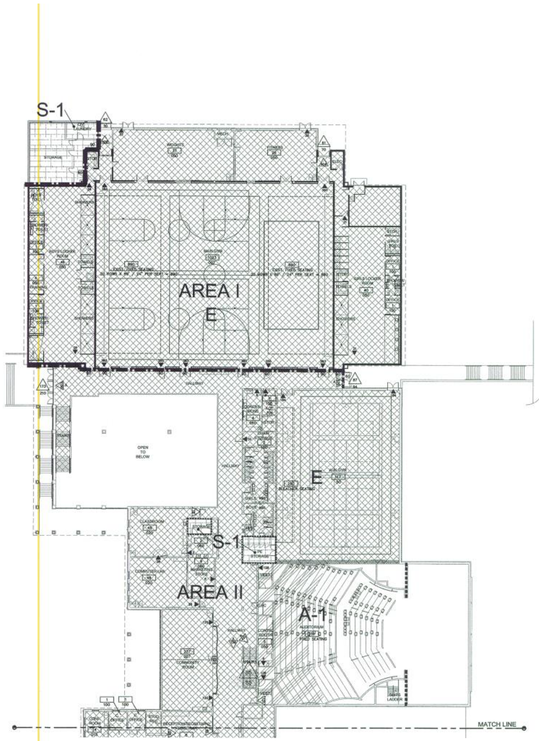
Sheet Title
CODE SITE PLAN + CODE REVIEW SUMMARY

G3.01

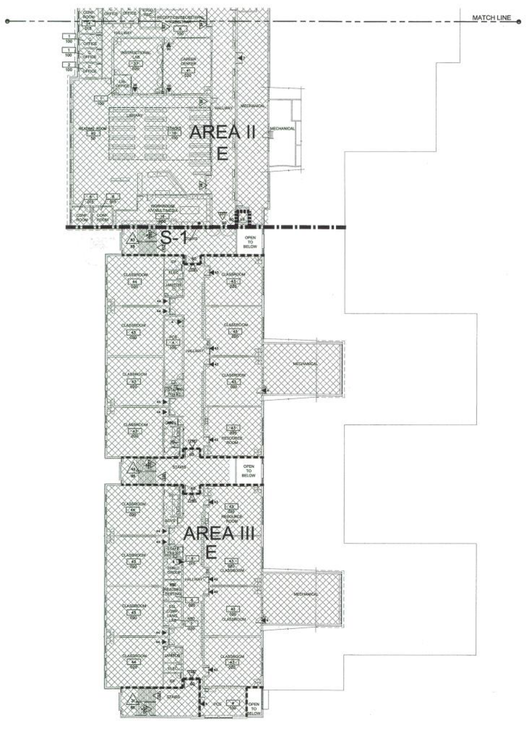
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SECOND FLOOR - AREAS I & II



SECOND FLOOR - AREAS II & III

CODE PLAN GENERAL NOTES

1. SEE MAIN FLOOR PLANS FOR DIMENSIONS, WALL TYPE REFERENCES AND FIRE EXTINGUISHER CABINET LOCATIONS.
2. SEE DOOR AND REUTE SCHEDULES, SHEETS A3.26, A3.27 AND A3.28, FOR FIRE EXIT HARDWARE AND OTHER FIRE RATING REQUIREMENTS FOR DOORS AND RELITES.
3. SEE ELECTRICAL DRAWINGS FOR EXIT SIGNS AND EMERGENCY EGRESS LIGHT FIXTURES.
4. STORAGE AND USE OF CLASS I, II, AND IIIA LIQUIDS ARE PROHIBITED EXCEPT IN APPROVED QUANTITIES AS NECESSARY IN LABORATORIES AND CLASSROOMS FOR OPERATION AND MAINTENANCE. THE QUANTITIES OF OTHER HAZARDOUS MATERIALS SHALL NOT EXCEED THE EXEMPT AMOUNTS AS SPECIFIED IN IBC TABLES 307.7(1) AND 307.7(2).
5. THE NEW BUILDING IS NON-COMBUSTIBLE, FULLY SPRINKLED CONSTRUCTION. AREAS OF EVACUATION ASSISTANCE WILL NOT BE REQUIRED. QUICK RESPONSE HEADS ARE USED WHERE ALLOWED BY IBC CHAPTER 9 AND A WRITTEN EVACUATION PLAN WILL BE PREPARED BY THE DISTRICT AND SUBMITTED TO THE CITY FIRE MARSHALL FOR APPROVAL.
6. ALL ASSEMBLY ROOMS SHALL BE POSTED WITH ROOM CAPACITY SIGNS PER IBC 103.3.2.5.
7. LESS THAN 25ft OF THE LINEAR FEET OF EACH WALL IN ALL 2-HOUR HORIZONTAL EXIT WALLS AND FIRE WALLS WILL BE PENETRATIONS.
8. SEE G2.5, ROOF PLAN FOR 1-HR ROOF PROTECTION AND ROOF PENETRATIONS. NO PENETRATIONS ARE PERMITTED WITHIN 4'-0" OF A FIRE WALL.
9. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING SUBMITTALS TO THE PERMITTING AUTHORITY AND THE ARCHITECT, OF DEFERRED SUBMITTALS DURING THE SHOP DRAWING PHASE RELATING TO:
   A. AUTOMATIC SPRINKLER SYSTEM DESIGN DRAWINGS.
   B. MANUAL AND AUTOMATIC FIRE ALARM DRAWINGS.
   C. INSTALLATION DETAILS OF ACOUSTICAL CEILING SUSPENSION SYSTEM.
   D. INSTALLATION DETAILS OF MOISTURE AND THROUGH-PENETRATION FIRE STOPS, AND FIRE-RESISTIVE JOINT SYSTEMS.
   E. DESIGN DETAILS AND STRUCTURAL CALCULATIONS FOR THE SEISMIC ANCHORAGE AND BRACING OF EACH PIECE OF FLOOR MOUNTED AND ROOF MOUNTED MECHANICAL AND OTHER EQUIPMENT WEIGHING 400 POUNDS OR MORE.
   F. STEEL STAIRWAY TREAD AND STRINGER DESIGN DRAWINGS AND STRUCTURAL CALCULATIONS.

   THE OWNER IS, LIKEWISE, RESPONSIBLE FOR THE DEFERRED SUBMITTAL OF A WRITTEN FIRE AND LIFE SAFETY EMERGENCY PLAN, WHICH SPECIFICALLY ADDRESSES THE EVACUATION OF PERSONS WITH DISABILITIES.
10. APPROVED AUDIBLE SPRINKLER FLOW ALARMS SHALL BE INSTALLED WITHIN THE BUILDING AND ON THE EXTERIOR IN APPROVED LOCATIONS. ACTUATION SHALL CONFORM TO NO CHAPTER 9, ELECTRICAL VALVE MONITORING FOR SPRINKLER SYSTEM AND WATER FLOW SWITCHES SHALL BE INSTALLED AND CONNECTED TO AN APPROVED CENTRAL, REMOTE, OR PROPRIETARY MONITORING STATION.
11. AN APPROVED MANUAL AND AUTOMATIC FIRE ALARM SYSTEM SHALL BE INSTALLED AS SPECIFIED IN THE FIRE CODE. VISIBLE ALARMS COMPLYING WITH IBC SECTION 710.5.1 SHALL BE INSTALLED IN ALL COMMON-USE AREAS, ASSEMBLY AREAS, TOILET ROOMS, HALLWAYS, LOBBIES AND CORRIDORS.
12. A PROGRAM OF PROTECTION FOR ALL THROUGH PENETRATIONS AND MEMBRANE PENETRATIONS OF FIRE RATED WALLS, FLOOR CEILING, AND ROOF CEILING ASSEMBLIES SHALL BE PROVIDED. THIS PROGRAM SHALL APPLY AS "F" RATING EQUAL TO THE FIRE RESISTIVE RATING OF THE COMPONENT BEING PENETRATED AS DEMONSTRATED BY THE MANUFACTURER OF THE PENETRATION PROTECTION SYSTEM THROUGH RECOGNIZED TESTING. ALL PENETRATIONS THROUGH ALL FIRE RATED ASSEMBLIES SHALL BE PROTECTED IN THIS MANNER. SEE DETAILS ON SHEET G1.11.
13. AT JOINTS BETWEEN FIRE RESISTIVE WALL ASSEMBLIES AND FIRE RESISTIVE ROOF CEILING OR FLOOR CEILING ASSEMBLIES A FIRE RESISTIVE JOINT SYSTEM SHALL BE PROVIDED WHERE OPENING PROTECTION IS SPECIFIED IN ONE OF THE JOINT ASSEMBLIES. SUBMIT MANUFACTURER'S LITERATURE DESCRIBING FIRE RATING TESTING AND SPECIFIC DETAIL REQUIREMENTS FOR THE INSTALLATION OF THE SYSTEM. IF REQUIRED TO COMPLY WITH MANUFACTURER'S REQUIREMENTS, SURROUNDING CONSTRUCTION SHALL BE MODIFIED TO ALLOW FOR THE INSTALLATION OF THE PROPOSED SYSTEM.
14. THE NONSEPARATED USE METHOD PER IBC 302.3.2 WILL BE APPLIED TO THE AREA CALCULATIONS FOR PORTIONS OF BUILDING AREAS I, I AND II.
15. S-1 AND S-2 OCCUPANCIES OVER 100 SQUARE FEET, THE LAUNDRY ROOM, BOILER ROOM, SCIENCE LABORATORIES AND VOCATIONAL SHOPS, WILL BE DESIGNATED AS INCIDENTAL USE AREAS PER IBC TABLE 302.1.1 AND SEPARATED FROM ADJACENT USES BY SMOKE BARRIERS PER 302.5.1.1.
16. INTERIOR WALL AND CEILING FINISHES SHALL CONFORM TO IBC SECTION 803.1 AND TABLE 803.4 FOR FLAME SPREAD REQUIREMENTS.
17. PROVIDE ASSISTED LISTENING DEVICES FOR THE HEARING IMPAIRED AT AUDITORIUM, GYMNASIUM AND COMMONS PER 1809D.
18. PROVIDE 2-HR SPRAY APPLIED FIRE PROOFING AT ALL STRUCTURAL MEMBERS SUPPORTING 2-HR FIRE WALLS. SEE FIRE-PROOFING PLAN G1.10.
19. KITCHEN EXHAUST DUCT AT TYPE I HOOD PROTECTED WITH 2-HR DUCT WRAP, SEE MECHANICAL M4.1.

CODE PLAN LEGEND

- FIRE WALL: 2 HR WALLS, SEE CODE NOTE 18 ABO!
- SHAFT ENCLOSURE: 2-HR WALLS
- FIRE BARRIER FOR EXIT ENCLOSURES: 1 HR WALLS, 60 MIN OPENINGS
- FIRE BARRIER FOR OCCUPANCY SEPARATION: 1 HR WALLS, 45 MIN OPENINGS
- SMOKE PARTITION FOR INCIDENTAL USE: UNRATED WALLS, UNRATED OPENINGS, SELF-CLOSING
- 1-HR SPRAY APPLIED FIRE PROOFING ON THE STRUCTURAL MEMBERS AND DECK ABOVE, TYP. 1-HR SHAFT WALL ASSEMBLY BELOW CATWALKS AT THIRD FLOOR MEZZANINE, ONLY, SEE 10/G0.11.

A-1 OCCUPANCY · A-2 OCCUPANCY · A-4 OCCUPANCY · B OCCUPANCY · E OCCUPANCY · S-1 OCCUPANCY

- DIRECTION OF TRAVEL — OCCUPANT EXITING LOAD
- DIRECTION OF TRAVEL — CUMMULATIVE OCC. EXIT. LOAD
- INDICATES NON-CONTRIBUTING OCCUPANT LOAD FROM STAIRS ABOVE — ALTERNATE SCENARIO
- ROOM OCCUPANT LOAD — OCCUPANT LOAD FACTOR
- MINIMUM REQUIRED EXIT WIDTH — ACTUAL EXIT WIDTH
- 60 — DOOR RATING IN MINUTES, SEE DOOR SCHEDULE
- ILLUMINATED EXIT SIGN WITH BATTERY OR EMERGENCY POWER SOURCE PER ELECTRICAL
- FA — FIRE ALARM PULL STATION PER ELECTRICAL
- PH — PANIC HARDWARE
- FEC — FIRE EXTINGUISHER CABINET (75' MAX. TRAVEL, 6500 S.F. MAX. AREA) PROVIDE FIRE RATED CABINETS IN FIRE RATED WALLS
- NSO — NOT SIMULTANEOUSLY OCCUPIED

FIRESTOPPING NOTE:
ALL PENETRATIONS MADE THROUGH FIRE-RATED WALLS, CEILINGS AND FLOOR ASSEMBLIES, BOTH EMPTY HOLES AND HOLES ACCOMMODATING SUCH ITEMS AS DUCTS, PIPES, CONDUIT, ETC. SHALL BE FIRESTOPPED IN ACCORDANCE WITH IBC 714 IN SUCH A MANNER THAT THE INTEGRITY OF THE FIRE-RATED CONSTRUCTION BY MAINTAINING AN EFFECTIVE BARRIER AGAINST THE SPREAD OF FLAME, SMOKE, AND GASES, IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 0712 — SEALANTS. MECHANICAL AND ELECTRICAL RELATED PENETRATIONS SHALL BE THE RESPONSIBILITY OF THE SUBCONTRACTOR MAKING THE PENETRATION — SEE MECHANICAL AND ELECTRICAL.

AREA I - SECOND FLOOR
ALLOWABLE AREA CALCULATIONS

AREA I CONSTRUCTION TYPE = VB
ONE STORY WITH MEZZANINE
FULLY SPRINKLERED PER 903.3.1.1 — ALLOWABLE AREA INCREASE OF 300ft PER 504.2

FRONTAGE INCREASE CALCULATION (PER 506.2):

$$100 \left[\frac{498}{706} - .25\right] \frac{20}{30} = 30.4\%$$

ALLOWABLE AREA BY OCCUPANCY PER FLOOR (PER TABLE 503 & SECTION 506.1):

E 9,500 + (9,500 X .304) + (9,500 X 2) = 40,888 SF

ACTUAL AREA: 25,804 SF

NOTES:
1. GROUP A USES ARE ACCESSORY TO GROUP E PER 302.2.1
2. NON-SEPARATED USES INCLUDED IN GROUP E, S-1 AND B.
3. STORAGE ROOMS OVER 100 SF, LABS AND VOCATIONAL ROOMS, COOKING FACILITIES WITH APPLIANCES, BOILER ROOMS AND INCIDENTAL USE AREAS PER 302.1.1, AND ARE PROVIDED WITH SPRINKLERS AND SEPERATED WITH SMOKE PARTITIONS.

AREA II - SECOND FLOOR
ALLOWABLE AREA CALCULATIONS

AREA II CONSTRUCTION TYPE = VB
FULLY SPRINKLERED PER 903.3.1.1 — ALLOWABLE AREA INCREASE OF 200ft
TWO STORIES WITH MEZZANINES

FRONTAGE INCREASE CALCULATION (PER 506.2):

$$100 \left[\frac{1098}{1327} - .25\right] \frac{30}{30} = 57.7\%$$

ALLOWABLE AREAS BY OCCUPANCY PER FLOOR (PER TABLE 503 & SECTION 506.1):

E 14,500 + (14,500 X .577) + (14,500 X 2) = 51,866 SF

ACTUAL AREA: 34,874 SF

NOTES:
1. GROUP A USES ARE ACCESSORY TO GROUP E PER 302.2.1
2. NON-SEPARATED USES INCLUDED IN GROUP E, S-1 AND B.
3. STORAGE ROOMS OVER 100 SF, LABS AND VOCATIONAL ROOMS, COOKING FACILITIES WITH APPLIANCES, BOILER ROOMS AND INCIDENTAL USE AREAS PER 302.1.1, AND ARE PROVIDED WITH SPRINKLERS AND SEPERATED WITH SMOKE PARTITIONS.

AREA III - SECOND FLOOR
ALLOWABLE AREA CALCULATIONS

AREA III CONSTRUCTION TYPE = VB
FULLY SPRINKLERED PER 903.3.1.1 — ALLOWABLE AREA INCREASE OF 200ft
THREE STORIES WITH MEZZANINES

FRONTAGE INCREASE CALCULATION (PER 506.2):

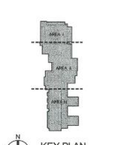
$$100 \left[\frac{663}{947} - .30\right] \frac{30}{30} = 69.2\%$$

ALLOWABLE AREAS BY OCCUPANCY PER FLOOR (PER TABLE 503 & SECTION 506.1):

E 14,500 + (14,500 X .692) + (14,500 X 2) = 53,389 SF

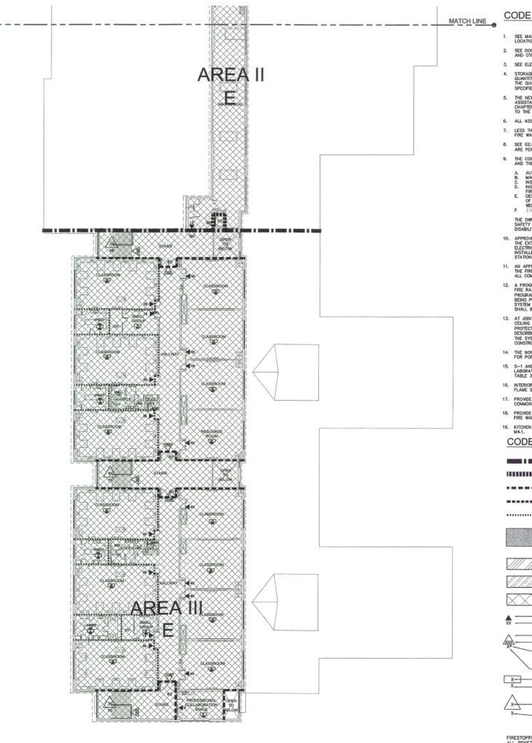
ACTUAL AREA: 25,713 SF

NOTES:
1. GROUP A USES ARE ACCESSORY TO GROUP E PER 302.2.1
2. NON-SEPARATED USES INCLUDED IN GROUP E, S-1 AND B.
3. STORAGE ROOMS OVER 100 SF, LABS AND VOCATIONAL ROOMS, COOKING FACILITIES WITH APPLIANCES, BOILER ROOMS AND INCIDENTAL USE AREAS PER 302.1.1, AND ARE PROVIDED WITH SPRINKLERS AND SEPERATED WITH SMOKE PARTITIONS.



CODE PLAN - SECOND FLOOR
SCALE 1" = 20'-0"

1 CODE REVIEW - SECOND FLOOR
NS



SECOND FLOOR MEZZANINE (LOWER) - AREA II & THIRD FLOOR AREA III

CODE PLAN GENERAL NOTES

1. SEE MAIN FLOOR PLANS FOR DIMENSIONS, WALL TYPE REFERENCES AND FIRE EXTINGUISHER CABINET LOCATIONS.
2. SEE DOOR AND REUTE SCHEDULES, SHEETS A3.26, A3.27 AND A3.28, FOR FIRE EXIT HARDWARE AND OTHER FIRE RATING REQUIREMENTS FOR DOORS AND RELITES.
3. SEE ELECTRICAL DRAWINGS FOR EXIT SIGNS AND EMERGENCY EGRESS LIGHT FIXTURES.
4. STORAGE AND USE OF CLASS I, II, AND IIIA LIQUIDS ARE PROHIBITED EXCEPT IN APPROVED QUANTITIES AS NECESSARY IN LABORATORIES AND CLASSROOMS FOR OPERATION AND MAINTENANCE. THE QUANTITIES OF OTHER HAZARDOUS MATERIALS SHALL NOT EXCEED THE EXEMPT AMOUNTS AS SPECIFIED IN IBC TABLES 307.7(1) AND 307.7(2).
5. THE NEW BUILDING IS NON-COMBUSTIBLE, FULLY SPRINKLED CONSTRUCTION. AREAS OF EVACUATION ASSISTANCE WILL NOT BE REQUIRED. QUICK RESPONSE HEADS ARE USED WHERE ALLOWED BY IBC CHAPTER 9 AND A WRITTEN EVACUATION PLAN WILL BE PREPARED BY THE DISTRICT AND SUBMITTED TO THE CITY FIRE MARSHALL FOR APPROVAL.
6. ALL ASSEMBLY ROOMS SHALL BE POSTED WITH ROOM CAPACITY SIGNS PER IBC 103.3.2.5.
7. LESS THAN 25ft OF THE LINEAR FEET OF EACH WALL IN ALL 2-HOUR HORIZONTAL EXIT WALLS AND FIRE WALLS WILL BE PENETRATIONS.
8. SEE G2.5, ROOF PLAN FOR 1-HR ROOF PROTECTION AND ROOF PENETRATIONS. NO PENETRATIONS ARE PERMITTED WITHIN 4'-0" OF A FIRE WALL.
9. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING SUBMITTALS TO THE PERMITTING AUTHORITY AND THE ARCHITECT, OF DEFERRED SUBMITTALS DURING THE SHOP DRAWING PHASE RELATING TO:
   A. AUTOMATIC SPRINKLER SYSTEM DESIGN DRAWINGS.
   B. MANUAL AND AUTOMATIC FIRE ALARM DRAWINGS.
   C. INSTALLATION DETAILS OF ACOUSTICAL CEILING SUSPENSION SYSTEM.
   D. INSTALLATION DETAILS OF MOISTURE AND THROUGH-PENETRATION FIRE STOPS, AND FIRE-RESISTIVE JOINT SYSTEMS.
   E. DESIGN DETAILS AND STRUCTURAL CALCULATIONS FOR THE SEISMIC ANCHORAGE AND BRACING OF EACH PIECE OF FLOOR MOUNTED AND ROOF MOUNTED MECHANICAL AND OTHER EQUIPMENT WEIGHING 400 POUNDS OR MORE.
   F. STEEL STAIRWAY TREAD AND STRINGER DESIGN DRAWINGS AND STRUCTURAL CALCULATIONS.

   THE OWNER IS, LIKEWISE, RESPONSIBLE FOR THE DEFERRED SUBMITTAL OF A WRITTEN FIRE AND LIFE SAFETY EMERGENCY PLAN, WHICH SPECIFICALLY ADDRESSES THE EVACUATION OF PERSONS WITH DISABILITIES.
10. APPROVED AUDIBLE SPRINKLER FLOW ALARMS SHALL BE INSTALLED WITHIN THE BUILDING AND ON THE EXTERIOR IN APPROVED LOCATIONS. ACTUATION SHALL CONFORM TO NO CHAPTER 9, ELECTRICAL VALVE MONITORING FOR SPRINKLER SYSTEM AND WATER FLOW SWITCHES SHALL BE INSTALLED AND CONNECTED TO AN APPROVED CENTRAL, REMOTE, OR PROPRIETARY MONITORING STATION.
11. AN APPROVED MANUAL AND AUTOMATIC FIRE ALARM SYSTEM SHALL BE INSTALLED AS SPECIFIED IN THE FIRE CODE. VISIBLE ALARMS COMPLYING WITH IBC SECTION 710.5.1 SHALL BE INSTALLED IN ALL COMMON-USE AREAS, ASSEMBLY AREAS, TOILET ROOMS, HALLWAYS, LOBBIES AND CORRIDORS.
12. A PROGRAM OF PROTECTION FOR ALL THROUGH PENETRATIONS AND MEMBRANE PENETRATIONS OF FIRE RATED WALLS, FLOOR CEILING, AND ROOF CEILING ASSEMBLIES SHALL BE PROVIDED. THIS PROGRAM SHALL APPLY AN "F" RATING EQUAL TO THE FIRE RESISTIVE RATING OF THE COMPONENT BEING PENETRATED AS DEMONSTRATED BY THE MANUFACTURER OF THE PENETRATION PROTECTION SYSTEM THROUGH RECOGNIZED TESTING. ALL PENETRATIONS THROUGH ALL FIRE RATED ASSEMBLIES SHALL BE PROTECTED IN THIS MANNER. SEE DETAILS ON SHEET G1.11.
13. AT JOINTS BETWEEN FIRE RESISTIVE WALL ASSEMBLIES AND FIRE RESISTIVE ROOF CEILING OR FLOOR CEILING ASSEMBLIES A FIRE RESISTIVE JOINT SYSTEM SHALL BE PROVIDED WHERE OPENING PROTECTION IS SPECIFIED IN ONE OF THE JOINT ASSEMBLIES. SUBMIT MANUFACTURER'S LITERATURE DESCRIBING FIRE RATING TESTING AND SPECIFIC DETAIL REQUIREMENTS FOR THE INSTALLATION OF THE SYSTEM. IF REQUIRED TO COMPLY WITH MANUFACTURER'S REQUIREMENTS, SURROUNDING CONSTRUCTION SHALL BE MODIFIED TO ALLOW FOR THE INSTALLATION OF THE PROPOSED SYSTEM.
14. THE NONSEPARATED USE METHOD PER IBC 302.3.2 WILL BE APPLIED TO THE AREA CALCULATIONS FOR PORTIONS OF BUILDING AREAS I, I AND II.
15. S-1 AND S-2 OCCUPANCIES OVER 100 SQUARE FEET, THE LAUNDRY ROOM, BOILER ROOM, SCIENCE LABORATORIES AND VOCATIONAL SHOPS, WILL BE DESIGNATED AS INCIDENTAL USE AREAS PER IBC TABLE 302.1.1 AND SEPARATED FROM ADJACENT USES BY SMOKE BARRIERS PER 302.5.1.1.
16. INTERIOR WALL AND CEILING FINISHES SHALL CONFORM TO IBC SECTION 803.1 AND TABLE 803.4 FOR FLAME SPREAD REQUIREMENTS.
17. PROVIDE ASSISTED LISTENING DEVICES FOR THE HEARING IMPAIRED AT AUDITORIUM, GYMNASIUM AND COMMONS PER 1809D.
18. PROVIDE 2-HR SPRAY APPLIED FIRE PROOFING AT ALL STRUCTURAL MEMBERS SUPPORTING 2-HR FIRE WALLS. SEE FIRE-PROOFING PLAN G1.10.
19. KITCHEN EXHAUST DUCT AT TYPE I HOOD PROTECTED WITH 2-HR DUCT WRAP, SEE MECHANICAL M4.1.

CODE PLAN LEGEND

- FIRE WALL: 2 HR WALLS, SEE CODE NOTE 18 ABO!
- SHAFT ENCLOSURE: 2-HR WALLS
- FIRE BARRIER FOR EXIT ENCLOSURES: 1 HR WALLS, 60 MIN OPENINGS
- FIRE BARRIER FOR OCCUPANCY SEPARATION: 1 HR WALLS, 45 MIN OPENINGS
- SMOKE PARTITION FOR INCIDENTAL USE: UNRATED WALLS, UNRATED OPENINGS, SELF-CLOSING
- 1-HR SPRAY APPLIED FIRE PROOFING ON THE STRUCTURAL MEMBERS AND DECK ABOVE, TYP. 1-HR SHAFT WALL ASSEMBLY BELOW CATWALKS AT THIRD FLOOR MEZZANINE, ONLY, SEE 10/G0.11.

A-1 OCCUPANCY · A-2 OCCUPANCY · A-4 OCCUPANCY · B OCCUPANCY · E OCCUPANCY · S-1 OCCUPANCY

- DIRECTION OF TRAVEL — OCCUPANT EXITING LOAD
- DIRECTION OF TRAVEL — CUMMULATIVE OCC. EXIT. LOAD
- INDICATES NON-CONTRIBUTING OCCUPANT LOAD FROM STAIRS ABOVE — ALTERNATE SCENARIO
- ROOM OCCUPANT LOAD — OCCUPANT LOAD FACTOR
- MINIMUM REQUIRED EXIT WIDTH — ACTUAL EXIT WIDTH
- 60 — DOOR RATING IN MINUTES, SEE DOOR SCHEDULE
- ILLUMINATED EXIT SIGN WITH BATTERY OR EMERGENCY POWER SOURCE PER ELECTRICAL
- FA — FIRE ALARM PULL STATION PER ELECTRICAL
- PH — PANIC HARDWARE
- FEC — FIRE EXTINGUISHER CABINET (75' MAX. TRAVEL, 6500 S.F. MAX. AREA) PROVIDE FIRE RATED CABINETS IN FIRE RATED WALLS
- NSO — NOT SIMULTANEOUSLY OCCUPIED

FIRESTOPPING NOTE:
ALL PENETRATIONS MADE THROUGH FIRE-RATED WALLS, CEILINGS AND FLOOR ASSEMBLIES, BOTH EMPTY HOLES AND HOLES ACCOMMODATING SUCH ITEMS AS DUCTS, PIPES, CONDUIT, ETC. SHALL BE FIRESTOPPED IN ACCORDANCE WITH IBC 714 IN SUCH A MANNER THAT THE INTEGRITY OF THE FIRE-RATED CONSTRUCTION BY MAINTAINING AN EFFECTIVE BARRIER AGAINST THE SPREAD OF FLAME, SMOKE, AND GASES, IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 0712 — SEALANTS. MECHANICAL AND ELECTRICAL RELATED PENETRATIONS SHALL BE THE RESPONSIBILITY OF THE SUBCONTRACTOR MAKING THE PENETRATION — SEE MECHANICAL AND ELECTRICAL.

AREA III - THIRD FLOOR
ALLOWABLE AREA CALCULATIONS

AREA III CONSTRUCTION TYPE = VB
FULLY SPRINKLERED PER 903.3.1.1 — ALLOWABLE AREA INCREASE OF 200ft
THREE STORIES WITH MEZZANINES

FRONTAGE INCREASE CALCULATION (PER 506.2):

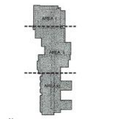
$$100 \left[\frac{686}{787} - .25\right] \frac{30}{30} = 64.4\%$$

ALLOWABLE AREAS BY OCCUPANCY PER FLOOR (PER TABLE 503 & SECTION 506.1):

E 14,500 + (14,500 X .644) + (14,500 X 2) = 52,836 SF

ACTUAL AREA: 25,066 SF

NOTES:
1. GROUP A USES ARE ACCESSORY TO GROUP E PER 302.2.1
2. NON-SEPARATED USES INCLUDED IN GROUP E, S-1 AND B.
3. STORAGE ROOMS OVER 100 SF, LABS AND VOCATIONAL ROOMS, COOKING FACILITIES WITH APPLIANCES, BOILER ROOMS AND INCIDENTAL USE AREAS PER 302.1.1, AND ARE PROVIDED WITH SPRINKLERS AND SEPERATED WITH SMOKE PARTITIONS.



CODE PLAN - THIRD FLOOR
SCALE 1" = 20'-0"

2 CODE REVIEW - THIRD FLOOR
NS

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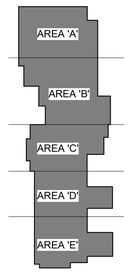
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Sheet Title
CODE REVIEW SUMMARY

G3.02
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GENERAL NOTES

A. SEE GENERAL NOTES ON SHEET G2.01 FOR ADDITIONAL INFORMATION.

B. DIMENSIONING: REFER TO SITE PLANS, ENLARGED FLOOR PLANS, ELEVATIONS, INTERIOR ELEVATIONS, REFLECTED CEILING PLANS, ROOF PLANS, AND DETAILS FOR ADDITIONAL DIMENSIONAL INFORMATION.

EXTERIOR WALLS: ALL DIMENSIONS TO EXTERIOR WALLS ARE TO FACE OF STUD OR EXTERIOR FACE OF MASONRY VENEER, OR CENTERLINE OF COLUMNS U.N.O.

INTERIOR WALLS: ALL DIMENSIONS TO INTERIOR STEEL STUD WALLS ARE TO FACE OF STUD, CENTER OF OPENING OR CENTERLINE OF STEEL COLUMNS, U.N.O.

ABBREVIATIONS:
FOB - FACE OF BRICK
FOC - FACE OF CONCRETE
FOM - FACE OF MASONRY VENEER
FOS - FACE OF STUD
C/L COL - CENTERLINE OF COLUMN
C/L STUD - CENTERLINE OF STUD
C/L FIX - CENTERLINE OF FIXTURE

C. VERTICAL HEIGHTS ON ARCHITECTURAL DRAWINGS: TOP OF CONCRETE FLOOR SLAB, IS GENERALLY REFERENCED AS ELEVATION 0' - 0" FOR THE MAIN FLOOR LEVEL. ALL OTHER VERTICAL DIMENSION REFERENCE POINTS ABOVE (+) OR BELOW (-) 0' - 0": SEE CIVIL DRAWINGS FOR ACTUAL BUILDING TOP OF SLAB BASE ELEVATION

D. SEE THE A8 SHEETS FOR INTERIOR ELEVATIONS, INTERIOR ELEVATIONS ARE REFERENCED IN EACH ROOM WITH A SYMBOL INDICATING THE WALL ELEVATED AND THE SHEET NUMBER OF THE ELEVATION (SEE LEGEND ON G2.01)

E. SEE INTERIOR ELEVATIONS FOR WALL MOUNTED ITEMS

F. SEE SHEET G2.01 FOR SYMBOLS, ABBREVIATIONS.

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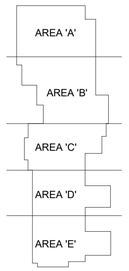
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Sheet Title
FLOOR PLAN GENERAL NOTES & LEGEND

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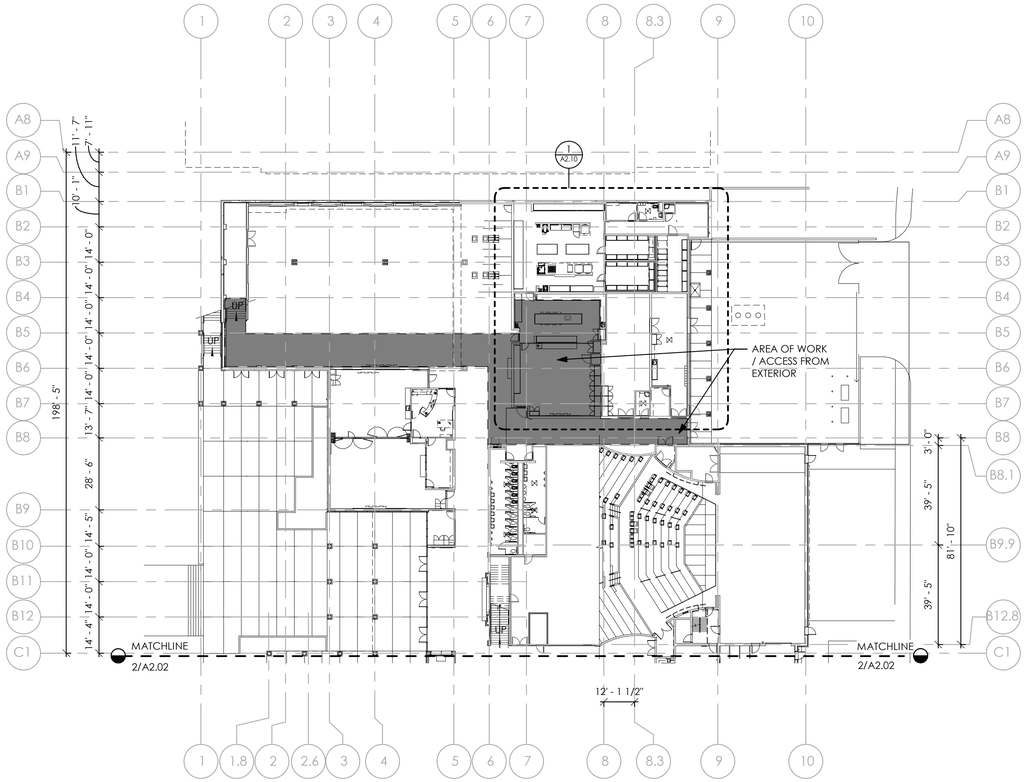
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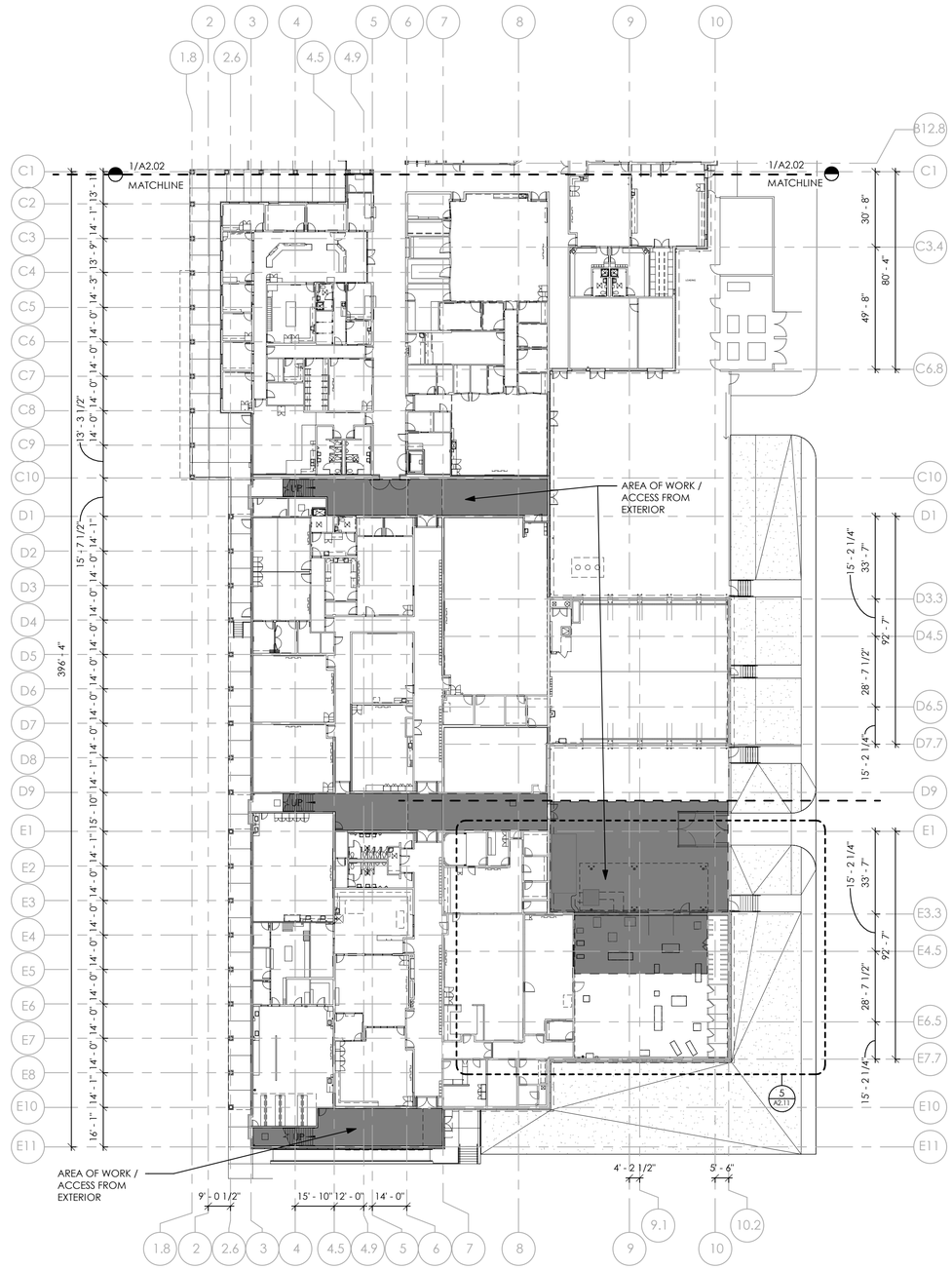
A. SEE SHEET A2.01 FOR FLOOR PLAN GENERAL NOTES

KEYNOTES



1 FIRST FLOOR REFERENCE PLAN - AREA A & B

1" = 30'-0"



2 FIRST FLOOR REFERENCE PLAN - AREA C, D & E

1" = 30'-0"

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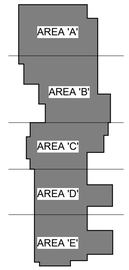
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NOTE: DRAWING MAY BE REDUCED
0 15' 30' 60'

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Sheet Title
FIRST FLOOR REFERENCE PLAN

A2.02

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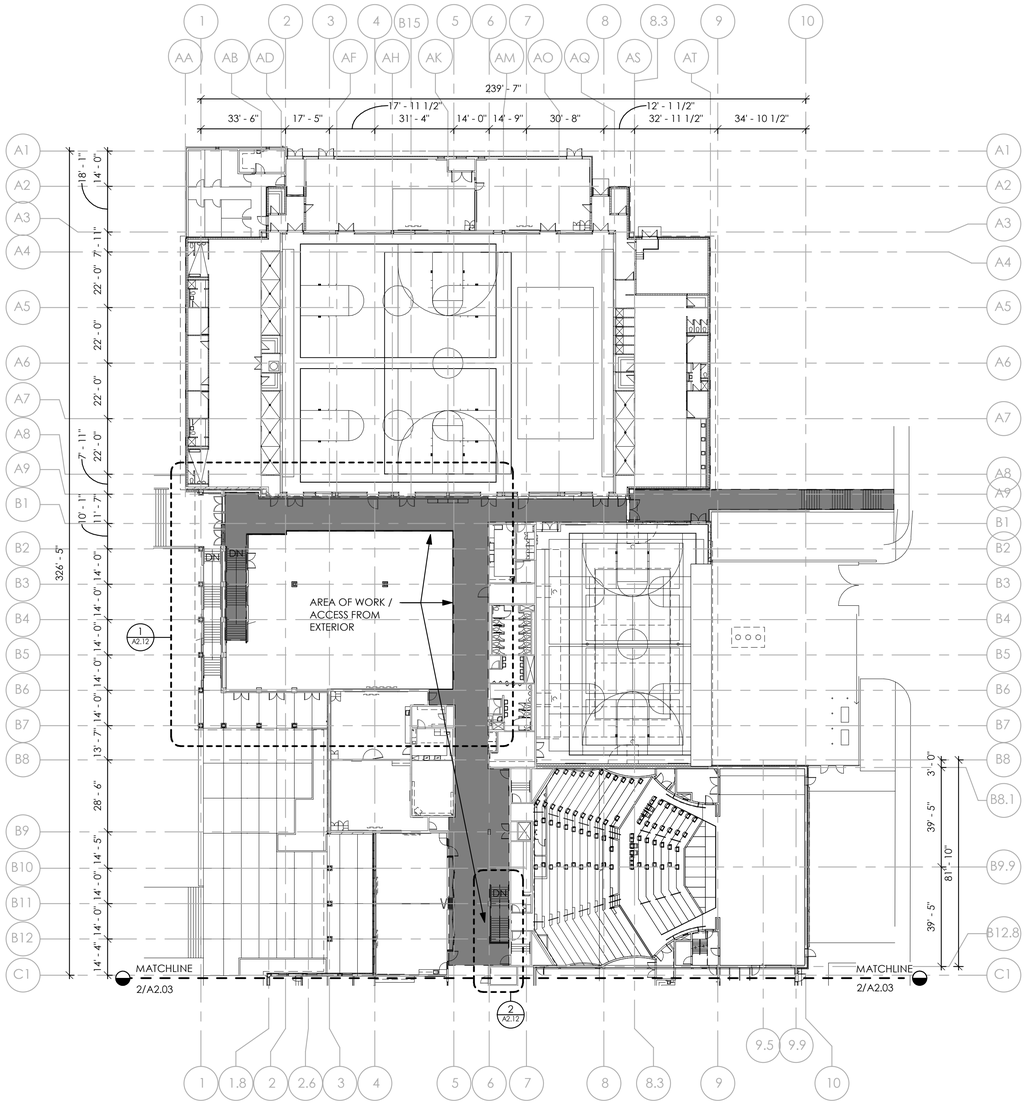
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SHEET NOTES:

A. SEE SHEET A2.01 FOR FLOOR PLAN GENERAL NOTES

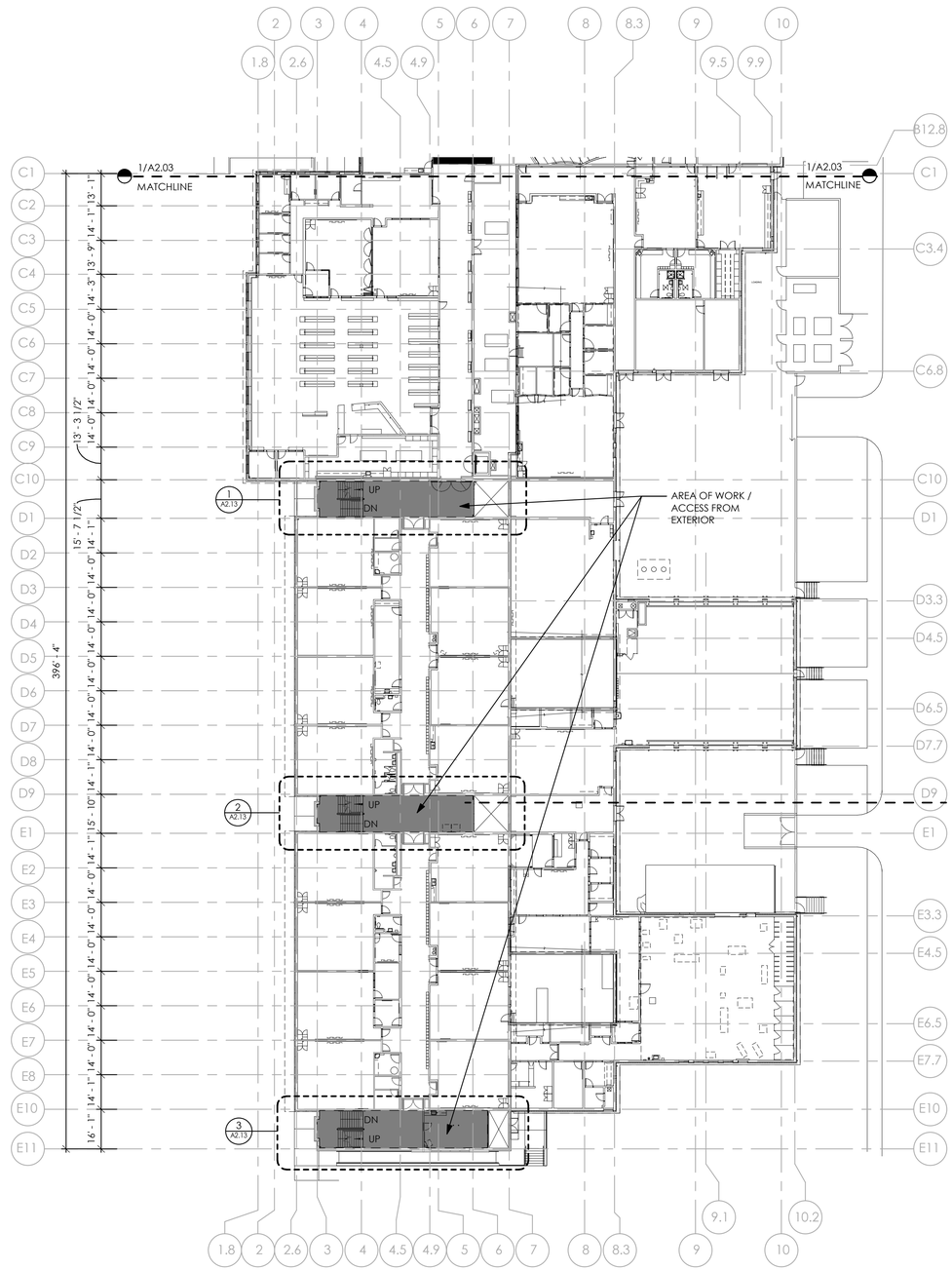
KEYNOTES



1 SECOND FLOOR REFERENCE PLAN - AREA A & B

1" = 30'-0"

NORTH



2 SECOND FLOOR REFERENCE PLAN - AREA C, D & E

1" = 30'-0"

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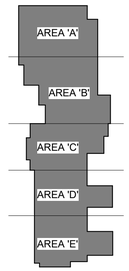
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SECOND FLOOR REFERENCE PLAN

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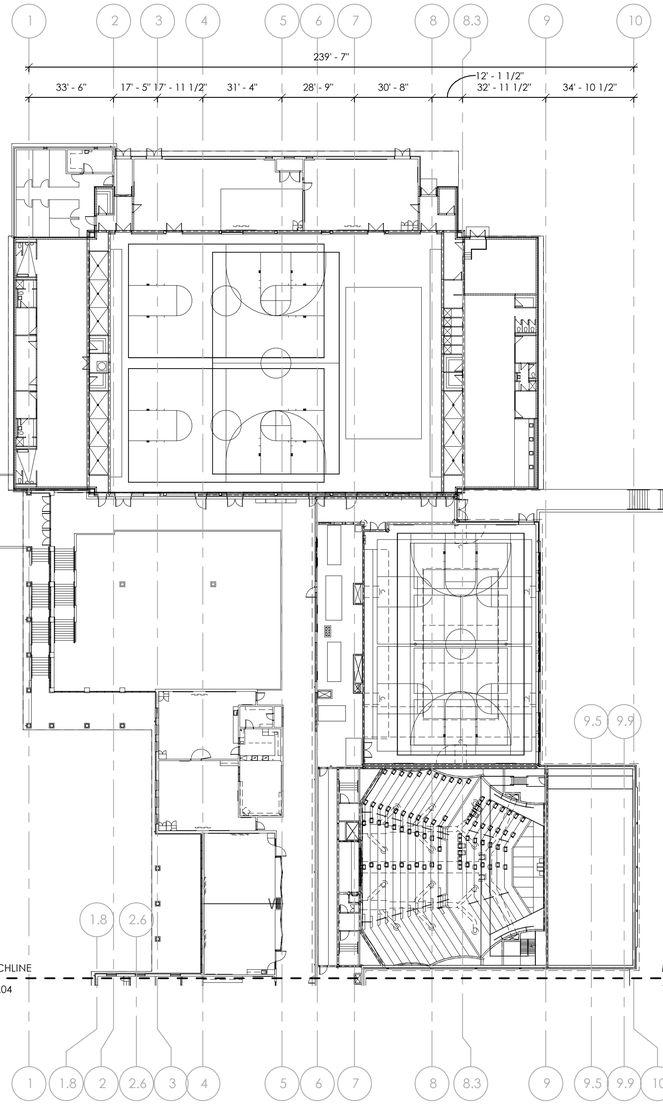
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SHEET NOTES:

A. SEE SHEET A2.01 FOR FLOOR PLAN GENERAL NOTES

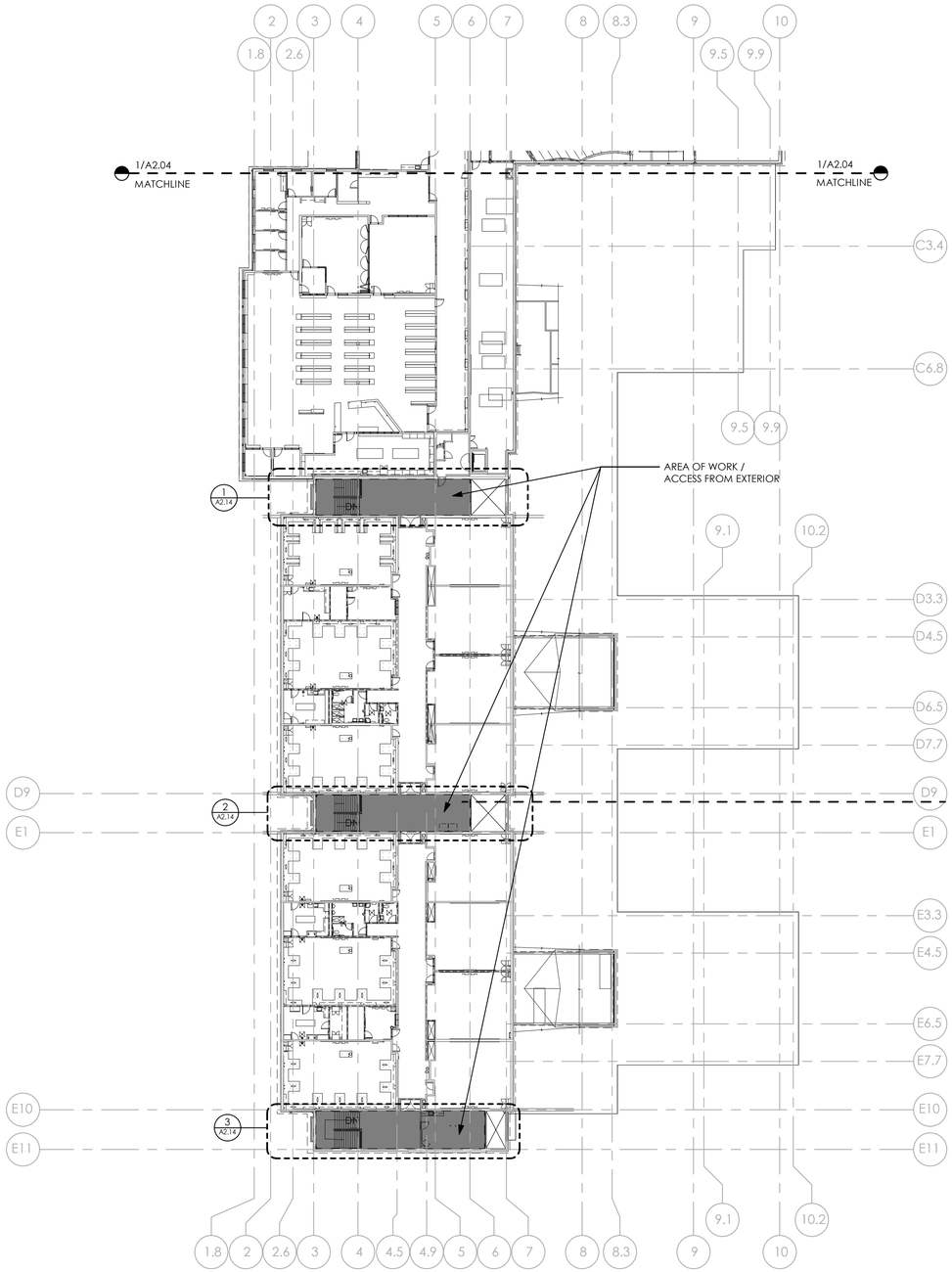
KEYNOTES



1 THIRD FLOOR REFERENCE PLAN - AREA A & B

1" = 30'-0"

NORTH



2 THIRD FLOOR REFERENCE PLAN - AREA C, D & E

1" = 30'-0"

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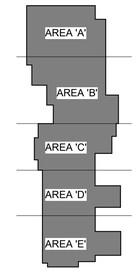
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THIRD FLOOR REFERENCE PLAN

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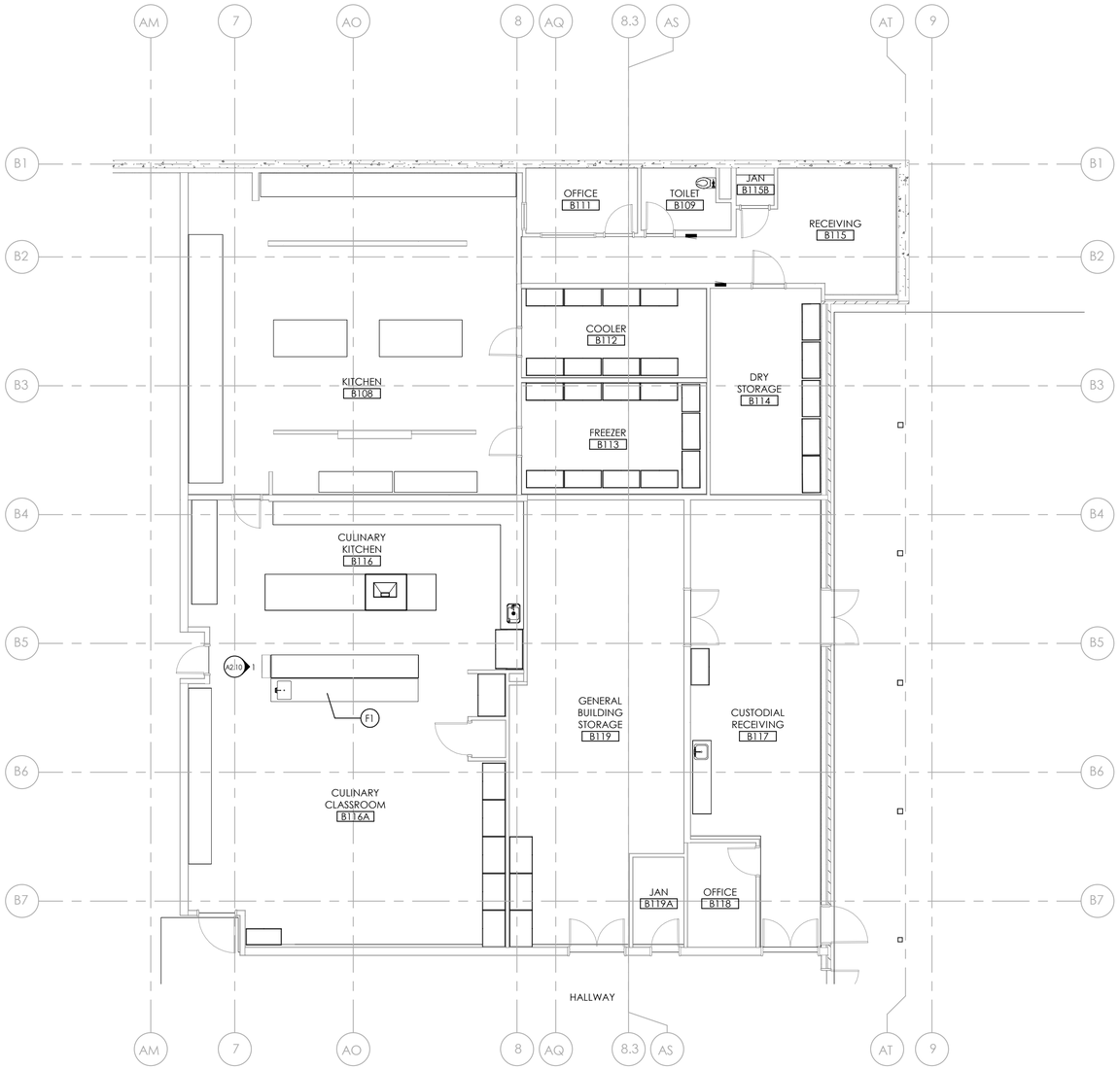
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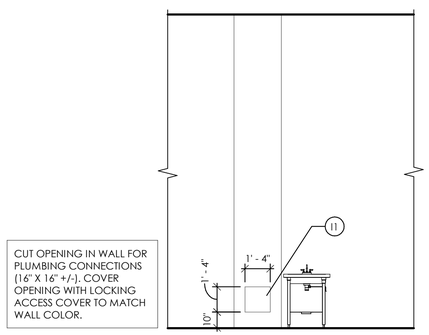
SHEET NOTES:

A.	SEE SHEET A2.01 FOR FLOOR PLAN GENERAL NOTES

KEYNOTES

F1	ADA COMPLIANT COUNTER AND SINK, SEE FS DRAWINGS
I1	ACCESS PANEL





CUT OPENING IN WALL FOR PLUMBING CONNECTIONS (16" X 16" +/-). COVER OPENING WITH LOCKING ACCESS COVER TO MATCH WALL COLOR.

1 E - CULINARY WALL
1/4" = 1'-0"

2 FIRST FLOOR ENLARGED PLAN - CULINARY ROOM
1/8" = 1'-0"

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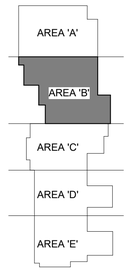
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0 4' 8' 16'

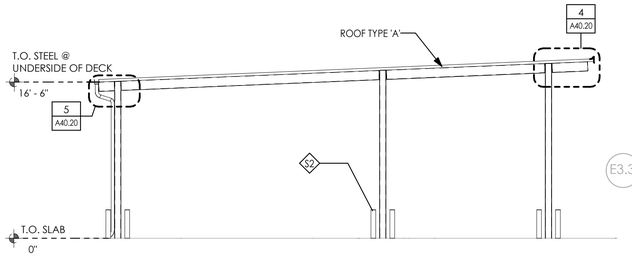
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FIRST FLOOR CULINARY ROOM PLAN

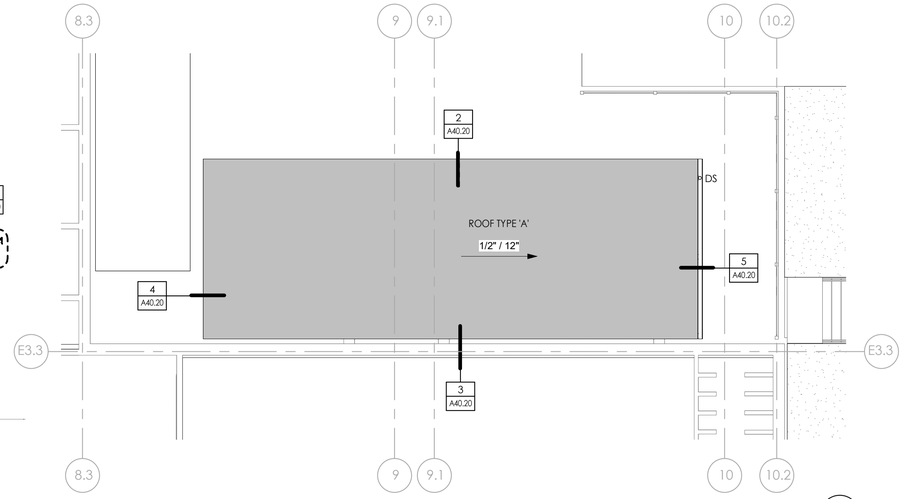
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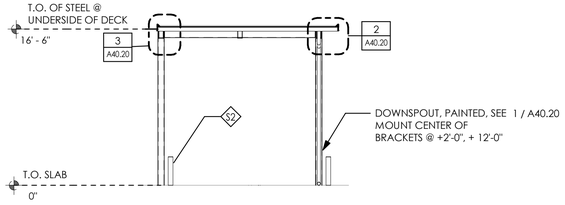


1 NORTH ELEVATION - CANOPY
1/8" = 1'-0"

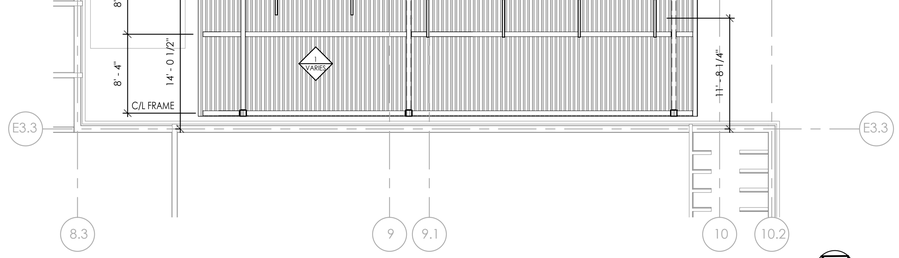


2 CANOPY ROOF PLAN - WOOD SHOP
1/8" = 1'-0"

NORTH

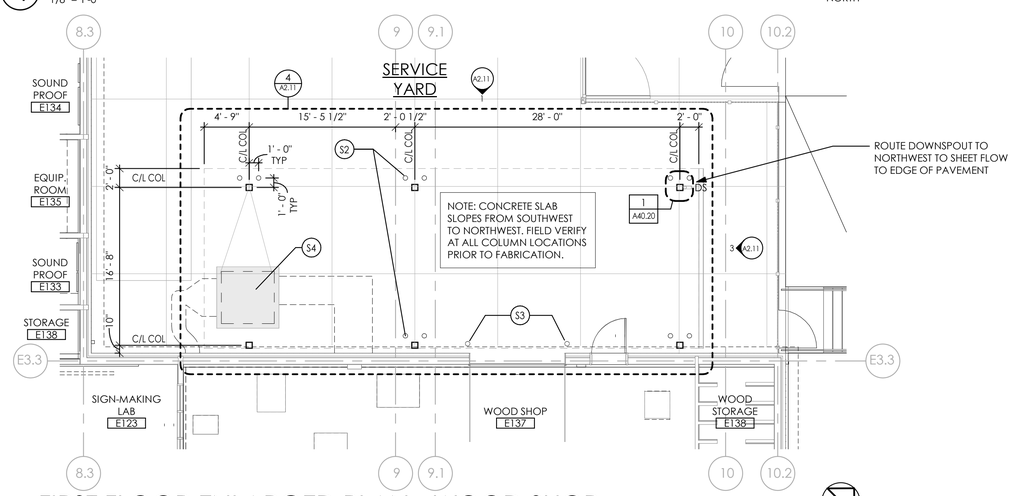


3 EAST ELEVATION - CANOPY
1/8" = 1'-0"



4 REFLECTED CEILING PLAN - WOOD SHOP
1/8" = 1'-0"

NORTH



5 FIRST FLOOR ENLARGED PLAN - WOOD SHOP
1/8" = 1'-0"

NORTH

SHEET NOTES:

A.	SEE SHEET A2.01 FOR FLOOR PLAN GENERAL NOTES

KEYNOTES

S2	ULINE H-6291 FIXED BOLLARDS, FILLED WITH CONCRETE. USE GALV. BOLTS EPOXIED INTO EXISTING CONC. SLAB
S3	EXISTING BOLLARDS
S4	HOUSEKEEPING PAD, EXTEND 6"-8" BEYOND BASE OF DUST COLLECTOR

ROOF PLAN GENERAL NOTES

A. OTHER NOTES: SEE GENERAL NOTES ON G2 SERIES SHEETS FOR ADDITIONAL INFORMATION.

B. POSITIVE ROOF SLOPE: ALL ROOF CONSTRUCTION SHALL PROVIDE POSITIVE SLOPE TO DRAIN IN CONFORMANCE WITH N.R.C.A. PUBLISHED RECOMMENDATIONS. STANDING WATER OR PONDING SHALL NOT BE ACCEPTABLE. NOTE: ALL ROOF SLOPES ON ROOF PLAN ARE SURFACE SLOPE IN DIRECTION OF ARROW, TYP.

C. DOWNSPOUTS: SEE FLOOR PLANS AND EXTERIOR ELEVATIONS FOR EXACT DOWNSPOUT & DOWNSPOUT BRACKET LOCATIONS.

1. PROVIDE TEMPORARY DRAINAGE FROM GUTTERS AWAY FROM BUILDING UNTIL SUCH TIME AS FINAL DOWNSPOUT INSTALLATION.

LEGEND

3-PLY ROOFING
SEE SHEET A40.20

XX"/12" — DIRECTION AND AMOUNT OF DOWNWARD SLOPE OF ROOF SURFACE

REFLECTED CEILING PLAN GENERAL NOTES

A. SEE SHEET G2.01 FOR GENERAL NOTES

B. GENERAL CONTRACTOR SHALL COORDINATE THE WORK OF THE APPLICABLE TRADES TO PROVIDE PROPER LOCATIONS AND INSTALLATION OF CEILING ELEMENTS AND SYSTEMS.

C. MECHANICAL AND ELECTRICAL INFORMATION SHOWN ON ARCHITECTURAL REFLECTED CEILING PLANS IS FOR USE IN LOCATING CEILING MOUNTED FIXTURES, DIFFUSERS, GRILLES, ETC. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR QUANTITIES OF DEVICES AND ALL OTHER RELATED INFORMATION.

D. STRUCTURAL ELEMENTS ARE SHOWN FOR CONTRACTORS CONVENIENCE. SEE STRUCTURAL DRAWINGS FOR ACTUAL SIZES AND SPACING OF SUCH ELEMENTS.

LEGEND

SOFFIT TYPE, SEE A2.11 & A40.20
SOFFIT HEIGHT, FEILD VERIFY
MODIFIER, WHERE APPLICABLE

SURFACE MOUNTED
EXTERIOR LIGHT
FIXTURE (SEE
ELECTRICAL)

CEILING & SOFFIT TYPES

1 — METAL DECKING, PAINTED

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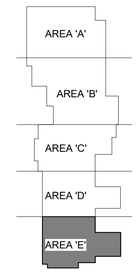
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Keyplan



NOTE: DRAWING MAY BE REDUCED
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Sheet Title
FIRST FLOOR WOOD SHOP PLAN

A2.11
Sheet Number Of

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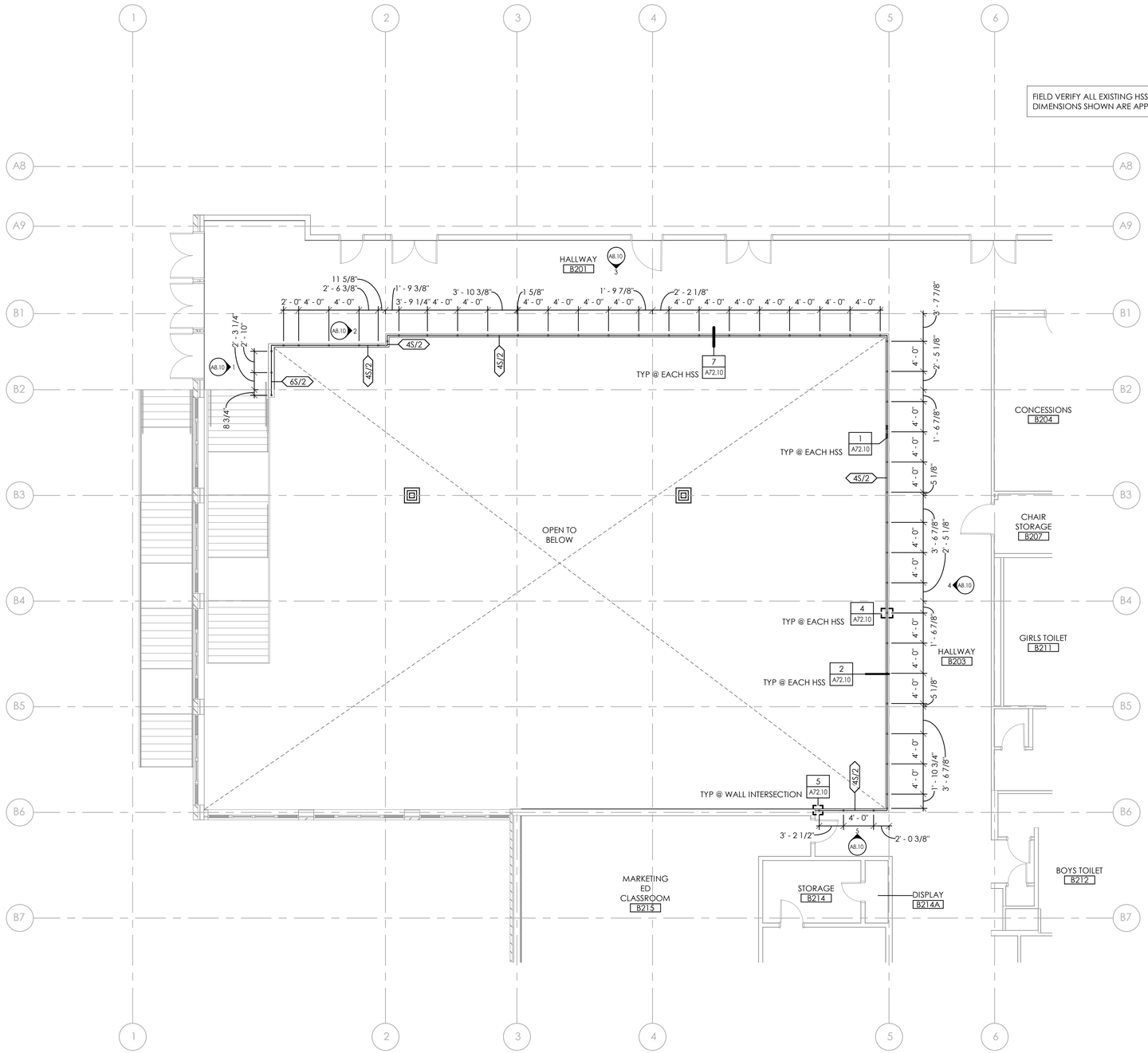
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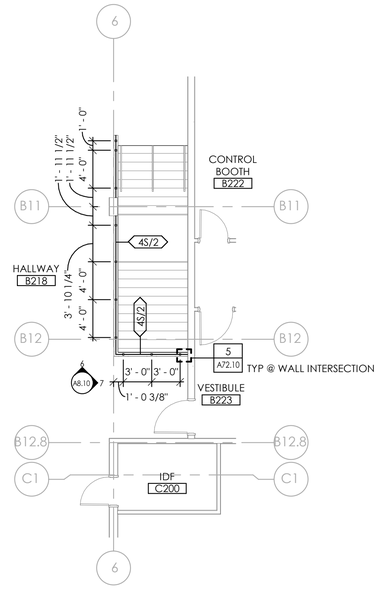
SHEET NOTES:

A. SEE SHEET A2.01 FOR FLOOR PLAN GENERAL NOTES

KEYNOTES

FIELD VERIFY ALL EXISTING HSS IN FIELD. DIMENSIONS SHOWN ARE APPROXIMATE.





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

NORTH

2 SECOND FLOOR ENLARGED PLAN - AREA B
1/8" = 1'-0"

NORTH

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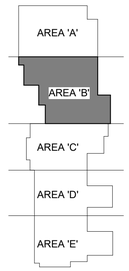
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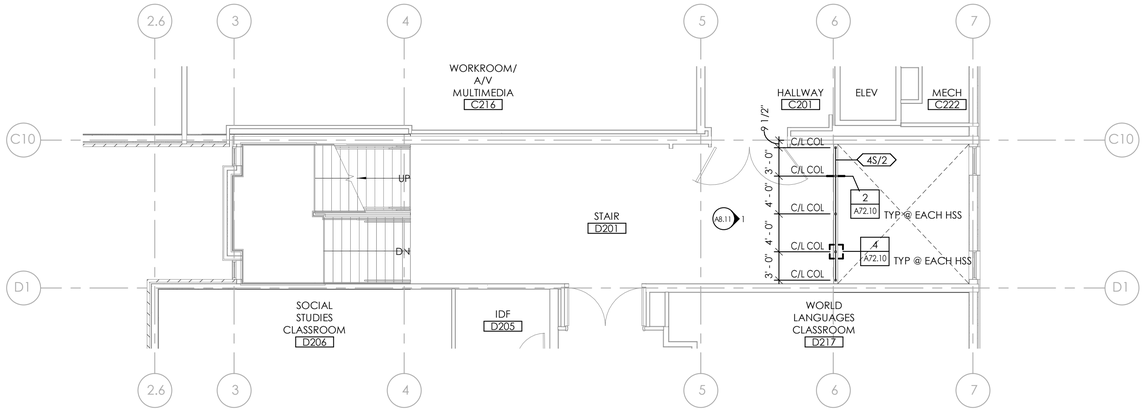
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Sheet Title
SECOND FLOOR GUARDRAIL PLAN

A2.12
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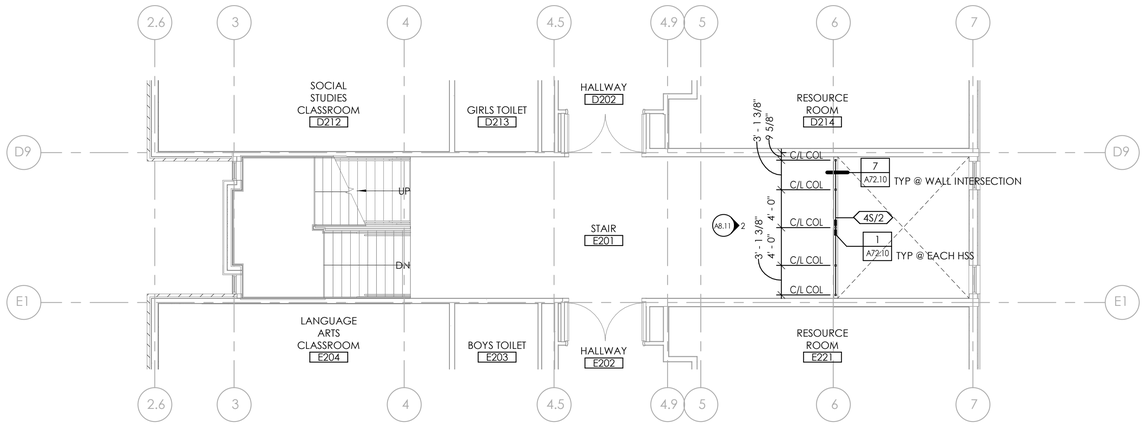
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1 SECOND FLOOR ENLARGED PLAN - STAIRS AREA C

1/8" = 1'-0"

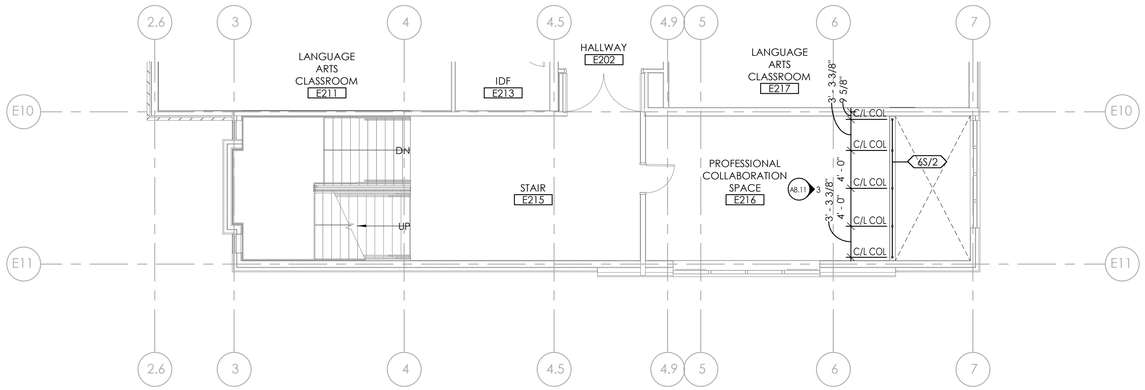
NORTH



2 SECOND FLOOR ENLARGED PLAN - STAIRS AREA D

1/8" = 1'-0"

NORTH



3 SECOND FLOOR ENLARGED PLAN - STAIRS AREA E

1/8" = 1'-0"

NORTH

FIELD VERIFY ALL EXISTING HSS IN FIELD. DIMENSIONS SHOWN ARE APPROXIMATE.

SHEET NOTES:

A. SEE SHEET A2.01 FOR FLOOR PLAN GENERAL NOTES

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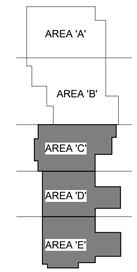
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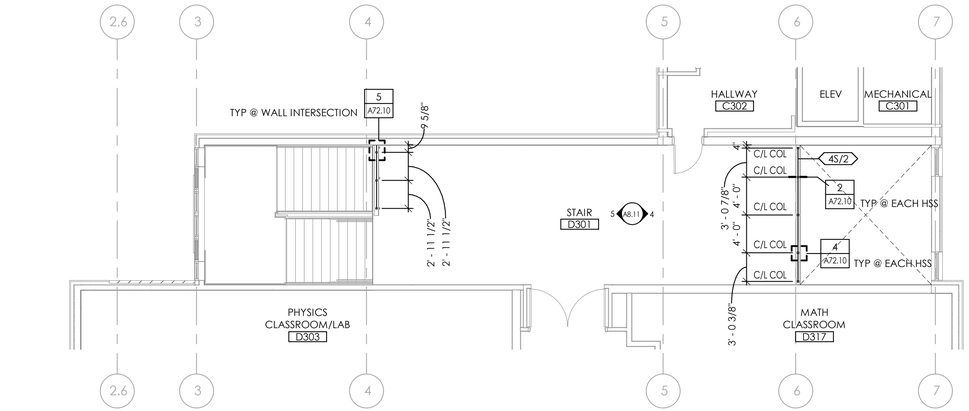
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SECOND FLOOR GUARDRAIL PLAN

A2.13
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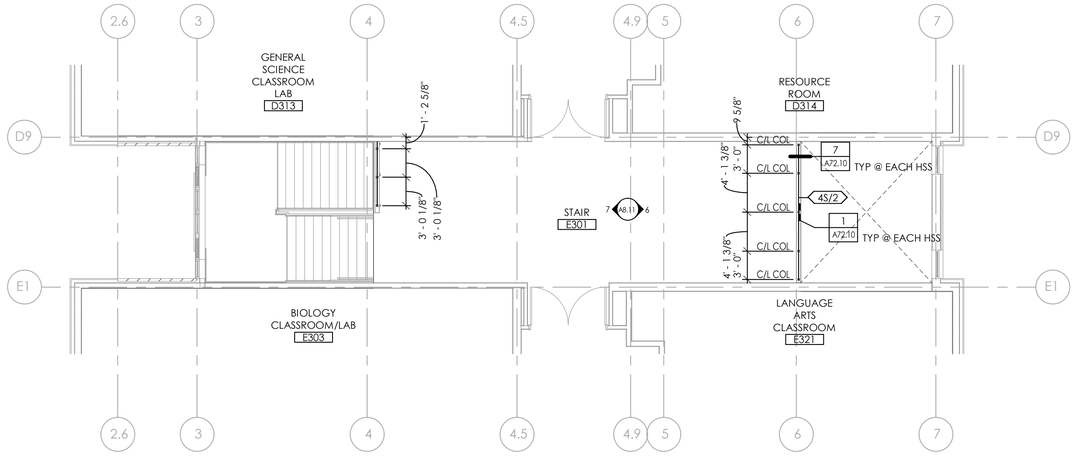
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1 FP3 - ENLARGED AREA R1.2

1/8" = 1'-0"

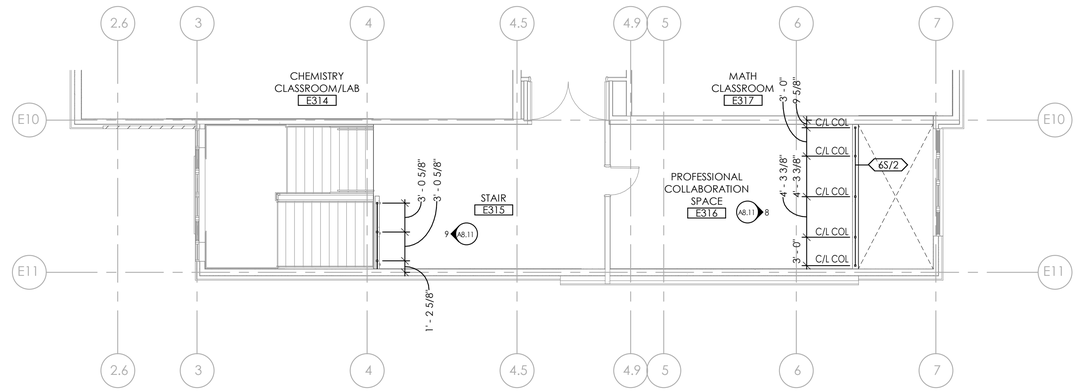
NORTH



2 FP3 - ENLARGED AREA R1.3

1/8" = 1'-0"

NORTH



3 FP3 - ENLARGED AREA R1.4

1/8" = 1'-0"

NORTH

FIELD VERIFY ALL EXISTING HSS IN FIELD. DIMENSIONS SHOWN ARE APPROXIMATE.

SHEET NOTES:

A. SEE SHEET A2.01 FOR FLOOR PLAN GENERAL NOTES

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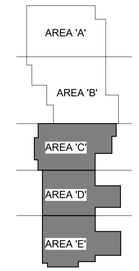
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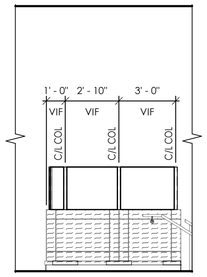
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THIRD FLOOR GUARDRAIL PLAN

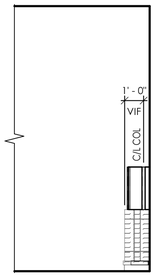
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1 B201 HALLWAY GUARDRAIL - W
1/4" = 1'-0"



2 B201 HALLWAY GUARDRAIL - W2
1/4" = 1'-0"

FIELD VERIFY ALL EXISTING HSS IN FIELD. DIMENSIONS SHOWN ARE APPROXIMATE.

LEGEND & ABBREVIATIONS

- SECTION CUT
- EXIST, MDF WAINSCOT

GENERAL NOTES

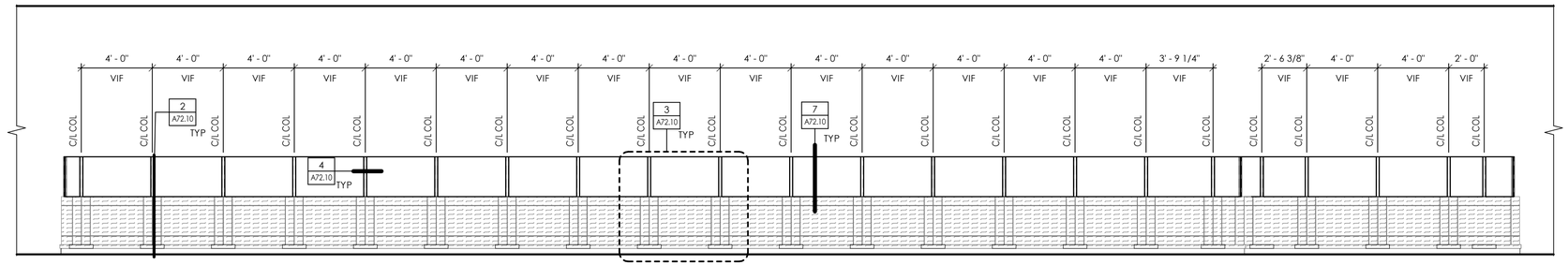
A. SEE GENERAL NOTES & ABBREVIATIONS ON G2.01

B. ALL TRADES TO COORDINATE THEIR WORK TO ACHIEVE LAYOUTS AS SHOWN ON INTERIOR ELEVATIONS

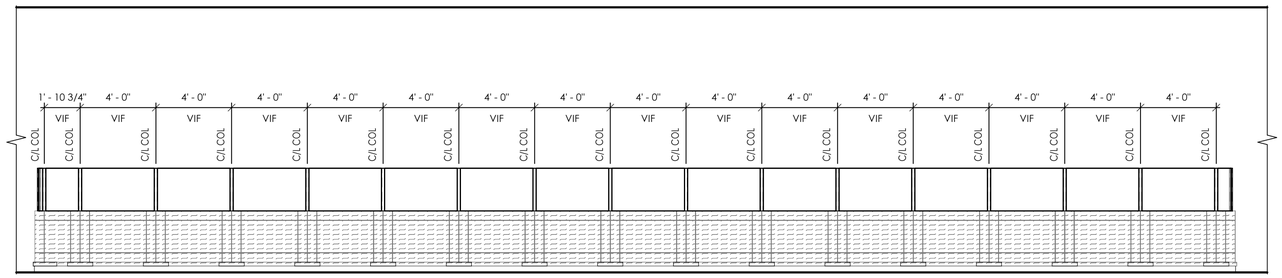
C. DIMENSIONS ARE TYPICALLY TO FINISHED SURFACES, UNLESS NOTED OTHERWISE. COORDINATE WITH FINISH MATERIAL THICKNESS AND FRAMING REQUIREMENTS

D. PROVIDE BACKING AND BLOCKING IN WALLS AS REQUIRED FOR MISCELLANEOUS WALL MOUNTED ITEMS, INCLUDING OFCI ITEMS, OFOI ITEMS, AND ALL ELECTRICAL ITEMS (SEE ELECTRICAL DRAWINGS). SEE REQUIREMENTS IN SPECIFICATIONS AND ON THE STRUCTURAL DRAWINGS

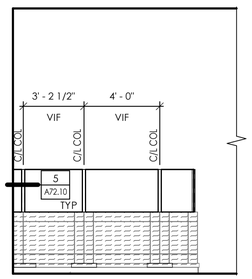
E. SEE A72 SERIES SHEETS FOR TYPICAL WAINSCOT DETAILS.



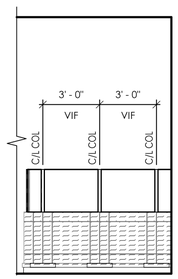
3 B201 HALLWAY GUARDRAIL - N
1/4" = 1'-0"



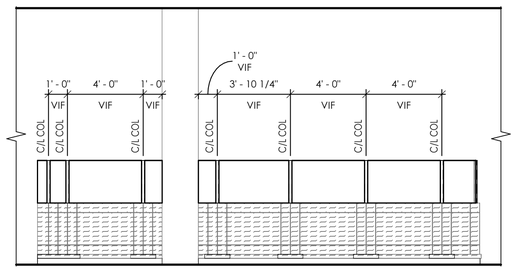
4 B203 HALLWAY GUARDRAIL - E
1/4" = 1'-0"



5 B203 HALLWAY GUARDRAIL -S
1/4" = 1'-0"



6 B218 GUARDRAIL - S
1/4" = 1'-0"



7 B218 GUARDRAIL - W
1/4" = 1'-0"

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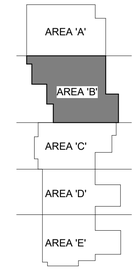
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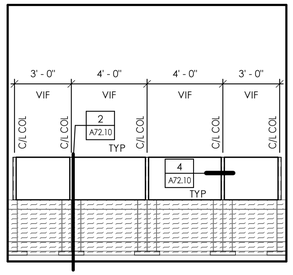
Sheet Title
INTERIOR ELEVATIONS

A8.10
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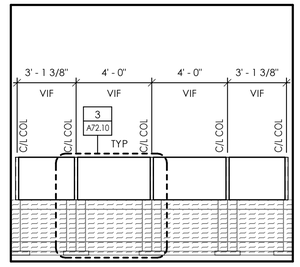
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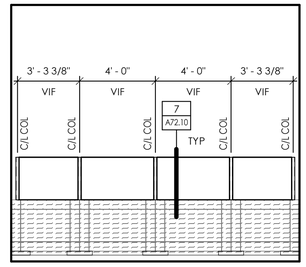
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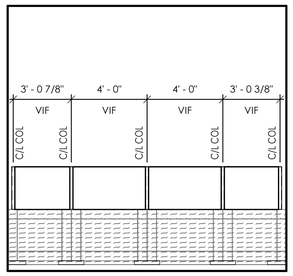
1 D201 STAIRS GUARDRAIL - E
1/4" = 1'-0"



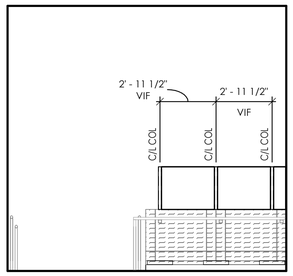
2 E201 STAIRS GUARDRAIL - E
1/4" = 1'-0"



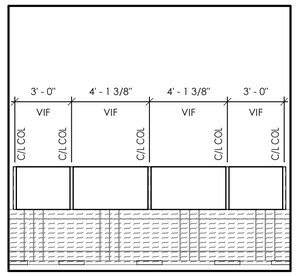
3 E215 STAIRS GUARDRAIL - E
1/4" = 1'-0"



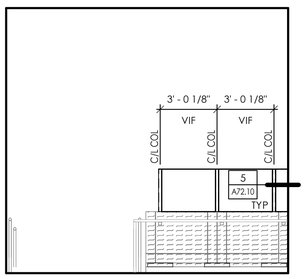
4 D301 STAIRS GUARDRAIL - E
1/4" = 1'-0"



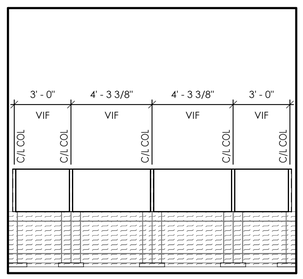
5 D301 STAIRS GUARDRAIL - W
1/4" = 1'-0"



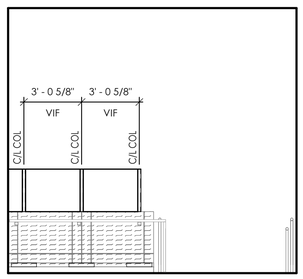
6 E301 STAIRS GUARDRAIL - E
1/4" = 1'-0"



7 E301 STAIRS GUARDRAIL - W
1/4" = 1'-0"



8 E315 STAIRS GUARDRAIL - E
1/4" = 1'-0"



9 E315 STAIRS GUARDRAIL - W
1/4" = 1'-0"

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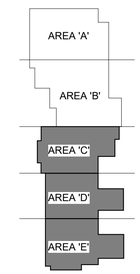
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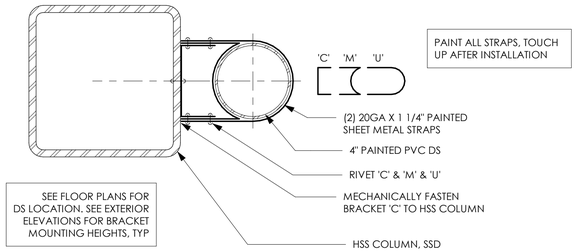
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INTERIOR ELEVATIONS

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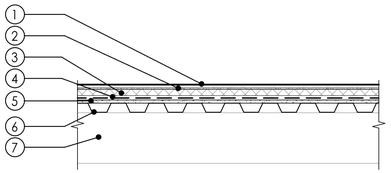
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1 DOWNSPOUT BRACKET PLAN

3" = 1'-0"



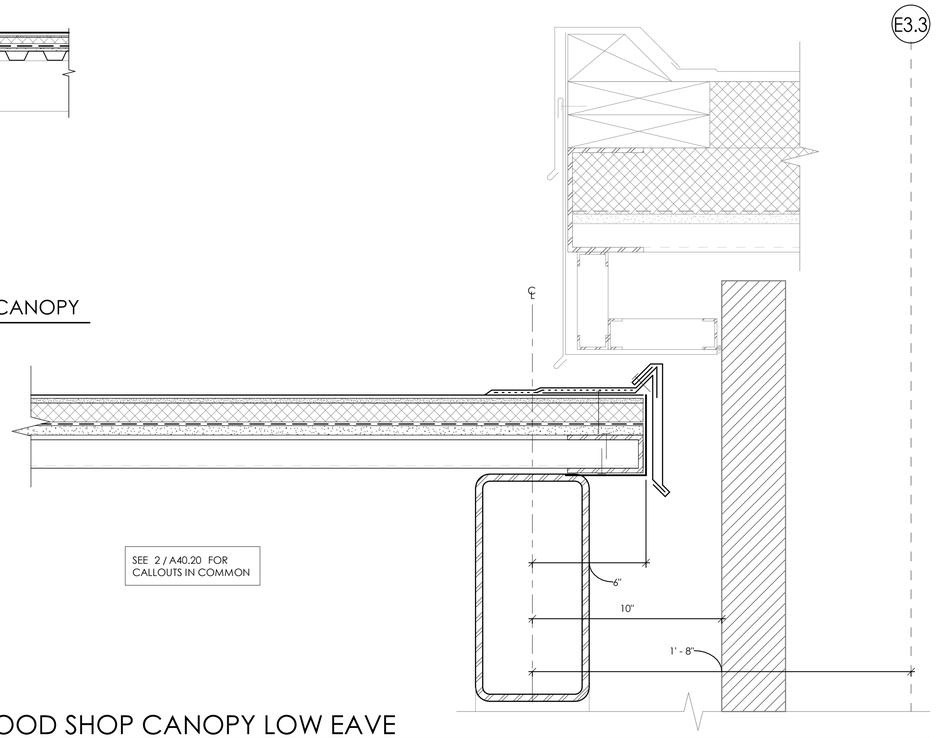
ASSEMBLY

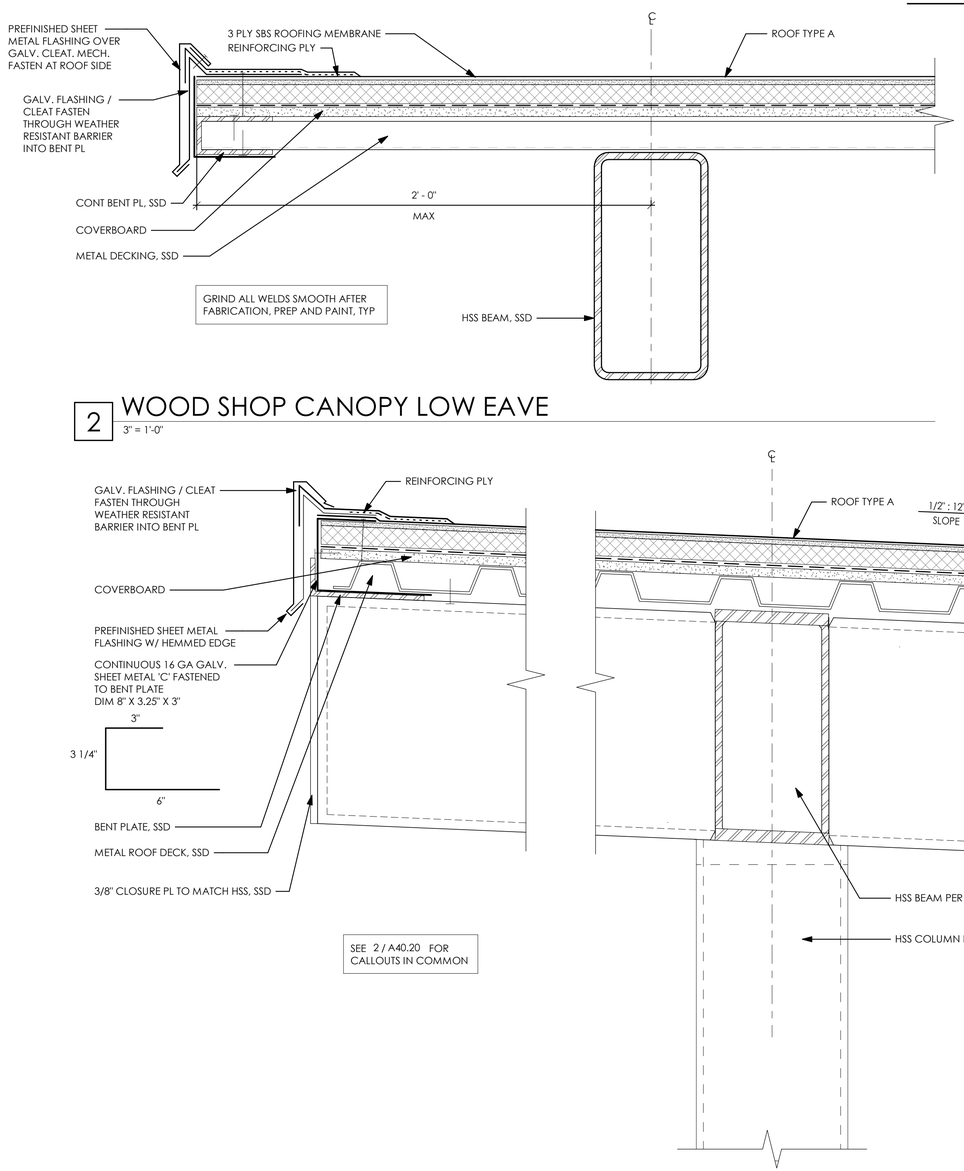
1. 3 PLY SBS MEMBRANE ROOFING
2. SUBSTRATE BOARD
3. 1" RIGID INSULATION
4. VAPOR RETARDER / INTERIM ROOFING
5. 1/2" COVERBOARD
6. 18 GA 1-1/2" B METAL DECKING, SSD
7. HSS CANOPY FRAMING, SSD

FIRE RATING

1. NON-RATED

ROOF TYPE 'A' - WOOD SHOP CANOPY



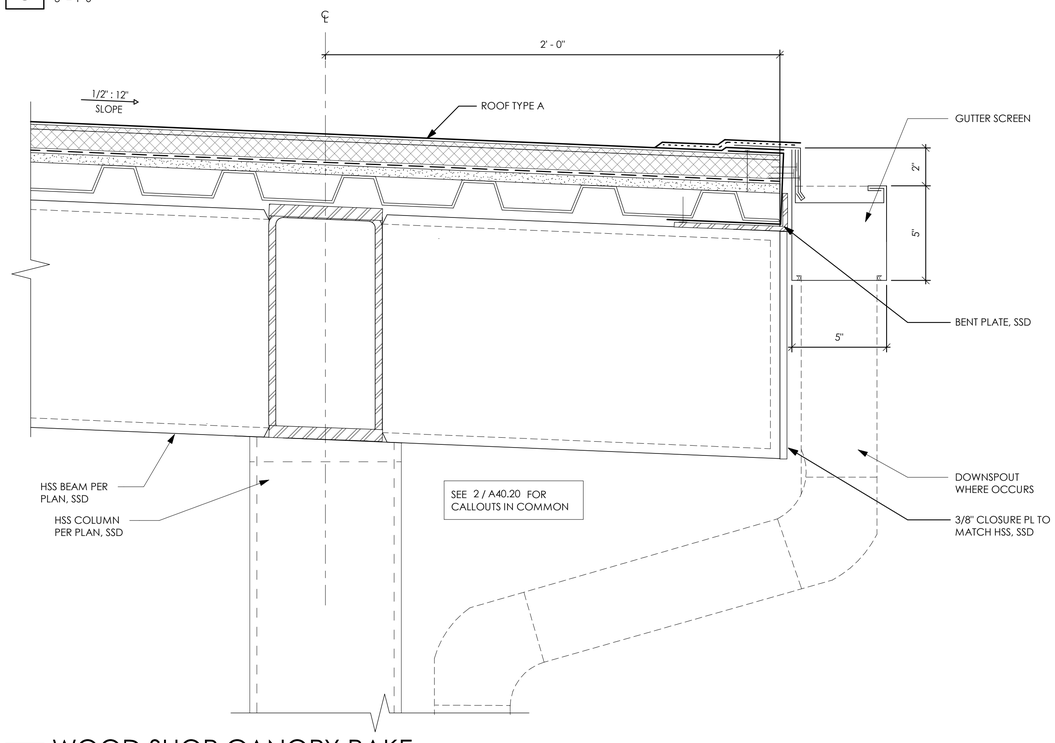


2 WOOD SHOP CANOPY LOW EAVE

3" = 1'-0"

3 WOOD SHOP CANOPY LOW EAVE

3" = 1'-0"



4 WOOD SHOP CANOPY HIGH EAVE

3" = 1'-0"

5 WOOD SHOP CANOPY RAKE

3" = 1'-0"

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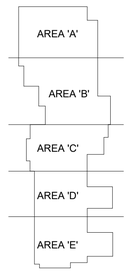
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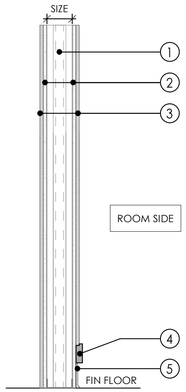
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Checked By AH

Sheet Title
CANOPY ROOF TYPE & DETAILS

A40.20
Sheet Number Of

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CONSTRUCTION

1. EXISTING 2" X 2" X 1/4" HSS
2. EXISTING 5/8" GB - GYPSUM BOARD. VIF. (1) LAYER ON ROOM SIDE OF WALL AND OPPOSITE SIDE.
3. EXISTING 1/2" MDF PANELS - 4'-0" WIDE MODULES W/ 1/4" RADIUS EDGES, TYP. ADHERE TO GYP BD. TYP. CLEAR STAIN. MATCH EXISTING CONDITIONS.
4. INFILL MDF TRIM AT LOCATIONS OF ANCHOR INSTALL. SSD. PAINT TO MATCH EXISTING.
5. NEW RUBBER BASE ON ROOM SIDE.

FIRE RATING

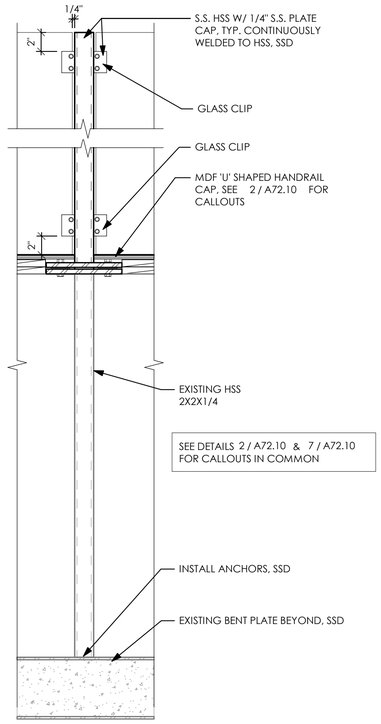
1. NON-RATED

SOUND

1. NON-RATED

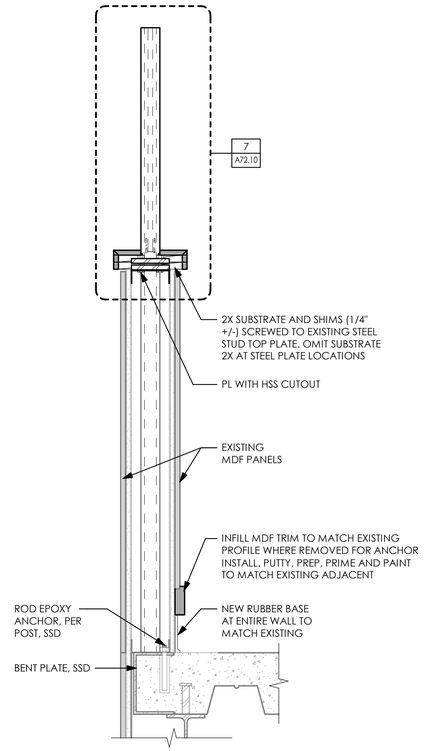
INTERIOR WALL TYPE

45/2



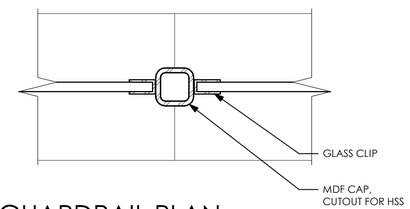
1 GUARDRAIL SECTION

1 1/2" = 1'-0"



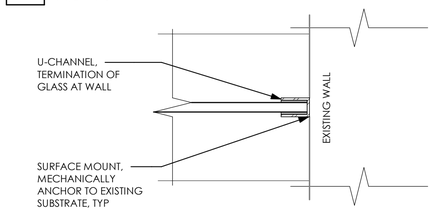
2 GUARDRAIL SECTION

1 1/2" = 1'-0"



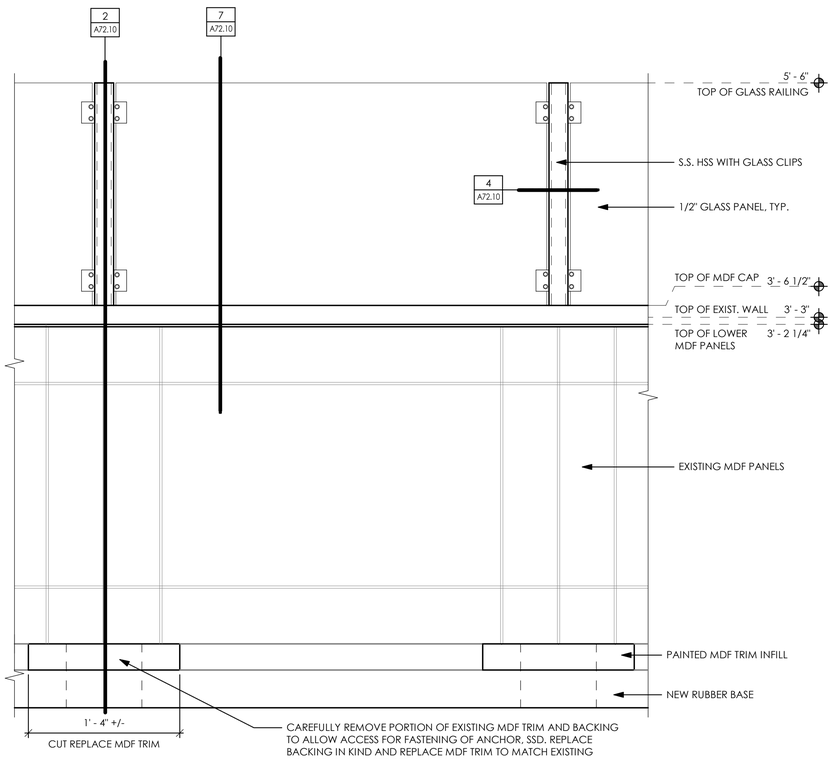
4 GUARDRAIL PLAN

3" = 1'-0"



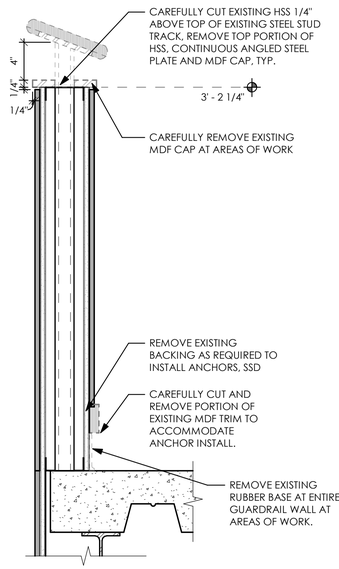
5 GUARDRAIL PLAN - TERMINATION AT WALL

3" = 1'-0"



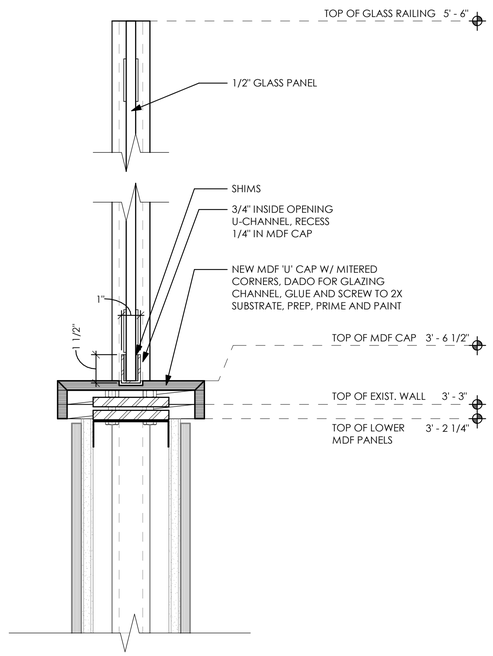
3 GUARDRAIL ELEVATION

1 1/2" = 1'-0"



6 GUARDRAIL DEMO SECTION

1 1/2" = 1'-0"



7 GUARDRAIL U CHANNEL SECTION

3" = 1'-0"

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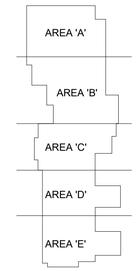
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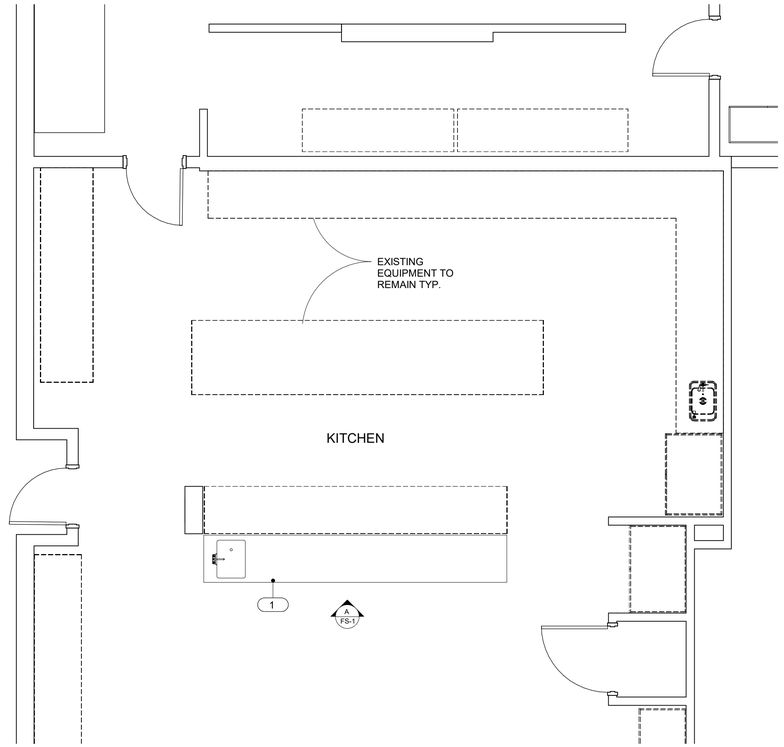
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INTERIOR DETAILS

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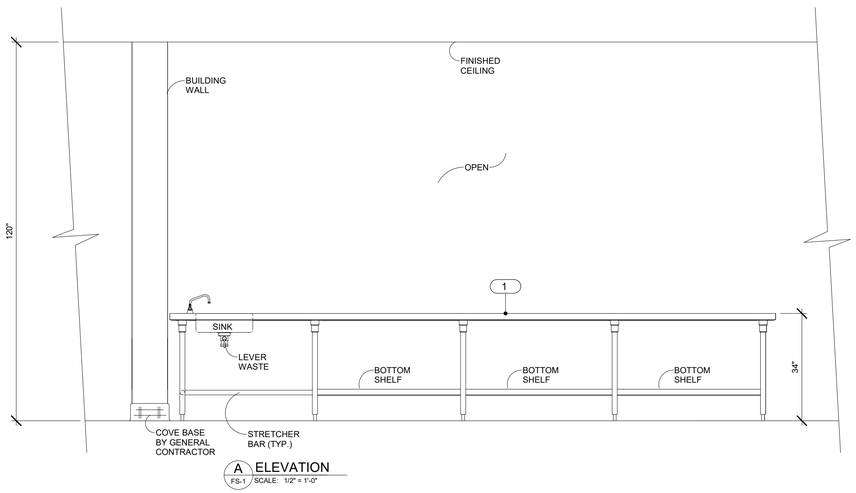
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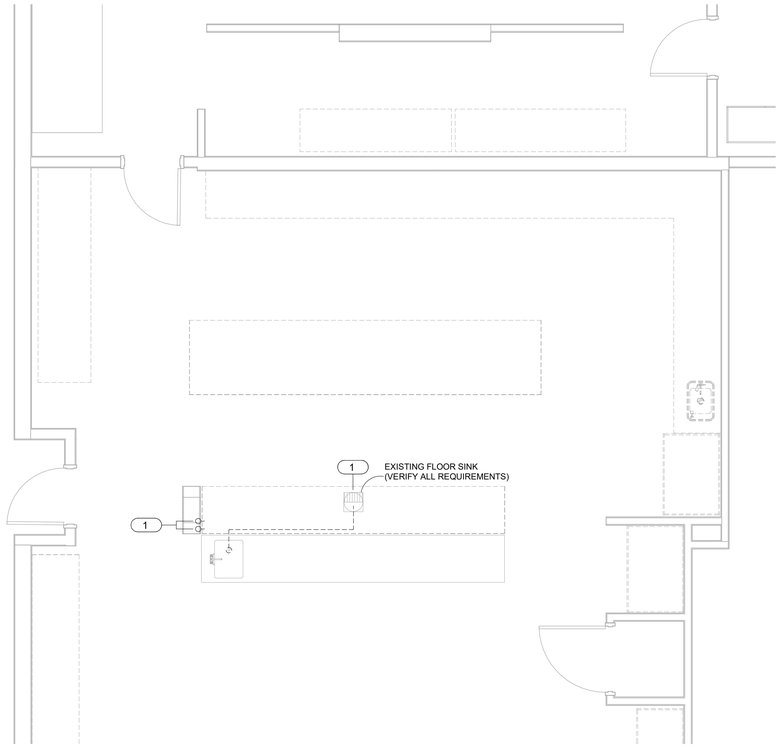
EQUIPMENT SCHEDULE														
ITEM	QTY	DESCRIPTION	MANUFACTURER	MODEL	HW SIZE	AFF	HW GPH	CW SIZE	AFF	WASTE TYPE	DIA	AFF	PLUMBING COMMENTS	ITEM
1	1	WORKTABLE W/ADA SINK	CUSTOM FABRICATED	CUSTOM	1/2"	12"	10	1/2"	12"	FS	1 1/2"			1



1 EQUIPMENT PLAN
1/4" = 1'-0"



A FS-1 ELEVATION
SCALE: 1/2" = 1'-0"



2 PLUMBING PLAN
1/4" = 1'-0"

PLUMBING NOTES

1. PLUMBING PLANS SHOW ROUGH-IN POINTS AND SCHEDULED CONNECTIONS. KITCHEN EQUIPMENT CONTRACTOR WILL PROVIDE DIMENSIONED ROUGH-IN DRAWING FOR CONSTRUCTION.
2. PLUMBING DIVISION SHALL FURNISH AND INSTALL ALL NECESSARY VALVES, TRAPS, TAIL PIECES, LINE STRAINERS, WATER PRESSURE REDUCING VALVES (SINGLE AND/OR DUAL CHECK VALVES) AND VACUUM BREAKERS AND CONNECT ALL WATER AND WASTE LINES TO FOOD SERVICE EQUIPMENT.
3. PLUMBING DIVISION SHALL INSTALL AND CONNECT ALL FAUCETS FURNISHED BY KEC.
4. PLUMBING DIVISION TO PROVIDE ADEQUATE CLEAN-OUT FOR DRAIN LINES.
5. FLOOR SINKS SHALL BE INSTALLED FLUSH WITH FINISH FLOOR OR PER LOCAL CODE WITH GRATE COVER AS INDICATED.
6. FLOOR DRAINS INDICATED ARE FOR FOOD AREAS ONLY. ADDITIONAL GENERAL PURPOSE AREA DRAINS SHALL BE LOCATED BY THE PLUMBING ENGINEER/ ARCHITECT.

NOTE

ALL WALL MOUNT PLUMBING UTILITIES ARE TO BE FLUSH MOUNTED IN WALLS WITH NO EXPOSED PIPING SHOWING ON SURFACE OF WALLS. ARCHITECT TO PROVIDE MINIMUM WALL FURRING IF REQUIRED.

NOTE

KITCHEN EQUIPMENT CONTRACTOR TO VERIFY AND COORDINATE PROPER LOCATION AND SIZE OF GENERAL CONTRACTOR FURNISHED STRUCTURAL PENETRATIONS AND PLUMBING DIVISION FURNISHED SLEEVES THRU FLOOR.

PLUMBING SYMBOLS

- HW-HOT WATER, OR CW-COLD WATER
- EYE WASH
- WASTE, DIRECT-CONNECTED UNLESS NOTED "OPEN HUB"
- INDIRECT WASTE
- FLOOR DRAIN
- FLOOR DRAIN WITH FUNNEL
- HUB DRAIN
- DRAIN IN FLOOR RECESS, CONNECT TO GENERAL CONTR. DRAIN PAN
- FLOOR SINK WITH HALF GRATE UNLESS NOTED OTHERWISE
- FLOOR SINK WITH FUNNEL GRATE

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THIS DRAWING IS INTENDED FOR INFORMATION PURPOSES ONLY FOR USE BY THE ARCHITECT AND ENGINEERS TO PREPARE THEIR DOCUMENTS. SEE APPROVED KITCHEN EQUIPMENT CONTRACTOR ROUGH-IN DRAWINGS FOR CONSTRUCTION

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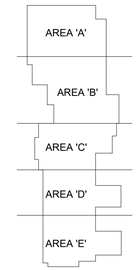
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Drawn By DA
Checked By DH

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EQUIPMENT PLAN & PLUMBING ROUGH-INS

FS-1
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GENERAL NOTES:

I. GENERAL

1. MATERIALS AND WORKMANSHIP TO CONFORM WITH THE 2021 EDITION OF THE INTERNATIONAL BUILDING CODE, WITH STATE OF WASHINGTON AMENDMENTS AND THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.
2. THESE GENERAL NOTES SUPPLEMENT THE REQUIREMENTS OF THE PROJECT SPECIFICATIONS. IN CASE OF CONFLICT BETWEEN THE PLANS AND SPECIFICATIONS, CONTACT THE SEOR.
3. DRAWINGS INDICATE GENERAL AND TYPICAL DETAILS OF CONSTRUCTION. WHERE CONDITIONS ARE NOT SPECIFICALLY INDICATED BUT ARE OF SIMILAR CHARACTER TO DETAILS SHOWN, USE SIMILAR DETAILS OF CONSTRUCTION, SUBJECT TO REVIEW BY THE SEOR.
4. DETAILS ON SHEETS TITLED "TYPICAL DETAILS" APPLY TO SITUATIONS OCCURRING ON THE PROJECT THAT ARE THE SAME OR SIMILAR TO THOSE SPECIFICALLY REFERENCED. SUCH DETAILS ARE NOT NOTED AT EACH LOCATION THAT THEY OCCUR.
5. DO NOT SCALE THE DRAWINGS.
6. PROVIDE MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION. SUCH MEASURES INCLUDE, BUT MAY NOT BE LIMITED TO, BRACING AND SHORING FOR LOADS DURING CONSTRUCTION. RETAIN A REGISTERED CIVIL ENGINEER WHO IS PROPERLY QUALIFIED TO DESIGN BRACING, SHORING, ETC. VISITS TO THE SITE BY THE SEOR WILL NOT INCLUDE OBSERVATION OF THE ABOVE NOTED ITEMS.
7. INFORMATION SHOWN ON THE DRAWINGS RELATED TO EXISTING CONDITIONS REPRESENTS THE PRESENT KNOWLEDGE, BUT WITHOUT GUARANTEE OF ACCURACY. REPORT CONDITIONS THAT CONFLICT WITH THE CONTRACT DOCUMENTS TO THE OWNER'S REPRESENTATIVE. DO NOT DEVIATE FROM THE CONTRACT DOCUMENTS WITHOUT WRITTEN DIRECTION FROM THE OWNER'S REPRESENTATIVE.
8. REFER TO ARCHITECTURAL DRAWINGS FOR SIZE AND LOCATION OF FLOOR, ROOF AND WALL OPENINGS NOT SHOWN ON THE STRUCTURAL DRAWINGS. COORDINATE THE SIZE AND LOCATION OF OPENINGS ASSOCIATED WITH, BUT NOT LIMITED TO, ELECTRICAL, MECHANICAL AND PLUMBING TRADES. SUBMIT FINAL SIZING AND LOCATION REQUIREMENTS OF OPENINGS TO THE OWNER'S REPRESENTATIVE, FOR REVIEW.
9. REFERENCE DATUM FOR THE ELEVATIONS IS FINISH FIRST FLOOR PER ARCH DRAWINGS.

II. STRUCTURAL STEEL

1. STRUCTURAL STEEL TO CONFORM TO THE FOLLOWING UNLESS OTHERWISE NOTED:

SECTIONS	TYPE
ROLLED SHAPES:	
WIDE FLANGES, CHANNELS	ASTM A992
ANGLES, & OTHER	ASTM A572, GR 50
PLATES:	
ALL	ASTM A572, GR 50
COLD FORMED STRUCTURAL TUBING (HSS)	ASTM A500 GRADE C
STAINLESS STEEL SHAPES, PLATES & BARS	ASTM A276, TYPE 304L
BOLTS	ASTM F3125: GRADE A325X, F1852X
MACHINE BOLTS	ASTM A307, GRADE A
ANCHOR RODS	F1554 GRADE 36
ALL-THREAD ROD AND THRU BOLTS	ASTM A36
HIGH STRENGTH ALL-THREAD ROD	ASTM A193 B7, GR105
NUTS FOR BOLTS AND MACHINE BOLTS	ASTM A563
STAINLESS STEEL NUTS	ASTM A194 GR8M
HARDENED WASHERS FOR BOLTS	ASTM F436
UNHARDENED FLAT WASHERS	ASTM F844, ANSI B18.22.1
STAINLESS STEEL WASHERS	ASTM A276, TYPE 304
BEVELED WASHERS	ANSI B18.23.1

2. HOT DIP GALVANIZE IN ACCORDANCE WITH ASTM A123 AND ASTM A153 STRUCTURAL STEEL AND FASTENERS THAT ARE PERMANENTLY EXPOSED TO THE WEATHER. REPAIR GALVANIZING AFTER WELDING IN ACCORDANCE WITH ASTM A780. HOT-DIP GALVANIZE ASTM F1554 RODS IN ACCORDANCE WITH ASTM F2329.
3. STRUCTURAL STEEL AND CONNECTIONS EXPOSED TO VIEW IN THE COMPLETED BUILDING ARE DESIGNATED ARCHITECTURALLY EXPOSED STRUCTURAL STEEL (AESS).
4. ARC-WELDING ELECTRODES/FILLER METALS TO BE LOW HYDROGEN TYPES E7XTX, E7XTXX OR E70XXX MINIMUM AS APPLICABLE. ELECTRODES WITH CHARPY V-NOTCH TESTS VALUES OF A MINIMUM 20 FOOT-POUNDS AT 0 DEGREES FAHRENHEIT AND 40 FOOT- POUNDS AT 70 DEGREES FAHRENHEIT ARE TO BE USED AT ALL WELDS OF THE SEISMIC FORCE RESISTING SYSTEM (SFRS), WHERE DESIGNATED "DCW" ON THE DRAWINGS AND THE FOLLOWING LOCATIONS:
   A. COMPLETE JOINT PENETRATION WELDS.
   B. BEAM TO COLUMN MOMENT CONNECTIONS – INCLUDING FLANGE, WEB, DOUBLER PLATES, BASE PLATES, AND CONTINUITY PLATE FILLET AND PARTIAL JOINT PENETRATION WELDS.
   C. BRACE CONNECTIONS – INCLUDING BRACE, GUSSET, BASE PLATES, BEAM STIFFENER PLATES, AND CONTINUITY PLATE FILLET AND PARTIAL JOINT PENETRATION WELDS.
   D. COLLECTORS – SHEAR TABS, FLANGE AND WEB WELDS.
5. WHERE FIELD WELDING IS NOTED, THE DESIGNATION IS GIVEN AS A SUGGESTED CONSTRUCTION PROCEDURE ONLY.

III. CAST-IN-PLACE CONCRETE

1. CONCRETE IS REINFORCED AND CAST-IN-PLACE UNLESS OTHERWISE NOTED. WHERE REINFORCING IS NOT SPECIFICALLY SHOWN OR WHERE DETAILS ARE NOT GIVEN, PROVIDE REINFORCING SIMILAR TO THAT SHOWN FOR SIMILAR CONDITIONS, SUBJECT TO REVIEW BY THE OWNER'S REPRESENTATIVE. SUBSTITUTION OF SHOTCRETE FOR CAST-IN-PLACE CONCRETE IS NOT ACCEPTABLE.
2. ROUGHEN CONCRETE SURFACES OF CONSTRUCTION JOINTS TO 1/4 INCH AMPLITUDE AND CLEAN OF LAITANCE, FOREIGN MATTER, AND LOOSE PARTICLES AT WALL, COLUMN AND BEAM JOINTS.
3. REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS FOR LOCATIONS OF ADDITIONAL CONCRETE CURBS AND HOUSEKEEPING PADS NOT SHOWN.
4. CONCRETE CLEAR COVER TO REINFORCING BARS IS AS FOLLOWS, UNLESS OTHERWISE NOTED:

LOCATION	CLEAR COVER
CONCRETE PLACED AGAINST EARTH	3 INCHES
FORMED SURFACES EXPOSED TO WEATHER OR IN CONTACT WITH EARTH:	
#6 BARS AND LARGER	2 INCHES
#5 BARS AND SMALLER	1 1/2 INCHES
SLABS ON GRADE (TOP CLEARANCE)	1 1/2 INCHES
BEAMS, GIRDERS AND COLUMNS NOT EXPOSED TO WEATHER OR EARTH:	1 1/2 INCHES
WALL OR SLAB SURFACES NOT EXPOSED TO WEATHER OR EARTH:	
#5 & SMALLER	3/4 INCH
#6 & # 7	1 INCH
#8, #9, # 10 & #11	1 1/2 INCHES
#14 & #18	2 1/2 INCHES

5. CONCRETE TYPES:
   A. HOUSEKEEPING PADS
      a. 28-DAY STREGTH: F'C=4,000 PSI
      b. EXPOSURE: F1, S0, W0, C0
      c. MAX AGGREGATE: 1"
6. CONCRETE EXPOSURE CLASSES: ALL CONCRETE TO BE EXPOSURE CLASS F0, S0, W0 AND C0 PER ACI 318 UNLESS OTHERWISE NOTED. CONCRETE MIXES TO ADDITIONALLY COMLY WITH ACI 318 TABLES 19.3.2.1 AND 19.3.3.1.
7. NON-SHRINK GROUT: ASTM C1107, WITH MINIMUM COMPRESSIVE STRENGTH OF 8,000 PSI.

IV. ADHESIVE ANCHORS AND DOWELS

1. ANCHORS AND DOWELS INSTALLED INTO CONCRETE: HILTI HIT-RE-500-V3 (ICC-ESR-3814), SIMPSON STRONG-TIE SET - 3G (ICC-ESR-4057) OR DEWALT PURE 110+ (ICC ESR 3298). ALL EMBEDMENT DEPTHS NOTED ON DRAWINGS ARE EFFECTIVE EMBEDMENT PER MANUFACTURER.
2. ALL ANCHORS REQUIRE SPECIAL INSPECTION BY THE OWNER'S TESTING AND INSPECTION AGENCY IN ACCORDANCE WITH THE ICC-ESR REPORTS AND THE CODE.
3. THE TESTING LABORATORY IS TO PERFORM TENSION TESTS ON 10%, OF ANCHORS AND DOWELS INSTALLED INTO CONCRETE TO THE FOLLOWING TEST LOADS:

ROD DIA OR BAR SIZE	CMIN	TEST LOAD (LBS)	
		ANCHOR LOCATED > CMIN & < 12" FROM EDGE	ANCHOR LOCATED > 12" FROM EDGE
3/8", #3	2"	3,300	1,600
1/2", #4	2 1/2"	6,000	3,400
5/8", #5	3"	2,800	4,200
3/4", #6	4"	3,700	5,000
7/8", #7	4 1/2"	3,700	5,000
1", #8	5"	4,800	6,100

5. ANCHORS: ASTM A36 THREADED RODS WITH ASTM A563 GRADE A NUTS AND ANSI B18.22.1 TYPE A WASHERS, UNLESS OTHERWISE NOTED. ANCHORS DESIGNATED AS ASTM A193 GRADE B7 THREADED RODS TO USE ASTM A563 GRADE DH HEAVY HEX NUTS AND ASTM F436 WASHERS.
6. REBAR DOWELS: ASTM A615 GRADE 60 REINFORCING STEEL.
7. INSTALL ANCHORS IN ACCORDANCE WITH LATEST ICC-ESR REPORT AND MANUFACTURER INSTRUCTIONS.
8. IF REINFORCEMENT IS ENCOUNTERED DURING DRILLING, ABANDON AND SHIFT THE HOLE LOCATION TO AVOID THE REINFORCEMENT. PROVIDE A MINIMUM OF 2 ANCHOR DIAMETERS OR 1 INCH, WHICHEVER IS LARGER, OF SOUND CONCRETE BETWEEN THE DOWEL AND THE ABANDONED HOLE. FILL THE ABANDONED HOLE WITH NON-SHRINK GROUT. IF THE ANCHOR OR DOWEL MAY NOT BE SHIFTED AS NOTED ABOVE, THE ENGINEER WILL DETERMINE A NEW LOCATION.
9. LOCATE REINFORCEMENT AND CONFIRM FINAL ANCHOR LOCATIONS PRIOR TO FABRICATING PLATES, MEMBERS, OR OTHER STEEL ASSEMBLIES ATTACHED WITH ADHESIVE ANCHORS.

V. STRUCTURAL TESTS, INSPECTIONS, AND OBSERVATIONS

1. AN INDEPENDENT TESTING AGENCY AND SPECIAL INSPECTORS WILL BE RETAINED BY THE OWNER TO PERFORM TESTS AND INSPECTION.
2. THE FOLLOWING ITEMS REQUIRE TESTS AND INSPECTIONS IN ACCORDANCE WITH THE REQUIREMENTS OF THE CHAPTER "STRUCTURAL TESTS AND INSPECTIONS" OF THE APPLICABLE CODE. REQUIREMENTS FOR TESTS AND INSPECTIONS ARE IDENTIFIED IN THE SPECIFICATIONS.
   A. STRUCTURAL STEEL
   B. POST INSTALLED CONCRETE ANCHORAGE
3. PROVIDE TESTS AND INSPECTIONS IN ACCORDANCE WITH THE 2021 INTERNATIONAL BUILDING CODE TESTING AND INSPECTION FORM. REQUIREMENTS FOR TESTS AND INSPECTIONS ARE IDENTIFIED IN THE SPECIFICATIONS.
4. NOTIFY THE ENGINEER AT SIGNIFICANT CONSTRUCTION STAGES 72 HOURS IN ADVANCE AND PROVIDE ACCESS FOR THE FOLLOWING STRUCTURAL OBSERVATIONS:
   A. STEEL FRAMING
      a. FRAMING – BEAMS AND COLUMNS
      b. MOMENT FRAMES
      c. SHEAR CONNECTORS

VI. DESIGN CRITERIA

1. APPLICABLE CODE: 2021 WASHINGTON BUILDING CODE
2. GRAVITY LOADS:
   A. DEAD LOADS - VARY BASED ON ACTUAL BUILDING AND EQUIP OPERATING WEIGHTS. SEE PLANS FOR EQUIPMENT WEIGHTS.
   B. LIVE LOADS:
      a. ROOF = 20 PSF
   C. RAIN LOADS:
      a. DESIGN RAINFALL RATE =1.5 IN/HR
   D. SNOW LOADS:
      a. FLAT ROOF SNOW LOAD = 25 PSF
      b. Ce = 1.2
      c. Is = 1.1
      d. Ct = 1.2
      e. Cs = 1.0
3. LATERAL/SEISMIC FORCE RESISTING SYSTEM (SFRS):
   A. ALL LATERAL LOAD RESISTANCE AND STABILITY OF THE CANOPY STRUCTURE IS PROVIDED BY ORDINARY STEEL MOMENT FRAMES IN EACH ORTHOGONAL DIRECTION (SEE PLANS FOR LOCATION AND ORIENTATION). THE BARE METAL DECK ROOF ACTS AS A DIAPHRAGM THAT TRANSFERS THE LATERAL WIND AND SEISMIC FORCES TO THE MOMENT FRAMES. THE MOMENT FRAMES TRANSMIT THE LOADS TO THE STRUCTURAL SLAB.
4. SEISMIC DESIGN:
   A. SEISMIC RESPONSE COEFFICIENT: Cs= 0.184
   B. DESIGN BASE SHEAR: V = 7.66 KIPS (NORTH-SOUTH)
      V = 7.66 KIPS (EAST-WEST)
      WHERE: R= 3.5 FOR ORDINARY MOMENT FRAMES
      SS= 1.519
      S1= 0.692
      SDS= 1.215
      SD1= NA
      SEISMIC IMPORTANCE FACTOR (IE): 1.25
      RISK CATEGORY: III
      SITE CLASS: E
      SEISMIC DESIGN CATEGORY: D
      RHO= 1.0 (NORTH-SOUTH), 1.0 (EAST-WEST)
   C. ANALYSIS PROCEDURE:EQUIVALENT LATERAL FORCE PROCEDURE
   D. BASE LEVEL USED IN ANALYSIS: STRUCTURAL SLAB
5. WIND DESIGN:
   A. BASIC WIND SPEED V (ULTIMATE): 120 MPH
   B. WIND EXPOSURE: B
   C. RISK CATEGORY: III
   D. INTERNAL PRESSURE COEFFICIENT: GCPI = +/- 0.18
6. DEFLECTION CRITERIA:
   A. TOTAL SUPER-IMPOSED LOAD (D+L):
      a. ROOF = L/180
   B. TRANSIENT LOAD (WIND): L/120
7. DESIGN TEAM

KYLE STEUCK	PRINCIPAL
JACCI ROCK	DESIGN ENGINEER
ED KELLY	DESIGNER
MITCH SMITH	SENIOR BIM/CAD SPECIALIST
KATRINA MILLER	BIM/CAD SPECIALIST

VII. DEFERRED SUBMITTALS

1. DEFERRED SUBMITTALS ARE TO BE SUBMITTED TO THE OWNER'S REPRESENTATIVE AND ARCHITECT FOR REVIEW.
2. THE FOLLOWING ITEMS, AND THEIR CONNECTION TO THE STRUCTURE ARE TO BE DESIGNED BY A SPECIALTY ENGINEER IN ACCORDANCE WITH THE DESIGN CRITERIA SECTION OF THESE GENERAL NOTES, THE APPLICABLE DETAILS, AND THE APPLICABLE DESIGN CODE. SUBMIT FINAL LOADS IMPARTED TO THE STRUCTURE FOR REVIEW AND APPROVAL. IDENTIFY CLEARLY ON PLAN AND INDICATE ALL LOADS, INCLUDING DEAD, LIVE, SEISMIC AND WIND.
   A. DUCTWORK DISTRIBUTION AND BRACING
3. THE DEFERRED SUBMITTAL ITEMS ARE NOT TO BE INSTALLED UNTIL THE DEFERRED SUBMITTAL DOCUMENTS HAVE BEEN APPROVED BY THE BUILDING OFFICIAL.

SHEET INDEX	
Sheet Number	Sheet Name
S0.01	GENERAL NOTES
S0.02	SYMBOLS AND ABBREVIATIONS
S2.01	CANOPY FRAMING PLANS
S3.01	ELEVATIONS
S5.01	CANOPY FRAMING DETAILS
S5.02	ANCHORAGE DETAILS
S5.03	GUARDRAIL DETAILS

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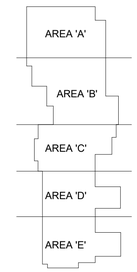
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GENERAL NOTES

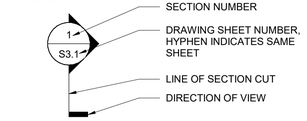
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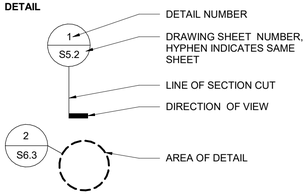
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REFERENCE SYMBOLS

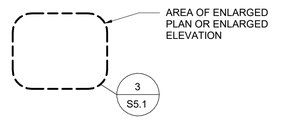
DETAIL/SECTION



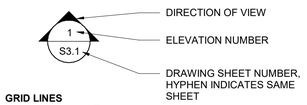
DETAIL



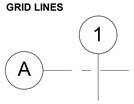
DETAIL PLAN OR ELEVATION



SINGLE ELEVATION



GRID LINES



LEVEL LINE



WORK POINT



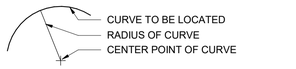
REVISION



KEY NOTE



CENTER POINT OF CURVE

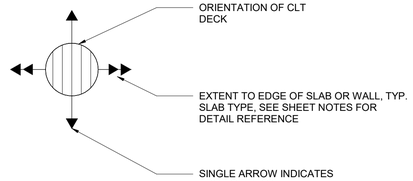


REFERENCED ELEVATION

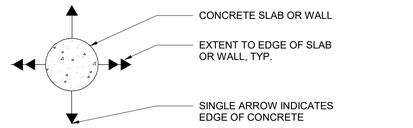


PLAN SYMBOLS

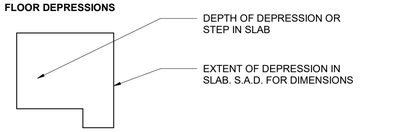
CLT DECK



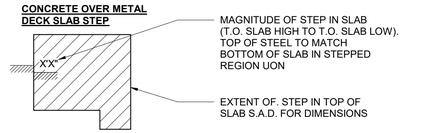
CONCRETE FILL



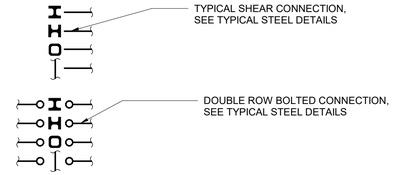
FLOOR DEPRESSIONS



CONCRETE OVER METAL DECK SLAB STEP



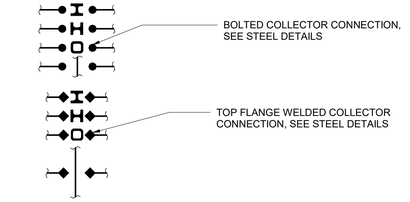
SHEAR CONNECTIONS



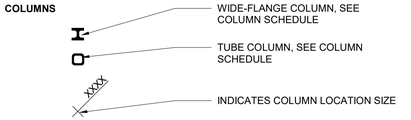
BEAM COLUMN MOMENT CONNECTIONS



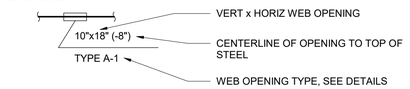
SEISMIC FORCE RESISTING SYSTEM COLLECTOR CONNECTIONS



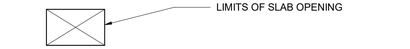
COLUMNS



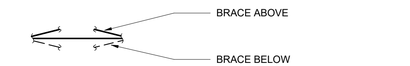
BEAM PENETRATIONS



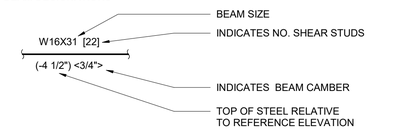
SLAB OPENING



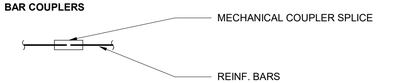
BRACED FRAME OR DIAGONAL BRACE



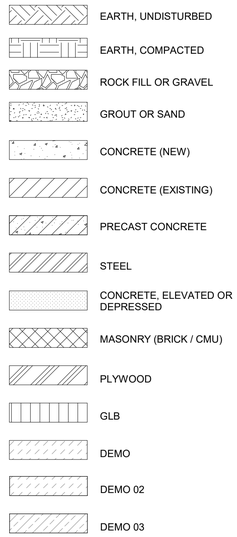
BEAM DESIGNATIONS



BAR COUPLERS



MATERIAL SYMBOLS



ABBREVIATIONS

(E)	EXISTING	C	CHANNEL	EN	EDGE NAILING	ID	INSIDE DIAMETER/DIMENSION	OPH	OPPOSITE HAND
#	NUMBER	CIP	CAST IN PLACE	EOS	EDGE OF SLAB	INFO	INFORMATION	OPNG	OPENING
&	AND	CJ	CONSTRUCTION JOINT	EQ	EQUAL			OPP	OPPOSITE
@	AT	CJP	COMPLETE JOINT PENETRATION	EQUIP	EQUIPMENT	JH	JOIST HANGER		
Ø	DIAMETER OR ROUND	CL	CENTERLINE	ES	EACH SIDE	JST,JSTS	JOIST, JOISTS	P-T	POST-TENSION
ℓd	DEVELOPMENT LENGTH	CLG	CEILING	EW	EACH WAY	JT	JOINT	PC, PCS	PIECE, PIECES
ℓdh	HOOK DEVELOPMENT LENGTH	CLR	CLEAR	EXCAV	EXCAVATION			PCC	PRECAST CONCRETE
ℓs	LAP SPLICE LENGTH	CMU	CONCRETE MASONRY UNIT	EXP	EXPANSION	KO	KNOCK-OUT	PERP	PERPENDICULAR
		COL	COLUMN	EXT	EXTERIOR			PJP	PARTIAL JOINT PENETRATION
AA	ADHESIVE ANCHOR	CONC	CONCRETE			L	ANGLE	PL	PLATE
AB	ANCHOR BOLT	CONN	CONNECTION	FDN	FOUNDATION	LEV	LEVEL	PLYWD	PLYWOOD
ABV	ABOVE	CONSTR	CONSTRUCTION	FF	FAR FACE	LLH	LONG LEG HORIZONTAL	PT	PRESSURE TREATED
AC	ASPHALT CONCRETE	CONT	CONTINUOUS	FIN	FINISH	LLV	LONG LEG VERTICAL	PTN	PARTITION
ADDL	ADDITIONAL	CSK	COUNTERSINK	FLG	FLANGE	LOC	LOCATION		
ADJ	ADJACENT	CTR	CENTER	FLR, FLRS	FLOOR, FLOORS	LONGIT	LONGITUDINAL	R	RADIUS
AGGR	AGGREGATE			FN	FIELD NAILING	LP	LOW POINT	REBAR	REINFORCING BAR
ALT	ALTERNATE	d	PENNY (NAIL SIZE)	FO	FACE OF	LT	LIGHT	REF	REFERENCE
ALUM	ALUMINUM	DBA	DEFORMED BAR ANCHOR	FOC	FACE OF CONCRETE	LWC	LIGHTWEIGHT CONCRETE	REINF	REINFORCING
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	DBL	DOUBLE	FOS	FACE OF STUD			REQD	REQUIRED
APPROX	APPROXIMATE	DEMO	DEMOLITION	FP	FIREPROOF	MAX	MAXIMUM	REV	REVISION
AR	ANCHOR ROD	DET, DETS	DETAIL, DETAILS	FRMG	FRAMING	MB	MACHINE BOLT	RFG	ROOFING
ARCH	ARCHITECTURAL / ARCHITECT	DIA, DIAM	DIAMETER	FS	FAR SIDE	MECH	MECHANICAL	RO	ROUGH OPENING
ASPH	ASPHALT	DIAG	DIAGONAL	FT	FOOT OR FEET	MEP	MECHANICAL, ELECTRICAL, PLUMBING DOCUMENTS	RSJ	ROLLED STEEL JOIST
ASTM	AMERICAN SOCIETY for TESTING and MATERIALS	DIM, DIMS	DIMENSION, DIMENSIONS	FTG, FTGS	FOOTING, FOOTINGS				
AWG	AMERICAN WIRE GAUGE	DIST	DISTANCE			MEZZ	MEZZANINE	S.A.D.	SEE ARCHITECTURAL DOCUMENTS/DRAWINGS
		DK, DKG	DECK OR DECKING	GA	GAUGE	MF	MOMENT FRAME	S.M.D.	SEE MECHANIAL DRAWINGS
B. O.	BOTTOM OF	DN	DOWN	GALV	GALVANIZED	MFR	MANUFACTURER	SCHED	SCHEDULE
BF	BOTH FACES	DO	DITTO	GL	GLU-LAM	MIN	MINIMUM	SECT	SECTION
BF	BRACED FRAME	DP	DEEP	GLB	GLU-LAM BEAM	MISC	MISCELLANEOUS	SEOR	STRUCTURAL ENGINEER OF RECORD
BLDG	BUILDING	DS	DIAGONAL SHEATHING	GR	GRADE	MTD	MOUNTED	SFRS	SEISMIC FORCE RESISTING SYSTEM
BLK, BLKG	BLOCK OR BLOCKING	DSA	DIVISION OF THE STATE ARCHITECT	GRND	GROUND	MTL	METAL	SHT	SHEET
BLW	BELOW	DWG, DWGS	DRAWING, DRAWINGS	GYP	GYPSUM			SHTG	SHEATHING
BM, BMS	BEAM, BEAMS	DWL, DWLS	DOWEL, DOWELS			NF	NEAR FACE	SIM	SIMILAR
BN	BOUNDARY NAILING			HDG	HOT DIPPED GALVANIZED	NIC	NOT IN CONTRACT	SL	SLOPE
BOF	BOTTOM OF FOOTING	EA	EACH	HDR	HEADER	NOM	NOMINAL (DIAMETER)	SMF	SPECIAL MOMENT FRAME
BOT	BOTTOM	EBF	ECCENTRIC BRACE FRAME	HK, HKS	HOOK, HOOKS	NS	NEAR SIDE	SMS	SHEET METAL SCREW
BRBF	BUCKLING RESTRAINED BRACE FRAME	EF	EACH FACE	HORIZ, (H)	HORIZONTAL	NTS	NOT TO SCALE	SOG	SLAB ON GRADE
BRCG	BRACING	EJ	EXPENSION JOINT	HP	HIGH POINT	NWC	NORMAL WEIGHT CONCRETE	SP	STRUCTURAL PLYWOOD
BRG	BEARING	EL	ELEVATION	HSB	HIGH STRENGTH BOLTS			SPEC, SPECS	SPECIFICATION, SPECIFICATIONS
BS	BOTH SIDES	ELEC	ELECTRICAL	HSS	HOLLOW STRUCTURAL SECTION	OBF	ORDINARY BRACED FRAMES	SPSW	SPECIAL PLATE SHEAR WALL
BSMT	BASEMENT	ELEV	ELEVATOR	HT	HEIGHT	OC	ON CENTER	SQ	SQUARE
BTWN	BETWEEN	EMBED	EMBEDMENT			OD	OUTSIDE DIAMETER	SS	STAINLESS STEEL
BW	BOTH WAYS							STAG	STAGGER or STAGGERED

STD	STANDARD
STIF	STIFFENER
STIR	STIRRUP OR STIRRUPS
STL	STEEL
STRUCT	STRUCTURAL
SUB	SUBSTITUTE
SUSP	SUSPENDED
SYMM	SYMMETRICAL
T&B	TOP AND BOTTOM
T&G	TONGUE and GROOVE
T.O.	TOP OF
THK	THICK
THRD	THREADED
THRU	THROUGH
TN	TOE NAIL
TOC	TOP OF CONCRETE
TOF	TOP OF FOOTING
TOS	TOP OF STEEL
TOW	TOP OF WALL
TR	TREAD
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
URM	UNREINFORCED MASONRY
VENT	VENTILATE
VERT, (V)	VERTICAL
VIF	VERIFY IN FIELD
W or WF	WIDE FLANGE
W/	WITH
W/O	WITHOUT
WD	WOOD
WP	WORK POINT
WS	WOOD SCREW
WT	WEIGHT/TEE SECTION
WWM	WELDED WIRE MESH
X HVY	EXTRA HEAVY
X STR	EXTRA STRONG
XX HVY	DOUBLE EXTRA HEAVY
XX STR	DOUBLE EXTRA STRONG

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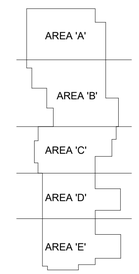
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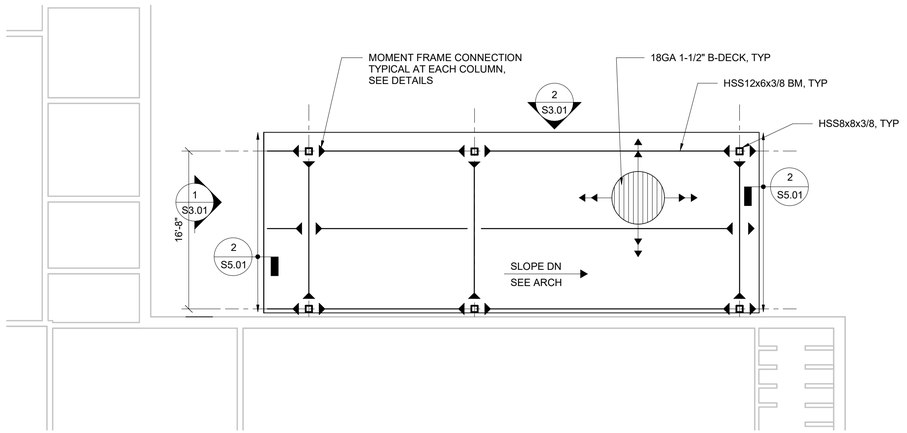
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SYMBOLS AND ABBREVIATIONS

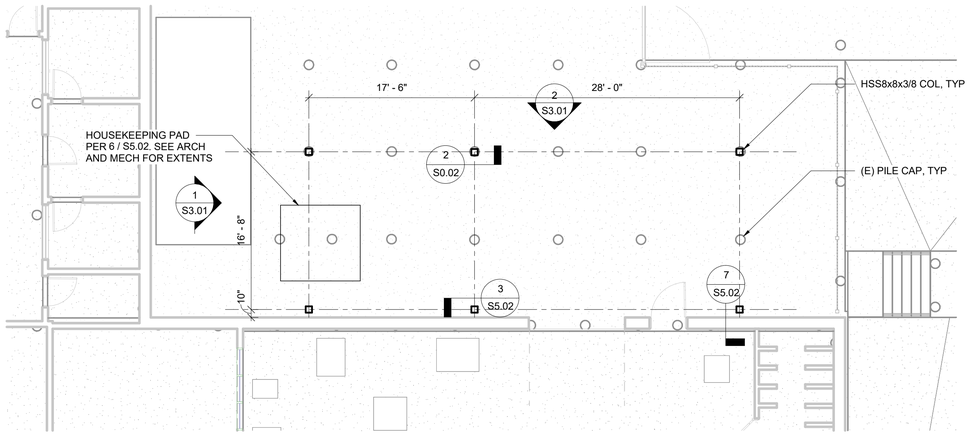
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1 CANOPY FRAMING PLAN
1/8" = 1'-0"



NOTES:

1. NORTHERN 3 COLUMNS TO ALIGN WITH PILES WITHIN 2". CONTRACTOR TO FIELD VERIFY PRIOR TO FABRICATION.

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

SHEET NOTES:

1. SEE SHEET S0.01 AND S0.02 FOR GENERAL NOTES, SYMBOLS AND ABBREVIATIONS
2. SEE ARCH DRAWINGS FOR SLOPES, ELEVATIONS, AND DIMENSIONS NOT SHOWN ON PLANS.
3. SEE TYPICAL DETAILS WHERE DETAILS ARE NOT SPECIFICALLY REFERENCED.
4. BEAMS SPACED EQUALLY BETWEEN FRAMING LINES UNLESS OTHERWISE NOTED.

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KYLE PORTER STRUCK
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49423
STRUCTURAL ENGINEER
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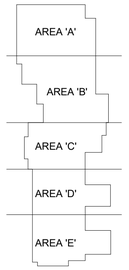
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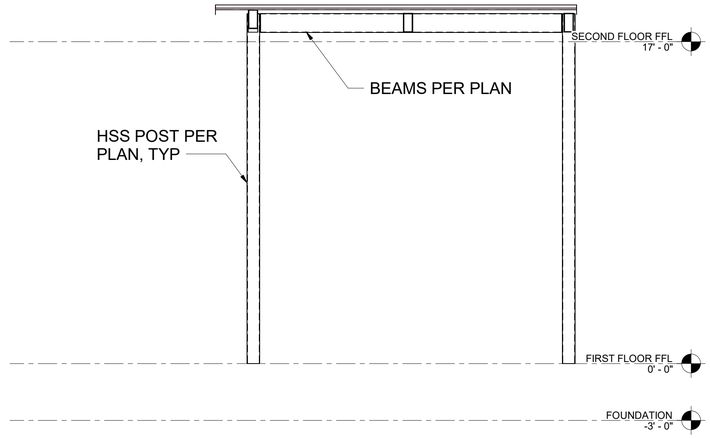
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CANOPY FRAMING PLANS

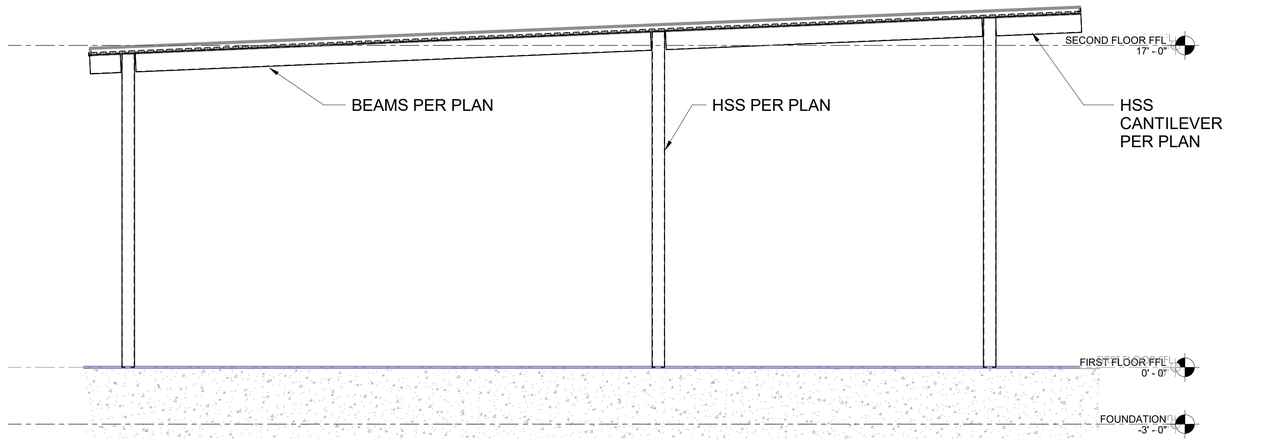
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1 SIDE ELEVATION
1/4" = 1'-0"



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

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PROFESSIONAL ENGINEER

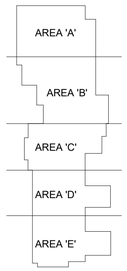
Client
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Project
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2025 - 007
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410 N G St., Aberdeen, WA 98520

Issue & Revision Dates
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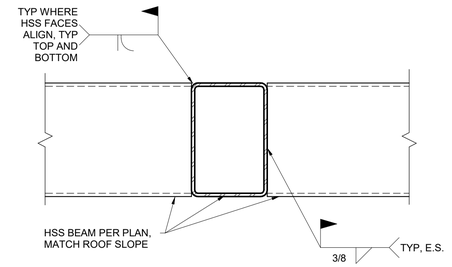
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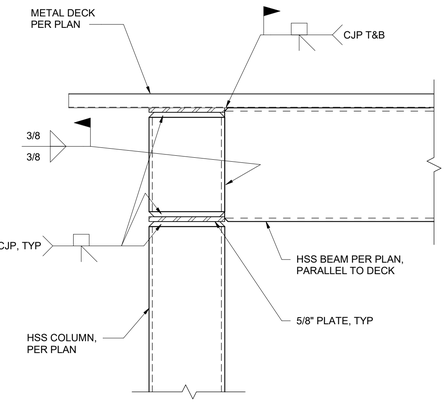
SLAB TYPE	DECK TYPE	HEIGHT	GAUGE	FACTORY VENTED	MINIMUM SECTION PROPERTIES			ATTACHMENT TYPE				SIDE LAP	REMARKS
								TO PERIMETER SUPPORT		TO INTERMEDIATE SUPPORT			
					I (IN.^{4})	S (IN.^{3})	S (IN.^{3})	PERPENDICULAR TO DECK	PARALLEL TO DECK	PERPENDICULAR TO DECK	PARALLEL TO DECK		
D1	B	1 1/2"	18	NO	0.302	0.313	0.324	X-ENP19 AT ALL DOWN FLUTES	X-ENP19 @ 12" O.C.	X-ENP19 AT ALL DOWN FLUTES	X-ENP19 @ 12" O.C.	VSC2 @ 12" O.C. OR # 10 SCREWS @ 12" FOR SS PROFILE	

NOTES:
1. PROVIDE SHEETS OF SUFFICIENT LENGTH TO SPAN CONTINUOUSLY ACROSS THE CANOPY. TERMINATE ENDS OVER A SUPPORT PERPENDICULAR TO THE DECK SPAN, EXCEPT AT OPENINGS OR BUILDING EDGES WHERE DECKS MAY BE CANTILEVERED.
2. PROVIDE A MINIMUM OF 2" BEARING AT SUPPORTING MEMBERS PERPENDICULAR TO DECK SPAN AND 1 1/2" AT MEMBERS PARALLEL TO DECK SPAN.

7 METAL DECK SCHEDULE
1" = 1'-0"

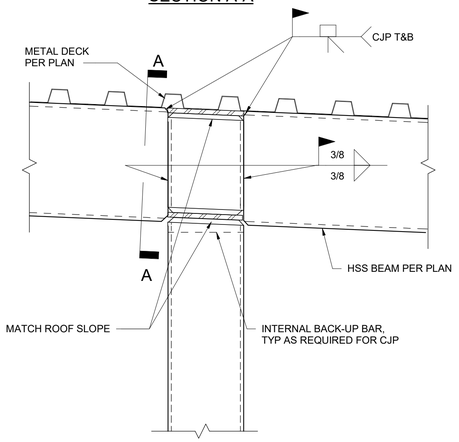


1 BEAM TO BEAM DETAIL
1 1/2" = 1'-0"



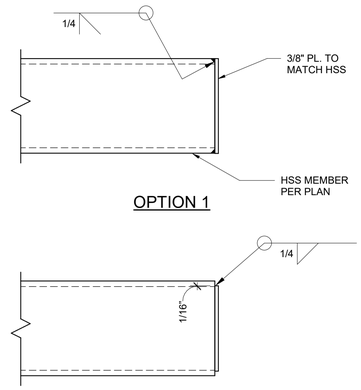
NOTE:
1. BEAM FRAMING INTO JOINT PERPENDICULAR OMITTED FOR CLARITY

SECTION A-A



NOTE:
1. BEAM FRAMING INTO JOINT PERPENDICULAR OMITTED FOR CLARITY

9 EDGE OF ROOF DECK
1 1/2" = 1'-0"

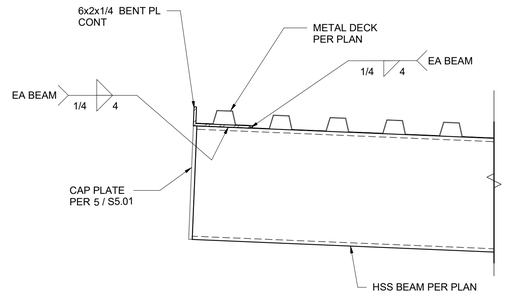


OPTION 1

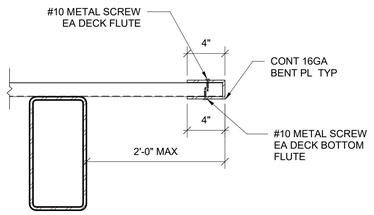
OPTION 2

NOTES:
1. CAP PLATE TO BE PROVIDED AT ALL EXTERIOR ENDS UON.
2. GRIND ALL EXPOSED WELDS.

5 TYPICAL HSS CAP PLATE
1 1/2" = 1'-0"



2 EDGE OF ROOF DECK
1 1/2" = 1'-0"



3 EDGE OF DECK PARALLEL TO FRAMING
1 1/2" = 1'-0"

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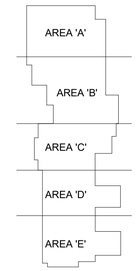
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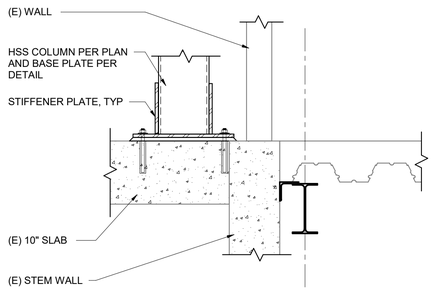
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Sheet Title
CANOPY FRAMING DETAILS

S5.01
Sheet Number Of

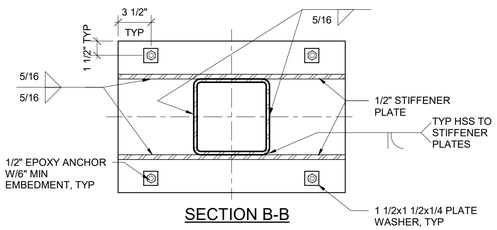
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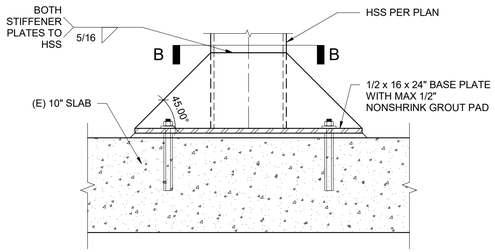


NOTE:
SCAN SLAB AND WALL FOR REINFORCING PRIOR TO INSTALLATION OF ANCHORS. DO NOT CUT EXISTING REINFORCING FOR ANCHOR INSTALL.

7 CANOPY BASE PLATE AT WALL
1" = 1'-0"

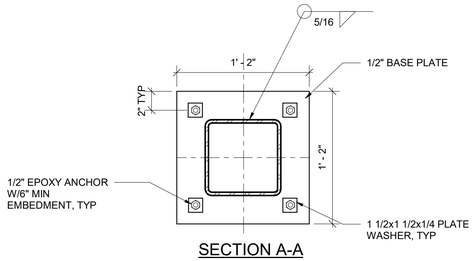


SECTION B-B

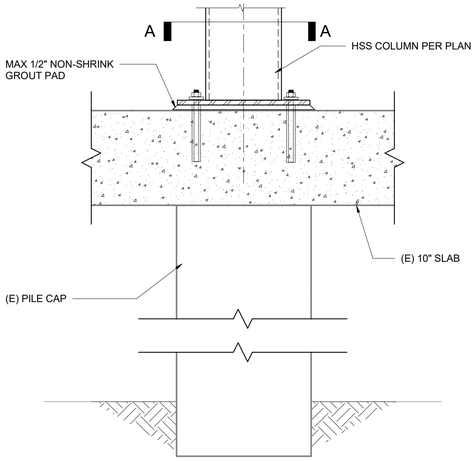


NOTE:
SCAN SLAB FOR REINFORCING PRIOR TO INSTALLATION OF ANCHORS. DO NOT CUT EXISTING REINFORCING FOR ANCHOR INSTALL.

3 STIFFENED BASE PL AT SOUTH SIDE CANOPY COLUMNS
1 1/2" = 1'-0"

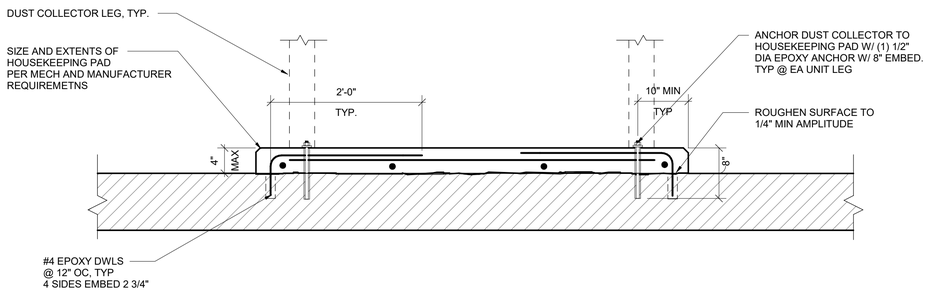


SECTION A-A



NOTE:
SCAN SLAB FOR REINFORCING PRIOR TO INSTALLATION OF ANCHORS. DO NOT CUT EXISTING REINFORCING FOR ANCHOR INSTALL.

2 CANOPY BASE PLATE AT PILE
1 1/2" = 1'-0"



6 HOUSEKEEPING PAD AT DUST COLLECTOR
1" = 1'-0"

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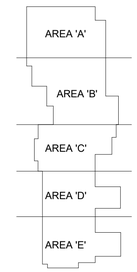
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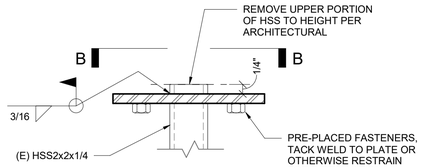
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Sheet Title
ANCHORAGE DETAILS

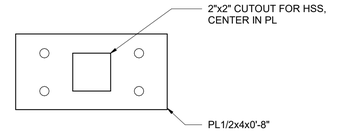
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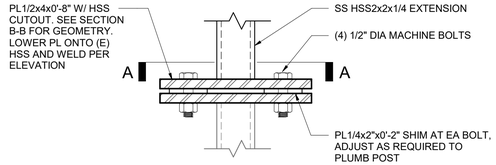
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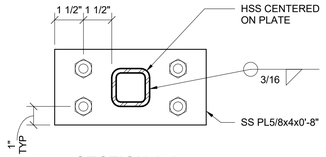


LOWER PLATE INSTALLATION



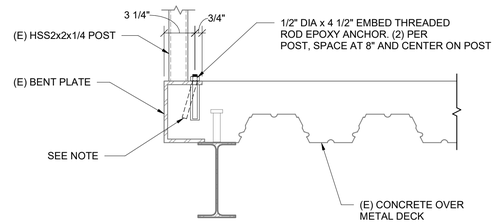
SECTION B-B
LOWER PLATE





SECTION A-A
UPPER PLATE

4 GUARDRAIL BASE STRENGTHENING
3" = 1'-0"



NOTE:
ANCHOR MAY BE INSTALLED UP TO 15 DEGREES FROM VERTICAL TO FACILITATE INSTALLATION. PROVIDE SLOPED WASHER TO MATCH INSTALLATION ANGLE.

2 GUARDRAIL BASE STRENGTHENING
1 1/2" = 1'-0"

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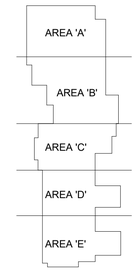
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GUARDRAIL DETAILS

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REFERENCE SYMBOLS

- NEW MECHANICAL WORK
- EXISTING MECHANICAL WORK
- EXISTING MECHANICAL WORK TO BE DEMOLISHED
- ENLARGED PLAN BORDER
- MATCHLINE
- SECTION IDENTIFIER (1 / MX.X)
- DETAIL OR DRAWING IDENTIFIER (1 / MX.X)
- REVISION CLOUD INDICATES WHERE SECTION APPEARS
- INDICATES REVISION & NUMBER (1)
- FLAG NOTE (1)
- EQUIPMENT IDENTIFIER (AHU-XXX)
- POINT OF CONNECTION
- NORTH ARROW
- MECHANICAL ACCESS

PLUMBING LINE DESIGNATION SYMBOLS

- DOMESTIC COLD WATER (POTABLE)
- DOMESTIC HOT WATER (POTABLE)
- DOMESTIC HOT WATER CIRCULATING (POTABLE)
- SANITARY SEWER ABOVEGROUND
- SANITARY SEWER UNDERGROUND
- VENT PIPING

FIRE PROTECTION LINE DESIGNATION SYMBOLS

- F — FIRE SPRINKLER
- FD — DRY FIRE SPRINKLER

PIPING ELEMENTS/VALVING

- VALVE
- CHECK VALVE
- BALANCING VALVE
- THREE WAY CONTROL VALVE
- TWO WAY CONTROL VALVE
- SOLENOID VALVE
- PRESSURE REDUCING VALVE (PRV)
- TEMPERATURE/PRESSURE RELIEF VALVE
- RELIEF/SAFETY VALVE
- MANUAL AIR VENT
- AAV — AUTOMATIC AIR VENT (EXTEND DISCHARGE TO DRAIN)
- FM — FLOW METER
- AUTOMATIC FLOW CONTROL VALVE
- DIRECTION OF FLOW
- R / D — DIRECTION OF PITCH-RISE OR DROP
- STRAINER
- STRAINER WITH BLOW OFF VALVE
- UNION
- ANCHOR
- GUIDE
- FS — FLOW SWITCH
- TT — TEMPERATURE TRANSMITTER
- PT/PS — PRESSURE TRANSMITTER OR PRESSURE SWITCH
- PRESSURE GAUGE
- THERMOMETER
- AQUASTAT
- GAUGE WITH GAUGE COCK & SIPHON (STEAM)
- GAS PRESSURE REGULATOR
- T — TEMPERATURE/PRESSURE TEST PORT
- BASKET STRAINER
- STEAM TRAP
- EXPANSION JOINT
- VB — VACUUM BREAKER
- FLEXIBLE CONNECTOR
- WM — WATER METER
- GM — GAS METER
- PUMP
- SPRINKLER HEAD
- BACKFLOW PREVENTION DEVICE (REDUCED ZONE)
- BACKFLOW PREVENTION DEVICE (DOUBLE CHECK VALVE ASSEMBLY)
- WATER HAMMER ARRESTER
- HOSE BIBB
- ROOF DRAIN
- FLOOR DRAIN
- FLOOR SINK
- FCO — CLEAN-OUT (FLOOR)
- WCO — CLEAN-OUT (WALL)
- CO — CLEAN-OUT
- PIPE CONTINUES
- PIPE CAP
- VTR — VENT THRU ROOF
- TRENCH DRAIN
- PIPE RISING UP
- PIPE DROPPING DOWN
- PIPE CONNECTION
- PIPE CONNECTION DOWN

DUCTWORK SYMBOLS

- NEW DUCTWORK
- R / D — RISE OR DROP DIRECTION OF AIR FLOW
- INTERNALLY LINED DUCT
- MANUAL VOLUME DAMPER
- BDD — BACKDRAFT DAMPER
- M — MOTOR OPERATED DAMPER
- DSD — DUCT SMOKE DETECTOR
- FIRE DAMPER
- SMOKE DAMPER
- COMBINATION FIRE/SMOKE DAMPER
- HORIZONTAL FIRE DAMPER
- HORIZONTAL SMOKE DAMPER
- HORIZONTAL COMBINATION FIRE/SMOKE DAMPER
- FLEXIBLE CONNECTION
- UC — UNDERCUT DOOR
- SUPPLY AIR DUCT SECTION
- RETURN OR OUTSIDE AIR DUCT SECTION
- EXHAUST AIR DUCT SECTION
- RECTANGULAR DUCT UP
- RECTANGULAR DUCT DOWN
- ROUND DUCT UP
- ROUND DUCT DOWN
- FLEXIBLE DUCTWORK

DIFFUSER, REGISTER, AND GRILLE SYMBOLS

- X / XxX CFM — AIR DEVICE TAG
- SUPPLY DIFFUSER
- RETURN OR RELIEF GRILLE
- EXHAUST GRILLE
- SIDEWALL GRILLE (SUPPLY), LOUVER (EXHAUST OR RETURN)
- SIDEWALL GRILLE (RETURN OR EXHAUST), LOUVER (OUTSIDE)
- LINEAR GRILLE
- ROUND DIFFUSER

CONTROLS

- T — ROOM THERMOSTAT SENSOR "THERMOSTAT"
- S — FLAT PLATE TEMPERATURE SENSOR
- P — ROOM PRESSURE SENSOR
- H — ROOM HUMIDITY SENSOR
- CO — ROOM CARBON MONOXIDE SENSOR
- CO2 — ROOM CARBON DIOXIDE SENSOR
- NO2 — ROOM NITROGEN DIOXIDE SENSOR
- OS — OCCUPANCY SENSOR
- VFD — VARIABLE FREQUENCY DRIVE
- STR — STARTER OR STARTER/DISCONNECT
- DDC — DIRECT DIGITAL CONTROL PANEL
- DP — DIFFERENTIAL PRESSURE TRANSMITTER
- CONTROL WIRING
- $ — SWITCH

MECHANICAL SHEET LIST

M0.01	MECHANICAL LEGEND AND SHEET LIST
M0.02	MECHANICAL ABBREVIATIONS AND GENERAL NOTES
M1.01	PLUMBING PLAN - CULINARY
M2.01	HVAC PLAN - WOOD SHOP
M3.01	FIRE SPRINKLER PLAN - WOOD SHOP

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Keyplan

NOTE: DRAWING MAY BE REDUCED
0 2' 4' 8'

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MECHANICAL LEGEND AND SHEET LIST

M0.01

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ABBREVIATIONS:

Ø	DIAMETER, PHASE
A	COMPRESSED AIR
AAV	AUTOMATIC AIR VENT
ABV	ABOVE
AC	AIR CONDITIONING UNIT
AD	AREA DRAIN, ACCESS DOOR
ADA	AMERICANS WITH DISABILITIES ACT
AFF	ABOVE FINISHED FLOOR
AFUE	ANNUAL FUEL UTILIZATION EFFICIENCY
AHJ	AUTHORITY HAVING JURISDICTION
AHU	AIR HANDLING UNIT
ALT	ALTERNATE
ALUM	ALUMINUM
AMB	AMBIENT
APD	AIR PRESSURE DROP
APPROX	APPROXIMATE
ARCH	ARCHITECT
ASHRAE	AMERICAN SOCIETY OF HEATING, REFRIGERATION AND AIR-CONDITIONING ENGINEERS, INC.
ATM	ATMOSPHERE
AV	ACID RESISTANT (CHEMICAL) VENT
AW	ACID RESISTANT (CHEMICAL) WASTE
B	BOILER
BDD	BACKDRAFT DAMPER
BF	BELOW FLOOR
BFF	BELOW FINISHED FLOOR
BHP	BRAKE HORSEPOWER
BLDG	BUILDING
BLW	BELOW
BOD	BOTTOM OF DUCT
BOP	BOTTOM OF PIPE
BOT	BOTTOM
BTU	BRITISH THERMAL UNIT
BTUH	BRITISH THERMAL UNIT PER HOUR
C	CONDENSATE DRAIN PIPING
CA	AIR COMPRESSOR
CAP	CAPACITY
CBV	CIRCUIT BALANCING VALVE
CC	COOLING COIL
CD	CEILING DIFFUSER
CFH	CUBIC FEET PER HOUR
CFM	CUBIC FEET PER MINUTE
CH	CHILLER, CABINET HEATER
CHWP	CHILLED WATER PUMP
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CHWS/R	CHILLED WATER SUPPLY AND RETURN
CI	CAST IRON
CL	CENTER LINE
CLG	CEILING
CMU	CONCRETE MASONRY UNIT
CO	CLEANOUT
COMB	COMBUSTION, COMBINATION
COND	CONDENSATE
CONN	CONNECTION
CONT	CONTINUE, CONTROL
CONTR	CONTRACTOR
COP	COEFFICIENT OF PERFORMANCE
CP	CONDENSATE PUMP
CT	COOLING TOWER
CU	CONDENSING UNIT, CUBIC
CV	CHECK VALVE, CONSTANT VOLUME
CW	DOMESTIC COLD WATER
CWP	CONDENSER WATER PUMP
CWR	CONDENSER WATER RETURN
CWS	CONDENSER WATER SUPPLY
CWS/R	CONDENSER WATER SUPPLY AND RETURN
DB	DRY BULB
DC	DUCT COIL, DUST COLLECTOR
DDC	DIRECT DIGITAL CONTROL
DDCV	DOUBLE DETECTOR CHECK VALVE
DEPT	DEPARTMENT
DEG	DEGREE
DF	DRINKING FOUNTAIN
DFU	DRAINAGE FIXTURE UNIT
DH	DUCT HEATER
DI	DUCTILE IRON
DIA	DIAMETER
DIAG	DIAGRAM
DIFF	DIFFERENTIAL
DIM	DIMENSION
DN	DOWN
DOAS	DEDICATED OUTDOOR AIR SYSTEMS
DP	DIFFERENTIAL PRESSURE
DTS	DUAL TEMPERATURE HEATING AND COOLING WATER SUPPLY
DTR	DUAL TEMPERATURE HEATING AND COOLING WATER RETURN
DTS/R	DUAL TEMPERATURE HEATING AND COOLIN WATER SUPPLY AND RETURN
DX	DIRECT EXPANSION
DWG	DRAWING
DWP	DOMESTIC WATER PUMP
(E)	EXISTING
EA	EACH, EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
ECG	EGGCRATE GRILLE
EDH	ELECTRIC DUCT HEATER

EER	ENERGY EFFICIENCY RATIO
EF	EXHAUST FAN
EFF	EFFICIENCY
EG	EXHAUST GRILLE
EJ	EXPANSION JOINT
ELEC	ELECTRIC
ELEV	ELEVATION
EMCS	ENERGY MANAGEMENT CONTROL SYSTEM
ENT	ENTERING
EQUIP	EQUIPMENT
ESP	EXTERNAL STATIC PRESSURE
ET	EXPANSION TANK
ETC	AND SO FORTH
EUH	ELECTRIC UNIT HEATER
EVAP	EVAPORATOR, EVAPORATIVE
EW	EYE WASH
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
EWT	ENTERING WATER TEMPERATURE
EX	EXHAUST
EXT	EXTERIOR, EXTERNAL
F	FIRE SPRINKLER
°F	DEGREES FAHRENHEIT
FC	FLEXIBLE CONNECTOR, FLUID COOLER
FCO	FLOOR CLEANOUT
FCU	FAN COIL UNIT
FD	FLOOR DRAIN
F/D	FIRE DAMPER
FDC	FIRE DEPARTMENT CONNECTION
FFD	FUNNEL FLOOR DRAIN
FLA	FULL LOAD AMPS
FLR	FLOOR
FLEX	FLEXIBLE
FO	FUEL OIL, FLAT OVAL
FOG	FUEL OIL GAGE
FOP	FUEL OIL PUMP
FOV	FUEL OIL VENT
FP	FIRE PROTECTION, FIRE PUMP
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FS	FLOOR SINK
F/S/D	COMBINATION FIRE SMOKE DAMPER
FT	FEET, FINNED TUBE
FTR	FINNED TUBE RADIATION
FV	FACE VELOCITY
G	GAS
GAL	GALLON
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GCWR	GLYCOL COOLING WATER RETURN
GCWS	GLYCOL COOLING WATER SUPPLY
GCWS/R	GLYCOL COOLING WATER SUPPLY AND RETURN
GFU	GAS FIRED UNIT
GPD	GALLONS PER DAY
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GPR	GAS PRESSURE REGULATOR
GR	GRILLE
GRD	GRILLES, REGISTERS, AND DIFFUSERS
GW	GREASE WASTE
GWB	GYPSUM WALLBOARD
GWH	GAS WATER HEATER
HB	HOSE BIBB
HC	HEATING COIL
HD	HEAD
HOR	HORIZONTAL
HP	HEAT PUMP, HORSEPOWER
HPC	HIGH PRESSURE CONDENSATE
HPS	HIGH PRESSURE STEAM
HR	HOUR
HRU	HEAT RECOVERY UNIT
HT	HEIGHT
HTR	HEATER
HX	HEAT EXCHANGER
HVAC	HEATING, VENTILATION & AIR CONDITIONING
HW	DOMESTIC HOT WATER
HWC	DOMESTIC HOT WATER CIRCULATING
HWR	HEATING WATER RETURN
HWS	HEATING WATER SUPPLY
HWS/R	HEATING WATER SUPPLY AND RETURN
HZ	HERTZ
IAQ	INDOOR AIR QUALITY
I.E.	INVERT ELEVATION
IN	INCH
INCL	INCLUDING
INT	INTERNAL
INV	INVERT
IRR	IRRIGATION WATER
ISP	INTERNAL STATIC PRESSURE
KW	KILOWATT
L	LENGTH
LAT	LEAVING AIR TEMPERATURE
LAV	LAVATORY
LB	POUND
LBS/HR	POUNDS PER HOUR
LD	LINEAR DIFFUSER
LF	LINEAR FEET

LL	REFRIGERANT LIQUID LINE
LPC	LOW PRESSURE CONDENSATE
LPS	LOW PRESSURE STEAM
LRA	LOCKED ROTOR AMPS
LVG	LEAVING
LVR	LOUVER
LWT	LEAVING WATER TEMPERATURE
MAT	MIXED AIR TEMPERATURE
MAV	MANUAL AIR VENT
MAX	MAXIMUM
MBH	THOUSANDS OF BTUH
MCA	MINIMUM CIRCUIT AMPACITY
MECH	MECHANICAL
MED	MEDIUM
MERV	MINIMUM EFFICIENCY REPORTING VALUE
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MOCP	MAXIMUM OVERCURRENT PROTECTION
MPC	MEDIUM PRESSURE CONDENSATE
MPG	MEDIUM PRESSURE GAS
MPS	MEDIUM PRESSURE STEAM
MS	MOP SINK
MTD	MOUNTED
MU	MAKEUP WATER
MUA	MAKEUP AIR UNIT
(N)	NEW
NA	NOT APPLICABLE
NC	NOISE CRITERIA, NORMALLY CLOSED
NEG	NEGATIVE
NO	NORMALLY OPEN
NO.	NUMBER
NOM	NOMINAL
NP	NON-POTABLE
NPCW	NON-POTABLE COLD WATER
NPHW	NON-POTABLE HOT WATER
NPHWC	NON-POTABLE HOT WATER CIRCULATING
NPW	NON-POTABLE WATER
NTS	NOT TO SCALE
O2	OXYGEN
OA	OUTSIDE AIR
OAT	OUTSIDE AIR TEMPERATURE
OBD	OPPOSED BLADE DAMPER
OC	ON CENTER
OCC	OCCUPIED
ORWL	OVERFLOW RAIN WATER LEADER
OSA	OUTSIDE AIR
OT	OFF TOP
OV	OUTLET VELOCITY
P	PRESSURE, PUMP
PC	PUMPED CONDENSATE
PD	PRESSURE DROP
PERF	PERFORATED
PH	PHASE
PIV	POST INDICATOR VALVE
POC	POINT OF CONNECTION
PR	CONDENSATE PUMP RETURN
PRESS	PRESSURE
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH
PSIG	POUNDS PER SQUARE INCH GAUGE
PSIA	POUNDS PER SQUARE INCH ABSOLUTE
PTRV	PRESSURE/TEMPERATURE RELIEF VALVE
PU	PUMP
PVC	POLYVINYL CHLORIDE
QTY	QUANTITY
R	REFRIGERANT PIPING
RA	RETURN AIR
RAF	RETURN/RELIEF AIR FAN
RAG	RETURN AIR GRILLE
RAH	RADIANT HEATER
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
REF	REFERENCE, RETURN/EXHAUST FAN
REG	REGISTER
REL	RELIEF
REQD	REQUIRED
RET	RETURN
RF	RETURN FAN
RG	RETURN GRILLE
RH	RELATIVE HUMIDITY, ROOF HOOD
RHC	REHEAT COIL
RI&C	ROUGH IN AND CONNECT
RLA	RATED LOAD AMPS
RM	ROOM
ROD	ROOF OVERFLOW DRAIN
RPBA	REDUCED PRESSURE BACKFLOW ASSEMBLY
RPBP	REDUCED PRESSURE BACKFLOW PREVENTER
RPM	REVOLUTIONS PER MINUTE
RTU	ROOFTOP UNIT
RV	RELIEF VALVE
RWL	RAIN WATER LEADER
SA	SUPPLY AIR
SAD	SUPPLY AIR DIFFUSER
SAT	SUPPLY AIR TEMPERATURE
SCFM	STANDARD CUBIC FEET PER MINUTE

SCH	SCHEDULE
SCHEM	SCHEMATIC
S/D	SMOKE DAMPER
SF	SUPPLY FAN, SQUARE FOOT
SG	SUPPLY GRILLE
SL	REFRIGERANT SUCTION LINE
SMACNA	SHEET METAL AND AIR CONDITIONING CONTRACTORS' NATIONAL ASSOCIATION, INC.
SP	STATIC PRESSURE
SPEC	SPECIFICATION
SQ	SQUARE
SRV	SAFETY RELIEF VALVE
SS	STAINLESS STEEL
ST	STORAGE TANK, SOUND TRAP
STD	STANDARD
STM	STEAM
STR	STARTER, STRUCTURAL
SUCT	SUCTION
SUP	SUPPLY
TAB	TESTING, ADJUSTING AND BALANCING
TDH	TOTAL DYNAMIC HEAD
TEMP	TEMPERATURE
TG	TRANSFER GRILLE
TOD	TOP OF DUCT
TOF	TOP OF FOOTING
TOP	TOP OF PIPE
TP	TOTAL PRESSURE
TPRV	TEMPERATURE/PRESSURE RELIEF VALVE
TSP	TOTAL STATIC PRESSURE
T'STAT	THERMOSTAT
TU	TERMINAL UNIT
TYP	TYPICAL
UH	UNIT HEATER
UNOCC	UNOCCUPIED
UP/DN	UP AND DOWN
URN	URINAL
V	VENT, VOLTS
VAC	VACUUM
VAV	VARIABLE AIR VOLUME UNIT
VB	VACUUM BREAKER
VD	VOLUME DAMPER
VEL	VELOCITY
VENT	VENTILATION, VENTILATOR
VFD	VARIABLE FREQUENCY DRIVE
VTR	VENT THRU ROOF
W	WASTE, WATT, WIDTH
W/	WITH
WB	WET BULB
WC	WATER CLOSET
WCO	WALL CLEANOUT
WH	WATER HEATER
WM	WATER METER
W/O	WITHOUT
WPD	WATER PRESSURE DROP
WSEC	WASHINGTON STATE ENERGY CODE
WSFU	WATER SUPPLY FIXTURE UNIT
WT	WEIGHT
WTD	WATER TEMPERATURE DROP

GENERAL NOTES:

GENERAL:

1. COORDINATE MECHANICAL WORK WITH ELECTRICAL, ARCHITECTURAL, STRUCTURAL, CIVIL AND LANDSCAPE WORK SHOWN ON OTHER CONTRACT DOCUMENTS. PROVIDE ADDITIONAL OFFSETS FOR COORDINATED INSTALLATION WHERE REQUIRED.
2. COORDINATE HVAC, PLUMBING AND FIRE PROTECTION WORK PRIOR TO INSTALLATION. DUCTWORK AND EQUIPMENT ACCESS TAKES PRECEDENCE OVER PIPING FOR AVAILABLE SPACE.
3. WHERE USED, THE TERM "PROVIDE" SHALL MEAN "FURNISH AND INSTALL".
4. MAINTAIN A MINIMUM OF 6'-8" CLEARANCE TO UNDERSIDE OF DUCTS, PIPES, CONDUITS, SUSPENDED EQUIPMENT, ETC., IN MECHANICAL ROOM ACCESS SPACES.
5. COORDINATE EQUIPMENT CONNECTIONS WITH MANUFACTURERS' CERTIFIED DRAWINGS. COORDINATE AND PROVIDE DUCT AND PIPING TRANSITIONS REQUIRED FOR FINAL EQUIPMENT CONNECTIONS TO FURNISHED EQUIPMENT. FIELD VERIFY AND COORDINATE DUCT AND PIPING DIMENSIONS BEFORE FABRICATION.
6. PROVIDE MISCELLANEOUS STEEL REQUIRED TO ENSURE PROPER INSTALLATION OF MECHANICAL SYSTEMS.
7. LOCATE VALVES, WATER HAMMER ARRESTERS, CLEANOUTS, DAMPERS, CONTROLS AND SIMILAR COMPONENTS SO THAT THEY ARE ACCESSIBLE.
8. COORDINATE ATTACHMENTS TO STRUCTURE TO VERIFY THAT ATTACHMENT POINTS ON EQUIPMENT AND STRUCTURE CAN ACCEPT SEISMIC, WEIGHT, AND OTHER LOADS IMPOSED.
9. MAINTAIN INDICATED FIRE AND SMOKE RATING OF WALLS, PARTITIONS, CEILINGS, AND FLOORS AT MECHANICAL PENETRATIONS. SEAL PENETRATIONS WITH FIRESTOP MATERIAL. PROVIDE MATERIAL IN ACCORDANCE WITH ASTM E 814 AND UL 1479 3M OR APPROVED. COMPLY WITH REQUIREMENTS SPECIFIED IN DIVISION 07.
10. PROVIDE FIREBLOCKING AND DRAFT STOPPING AT MECHANICAL PENETRATIONS IN COMBUSTIBLE CONCEALED SPACES PER THE INTERNATIONAL BUILDING CODE.
11. LOCATIONS AND SIZES OF FLOOR, WALL, AND ROOF OPENINGS SHALL BE COORDINATED WITH OTHER TRADES INVOLVED. INCLUDE IN THE COST OF MECHANICAL WORK, CUTTING, CORING, PATCHING AND PAINTING OF EXISTING WALLS, CEILINGS, FLOORS AND ROOFS AS REQUIRED TO ACCOMMODATE WORK AS INDICATED IN THE MECHANICAL CONTRACT DOCUMENTS, UNLESS SPECIFICALLY SHOWN ON ARCHITECTURAL DRAWINGS.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFEKEEPING OF HIS OWN PROPERTY ON THE JOB SITE. OWNER ASSUMES NO RESPONSIBILITY FOR PROTECTION OF PROPERTIES AGAINST FIRE, THEFT AND ENVIRONMENTAL CONDITIONS.
13. CLEAN THE JOB SITE DAILY AND REMOVE FROM THE PREMISES ANY DIRT AND DEBRIS CAUSE BY THE PERFORMANCE OF THE WORK INCLUDED IN THIS CONTRACT. BEFORE SUBSTANTIAL COMPLETION, CLEAN EQUIPMENT, FIXTURES, EXPOSED DUCTS, PIPING AND SIMILAR ITEMS.
14. PROVIDE EQUIPMENT THAT FITS INTO THE SPACE ALLOTTED AND ALLOWS ADEQUATE ACCEPTABLE CLEARANCE FOR INSTALLATION, REPLACEMENT, ENTRY, SERVICING AND MAINTENANCE. COORDINATE WITH OTHER TRADES TO ENSURE NO CONFLICT WITH REQUIRED CLEARANCES.
15. BUILDING SPACE IS LIMITED. STRONG ATTENTION TO DETAIL AND CARE MUST BE TAKEN WHEN DEVELOPING SHOP DRAWING SO ROUTING IS COORDINATED WITH OTHER DISCIPLINES.
16. MECHANICAL EQUIPMENT, PACKAGED UNITS, CONTROL PANELS, MOTOR STARTER, MOTOR CONTROLLERS, VARIABLE FREQUENCY DRIVES AND SIMILAR EQUIPMENT SHALL CARRY A SHORT CIRCUIT CURRENT RATING (SCCR) EQUAL TO OR GREATER THAN AVAILABLE FAULT CURRENT DELIVERED FROM ELECTRICAL SYSTEM. INCLUDE VISIBLE FACTORY NAMEPLATE FOR SUCH EQUIPMENT INDICATING SCCR OF EQUIPMENT IN ACCORDANCE WITH UL 1995 AND UL 508A.

PLUMBING:

1. DOMESTIC WATER TUBE, PIPE, FITTINGS, JOINING MATERIALS, SPECIALTIES, PLUMBING EQUIPMENT, PLUMBING FIXTURES, PLUMBING FITTINGS AND ALL OTHER APPURTENANCES IN CONTACT WITH DRINKING WATER SHALL BE LEAD-FREE EXCEPT THOSE EXPLICITLY EXEMPTED IN SECTION 3874 OF THE SAFE WATER DRINKING ACT. LEAD-FREE SHALL MEAN (A) NOT CONTAINING MORE THAN 0.2 PERCENT LEAD WHEN USED WITH RESPECT TO SOLDER AND FLUX; AND (B) NOT MORE THAN A WEIGHTED AVERAGE OF 0.25 PERCENT LEAD WHEN USED WITH RESPECT TO WETTED SURFACES OF DOMESTIC WATER TUBE, PIPE, FITTINGS, JOINING MATERIALS, SPECIALTIES, PLUMBING EQUIPMENT, PLUMBING FIXTURES, AND PLUMBING FITTINGS.
2. VALVES AND PIPING SPECIALTIES SHALL BE FULL SIZE OF PIPE UNLESS NOTED OTHERWISE.
3. VALVES SHALL BE INSTALLED SO THAT VALVE REMAINS IN SERVICE WHEN EQUIPMENT OR PIPING ON EQUIPMENT SIDE OF VALVE IS REMOVED.
4. PROVIDE FLEXIBLE CONNECTORS IN PIPING SYSTEMS CONNECTED TO EQUIPMENT WHICH REQUIRE VIBRATION ISOLATION.

HVAC/SHEET METAL:

1. DUCTWORK DIMENSIONS, AS SHOWN ON THE DRAWINGS, ARE INTERNAL CLEAR DIMENSIONS AND DUCT SIZE SHALL BE INCREASED TO COMPENSATE FOR DUCT LINING THICKNESS.
2. THE ANNULAR SPACE AROUND DUCTS THAT PENETRATE NON-FIRE RESISTANCE-RATED FLOOR ASSEMBLIES (AND ARE NOT INSTALLED IN A RATED SHAFT ENCLOSURE) SHALL BE PROTECTED WITH AN IBC APPROVED NONCOMBUSTIBLE MATERIAL THAT RESISTS THE FREE PASSAGE OF FLAME AND THE PRODUCTS OF COMBUSTION.
3. PROVIDE TEMPORARY COVERS OVER OPEN ENDS OF EQUIPMENT AND DUCTWORK DURING CONSTRUCTION.
4. PROVIDE THE FOLLOWING MINIMUM BRANCH DUCT SIZE TO DIFFUSERS, REGISTERS, AND GRILLES, UNLESS NOTED TO USE LARGER SIZE ON DRAWINGS:

ENERGY CODE: *(WASHINGTON STATE ENERGY CODE)*

1. MOTORS: COMPLY WITH MINIMUM FULL LOAD EFFICIENCIES LISTED IN THE WASHINGTON STATE ENERGY CODE.
2. PIPING AND DUCT INSULATION: COMPLY WITH THICKNESS AND TYPES LISTED IN THE WASHINGTON STATE ENERGY CODE.
3. DUCT SEALING: SEAL DUCT TRANSVERSE JOINTS AND LONGITUDINAL SEAMS PER THE WASHINGTON STATE ENERGY CODE.
4. RECORD DRAWINGS: PROVIDE PER THE WASHINGTON STATE ENERGY CODE.
5. OPERATION AND MAINTENANCE MANUALS: PROVIDE PER THE WASHINGTON STATE ENERGY CODE.
6. MAINTENANCE STAFF SYSTEMS OPERATIONAL TRAINING: PROVIDE PER THE WASHINGTON STATE ENERGY CODE.
7. SYSTEM BALANCING: PROVIDE PER THE WASHINGTON STATE ENERGY CODE.
8. MECHANICAL SYSTEMS COMMISSIONING: PROVIDE PER THE WASHINGTON STATE ENERGY CODE.
9. THIS BUILDING AND ITS ENERGY SYSTEMS HAVE BEEN DESIGNED TO COMPLY WITH THE WASHINGTON STATE ENERGY CODE. CONTRACTOR IS RESPONSIBLE FOR CORRECT INSTALLATION OF ENERGY CONSERVATION MEASURES.
10. BUILDING PRESSURE TESTING: COORDINATE PHASING OF BUILDING ENVELOPE LEAKAGE TESTING WITH MECHANICAL SYSTEM SCOPES OF WORK. TEMPORARILY CAP SYSTEMS AS REQUIRED TO FACILITATE LEAKAGE TESTING SCOPE OF WORK.

NON-STRUCTURAL MECHANICAL COMPONENTS:

1. THE FOLLOWING ITEMS ARE TAKEN DIRECTLY FROM THE INTERNATIONAL BUILDING CODE AND FROM THE AMERICAN SOCIETY OF CIVIL ENGINEERS (ASCE) STANDARD 7-16. THE CONTRACTOR SHALL REFER TO THE ABOVE FOR ADDITIONAL INFORMATION, EXCEPTIONS, AND FURTHER DESCRIPTIONS. THE CONTRACTOR SHALL ADHERE TO REQUIREMENTS AND AS SUCH, SHALL BE INCLUDED WITHIN BID.
2. IBC 1613.1 SCOPE: ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND NON-STRUCTURAL COMPONENTS THAT ARE PERMANENTLY ATTACHED TO STRUCTURES AND THEIR SUPPORTS AND ATTACHMENTS SHALL BE DESIGNED AND CONSTRUCTED TO RESIST THE EFFECTS OF EARTHQUAKE MOTIONS IN ACCORDANCE WITH CHAPTERS 11, 12, 13, 15, 17 AND 18 OF ASCE 7-16, AS APPLICABLE.
3. IBC 1705.11 CONTRACTOR RESPONSIBILITY: THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND CONSTRUCTION OF A SEISMIC-FORCE-RESISTING SYSTEM, DESIGNATED SEISMIC SYSTEM, OR SEISMIC-RESISTING COMPONENT LISTED IN THE STATEMENT OF SPECIAL INSPECTIONS.
4. HANGERS AND SEISMIC BRACING FOR THE MECHANICAL SYSTEMS SHALL BE DESIGNED AND PROVIDED BY THE MECHANICAL CONTRACTOR. REFER TO CONTRACTOR SHOP DRAWINGS FOR LOCATIONS OF EQUIPMENT AND HUNG MECHANICAL SYSTEMS. THE MECHANICAL CONTRACTOR SHALL COORDINATE THE SUPPORT SYSTEMS AND DESIGN LOADS FOR HUNG MECHANICAL SYSTEMS WITH THE GENERAL CONTRACTOR AND OTHER TRADES THAT MAY BE IMPACTED.

EXISTING MECHANICAL:

1. WORK SHALL BE PERFORMED IN A CLEAN AND WORKMANLIKE MANNER. CARE SHALL BE EXERCISED TO MINIMIZE ANY INCONVENIENCE OR DISTURBANCE TO OTHER AREAS OF THE BUILDING WHICH ARE TO REMAIN IN OPERATION. ISOLATE WORK AREAS BY MEANS OF TEMPORARY PARTITIONS AND/OR TARPS TO KEEP DUST AND DIRT WITHIN THE CONSTRUCTION AREA.
2. EXISTING MATERIALS THAT ARE REMOVED SHALL NOT BE REUSED IN NEW SYSTEMS, EXCEPT WHERE INDICATED AS BEING RELOCATED.
3. WHERE INDICATED, DUCTWORK AND PIPING OR PORTIONS OF DUCTWORK AND PIPING SHALL BE REUSED. REFER TO DRAWING PLANS FOR POINTS OF CONNECTIONS.
4. PROVIDE TEMPORARY SUPPORT OF EXISTING MECHANICAL SYSTEMS WHERE REQUIRED BY DEMOLITION OR ALTERATION OF EXISTING STRUCTURE DURING CONSTRUCTION. COORDINATE WITH GENERAL CONTRACTOR AND PROVIDE ALL NECESSARY PIPE, DUCT AND EQUIPMENT SUPPORTS AND HANGERS TO MAINTAIN INTEGRITY, SAFETY AND PROPER OPERATION OF EXISTING MECHANICAL SYSTEMS FOR THE DURATION OF THE WORK.

DEMOLITION:

1. TAKE CAUTION IN DEMOLITION OF MECHANICAL EQUIPMENT.
2. CONTRACTOR SHALL REMOVE AND LEGALLY DISPOSE OF ALL PIPING, DUCTWORK, AND EQUIPMENT INDICATED ON DRAWINGS INCLUDING ALL ASSOCIATED INSULATION, HANGERS, VALVES, PLENUM WALLS, DAMPERS, WIREMOLD, WIRING, CONTROLS, AND APPURTENANCES ASSOCIATED WITH EACH PIECE OF EQUIPMENT.
3. EXISTING CONTROL PATHWAYS MAY BE RE-USED. COORDINATE CONTROLS DEMO WORK PRIOR TO DEMOLITION. REMOVE ALL EXISTING THERMOSTATS SHOWN ON THE DRAWINGS ALONG WITH ASSOCIATED WIRING AND RACEWAYS.
4. WHERE EXISTING ITEMS PENETRATE A WALL OR ROOF, CONTRACTOR SHALL PROVIDE INFILL AT (E) PENETRATIONS THROUGH WALL/ROOF WITH LIKE MATERIALS. PATCH & REPAIR TO MATCH SURROUNDING SURFACES INCLUDING PAINT.
5. CONTRACTOR SHALL PROVIDE TEMPORARY SUPPORT OF EXISTING MECHANICAL EQUIPMENT WHERE REQUIRED BY DEMOLITION OR ALTERATION OF EXISTING STRUCTURE DURING CONSTRUCTION. COORDINATE WITH GC AND PROVIDE NECESSARY SUPPORTS AND HANGERS TO MAINTAIN INTEGRITY, SAFETY AND PROPER OPERATION OF EXISTING MECHANICAL SYSTEMS.
6. THE OWNER HAS THE RIGHT TO RETAIN OWNERSHIP OF ANY MATERIALS BEING REMOVED. DELIVER ITEMS TO THE OWNER'S REPRESENTATIVE AS INDICATED IN THE CONTRACT DOCUMENTS. NOTIFY OWNER IN WRITING AT LEAST 7 DAYS IN ADVANCE OF DEMOLITION.

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Client
ABERDEEN SCHOOL DISTRICT 5

Project
ABERDEEN SCHOOL DISTRICT 5

2025-007
ABERDEEN HIGH SCHOOL
410 N G St., Aberdeen, WA 98520

Issue & Revision Dates
7 APRIL 2026 BID SET

BID SET

Keyplan

NOTE: DRAWING MAY BE REDUCED
0 2' 4' 8'

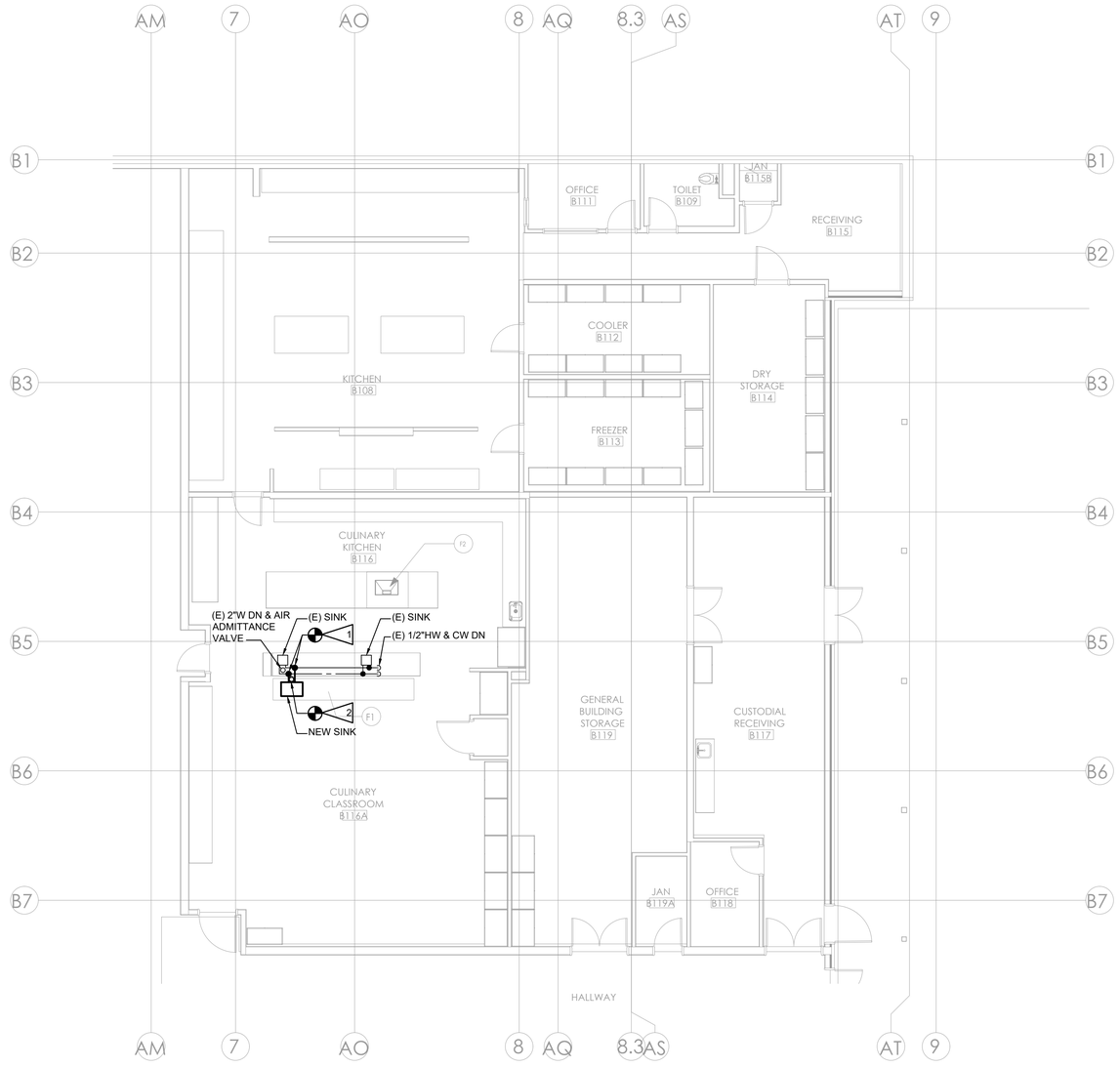
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MECHANICAL ABBREVIATIONS AND GENERAL NOTES

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SHEET NOTES:

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2. SLOPE WASTE/VENT PIPING AT MIN 1/4" PER FOOT.
3. PROVIDE CLEANOUTS AT EVERY SINK AND LAVATORY. WHERE THE UPPER TERMINUS OF BRANCH LINES EXCEED 5 FEET IN LENGTH DO NOT END WITH A SINK OR LAVATORY, PROVIDE A WALL OR FLOOR CLEANOUT PER UPC 707.4.
4. DO NOT PROVIDE DOUBLE WYE FITTINGS IN HORIZONTAL SANITARY SEWER SYSTEM.

FLAG NOTES:

1 CONNECT NEW SINK FAUCET TO EXISTING CW & HW ROUTED IN ADJACENT CABINET. PROVIDE COPPER NEW SUPPLY PIPING AND PROVIDE CHROME PLATED LEAD FREE BRASS, ONE QUARTER TURN, BALL TYPE OR COMPRESSION VALVE SUPPLY STOPS WITH INLET CONNECTION MATCHING SUPPLY PIPING.

2 CONNECT NEW SINK WASTE TO EXISTING 2" WASTE IN ADJACENT CABINET. PROVIDE CAST IRON NEW WASTE/VENT PIPING AND PROVIDE GRID TYPE 1-1/2" OFFSET AND STRAIGHT TAILPIECE SINK DRAIN AND CHROME-PLATED, TWO PIECE, CAST-BRASS TRAP AND SWIVEL ELBOW WITH 17 GAUGE-THICK BRASS TUBE TO WALL; AND CHROME PLATED, BRASS OR STEEL WALL FLANGE. PROVIDE AIR ADMITTANCE VALVE ON VENT.

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

N

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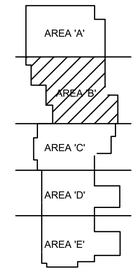
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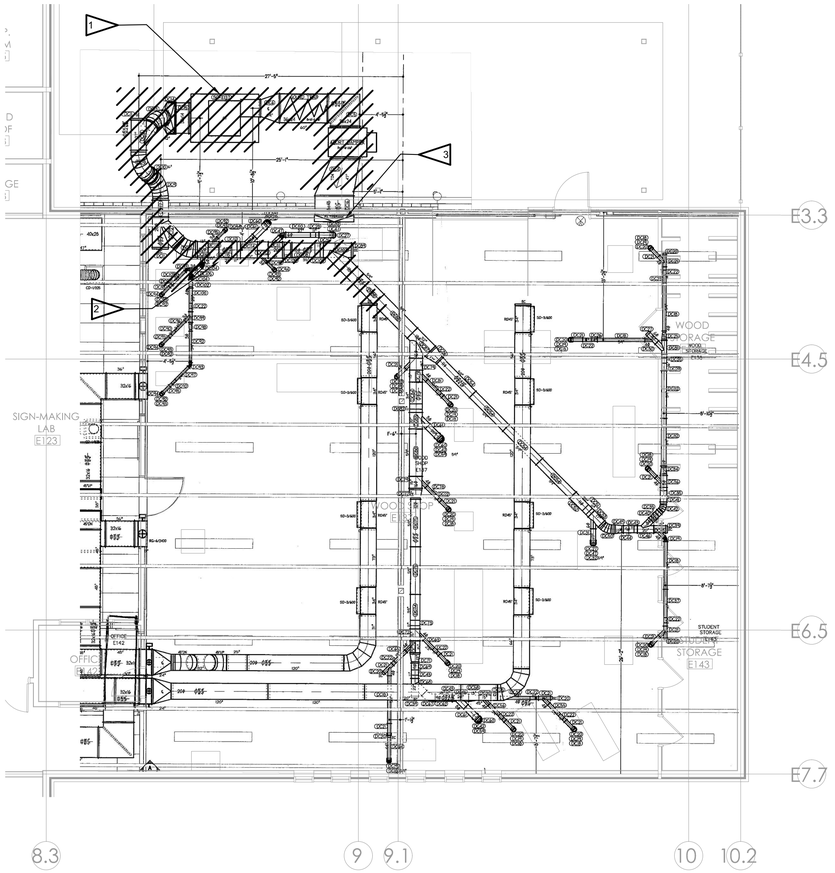
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PLUMBING PLAN - CULINARY

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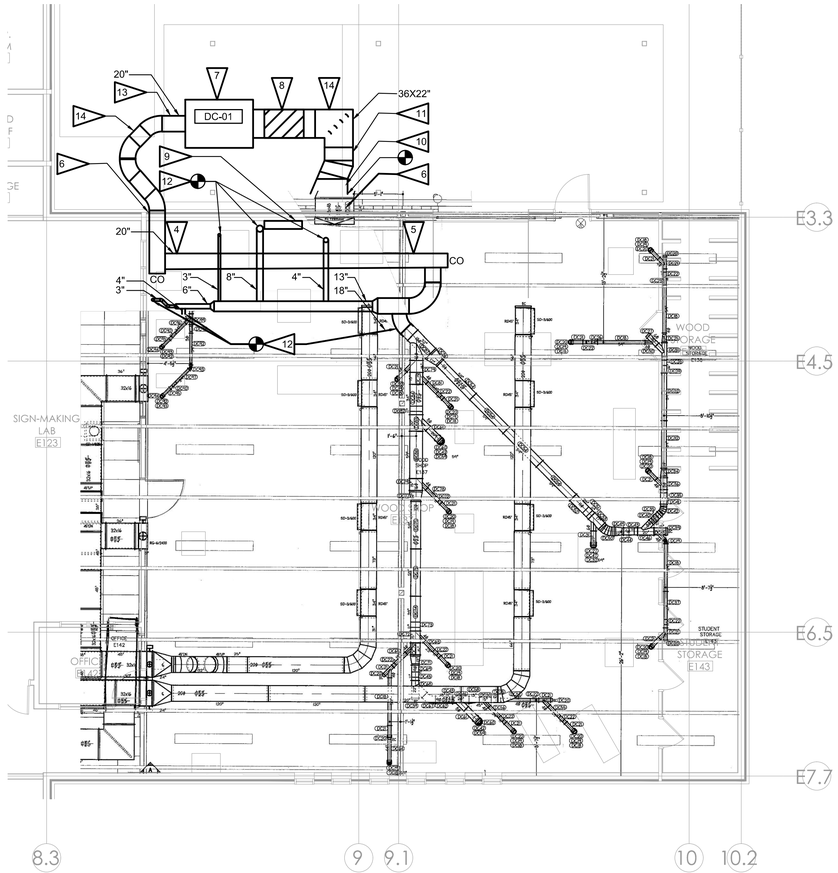
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1 HVAC DEMO PLAN - WOOD SHOP

1/8" = 1'-0"



1 HVAC PLAN - WOOD SHOP

1/8" = 1'-0"

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2. MECHANICAL CONTRACTOR SHALL COORDINATE DEMOLITION WORK WITH ELECTRICAL CONTRACTOR FOR DISCONNECTION OF ELECTRICAL POWER.
3. BALANCE NEW DUST COLLECTOR SYSTEM AND REBALANCE SAWDUST COLLECTOR BRANCH INLETS TO EQUIPMENT.

FLAG NOTES:

1. DEMO EXISTING DUST COLLECTOR, ALL EXTERIOR DUCTWORK AND ASSOCIATED SUPPORT STRUCTURES, APPURTENANCES INCLUDING SPARK DETECTOR AND EXTINGUISHING SYSTEM. EXTERIOR WALL PENETRATIONS TO BE RE-USED FOR CONNECTION TO NEW SYSTEM.
2. DEMO EXISTING DUST COLLECTOR EXHAUST MAIN WIHTIN BUILDING. DISCONNECT EXISTING DROPS TO EQUIPMENT FROM MAIN FOR RE-CONFIGURATION AND RE-CONNECTION TO NEW SYSTEM.
3. EXISTING RETURN TO SPACE GRILLE AND FILTER SYSTEM WITHIN THE BUILDING TO REMAIN FOR RE-CONNECTION TO NEW SYSTEM.
4. SAWDUST SPARK EXTINGUISHING SYSTEM CONNECTION. REFER TO M7.01.
5. SAWDUST SPARK DETECTOR, LOCATE MIN 25' FROM EXTINGUISHING SYSTEM.
6. RE-USE EXISTING WALL PENETRATION. SLEEVE AND SEAL WATERTIGHT.
7. INSTALL SAWDUST COLLECTOR PER MANUFACTURERS INSTALLATION REQUIREMENTS. REFER TO EQUIPMENT SCHEDULE NOTES FOR ADDITIONAL CLARIFICATION ON FIELD INSTALLED SHIPPED LOOSE EQUIPMENT.
8. COORDINATE INSTALLATION OF SILENCER SHIPPED LOOSE WITH DUST COLLECTOR EXTERIOR DUCTWORK.
9. SAWDUST COLLECTION SYSTEM CONTROL PANEL. COORDINATE LOCATION WITH ARCHITECT AND POWER CONNECTION WITH ELECTRICAL CONTRACTOR.
10. DUST COLLECTOR MAGNAHELIC GAUGE AND FILTER.
11. DUST COLLECTOR ABORT DAMPER.
12. CONNECT TO EXISTING RUNNOUT/DROP.
13. PROVIDE EXPLOSION ISOLATION, DUAL-FLAP ISOLATION VALVE.
14. PROVIDE SUPPORT STRUCTURES FOR NEW DUCTWORK. MAINTAIN CLEARANCE FOR UNIT AND WALKWAY.

SAWDUST COLLECTOR SCHEDULE

TAG	AREA SERVED	LOCATION	MANUFACTURER / MODEL	CFM (CFM)	ESP (IN)	ELECTRICAL FAN MOTOR (HP)	ELECTRICAL SHAKER MOTOR (HP)	ELECTRICAL V/Ø (HP)	DUST CART STORAGE (QTY) (GAL) (#) (GAL)	DIMENSIONS (LxWxHT) (INxINxIN)	WEIGHT (LBS)	NOTES
DC-01	WOOD SHOP	EXTERIOR	AAF / AR6-25	8545	14	25	3/4	460/3	4-55	85x61x156	5000	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13

NOTES:

1) PROVIDE EXPLOSION PROOF AND WEATHER RATED MOTORS. FAN MOTOR AND SHAKER MOTORS SHALL BE SINGLE POINT POWER CONNECTION.
2) PROVIDE DIRECT DRIVE FAN WITH VFD.
3) PROVIDE SPARK DETECTION AND EXTINGUISHING SYSTEM CONTROLLER, SPARK DETECTORS, AND EXTINGUISHING VALVE/NOZZLES. PROVIDE REQUIRED NUMBER OF SPARK DETECTORS BASED ON DUCT SIZE. PROVIDE REQUIRED NUMBEROF EXTINGUISHING NOZZLES BASED ON DUCT SIZE. SPARK DETECTION AND EXTINGUISHING SYSTEM CONTROLLER SHALL HAVE INTEGRAL BLINKING LIGHT AND BUZZER. PROVIDE CONTROL OUTPUT TO FIRE ALARM PANEL.
4) PROVIDE FIRE ABORT DAMPER, AND PHOTOHELIC GAUGE. WIRE TO SPARK DETECTION AND EXTINGUISHING SYSTEM CONTROLLER.
5) PROVIDE WITH (4) 55 GALLON DRUMS, EXPLOSION VENT, EXPLOSION RELIEF PANEL AND SOUNDTRAP DOWNSTREAM OF FAN. DEFLECTOR PLATE SHALL BE ORIENTATE TOWARDS EXTERIOR WALL.
6) PROVIDE EXPLOSION DOORS WITH PROTECTIVE GAGES AND DEFLECTOR PLATES.
7) PROVIDE DUST SWITCH WITH SENSORS FOR UP TO 15 MACHINES, AUTO-MANUAL SWITCH AND ADJUSTABLE ON/OFF DELAYS. WIRE TO SPARK DETECTION AND EXTINGUISHING SYSTEM CONTROLLER.
8) PROVIDE REMOTE START/STOP SWITCH AND EMERGENCY STOP PUSHBUTTONS. PROVIDE REQUIRED NUMBER OF PUSHBUTTONS BASED ON NUMBER OF EXITS.
9) PROVIDE REMOTE MOUNTED CONTROL PANEL, SHIPPED LOOSE FOR FIELD INSTALL.
10) EQUIPMENT SHALL BE PROVIDED WITH A VISIBLE NAMEPLATE INDICATING THE SCCR RATING IN ACCORDANCE WITH UL REQUIREMENTS.
11) PROVIDE WITH SEISMICALLY RATED SUPPORT STRUCTURE ANCHORED TO EXISTING CONCRETE.
12) PROVIDE WITH INLET AND RECIRCULATION FILTERS.
13) FIELD VERIFY BLOWER AND SILENCER ORIENTATION PRIOR TO ORDER, MATCH EXISTING, EXISTING EXTERIOR WALL PENETRATIONS SHALL BE RE-USED.

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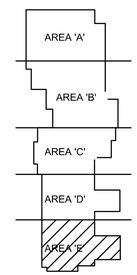
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Keyplan



NOTE: DRAWING MAY BE REDUCED
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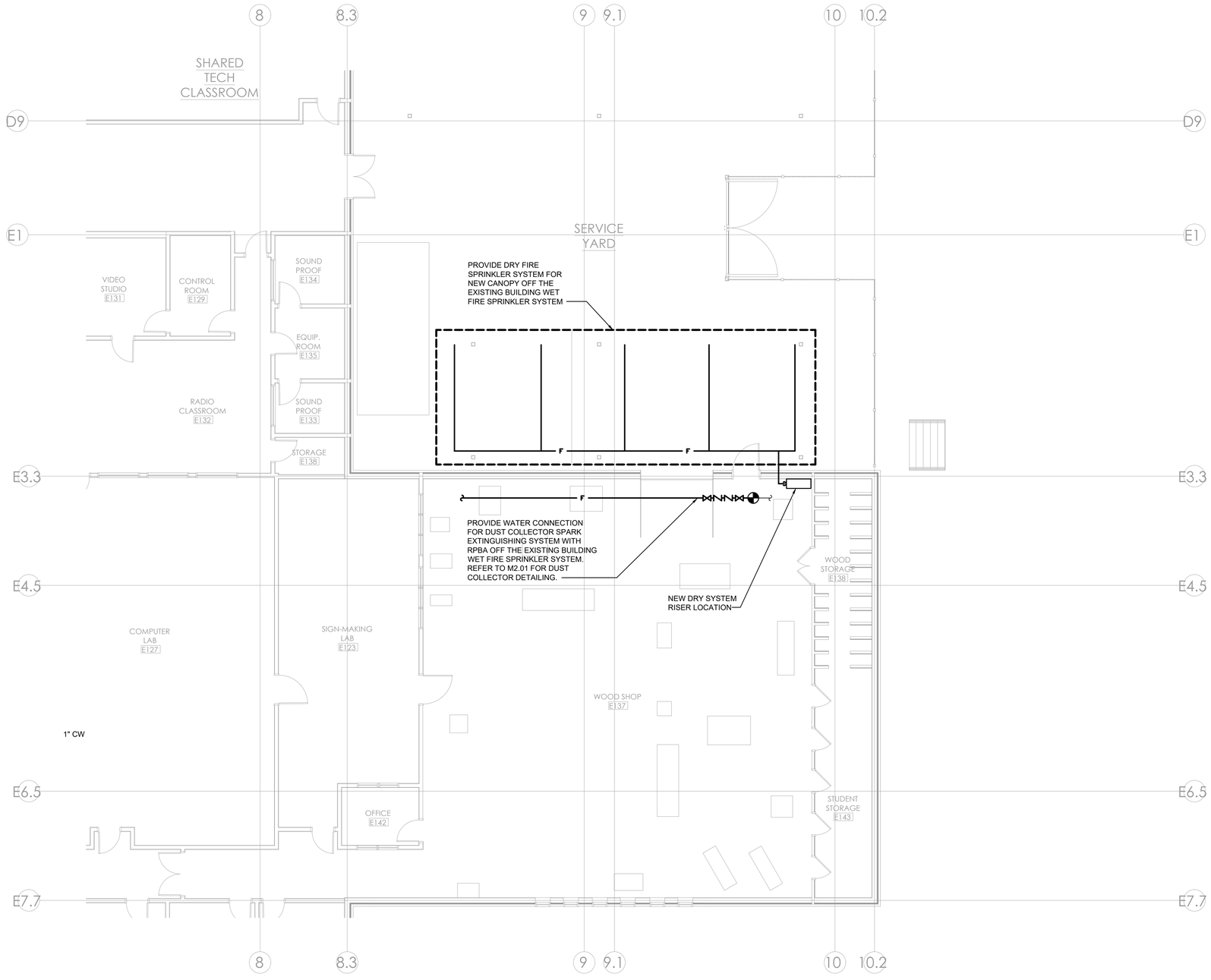
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HVAC PLANS - WOOD SHOP

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1 FIRE SPRINKLER PLAN - WOOD SHOP
1/8" = 1'-0"

N

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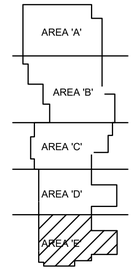
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FIRE SPRINKLER PLAN - WOOD SHOP

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REFERENCE SYMBOLS

- NEW ELECTRICAL WORK
- EXISTING ELECTRICAL WORK
- ENLARGED PLAN BORDER
- MATCHLINE
- ITEM TO BE REMOVED
- AREA NOT IN CONTRACT
- EXISTING TO REMAIN
- EXISTING TO BE REMOVED
- NEW
- E3.1 — MATCHLINE ARROW
- 1 / E-001 — SECTION IDENTIFIER
- 1 / E-001 — DETAIL OR DRAWING IDENTIFIER
- 1 — REVISION TAG
- AHU-XXX — EQUIPMENT IDENTIFIER
- X — SHEET NOTE

RACEWAY SYMBOLS

- CONDUIT IN CEILING OR WALL
- CONDUIT IN FLOOR OR BELOW GRADE
- 4PN-102/1,3,5 — HOME RUN TO BRANCH CIRCUIT PANELBOARD
- CABLE TRAY - LADDER TYPE

DIAGRAM SYMBOLS

- CIRCUIT BREAKER
- AF — ARC FLASH ENERGY REDUCTION
- GF — GROUND FAULT RELAY
- M — METER
- TRANSFORMER
- GROUND
- CURRENT TRANSFORMER
- SPD — SURGE PROTECTIVE DEVICE
- TVSS — TRANSIENT VOLTAGE SURGE SUPPRESSOR
- TRANSFER SWITCH
- X.XXKAIC — FAULT CURRENT TAG
- FUSED SWITCH
- SINGLE POLE SINGLE THROW SWITCH
- FUSE

POWER SYMBOLS

- JUNCTION BOX
- JUNCTION BOX CEILING
- JUNCTION BOX FLOOR
- POWER SWITCH
- DUPLEX RECEPTACLE FLOOR
- DUPLEX RECEPTACLE WALL
  - XX" = MOUNTING HEIGHT
  - G = GROUND FAULT CIRCUIT INTERRUPTER
  - WP = WEATHERPROOF
  - C = CONTROLLED
- FOURPLEX RECEPTACLE FLOOR
- FOURPLEX RECEPTACLE WALL
- SPECIAL RECEPTACLE CEILING
- SPECIAL RECEPTACLE WALL
- SAFETY DISCONNECT SWITCH (FUSED)
- PANELBOARD
- EQUIPMENT CONNECTION. REFER TO MOTOR AND EQUIPMENT SCHEDULE FOR REQUIREMENTS

LIGHTING SYMBOLS

- DIMMER SWITCH
- KEYED SWITCH
- OCCUPANCY SENSOR CEILING
- OCCUPANCY SENSOR WALL
- SINGLE POLE SWITCH
- THREE-WAY SWITCH
- FOUR-WAY SWITCH
- OCCUPANCY SENSOR SWITCH
- LINEAR FIXTURE
- WALL LUMINAIRE
- PHOTOCELL

FIRE ALARM SYMBOLS

- HEAT DETECTOR
- SMOKE DETECTOR
- DUCT SMOKE DETECTOR
- PULL STATION
- SPEAKER STROBE WALL
- SPEAKER STROBE CEILING
- STROBE WALL
- STROBE CEILING

ABBREVIATIONS:

1P	1 POLE (2P, 3P, 4P, ETC.)
A	AMPERE
AC	ABOVE COUNTER
ACLG	ABOVE CEILING
ADO	AUTOMATIC DOOR OPENER
AF	AMP FRAME
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AFI	ARC FAULT CIRCUIT INTERRUPTER
AHU	AIR HANDLING UNIT
AL	ALUMINUM
ALT	ALTERNATE
AMP	AMPERE
AMPL	AMPLIFIER
ANNUN	ANNUNCIATOR
APPROX	APPROXIMATELY
AQ-STAT	AQUASTAT
ARCH	ARCHITECT, ARCHITECTURAL
AS	AMP SWITCH
AT	AMP TRIP
ATS	AUTOMATIC TRANSFER SWITCH
AUTO	AUTOMATIC
AUX	AUXILIARY
AV	AUDIO VISUAL
AWG	AMERICAN WIRE GAUGE
BATT	BATTERY
BD	BOARD
BLDG	BUILDING
BMS	BUILDING MANAGEMENT SYSTEM
C	CONDUIT
CAB	CABINET
CAT	CATALOG
CATV	CABLE TELEVISION
CB	CIRCUIT BREAKER
CCTV	CLOSED CIRCUIT TELEVISION
CKT	CIRCUIT
CLG	CEILING
COMB	COMBINATION
CMPR	COMPRESSOR
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUATION OR CONTINUOUS
CONTR	CONTRACTOR
CONV	CONVECTOR
CP	CIRCULATING PUMP
CRT	CATHODE-RAY TUBE
CT	CURRENT TRANSFORMER
CTR	CENTER
CU	COPPER
DCP	DOMESTIC WATER CIRCULATING PUMP
DEPT	DEPARTMENT
DET	DETAIL
DIA	DIAMETER
DISC	DISCONNECT
DIST	DISTRIBUTION
DN	DOWN
DPR	DAMPER
DS	SAFETY DISCONNECT SWITCH
DT	DOUBLE THROW
DWG	DRAWING
EC	ELECTRICAL CONTRACTOR
ELEC	ELECTRIC, ELECTRICAL
ELEV	ELEVATOR
ELU	EMERGENCY LIGHTING UNIT
EM	EMERGENCY
EMS	ENERGY MANAGEMENT SYSTEM
EMT	ELECTRICAL METALLIC TUBING
EP	ELECTRIC PNEUMATIC
EQUIP	EQUIPMENT
EWC	ELECTRIC WATER COOLER
EXIST	EXISTING
EXH	EXHAUST
EXP	EXPLOSION PROOF
FA	FIRE ALARM
FABP	FIRE ALARM BOOSTER POWER
FACP	FIRE ALARM CONTROL PANEL
FCU	FAN COIL UNIT
FIXT	FIXTURE
FLR	FLOOR
FLUOR	FLUORESCENT
FU	FUSE
FUDS	FUSED SAFETY DISCONNECT SWITCH
GA	GAUGE
GAL	GALLON
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GEN	GENERATOR
GFI	GROUND FAULT CIRCUIT INTERRUPTER
GFP	GROUND FAULT PROTECTOR
GND	GROUND
GRS	GALVANIZED RIGID STEEL (CONDUIT)
GYP BD	GYPSUM BOARD
HOA	HANDS-OFF-AUTOMATIC SWITCH
HORIZ	HORIZONTAL
HP	HORSEPOWER
HPF	HIGH POWER FACTOR
HT	HEIGHT
HTG	HEATING
HTR	HEATER
HV	HIGH VOLTAGE
HVAC	HEATING, VENTILATING AND AIR CONDITIONING
IC	INTERRUPTING CAPACITY
IG	ISOLATED GROUND
IMC	INTERMEDIATE METAL CONDUIT
INCAND	INCANDESCENT
IR	INFRARED
I/W	INTERLOCK WITH
J-BOX	JUNCTION BOX
KV	KILOVOLT
KVA	KILOVOLT-AMPERE
KVAR	KILOVOLT-AMPERE REACTIVE
KW	KILOWATT
KWH	KILOWATT HOUR
LOC	LOCATE OR LOCATION
LT	LIGHT
LTG	LIGHTING
LTNG	LIGHTNING
LV	LOW VOLTAGE
MAX	MAXIMUM
MAG.S	MAGNETIC STARTER
M/C	MOMENTARY CONTACT
MC	MECHANICAL CONTRACTOR
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MDC	MAIN DISTRIBUTION CENTER
MDP	MAIN DISTRIBUTION PANEL
MFR	MANUFACTURER
MFS	MAIN FUSED DISCONNECT SW
MH	MANHOLE
MIC	MICROPHONE
MIN	MINIMUM
MISC	MISCELLANEOUS
MLO	MAIN LUGS ONLY
MMS	MANUAL MOTOR STARTER
MOA	MULTIOUTLET ASSEMBLY
MSP	MOTOR STARTER PANELBOARD
MSBD	MAIN SWITCHBOARD
MT	MOUNT
MT.C	EMPTY CONDUIT
MTS	MANUAL TRANSFER SWITCH
MTR	MOTOR, MOTORIZED
N.C.	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION
NFDS	NON-FUSED SAFETY DISCONNECT SWITCH
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
N.O.	NORMALLY OPEN
NPF	NORMAL POWER FACTOR
NTS	NOT TO SCALE
OFCI	OWNER-FURNISHED, CONTRACTOR-INSTALLED
OFOI	OWNER-FURNISHED, OWNER-INSTALLED
OH	OVERHEAD
OL	OVERLOADS
PA	PUBLIC ADDRESS
PB	PULL BOX OR PUSHBUTTON
PE	PNEUMATIC ELECTRIC
PED	PEDESTAL
PF	POWER FACTOR
PH	PHASE
PIV	POST INDICATING VALVE
PNL	PANEL
PP	POWER POLE
PR	PAIR
PRI	PRIMARY
PROJ	PROJECTION
PRV	POWER ROOF VENTILATOR
PT	POTENTIAL TRANSFORMER
PVC	POLYVINYL CHLORIDE (CONDUIT)
PWR	POWER
QUAN	QUANTITY
RCPT	RECEPTACLE
REQD	REQUIRED
RM	ROOM
RSC	RIGID STEEL CONDUIT
RTU	ROOF TOP UNIT
SC	SURFACE CONDUIT
SEC	SECONDARY
SHT	SHEET
SIM	SIMILAR
S/N	SOLID NEUTRAL
SPEC	SPECIFICATION
SPKR	SPEAKER
SP	SPARE
SR	SURFACE RACEWAY
SS	STAINLESS STEEL
SSW	SELECTOR SWITCH
S/S	STOP/START PUSHBUTTONS
STA	STATION
STD	STANDARD
SURF	SURFACE MOUNTED
SW	SWITCH
SWBD	SWITCHBOARD
SYM	SYMMETRICAL
SYS	SYSTEM
TEL	TELEPHONE
TEL/DATA	TELEPHONE/DATA
TERM	TERMINAL
TL	TWIST LOCK
TR	TAMPER RESISTANT
T-STAT	THERMOSTAT
TTC	TELEPHONE TERMINAL CABINET
TV	TELEVISION
TVTC	TELEVISION TERMINAL CABINET
TYP	TYPICAL
UC	UNDER COUNTER
UE	UNDERGROUND ELECTRICAL
UG	UNDERGROUND
UH	UNIT HEATER
UT	UNDERGROUND TELEPHONE
UTIL	UTILITY
UV	ULTRAVIOLET
V	VOLT
VA	VOLT-AMPERES
VDT	VIDEO DISPLAY TERMINAL
VERT	VERTICAL
VFD	VARIABLE FREQUENCY DRIVE
VOL	VOLUME
W	WATT
W/	WITH
WG	WIRE GUARD
WH	WATER HEATER
W/O	WITHOUT
WP	WEATHERPROOF
XFMR	TRANSFORMER
XFR	TRANSFER
∠	ANGLE
@	AT
▲	DELTA
'	FEET
"	INCHES
#	NUMBER
Ø	PHASE
C	CENTER LINE
P	PLATE

ELECTRICAL SHEET LIST

E0.01	ELECTRICAL LEGEND AND ABBREVIATIONS
E0.02	ELECTRICAL GENERAL NOTES
E0.03	MOTOR AND EQUIPMENT WIRING SCHEDULE
E0.04	PANEL SCHEDULES
E0.05	LIGHTING NOTES AND SCHEDULES
E1.01	OVERALL ELECTRICAL PLAN AREA C, D & E
ED3.11	DEMO POWER - FIRST FLOOR WOOD SHOP
E2.11	LIGHTING - FIRST FLOOR WOOD SHOP
E3.11	POWER - FIRST FLOOR WOOD SHOP
E8.01	ELECTRICAL DIAGRAMS
E8.02	ELECTRICAL DIAGRAMS
E10.01	ELECTRICAL CONTROL DIAGRAMS

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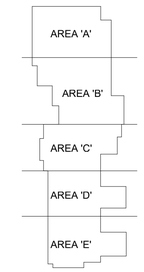
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ELECTRICAL LEGEND AND ABBREVIATIONS

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ELECTRICAL GENERAL NOTES:

GENERAL:

1. FOR PURPOSES OF THESE DOCUMENTS, "NORMAL", "TYPICAL", AND "STANDARD" SHALL MEAN CONSISTENT WITH INDUSTRY PRACTICE FOR FACILITIES OF SIMILAR TYPE, AGE, OCCUPANCY, AND CONSTRUCTION.
2. WHERE USED, THE TERM "PROVIDE" SHALL MEAN "FURNISH AND INSTALL".
3. BRANCH CIRCUITING INDICATED ON PLANS AND SCHEDULES IS BASED UPON EXISTING PLANS AND SITE OBSERVATION. FIELD VERIFY AND PERFORM CIRCUIT TRACING ON ALL AFFECTED CIRCUITS AND NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO COMMENCEMENT OF WORK.
4. PROVIDE ADDITIONAL PULL BOXES TO MINIMIZE TOTAL BEND RADIUS TO 270 DEGREES FOR POWER CONDUCTORS AND 180 DEGREES FOR LOW VOLTAGE CABLING. SIZE PULL BOXES PER NEC.
5. REVIEW ALL CONTRACT DOCUMENTS AND FIELD VERIFY EXISTING CONDITIONS PRIOR TO ROUGH-IN AND INSTALLATION. COORDINATE WORK WITH ALL TRADES AND DISCIPLINES.
6. INCLUDE COSTS ASSOCIATED WITH NORMAL TRADE COORDINATION, ROUTING ADJUSTMENTS, OFFSETS, AND MINOR RELOCATION REQUIRED TO AVOID REASONABLY DISCOVERABLE CONFLICTS IN THE BASE BID.
7. SUBMITTALS SHALL BE COMPLETE AND SHALL IDENTIFY ALL INSTALLATION REQUIREMENTS INCLUDING POWER, SUPPORT, CLEARANCE, ACCESS, AND ENVIRONMENTAL REQUIREMENTS. INCOMPLETE SUBMITTALS OR REQUIREMENTS IDENTIFIED AFTER APPROVED SUBMITTALS SHALL NOT BE BASIS FOR ADDITIONAL COST OR TIME UNLESS DIRECTED BY ENGINEER.
8. MANUFACTURER OR VENDOR RECOMMENDATIONS INFORMED AFTER APPROVED SUBMITTALS SHALL NOT BE BASIS FOR ADDITIONAL COST OR TIME UNLESS ACCEPTED BY ENGINEER VIA FORMAL REVISION.
9. COORDINATE WORK SEQUENCING AND INSTALLATION TIMING WITH OTHER TRADES AND PROJECT SCHEDULE. FAILURE TO COORDINATE INSTALLATION SEQUENCE SHALL NOT BE BASIS FOR ADDITIONAL COST OR TIME.
10. FIELD COORDINATE FINAL MECHANICAL AND EQUIPMENT LOCATIONS ALONG WITH CONNECTION REQUIREMENTS, CONNECTION LOCATIONS, AND CONTROL WIRING PRIOR TO ROUGH-IN.
11. VERIFY THE PLACEMENT, WIRING REQUIREMENTS, AND EXACT LOCATION OF POINT CONNECTION FOR ALL HVAC AND PLUMBING EQUIPMENT WITH THE HVAC AND PLUMBING CONTRACTORS PRIOR TO ROUGH-IN. COORDINATE LOCATION/INSTALLATION OF DISCONNECTS AND WIRING WITH RESPECTIVE CONTRACTORS.
12. PROVIDE ALL LINE VOLTAGE POWER CIRCUITING, DISCONNECTS, AND FINAL CONNECTIONS TO MECHANICAL EQUIPMENT, CONTROL PANELS, MOTOR CONTROLLERS, VFDs, AND SIMILAR EQUIPMENT. CONTRACTOR SHALL REVIEW CONTRACT DOCUMENTS AND APPROVED EQUIPMENT AND CONTROLS SUBMITTALS AND COORDINATE WITH CONTROLS CONTRACTOR PRIOR TO INSTALLATION. COSTS ASSOCIATED WITH NORMAL POWER CONNECTION AND CONTROL INTERFACE POWER SHALL BE INCLUDED IN THE BASE BID. CONTRACTOR SHALL NOTIFY ENGINEER OF ADDITIONAL REQUIREMENTS NOT INDICATED IN CONTRACT DOCUMENTS PRIOR TO INSTALLATION.
13. IDENTIFY AND REPORT DISCOVERED CONFLICTS IN WRITING PRIOR TO INSTALLATION. INSTALLATION PERFORMED WITHOUT PRIOR COORDINATION OR CONFLICT RESOLUTION SHALL BE CORRECTED AT NO ADDITIONAL COST TO OWNER.
14. COORDINATE EQUIPMENT CONNECTION LOCATIONS WITH MANUFACTURERS' CERTIFIED DRAWINGS.
15. COORDINATE ELECTRICAL, COMMUNICATIONS, AND ELECTRONIC SAFETY AND SECURITY WORK PRIOR TO INSTALLATION. REQUIRED EQUIPMENT ACCESS AND CODE REQUIRED CLEARANCES SHALL TAKE PRECEDENCE OVER CONDUIT ROUTING.
16. PROVIDE CONDUCTORS IN RACEWAY, UNLESS NOTED OTHERWISE. PROVIDE METAL RACEWAY WITHIN THE STRUCTURE ABOVE THE FLOOR SLAB. PROVIDE PVC RACEWAY BELOW THE FLOOR SLAB AND UNDERGROUND RACEWAY OUTSIDE THE STRUCTURE.
17. CONDUIT AND WIRE IS NOT PERMITTED TO BE INSTALLED BELOW FLOOR SLAB UNLESS INDICATED ON PLAN BY DASHED CONDUIT.
18. LEAVE THE SITE CLEAN AND READY FOR OCCUPANCY. REMOVE DIRT, DEBRIS, EMPTY CARTONS, TOOLS, CONDUIT AND WIRE SCRAPS AND MISCELLANEOUS SPARE EQUIPMENT AND MATERIALS USED IN THIS DIVISION OF THE WORK DURING CONSTRUCTION. COMPONENTS SHALL BE FREE OF DUST, GRIT AND FOREIGN MATERIALS AND LEFT IN NEW CONDITION BEFORE FINAL ACCEPTANCE OF WORK.
19. DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT, DESIGN INTENT, AND POINTS OF CONNECTION. DRAWINGS DO NOT NECESSARILY SHOW ALL OFFSETS, ROUTING, FITTINGS, SUPPORTS, OR INCIDENTAL COMPONENTS REQUIRED FOR COMPLETE INSTALLATION. PROVIDE MATERIALS AND LABOR REQUIRED FOR COMPLETE AND OPERABLE SYSTEMS IN ACCORDANCE WITH CONTRACT DOCUMENTS AND GOVERNING REQUIREMENTS. QUANTITIES OF INCIDENTAL MATERIALS SHALL BE INCLUDED AS REQUIRED FOR COMPLETE INSTALLATION.
20. ELECTRICAL INSTALLATION SHALL BE NEAT, PLUMB, LEVEL, AND IN ACCORDANCE WITH NECA STANDARD PRACTICES.
21. SUBMIT ALL DOCUMENTATION REQUIRED TO WASHINGTON L&I FOR PERMITTING.
22. PROVIDE NEW, COMMERCIAL GRADE MATERIALS FURNISHED FOR THIS PROJECT THAT ARE FREE OF DEFECTS, AND LISTED BY A NATIONALLY RECOGNIZED TESTING LABORATORY (NRTL).
23. CONTRACTOR IS RESPONSIBLE FOR PROVIDING POWER AND CONTROL WIRING TO ELECTRICAL AND ELECTRICALLY OPERATED EQUIPMENT INDICATED IN CONTRACT DOCUMENTS AND APPROVED SUBMITTALS.
24. PROVIDE 4" MINIMUM CONCRETE BASES (HOUSEKEEPING PADS) UNDER FLOOR MOUNTED ELECTRICAL EQUIPMENT. THIS INCLUDES SWITCHBOARDS, GENERATORS, TRANSFORMERS, MOTOR CONTROL CENTERS, FLOOR-MOUNTED TRANSFER SWITCHES, LIGHTING INVERTERS, AND UNINTERRUPTIBLE POWER SUPPLIES. COMPLY WITH MANUFACTURER REQUIREMENTS AND REQUIREMENTS FOR EQUIPMENT BASES AND FOUNDATIONS SPECIFIED IN DIVISION 03.
25. PROVIDE SEISMIC RESTRAINT AND SUPPORT FOR ELECTRICAL EQUIPMENT AND DISTRIBUTION SYSTEMS IN ACCORDANCE WITH GOVERNING BUILDING CODE AND ASCE 7. COORDINATE SEISMIC ATTACHMENTS WITH STRUCTURAL DETAILS AND VERIFY STRUCTURAL ATTACHMENT LOCATIONS PRIOR TO INSTALLATION. WHERE REQUIRED, PROVIDE SEISMIC CALCULATIONS PREPARED BY LICENSED PROFESSIONAL ENGINEER. OBTAIN REQUIRED EQUIPMENT SEISMIC DATA FROM MANUFACTURERS. COORDINATE REQUIRED SPECIAL INSPECTIONS. FAILURE TO COORDINATE SEISMIC RESTRAINT WITH EQUIPMENT, STRUCTURE, AND INSTALLATION CONDITIONS SHALL NOT BE BASIS FOR ADDITIONAL COST.
26. MAINTAIN INDICATED FIRE AND SMOKE RATING OF WALLS, PARTITIONS, CEILINGS, AND FLOORS AT ELECTRICAL PENETRATIONS. SEAL PENETRATIONS WITH FIRESTOP MATERIAL. PROVIDE MATERIAL IN ACCORDANCE WITH ASTM E 814 AND UL 1479 3M OR APPROVED. COORDINATE THE UL LISTED ASSEMBLY BEING USED WITH THE GENERAL CONTRACTOR AND COMPLY WITH REQUIREMENTS SPECIFIED IN DIVISION 07 PRIOR TO BID.
27. PROVIDE FIREBLOCKING AND DRAFT STOPPING AT ELECTRICAL PENETRATIONS IN COMBUSTIBLE CONCEALED SPACES PER THE INTERNATIONAL BUILDING CODE.
28. REFER TO TYPICAL DETAILS PROVIDED IN THIS DRAWING SET FOR EQUIPMENT INSTALLATION AND COMPLY WITH ALL REQUIREMENTS FOR A COMPLETE INSTALLATION.
29. LOCATIONS AND SIZES OF FLOOR, WALL, AND ROOF OPENINGS, INCLUDING TEMPORARY OPENINGS WHERE REQUIRED, SHALL BE COORDINATED WITH OTHER TRADES INVOLVED. INCLUDE IN THE COST OF ELECTRICAL WORK, CUTTING, CORING AS REQUIRED TO ACCOMMODATE WORK AS INDICATED IN THE ELECTRICAL CONTRACT DOCUMENTS, UNLESS SPECIFICALLY SHOWN ON ARCHITECTURAL DRAWINGS. PATCHING AND PAINTING OF EXISTING WALLS, CEILINGS, FLOORS AND ROOFS TO ACCOMMODATE ELECTRICAL WORK SHALL BE PROVIDED BY OTHERS.
30. PRIOR TO SUBSTANTIAL COMPLETION, REMOVE FROM THE PREMISES ANY DIRT AND DEBRIS CAUSE BY THE PERFORMANCE OF THE WORK INCLUDED IN THIS CONTRACT, CLEAN EQUIPMENT, FIXTURES, EXPOSED CONDUIT AND SIMILAR ITEMS. PROVIDE EQUIPMENT THAT FITS WITHIN SPACES PROVIDED AND MAINTAINS CODE REQUIRED WORKING CLEARANCES AND ACCESS FOR INSTALLATION, OPERATION, MAINTENANCE, AND REPLACEMENT. VERIFY EQUIPMENT DIMENSIONS AND REQUIRED CLEARANCES USING CONTRACT DOCUMENTS, APPROVED SUBMITTALS, AND FIELD CONDITIONS PRIOR TO INSTALLATION. COORDINATE WITH OTHER TRADES TO MAINTAIN REQUIRED CLEARANCES. EQUIPMENT INSTALLED WITHOUT REQUIRED CLEARANCES SHALL BE RELOCATED OR MODIFIED AT NO ADDITIONAL COST TO OWNER.
31. EQUIPMENT REQUIRING DISASSEMBLY OF BUILDING CONSTRUCTION FOR FUTURE REMOVAL SHALL NOT BE ACCEPTABLE UNLESS SPECIFICALLY INDICATED.
32. BUILDING SPACE IS LIMITED AND CONGESTED CONDITIONS SHALL BE ASSUMED. COORDINATE ROUTING OF ELECTRICAL SYSTEMS WITH ALL TRADES AND EXISTING CONDITIONS. REVIEW CONTRACT DOCUMENTS, APPROVED SUBMITTALS, AND FIELD CONDITIONS PRIOR TO FABRICATION AND INSTALLATION. COSTS ASSOCIATED WITH NORMAL COORDINATION AND ROUTING ADJUSTMENTS SHALL BE INCLUDED IN THE BASE BID. INSTALLATION WITHOUT PRIOR COORDINATION SHALL BE CORRECTED AT NO ADDITIONAL COST TO OWNER.
33. SUBMIT A ROUTING PLAN INDICATING PROPOSED PATHWAYS FOR ON-GOING COORDINATION WITH OTHER TRADES PRIOR TO INSTALLATION. INTENT OF ROUTING PLAN REVIEW AND COORDINATION IS TO IDENTIFY AND RESOLVE CONFLICTS DURING DETAILING/MODELING PERIOD, BUT DOES NOT RELIEVE CONTRACTOR OF RESPONSIBILITY OF COMPLIANCE WITH CONTRACT DOCUMENTS.
34. MATERIALS WITHIN PLENUMS SHALL BE NONCOMBUSTIBLE OR SHALL HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE-DEVELOPED INDEX OF NOT MORE THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM E 84 OR UL 723.
35. VERIFY ENVIRONMENTAL CONDITIONS INCLUDING TEMPERATURE, HUMIDITY, AND VENTILATION REQUIREMENTS REQUIRED FOR INSTALLED EQUIPMENT PRIOR TO INSTALLATION.
36. ALL CONDUITS SHALL BE PROVIDED WITH A SEPARATE GREEN EQUIPMENT GROUNDING CONDUCTOR SIZED IN ACCORDANCE WITH NEC TABLE 250.122.
37. PRIOR TO ROUGH-IN, CONSULT WITH THE OWNER AND ARCHITECT TO DETERMINE IF ANY CHANGES TO EQUIPMENT FURNISHED BY OTHERS HAVE BEEN MADE SINCE THE CONTRACT DOCUMENTS WERE PREPARED.
38. ALL 120V AND 277V SINGLE PHASE BRANCH CIRCUITS SHALL HAVE INDIVIDUAL NEUTRAL CONDUCTORS. COMMON NEUTRALS ARE NOT PERMITTED.
39. PROVIDE ID TAGS ON NEUTRAL CONDUCTORS IN PANELBOARD TO IDENTIFY ASSOCIATED BRANCH CIRCUIT.

EXISTING ELECTRICAL:

1. BID SHALL INCLUDE COSTS NECESSARY TO INSTALL WORK IN EXISTING BUILDING CONDITIONS AND SITE CONDITIONS REASONABLY DISCOVERABLE BY SITE VISIT, DOCUMENT REVIEW, AND INDUSTRY STANDARD INVESTIGATION METHODS.
2. WORK SHALL BE PERFORMED IN A CLEAN AND WORKMANLIKE MANNER. CARE SHALL BE EXERCISED TO MINIMIZE ANY INCONVENIENCE OR DISTURBANCE TO OTHER AREAS OF THE BUILDING WHICH ARE TO REMAIN IN OPERATION. ISOLATE WORK AREAS BY MEANS OF TEMPORARY PARTITIONS AND/OR TARPS TO KEEP DUST AND DIRT WITHIN THE CONSTRUCTION AREA.
3. DAMAGE TO EXISTING BUILDING SYSTEMS CAUSED BY PERFORMED WORK SHALL BE REPAIRED/REPLACED AT NO ADDITIONAL COST TO OWNER.
4. BRANCH CIRCUITING INDICATED ON PLANS AND SCHEDULES IS BASED UPON EXISTING PLANS AND SITE OBSERVATION, FIELD VERIFY.
5. EXISTING MATERIALS THAT ARE REMOVED SHALL NOT BE REUSED IN NEW SYSTEMS, EXCEPT WHERE INDICATED AS BEING RELOCATED.
6. COORDINATE REQUIRED SHUTDOWNS WITH OWNER AND OTHER TRADES AND SHALL INCLUDE COSTS ASSOCIATED WITH NORMAL OFF-HOURS WORK AND PHASING TYPICAL OF OCCUPIED BUILDINGS IN BASE BID UNLESS SPECIFICALLY INDICATED OTHERWISE.
7. ASSUME EXISTING CONGESTION ABOVE CEILINGS, WITHIN WALLS, AND WITHIN SHAFTS AND COORDINATE INSTALLATION ACCORDINGLY.
8. CONTRACT DOCUMENTS ARE BASED ON FIELD OBSERVATION AND AVAILABLE RECORD INFORMATION. EXISTING CONDITIONS MAY VARY. FIELD VERIFY CONDITIONS PRIOR TO DEMOLITION AND INSTALLATION AND COORDINATE WITH EXISTING BUILDING CONDITIONS AND OTHER TRADES. EXISTING SYSTEMS SHOWN TO REMAIN SHALL BE PROTECTED AND SHALL REMAIN IN OPERATION UNLESS NOTED OTHERWISE. WHERE EXISTING SYSTEMS ARE RECONNECTED TO NEW WORK, EXISTING PATHWAYS SHALL BE UTILIZED WHERE SUITABLE. NOTIFY ENGINEER OF CONDITIONS THAT DIFFER FROM CONTRACT DOCUMENTS PRIOR TO PROCEEDING. MODIFICATION OF EXISTING SYSTEMS REQUIRED TO ACCOMMODATE NEW WORK SHALL BE INCLUDED IN BASE BID.
9. PERFORM NON-DESTRUCTIVE INVESTIGATION AS REQUIRED TO VERIFY EXISTING CONDITIONS WHERE ACCESSIBLE OR REASONABLY DISCOVERABLE PRIOR TO DEMOLITION OR INSTALLATION.
10. WHERE CONFLICTS EXIST BETWEEN FIELD CONDITIONS, APPROVED SUBMITTALS, AND CONTRACT DOCUMENTS, REQUEST DIRECTION PRIOR TO INSTALLATION.
11. EXISTING SYSTEMS ARE ACTIVE AND SERVE OCCUPIED BUILDING AREAS UNLESS SPECIFICALLY INDICATED OTHERWISE. REVIEW CONTRACT DOCUMENTS, FIELD VERIFY CONDITIONS, AND COORDINATE WITH OWNER AND ALL TRADES PRIOR TO DEMOLITION OR MODIFICATION OF EXISTING SYSTEMS. COORDINATE REQUIRED OUTAGES WITH OWNER A MINIMUM OF 72 HOURS IN ADVANCE. OUTAGES SHALL NOT OCCUR WITHOUT OWNER APPROVAL. PROVIDE TEMPORARY CONNECTIONS, TEMPORARY POWER, OR TEMPORARY SERVICES AS REQUIRED TO MAINTAIN SYSTEM OPERATION. COSTS ASSOCIATED WITH TEMPORARY SERVICES AND NORMAL PHASING SHALL BE INCLUDED IN BASE BID. DAMAGE TO EXISTING SYSTEMS CAUSED BY WORK SHALL BE REPAIRED AT NO COST TO OWNER.
12. PROVIDE TEMPORARY AND PERMANENT SUPPORT AS REQUIRED TO MAINTAIN STRUCTURAL INTEGRITY, SAFETY, AND CONTINUOUS OPERATION OF EXISTING ELECTRICAL SYSTEMS DURING DEMOLITION AND CONSTRUCTION. SUPPORT METHODS SHALL COMPLY WITH APPLICABLE CODES AND STRUCTURAL REQUIREMENTS. COORDINATE WITH GC AND STRUCTURAL ENGINEER AS REQUIRED. DAMAGE OR SERVICE INTERRUPTION CAUSED BY INADEQUATE SUPPORT SHALL BE REPAIRED AT NO COST TO OWNER.
13. EXISTING CONTROL PATHWAYS SHALL BE RE-USED UNLESS SPECIFICALLY INDICATED OTHERWISE. VERIFY CONDITION, ROUTING, CAPACITY, ACCESSIBILITY, AND CODE COMPLIANCE PRIOR TO BID AND PRIOR TO DEMOLITION OR INSTALLATION. INCLUDE COSTS ASSOCIATED WITH NORMAL INVESTIGATION, TESTING, AND PREPARATION OF EXISTING PATHWAYS IN THE BASE BID. FAILURE TO PERFORM VERIFICATION OR PROVIDE PRIOR WRITTEN NOTICE OF UNSUITABLE CONDITIONS SHALL NOT BE BASIS FOR ADDITIONAL COST OR TIME.

DEMOLITION:

1. COORDINATE DEMOLITION AND INSTALLATION OF ELECTRICAL SYSTEMS, AND ALL SYSTEMS REQUIRING ELECTRICAL CONNECTIONS, TO MAINTAIN CODE-REQUIRED WORKING CLEARANCES AND DEDICATED EQUIPMENT SPACES IN ACCORDANCE WITH APPLICABLE CODES AND STANDARDS. VERIFY EXISTING FIELD CONDITIONS PRIOR TO INSTALLATION, INCLUDING CONDITIONS ABOVE ACCESSIBLE AND NON-ACCESSIBLE CEILINGS.
2. EXISTING CONDITIONS DISCOVERED AFTER DEMOLITION THAT WERE NOT REASONABLY DISCOVERABLE PRIOR TO DEMOLITION SHALL BE REPORTED IMMEDIATELY. COORDINATE WORK WITH ALL TRADES AND REVIEW ALL CONTRACT DOCUMENTS AND VERIFY FIELD CONDITIONS PRIOR TO DEMOLITION. IDENTIFY AND FORMALLY DOCUMENT CONFLICTS IN WRITING AND SUBMIT PROPOSED RESOLUTION FOR REVIEW BY OWNER/ARCHITECT/ENGINEER PRIOR TO DEMOLITION. DEMOLITION PERFORMED WITHOUT PRIOR COORDINATION AND DOCUMENTED CONFLICT RESOLUTION SHALL BE CORRECTED AT NO ADDITIONAL COST TO OWNER.
3. REMOVE AND LEGALLY DISPOSE OF ALL MATERIALS INDICATED ON DRAWINGS, INCLUDING BUT NOT LIMITED TO EQUIPMENT, CONDUIT, CONDUCTORS, SUPPORTS, HANGERS, WIREMOLD, DEVICES, CONTROLS, AND ALL ASSOCIATED APPURTENANCES. REMOVE MATERIALS BACK TO SOURCE OR NEAREST ACTIVE UPSTREAM CONNECTION UNLESS NOTED OTHERWISE. NO MATERIAL SHALL BE ABANDONED IN PLACE UNLESS SPECIFICALLY INDICATED IN CONTRACT DOCUMENTS.
4. PERFORM DEMOLITION REQUIRED TO FACILITATE NEW CONSTRUCTION ASSOCIATED WITH THIS PROJECT. COORDINATE REQUIRED OUTAGES WITH OWNER A MINIMUM OF 72 HOURS IN ADVANCE. DISPOSE OF REMOVED MATERIAL IN ACCORDANCE WITH APPLICABLE CODES AND REGULATIONS. MAINTAIN CIRCUIT CONTINUITY AND PROVIDE TEMPORARY CONNECTIONS OR SERVICES AS REQUIRED TO MAINTAIN OPERATION OF EXISTING SYSTEMS. COSTS ASSOCIATED WITH TEMPORARY CONNECTIONS AND MAINTAINING SYSTEM OPERATION SHALL BE INCLUDED IN BASE BID.
5. REMOVE ELECTRICAL, COMMUNICATIONS, AND LIFE SAFETY COMPONENTS INDICATED FOR DEMOLITION. REMOVE ASSOCIATED CONDUCTORS BACK TO SOURCE PANEL OR NEAREST ACTIVE UPSTREAM CONNECTION. REMOVE ASSOCIATED CONDUIT BACK TO NEAREST ACCESSIBLE JUNCTION BOX OR ABOVE ACCESSIBLE CEILING UNLESS SPECIFICALLY INDICATED OTHERWISE. CONDUIT ABANDONED IN PLACE SHALL BE DISCONNECTED, CAPPED, AND MADE SAFE AND SHALL NOT CONTAIN ENERGIZED CONDUCTORS. ABANDONED CONDUIT SHALL NOT INTERFERE WITH NEW WORK OR OTHER BUILDING SYSTEMS.
6. CONDUIT ABANDONED IN FIRE-RATED ASSEMBLIES SHALL BE REMOVED OR SEALED TO MAINTAIN RATING.
7. WHERE EXISTING ITEMS PENETRATE WALLS OR ROOF ASSEMBLIES, PROVIDE INFILL AND RESTORE PENETRATIONS TO MATCH EXISTING FIRE RATING, WEATHER RATING, AND FINISH REQUIREMENTS OF THE ASSEMBLY. COORDINATE PATCH AND FINISH WORK PROVIDED BY OTHERS. ASSUME ALL COSTS FOR REPAIR OF PENETRATIONS CREATED OR MODIFIED BY THE WORK.
8. OWNER RESERVES THE RIGHT TO RETAIN OWNERSHIP OF REMOVED MATERIALS. NOTIFY OWNER IN WRITING A MINIMUM OF 7 CALENDAR DAYS PRIOR TO REMOVAL. SALVAGED ITEMS SHALL BE REMOVED WITHOUT DAMAGE, CLEANED, PROTECTED, AND DELIVERED TO OWNER AS INDICATED IN CONTRACT DOCUMENTS. MATERIALS DAMAGED DUE TO IMPROPER REMOVAL OR HANDLING SHALL BE REPLACED AT NO COST TO OWNER.

FIRE ALARM GENERAL NOTES:

GENERAL:

1. FIRE ALARM SYSTEM SHALL BE INSTALLED, PROGRAMMED, TESTED, AND DOCUMENTED AS A COMPLETE LIFE SAFETY SYSTEM. REQUIREMENTS ARISING FROM CODE INTERPRETATION CONSISTENT WITH PERMITTED DESIGN SHALL BE INCLUDED IN BASE WORK.
2. SUBMIT FIRE ALARM SYSTEM AS A DEFERRED PERMIT SUBMITTAL IN ACCORDANCE WITH CONTRACT DOCUMENTS, GOVERNING CODES, AND AHJ REQUIREMENTS. CONTRACT DOCUMENTS ESTABLISH DESIGN INTENT, BASIS-OF-DESIGN CRITERIA, AND MINIMUM SYSTEM REQUIREMENTS. DEFERRED PERMIT SUBMITTAL SHALL INCLUDE FINAL SYSTEM LAYOUT, DEVICE LOCATIONS, WIRING METHODS, PROGRAMMING IMPLEMENTATION, AND CALCULATIONS REQUIRED FOR CODE COMPLIANCE AND AHJ APPROVAL. DESIGN A COMPLETE AND CODE-COMPLIANT FULL COVERAGE SYSTEM. REVIEW OF DEFERRED PERMIT SUBMITTALS SHALL BE FOR GENERAL CONFORMANCE WITH DESIGN INTENT ONLY AND SHALL NOT RELIEVE CONTRACTOR OF RESPONSIBILITY FOR CODE COMPLIANCE OR SYSTEM PERFORMANCE. FINAL AUTHORITY FOR SYSTEM ACCEPTABILITY SHALL REST WITH THE AHJ.
3. EXISTING FIRE ALARM WIRING AND CONDUIT MAY BE RE-USED WHERE APPROVED BY OWNER AND ENGINEER. VERIFY CONDITION, LISTING COMPLIANCE, AND COMPATIBILITY WITH NEW SYSTEM PRIOR TO RE-USE.
4. COSTS ASSOCIATED WITH NORMAL TESTING, TROUBLESHOOTING, AND REPAIR REQUIRED TO UTILIZE EXISTING WIRING SHALL BE INCLUDED IN BASE BID. ACCEPTANCE OF EXISTING WIRING FOR RE-USE SHALL CONSTITUTE CONTRACTOR VERIFICATION OF SUITABILITY.
5. ASSUME ALL RISK OF PERFORMANCE OF EXISTING WIRING ELECTED FOR RE-USE.
6. WIRING FOUND TO BE NONCOMPLIANT, DAMAGED, OR UNSUITABLE SHALL BE REPLACED.
7. WHERE NEW FIRE ALARM WIRING IS REQUIRED, INSTALL NEW WIRING IN EMT CONDUIT. ALL NEW CONDUIT INSTALLED SHALL BE CONCEALED. IN AREAS WHERE CONDUIT CANNOT BE CONCEALED, AND AS APPROVED BY THE OWNER, SURFACE MOUNTED RACEWAY SHALL BE USED AND SIZED ACCORDINGLY WITH APPLICABLE CODES AND STANDARDS. COORDINATE PAINTING OF EXPOSED RACEWAY TO MATCH SURROUNDING SURFACES PROVIDED BY OTHERS.
8. TEST FIRE ALARM WIRING FOR CIRCUIT CONTINUITY. REPLACE ANY WIRING THAT IS FOUND TO BE DEFECTIVE.
9. EXISTING FIRE ALARM SYSTEM SHALL REMAIN FULLY OPERATIONAL DURING CONSTRUCTION UNLESS SCHEDULED OUTAGE IS APPROVED BY OWNER AND AHJ. PROVIDE TEMPORARY PROTECTION, TEMPORARY DEVICES, OR FIRE WATCH AS REQUIRED TO MAINTAIN LIFE SAFETY COVERAGE. INCLUDE ASSOCIATED COSTS IN BASE BID. TEMPORARY LIFE SAFETY COVERAGE SHALL BE EQUIVALENT TO EXISTING SYSTEM PERFORMANCE.
10. PROVIDE INTERFACE WITH HVAC SYSTEMS AS REQUIRED BY CODE AND CONTRACT DOCUMENTS FOR ALARM INITIATED SHUTDOWN. PROVIDE REQUIRED RELAYS, PROGRAMMING, AND INTERFACE DEVICES. COORDINATE FINAL SEQUENCE WITH MECHANICAL CONTRACTOR AND OWNER PRIOR TO PROGRAMMING. ADDITIONAL INTERFACES NOT IDENTIFIED IN CONTRACT DOCUMENTS OR APPROVED SUBMITTALS SHALL REQUIRE ENGINEER REVIEW PRIOR TO IMPLEMENTATION.
11. PER NFPA 72, SUPPLY CONTRACTOR'S TEST CERTIFICATE AND REQUIRED DOCUMENTATION PRIOR TO AHJ ACCEPTANCE TESTING.
12. ALL DEVICES SHALL BE LABELED CONSISTENT WITH APPROVED PROGRAMMING AND OWNER NAMING CONVENTIONS. MINOR PROGRAMMING ADJUSTMENTS REQUIRED FOR ACCEPTANCE OR OWNER OPERATION SHALL BE INCLUDED.
13. PROGRAM SYSTEM TO MINIMIZE NUISANCE ALARMS CONSISTENT WITH CODE REQUIREMENTS AND OWNER OPERATIONAL NEEDS.

FIRE ALARM ACCEPTANCE/TESTING/TURNOVER:

1. VERIFY SYSTEM INSTALLATION, PROGRAMMING, AND OPERATION PRIOR TO SCHEDULING ACCEPTANCE TESTING WITH OWNER OR AHJ.
2. SYSTEM SHALL BE 100% COMPLETE, PROGRAMMED, AND PRE-TESTED PRIOR TO FORMAL ACCEPTANCE TESTING.
3. REQUEST FOR ACCEPTANCE TESTING SHALL CONSTITUTE CONTRACTOR CERTIFICATION THAT SYSTEM IS COMPLETE AND READY FOR FINAL TESTING.
4. ASSUME COSTS ASSOCIATED WITH RE-TESTING REQUIRED DUE TO INCOMPLETE INSTALLATION, PROGRAMMING DEFICIENCIES, DEVICE FAILURES, OR IMPROPER INSTALLATION.
5. FUNCTIONALLY TEST ALL DEVICES, INPUTS, OUTPUTS, AND INTERFACES PRIOR TO ACCEPTANCE TESTING, INCLUDING BUT NOT LIMITED TO:
   A. INITIATING DEVICES
   B. NOTIFICATION APPLIANCES
   C. SPRINKLER INTERFACES
   D. HVAC SHUTDOWN INTERFACES
   E. DOOR RELEASE INTERFACES
   F. ELEVATOR INTERFACES
   G. MONITORING SIGNAL TRANSMISSION
6. VERIFY DEVICE ADDRESSING, LABELING, ZONE ASSIGNMENTS, SEQUENCE OF OPERATIONS, AND GRAPHICS PRIOR TO ACCEPTANCE TESTING.
7. COORDINATE AND ATTEND ALL REQUIRED ACCEPTANCE TESTING WITH OWNER AND AHJ.
8. COMPLETE ALL CORRECTIONS REQUIRED BY AHJ FOR ACCEPTANCE OF SYSTEM.
9. PRIOR TO FINAL ACCEPTANCE, SUBMIT:
   A. RECORD DRAWINGS
   B. FINAL DEVICE ADDRESS LIST
   C. PROGRAMMING FILES
   D. OPERATION AND MAINTENANCE MANUALS
   E. TEST REPORTS
   F. NFPA 72 COMPLETION DOCUMENTATION
10. RECORD DOCUMENTATION SHALL ACCURATELY REFLECT FINAL INSTALLED CONDITIONS AND PROGRAMMING.
11. A COMPLETE SET OF AS BUILT DRAWINGS SHALL BE GIVEN TO OWNER FIRE ALARM PERSONNEL AT COMMISSIONING.
12. VERIFY SIGNAL TRANSMISSION TO MONITORING SERVICE PRIOR TO ACCEPTANCE TESTING. COORDINATE MONITORING CONNECTION AND TESTING PRIOR TO ACCEPTANCE TESTING.
13. FINAL SYSTEM PROGRAMMING SHALL BE SUBMITTED TO OWNER IN UNLOCKED FORMAT WHERE PERMITTED BY MANUFACTURER.

PHASING:

1. PREPARE AND SUBMIT PHASING PLAN TO OWNER/ENGINEER FOR REVIEW PRIOR TO COMMENCEMENT OF WORK.
2. THE EXISTING FIRE ALARM SYSTEM SHALL BE KEPT OPERATIONAL DURING CONSTRUCTION. PERFORM FIRE WATCH SERVICES WHEN SYSTEM IS NOT OPERATIONAL.

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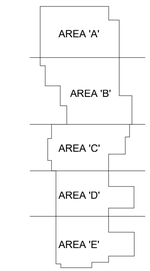
Project
ABERDEEN SCHOOL DISTRICT 5

2025 - 007
ABERDEEN HIGH SCHOOL
410 N G St., Aberdeen, WA 98520

Issue & Revision Dates
7 APRIL 2026 BID SET

BID SET

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Drawn By DL
Checked By BP

Sheet Title
ELECTRICAL GENERAL NOTES

E0.02
Sheet Number Of

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MOTOR EQUIPMENT AND WIRING SCHEDULE

NOTES:
*COORDINATE FUSE SIZE WITH MANUFACTURE'S RECOMMENDATIONS PRIOR TO ORDERING.

ID	EQUIPMENT INFORMATION				CIRCUIT INFORMATION		MIN. SCCR	CIRCUIT INFORMATION			VFD/VSD		STARTER		DISCONNECT			REMARKS
	LOAD (HP)	LOAD	MCA	MOCP	VOLT	PH		PANEL	NO.	CONDUIT & WIRE SIZE	FURNISH	INSTALL	FURNISH	INSTALL	SIZE	FUSE	FURNISH	
ABORT DAMPER																		
AD-01	0.00 hp	0.50 kVA	4.17 A	15 A	120 V	1		1E9	15	3/4#C, 2#12, 1#12 EGC	-	-	-	-	30 A	-	DIV. 26	
DUST COLLECTOR																		
DC-01	25.00 hp	28.27 kVA	34.00 A	70 A	480 V	3	18 KA	1EH1	37,39,41	1"C,3#6,1#10 EGC	DIV. 23	DIV. 26	-	-	100 A	70	DIV. 26	VFD FURNISHED BY DIV. 23. INSTALLED AND CIRCUITED BY DIV. 26
SAWDUST CONTROL PANEL																		
SCP-01	0.00 hp	0.50 kVA	4.17 A	15 A	120 V	1		1E9	33	3/4#C, 2#12, 1#12 EGC	-	-	-	-	30 A	-	DIV. 26	
SAWDUST DETECTOR																		
SD-01	0.00 hp	0.50 kVA	4.17 A	15 A	120 V	1		1E9	17	3/4#C, 2#12, 1#12 EGC	-	-	-	-	30 A	-	DIV. 26	
SAWDUST EXTINGUISHER																		
SE-01	0.00 hp	0.50 kVA	4.17 A	15 A	120 V	1		1E9	35	3/4#C, 2#12, 1#12 EGC	-	-	-	-	30 A	-	DIV. 26	
SAWDUST FILTER BANK																		
FB-01	0.00 hp	0.50 kVA	4.17 A	15 A	120 V	1		1E9	37	3/4#C, 2#12, 1#12 EGC	-	-	-	-	30 A	-	DIV. 26	
SPARK DETECTION CONTROLLER																		
SDC-01	0.00 hp	0.50 kVA	4.17 A	15 A	120 V	1		1E9	31	3/4#C, 2#12, 1#12 EGC	-	-	-	-	30 A	-	DIV. 26	

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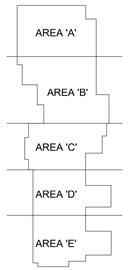
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Sheet Title
MOTOR AND EQUIPMENT WIRING SCHEDULE

E0.03
Sheet Number Of

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PANEL: 1EH1

EXISTING

LOCATION: E106 | MANUFACTURER: EATON | VOLTAGE: 480Y/277V | AIC RATING: 18K
SUPPLY FROM: 1EHD1 | CAT. #: PRL3A | PHASES: 3 | MAINS TYPE: MAIN LUGS ONLY
MOUNTING: SURFACE | WIRES: 4 | MAINS RATING: 250A
NEMA RATING: TYPE 1 | NEUTRAL RATING: 100%
BUSSING: CU

CCT	CIRCUIT DESCRIPTION	RATING	POLES	A (kVA)	B (kVA)	C (kVA)	POLES	RATING	CIRCUIT DESCRIPTION	CCT
1	LTS ART CR 146	20 A	1	1.50			1	20 A	LTS CORR/HALL STAIR	2
3	LTS 149,150,152BCDEF	20 A	1		1.50		1	20 A	LTS 152A, 152B	4
5	LTS ART CR 139	20 A	1			1.50	1	20 A	LTS WOOD SHOP	6
7	LTS 140,141,142A,143	20 A	1	1.50			1	20 A	LTS COMP LAB 148	8
9	LTS 144,145	20 A	1		1.50		1	20 A	LTS147,147A,B,C,D,E,F	10
11	LTS 149,150,152BCDEF	20 A	1			1.50	1	20 A	SPARE	12
13	SPARE	20 A	1	0.00			1	20 A	SPARE	14
15	SPARE	20 A	1		0.00		1	20 A	SPARE	16
17	SPARE	20 A	1			0.00	1	20 A	SPARE	18
19	SPARE	20 A	1	0.00			1	20 A	SPARE	20
21	SPARE	20 A	1		0.00		1	20 A	SPARE	22
23	SPARE	20 A	1			0.00	1	20 A	SPARE	24
25	SPARE	20 A	1	0.00			1	20 A	SPARE	26
27	SPARE	20 A	1		0.00		1	20 A	SPARE	28
29	SPARE	20 A	1			0.00	1	20 A	SPARE	30
31	AIR COMPRESSOR AUTO SHOP	30 A	3	5.54	0.00		1	20 A	SPARE	32
33	-	-	-		5.54	0.00	1	20 A	SPARE	34
35	-	-	-			5.54	0.00	1	20 A	SPARE	36
37	DUST COLLECTOR SCE137	60 A	3	7.48	0.00		1	20 A	SPARE	38
39	-	-	-		7.48	0.00	1	20 A	SPARE	40
41	-	-	-			7.48	0.00	1	20 A	SPARE	42
		TOTAL LOAD:		19.02 kVA	17.52 kVA	19.66 kVA				
		TOTAL AMPS:		68.63 A	63.22 A	70.94 A				

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
ELEVATOR	0.00 kVA	100%	0.00 kVA		
HEATING	0.00 kVA	100%	0.00 kVA	TOTAL CONN. (kVA):	56.20 kVA
COOLING	0.00 kVA	100%	0.00 kVA	TOTAL EST. DEMAND (kVA):	66.09 kVA
REFRIGERATION	0.00 kVA	100%	0.00 kVA	TOTAL CONN. (A):	67.59 A
WATER HEATING	0.00 kVA	100%	0.00 kVA	TOTAL EST. DEMAND (A):	79.50 A
LIGHTING (125%)	17.14 kVA	125%	21.43 kVA		
RECEPTACLES (<10kVA @ 100%)	0.00 kVA	100%	0.00 kVA		
RECEPTACLES (>10KVA @ 50%)	0.00 kVA	50%	0.00 kVA		
LARGEST MOTOR	22.44 kVA	125%	28.05 kVA		
OTHER MOTORS	16.62 kVA	100%	16.62 kVA		
KITCHEN EQUIPMENT	0.00 kVA	65%	0.00 kVA		
MISCELLANEOUS	0.00 kVA	100%	0.00 kVA		
EV CHARGING	0.00 kVA	100%	0.00 kVA		

NOTES:

PANEL: 1EH1

REVISED

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NEMA RATING: TYPE 1 | NEUTRAL RATING: 100%
BUSSING: CU

CCT	CIRCUIT DESCRIPTION	RATING	POLES	A (kVA)	B (kVA)	C (kVA)	POLES	RATING	CIRCUIT DESCRIPTION	CCT
1	LTS ART CR 146	20 A	1	1.50			1	20 A	LTS CORR/HALL STAIR	2
3	LTS 149,150,152BCDEF	20 A	1		1.50		1	20 A	LTS 152A, 152B	4
5	LTS ART CR 139	20 A	1			1.50	1	20 A	LTS WOOD SHOP, CANOPY (NOTE 1)	6
7	LTS 140,141,142A,143	20 A	1	1.50			1	20 A	LTS COMP LAB 148	8
9	LTS 144,145	20 A	1		1.50		1	20 A	LTS147,147A,B,C,D,E,F	10
11	LTS 149,150,152BCDEF	20 A	1			1.50	1	20 A	SPARE	12
13	SPARE	20 A	1	0.00			1	20 A	SPARE	14
15	SPARE	20 A	1		0.00		1	20 A	SPARE	16
17	SPARE	20 A	1			0.00	1	20 A	SPARE	18
19	SPARE	20 A	1	0.00			1	20 A	SPARE	20
21	SPARE	20 A	1		0.00		1	20 A	SPARE	22
23	SPARE	20 A	1			0.00	1	20 A	SPARE	24
25	SPARE	20 A	1	0.00			1	20 A	SPARE	26
27	SPARE	20 A	1		0.00		1	20 A	SPARE	28
29	SPARE	20 A	1			0.00	1	20 A	SPARE	30
31	AIR COMPRESSOR AUTO SHOP	30 A	3	5.54	0.00		1	20 A	SPARE	32
33	-	-	-		5.54	0.00	1	20 A	SPARE	34
35	-	-	-			5.54	0.00	1	20 A	SPARE	36
37	DC-01 (NOTE 1)	70 A	3	9.42	0.00		1	20 A	SPARE	38
39	-	-	-		9.42	0.00	1	20 A	SPARE	40
41	-	-	-			9.42	0.00	1	20 A	SPARE	42
		TOTAL LOAD:		20.96 kVA	19.46 kVA	21.78 kVA				
		TOTAL AMPS:		75.63 A	70.22 A	78.59 A				

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
ELEVATOR	0.00 kVA	100%	0.00 kVA		
HEATING	0.00 kVA	100%	0.00 kVA	TOTAL CONN. (kVA):	62.20 kVA
COOLING	0.00 kVA	100%	0.00 kVA	TOTAL EST. DEMAND (kVA):	73.59 kVA
REFRIGERATION	0.00 kVA	100%	0.00 kVA	TOTAL CONN. (A):	74.81 A
WATER HEATING	0.00 kVA	100%	0.00 kVA	TOTAL EST. DEMAND (A):	88.52 A
LIGHTING (125%)	17.32 kVA	125%	21.65 kVA		
RECEPTACLES (<10kVA @ 100%)	0.00 kVA	100%	0.00 kVA		
RECEPTACLES (>10KVA @ 50%)	0.00 kVA	50%	0.00 kVA		
LARGEST MOTOR	28.25 kVA	125%	35.32 kVA		
OTHER MOTORS	16.63 kVA	100%	16.63 kVA		
KITCHEN EQUIPMENT	0.00 kVA	65%	0.00 kVA		
MISCELLANEOUS	0.00 kVA	100%	0.00 kVA		
EV CHARGING	0.00 kVA	100%	0.00 kVA		

NOTES:
1. REVISED CIRCUIT.
2. REMOVE EXISTING 60A/3P BREAKER AND PROVIDE NEW 70A/3P BREAKER.

PANEL: 1E9

EXISTING

LOCATION: WOOD SHOP | MANUFACTURER: EATON | VOLTAGE: 208Y/120V | AIC RATING: 10K
SUPPLY FROM: 1ED1 | CAT. #: PRL1A | PHASES: 3 | MAINS TYPE: MAIN LUGS ONLY
MOUNTING: SURFACE | WIRES: 4 | MAINS RATING: 225A
NEMA RATING: TYPE 1 | NEUTRAL RATING: 100%
BUSSING: CU

CCT	CIRCUIT DESCRIPTION	RATING	POLES	A (kVA)	B (kVA)	C (kVA)	POLES	RATING	CIRCUIT DESCRIPTION	CCT
1	RADIAL ARM SAW WS1	20 A	1	1.18			1	20 A	WOOD LATHE WS9	2
3	SPARE	20 A	1		0.00		1	20 A	WOOD LATHE WS10	4
5	SPARE	20 A	1			0.00	1	20 A	HORIZONTAL DRILL WS11	6
7	DRILL PRESS WS4	20 A	1	1.18			1	20 A	MITER SAW WS17	8
9	BAND SAW WS5	20 A	3		1.32		1	20 A	DISC SANDER WS18	10
11	-	-	-			1.32	1	20 A	REC RM 152	12
13	-	-	-	1.32			1	20 A	REC RM 152	14
15	SAWDUST COLLECTOR DAMPER	20 A	1		0.50		1	20 A	CORD REEL 0101 RM 152	16
17	SAWDUST COLLECTOR CONTROL PANEL	20 A	1			0.50	1	20 A	CORD REEL 0201 RM 152	18
19	JIG SAW WS8	20 A	1	1.18			1	20 A	CORD REEL 0301 RM 152	20
21	SANDER	20 A	2		1.25		1	20 A	CORD REEL 0102 RM 152	22
23	-	-	-			1.25	1	20 A	CORD REEL 0202 RM 152	24
25	SPARE	20 A	3	0.00			1	20 A	CORD REEL 0302 RM 152	26
27	-	-	-		0.00		1	20 A	SPARE	28
29	-	-	-			0.00	1	20 A	SPARE	30
31	SPARE	20 A	1	0.00			1	20 A	SPARE	32
33	SPARE	20 A	1		0.00		1	20 A	SPARE	34
35	SPARE	20 A	1			0.00	1	20 A	SPARE	36
37	SPARE	20 A	1	0.00			1	20 A	SPARE	38
39	SPARE	20 A	1		0.00		1	20 A	SPARE	40
41	SPARE	20 A	1			0.00	1	20 A	SPARE	42
		TOTAL LOAD:		8.46 kVA	6.14 kVA	5.69 kVA				
		TOTAL AMPS:		70.45 A	51.15 A	47.35 A				

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
ELEVATOR	0.00 kVA	100%	0.00 kVA		
HEATING	0.00 kVA	100%	0.00 kVA	TOTAL CONN. (kVA):	20.29 kVA
COOLING	0.00 kVA	100%	0.00 kVA	TOTAL EST. DEMAND (kVA):	21.28 kVA
REFRIGERATION	0.00 kVA	100%	0.00 kVA	TOTAL CONN. (A):	56.31 A
WATER HEATING	0.00 kVA	100%	0.00 kVA	TOTAL EST. DEMAND (A):	59.06 A
LIGHTING (125%)	0.00 kVA	125%	0.00 kVA		
RECEPTACLES (<10kVA @ 100%)	3.42 kVA	100%	3.42 kVA		
RECEPTACLES (>10KVA @ 50%)	0.00 kVA	50%	0.00 kVA		
LARGEST MOTOR	3.96 kVA	125%	4.95 kVA		
OTHER MOTORS	9.41 kVA	100%	9.41 kVA		
KITCHEN EQUIPMENT	0.00 kVA	65%	0.00 kVA		
MISCELLANEOUS	3.50 kVA	100%	3.50 kVA		
EV CHARGING	0.00 kVA	100%	0.00 kVA		

NOTES:

PANEL: 1E9

REVISED

LOCATION: WOOD SHOP | MANUFACTURER: EATON | VOLTAGE: 208Y/120V | AIC RATING: 10K
SUPPLY FROM: 1ED1 | CAT. #: PRL1A | PHASES: 3 | MAINS TYPE: MAIN LUGS ONLY
MOUNTING: SURFACE | WIRES: 4 | MAINS RATING: 225A
NEMA RATING: TYPE 1 | NEUTRAL RATING: 100%
BUSSING: CU

CCT	CIRCUIT DESCRIPTION	RATING	POLES	A (kVA)	B (kVA)	C (kVA)	POLES	RATING	CIRCUIT DESCRIPTION	CCT
1	RADIAL ARM SAW WS1	20 A	1	1.18			1	20 A	WOOD LATHE WS9	2
3	SPARE	20 A	1		0.00		1	20 A	WOOD LATHE WS10	4
5	SPARE	20 A	1			0.00	1	20 A	HORIZONTAL DRILL WS11	6
7	DRILL PRESS WS4	20 A	1	1.18			1	20 A	MITER SAW WS17	8
9	BAND SAW WS5	20 A	3		1.32		1	20 A	DISC SANDER WS18	10
11	-	-	-			1.32	1	20 A	REC RM 152	12
13	-	-	-	1.32			1	20 A	REC RM 152	14
15	AD-01 (NOTE 1)	20 A	1		0.50		1	20 A	CORD REEL 0101 RM 152	16
17	SD-01 (NOTE 1)	20 A	1			0.50	1	20 A	CORD REEL 0201 RM 152	18
19	JIG SAW WS8	20 A	1	1.18			1	20 A	CORD REEL 0301 RM 152	20
21	SANDER	20 A	2		1.25		1	20 A	CORD REEL 0102 RM 152	22
23	-	-	-			1.25	1	20 A	CORD REEL 0202 RM 152	24
25	SPARE	20 A	3	0.00			1	20 A	CORD REEL 0302 RM 152	26
27	-	-	-		0.00		1	20 A	SPARE	28
29	-	-	-			0.00	1	20 A	SPARE	30
31	SDC-01 (NOTE 1)	20 A	1	0.50			1	20 A	SPARE	32
33	SCP-01 (NOTE 1)	20 A	1		0.50		1	20 A	SPARE	34
35	SE-01 (NOTE 1)	20 A	1			0.50	1	20 A	SPARE	36
37	FB-01 (NOTE 1)	20 A	1	0.50			1	20 A	SPARE	38
39	SPARE	20 A	1		0.00		1	20 A	SPARE	40
41	SPARE	20 A	1			0.00	1	20 A	SPARE	42
		TOTAL LOAD:		9.46 kVA	6.64 kVA	6.19 kVA				
		TOTAL AMPS:		78.78 A	55.31 A	51.51 A				

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
ELEVATOR	0.00 kVA	100%	0.00 kVA		
HEATING	0.00 kVA	100%	0.00 kVA	TOTAL CONN. (kVA):	22.29 kVA
COOLING	0.00 kVA	100%	0.00 kVA	TOTAL EST. DEMAND (kVA):	23.28 kVA
REFRIGERATION	0.00 kVA	100%	0.00 kVA	TOTAL CONN. (A):	61.87 A
WATER HEATING	0.00 kVA	100%	0.00 kVA	TOTAL EST. DEMAND (A):	64.61 A
LIGHTING (125%)	0.00 kVA	125%	0.00 kVA		
RECEPTACLES (<10kVA @ 100%)	3.42 kVA	100%	3.42 kVA		
RECEPTACLES (>10KVA @ 50%)	0.00 kVA	50%	0.00 kVA		
LARGEST MOTOR	3.96 kVA	125%	4.95 kVA		
OTHER MOTORS	9.41 kVA	100%	9.41 kVA		
KITCHEN EQUIPMENT	0.00 kVA	65%	0.00 kVA		
MISCELLANEOUS	5.50 kVA	100%	5.50 kVA		
EV CHARGING	0.00 kVA	100%	0.00 kVA		

NOTES:
1. REVISED CIRCUIT.

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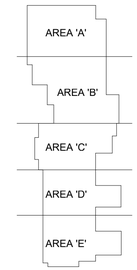
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PANEL SCHEDULES

E0.04
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EXTERIOR LUMINAIRE SCHEDULE

TYPE	CONSTRUCTION					LAMP	LIGHT SOURCE				ELECTRICAL							PRODUCT		NOTES
	DESCRIPTION	DIRECT LENS	MOUNTING	RATING	FINISH		LUMENS DOWN	LUMENS UP	CCT	CRI	DRIVER	VOLTAGE	WATTS	CIRCUITING	CONTROLS COMPONENT	EMERGENCY COMPONENT	LLLC	MANUFACTURER	MODEL SERIES	
L1	4' VAPORTITE CANOPY	ACRYLIC FROSTED	SURFACE	WET	WHITE	LED	4620	0	4000 K	80	LED DRIVER 0-10V 10% DIMMABLE	277 V	32	SINGLE	--	--	NO	COOPER COLUMBIA AFX	4APVT SERIES CVT-LSCS SERIES VTL48 SERIES	COLOR TEMPERATURE AND LUMEN SELECTABLE

NOTES:

1. FIRST MANUFACTURER/MODEL SERIES LISTED IS BASIS OF DESIGN.
2. CONFIRM FINISH WITH ARCHITECT PRIOR TO ORDERING.
3. CONFIRM MOUNTING HARDWARE/CEILING TYPE WITH ARCHITECT PRIOR TO ORDERING.

LIGHTING CONTROL SEQUENCE OF OPERATION:

GENERAL:

1. PHOTOCELLS TO BE INSTALLED IN EDGE OF PRIMARY AND SECONDARY DAYLIGHT ZONES. TRIGGER ONE OF THE PHOTOCELLS TO CONTROL LIGHTS IN PRIMARY DAYLIGHT ZONES, TRIGGER TWO OF THE PHOTOCELLS TO CONTROL LIGHTS IN SECONDARY DAYLIGHT ZONES.
2. PROGRAMMING SHALL BE PROVIDED FOR TIME ADJUSTMENT OF LIGHTS ON SITE.
3. ALL LIGHTS WHERE INDICATED SHALL BE CONTROLLED VIA 0-10V DIMMING.
4. THE LIGHTING CONTROLS OPERATE THE LUMINAIRES IN EACH ZONE AND THE LIGHTING CONTROL SYSTEM MONITORS THE LIGHTING SYSTEM AS INDICATED.

SEQUENCE OF OPERATION:

TYPICAL EXTERIOR ZONE

1. LIGHTING CONTROL IS MANUAL ON FROM THE LIGHT SWITCH AND AUTOMATIC OFF VIA THE OCCUPANCY SENSORS.
2. IF THE AREA BECOMES OCCUPIED, BASED UPON A SIGNAL FROM THE ROOM PRIMARY LIGHT SWITCH OR OCCUPANCY SENSOR, THE CANOPY LIGHT ZONE COMES ON AND THE PHOTOCELL MODULATES THE LUMINAIRES TO MAINTAIN THE LIGHTING LEVEL SETPOINT (ADJ) AS MEASURED BY THE PHOTOCELL. LIGHTING SHALL BE DIM TO OFF.
3. THE LIGHT SWITCH ALLOWS THE USER TO MANUALLY OVERRIDE THE AUTOMATIC CONTROLS OF THE LIGHTS TO REDUCE THE LIGHTING IN THE ROOM. SWITCH SHALL CONTROL AS FOLLOWS: SWITCH "OFF" TURNS OFF THE LUMINAIRES; SWITCH "ON" REVERTS TO AUTOMATIC CONTROL.
4. IF THE AREA BECOMES UNOCCUPIED (PER THE OCCUPANCY SENSOR), THE LIGHTS SHALL BE TURNED OFF AFTER AN ADJUSTABLE TIME DELAY (INITIALLY SET AT 10 MINUTES). ONCE THE LIGHTS GO OFF, PROVIDE AN ADJUSTABLE GRACE PERIOD (INITIALLY SET AT 10 SECONDS) DURING WHICH THE LIGHTS WILL AUTOMATICALLY COME BACK ON IF OCCUPANCY IS SENSED.
5. WHEN THE MANUAL OVERRIDE SWITCH IS OFF, THE LIGHTING CONTROL SYSTEM DISABLES THE LIGHTING CONTROLS AND LUMINAIRES WITHIN THE CANOPY.

LIGHTING GENERAL NOTES:

GENERAL:

1. EQUIPMENT SHOWN IS DIAGRAMMATIC. COORDINATE EQUIPMENT LOCATION WITH ARCHITECTURAL SHEETS PRIOR TO INSTALLATION.
2. COORDINATE LOCATION OF LUMINAIRES IN MECHANICAL SPACES WITH DUCTWORK, PIPING, AND EQUIPMENT AND RELOCATE TO ALLOW FOR UNOBSTRUCTED DISTRIBUTION PRIOR TO INSTALLATION.
3. LUMINAIRE LOCATIONS SHOWN REPRESENT DESIGN INTENT ONLY. FINAL LUMINAIRE LOCATIONS SHALL BE COORDINATED WITH ARCHITECTURAL REFLECTED CEILING PLANS AND FIELD CONDITIONS. ARCHITECT SHALL HAVE FINAL AUTHORITY OVER LUMINAIRE LAYOUT AND LOCATIONS, INCLUDING ELEVATIONS. NOTIFY ENGINEER OF SIGNIFICANT LUMINAIRE LOCATION REVISIONS TO ALLOW VERIFICATION OF PHOTOMETRIC PERFORMANCE.
4. PHOTOMETRIC CALCULATIONS INCLUDED IN THE CONTRACT DOCUMENTS ARE PROVIDED FOR REFERENCE ONLY AND ARE BASED ON THE BASIS-OF-DESIGN LUMINAIRES INDICATED. PERFORM AN INDEPENDENT, COMPLETE PHOTOMETRIC ANALYSIS BASED ON THE ACTUAL LUMINAIRES SUBMITTED FOR THIS PROJECT. INCLUDE COSTS FOR PHOTOMETRIC ANALYSIS IN BASE BID. ANALYSIS SHALL VERIFY COMPLIANCE WITH THE MINIMUM ILLUMINATION LEVELS INDICATED IN THE CONTRACT DOCUMENTS AND LOCAL HEALTH DEPARTMENT REQUIREMENTS. PHOTOMETRIC CALCULATIONS SHALL BE PROVIDED WITH THE LIGHTING SUBMITTALS FOR REVIEW. IF THE SUBMITTED FIXTURES DO NOT MEET THE REQUIRED LIGHT LEVELS, CONTRACTOR SHALL NOTIFY THE ENGINEER AND PROVIDE RECOMMENDATIONS FOR LUMEN OUTPUT ADJUSTMENTS PRIOR TO PROCUREMENT.
5. PROVIDE 10' OF EXTRA CONTROL WIRING FOR ALL CEILING MOUNTED LIGHTING CONTROLS (I.E. OCCUPANCY SENSORS, DAYLIGHT SENSORS, ETC.) FOR FIELD REQUIRED ADJUSTMENTS AS NECESSARY.
6. PROVIDE A NEUTRAL CONDUCTOR AT ALL LIGHT SWITCHES PER NEC 404.2.
7. PRIOR TO ROUGH-IN, CONSULT WITH THE OWNER AND ARCHITECT TO DETERMINE IF ANY CHANGES TO EQUIPMENT FURNISHED BY OTHERS HAVE BEEN MADE SINCE THE CONTRACT DOCUMENTS WERE PREPARED.
8. MINIMUM LIGHT INTENSITY OF 50 FOOT CANDLES, FROM GENERAL, TASK OR NATURAL LIGHTING SHALL BE PROVIDED IN SPECIAL INSTRUCTIONAL AREAS WHERE SAFETY IS OF PRIME CONSIDERATION OR FINE DETAIL WORK IS DONE INCLUDING: SEWING ROOMS, LABORATORIES (INCLUDING CHEMICAL STORAGE AREAS), SHOPS (CAREER AND TECHNICAL EDUCATION), DRAFTING ROOMS, AND ART AND CRAFT ROOMS. MAINTAINED LIGHT INTENSITIES SHALL BE PROVIDED AS MEASURED 30 INCHES ABOVE THE FLOOR OR ON WORKING OR TEACHING SURFACES.
9. FOR ALL OTHER SPACES NOT INDICATED ABOVE, MINIMUM LIGHT INTENSITY SHALL MEET THE RECOMMENDED MINIMUM FOOTCANDLE LEVELS AS NOTED PER WAC 246-366-120 AND THE ILLUMINATING ENGINEERING SOCIETY OF NORTH AMERICA (IESNA).

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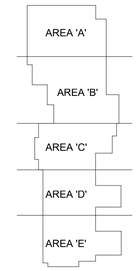
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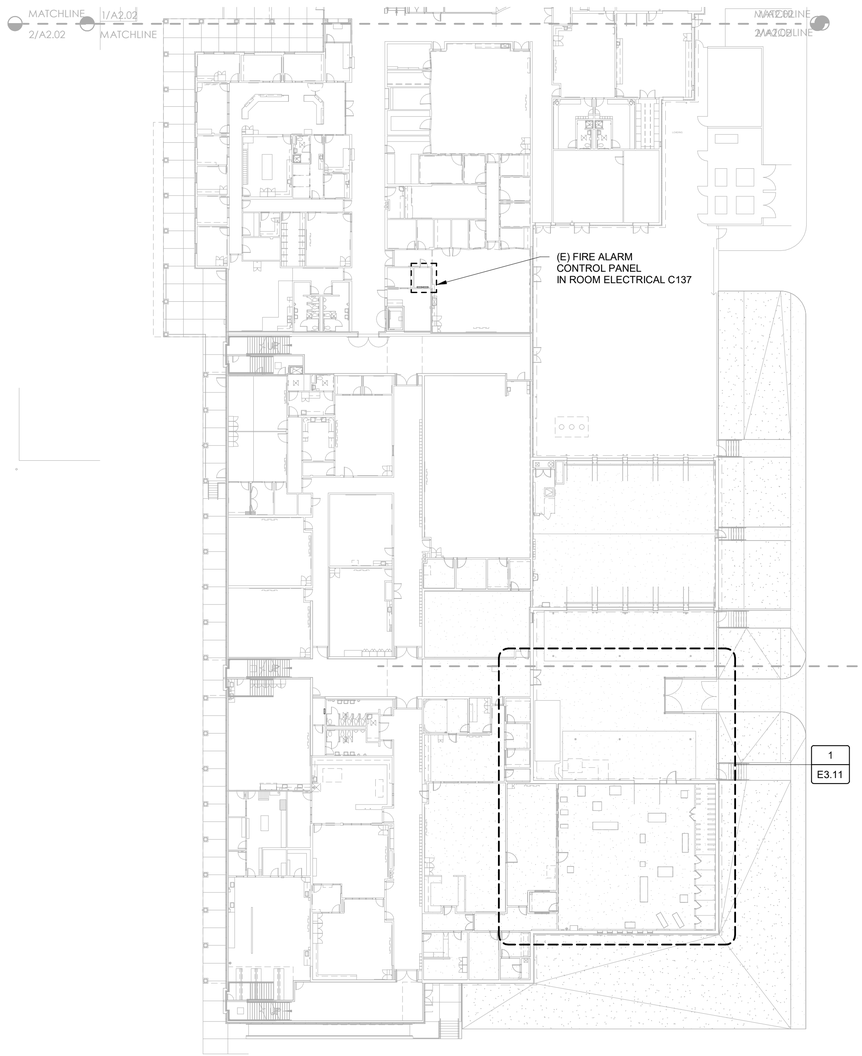


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Sheet Title
LIGHTING NOTES AND SCHEDULES

E0.05
Sheet Number Of

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2 OVERALL ELECTRICAL PLAN AREA C, D & E

1" = 30'-0"

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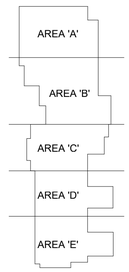
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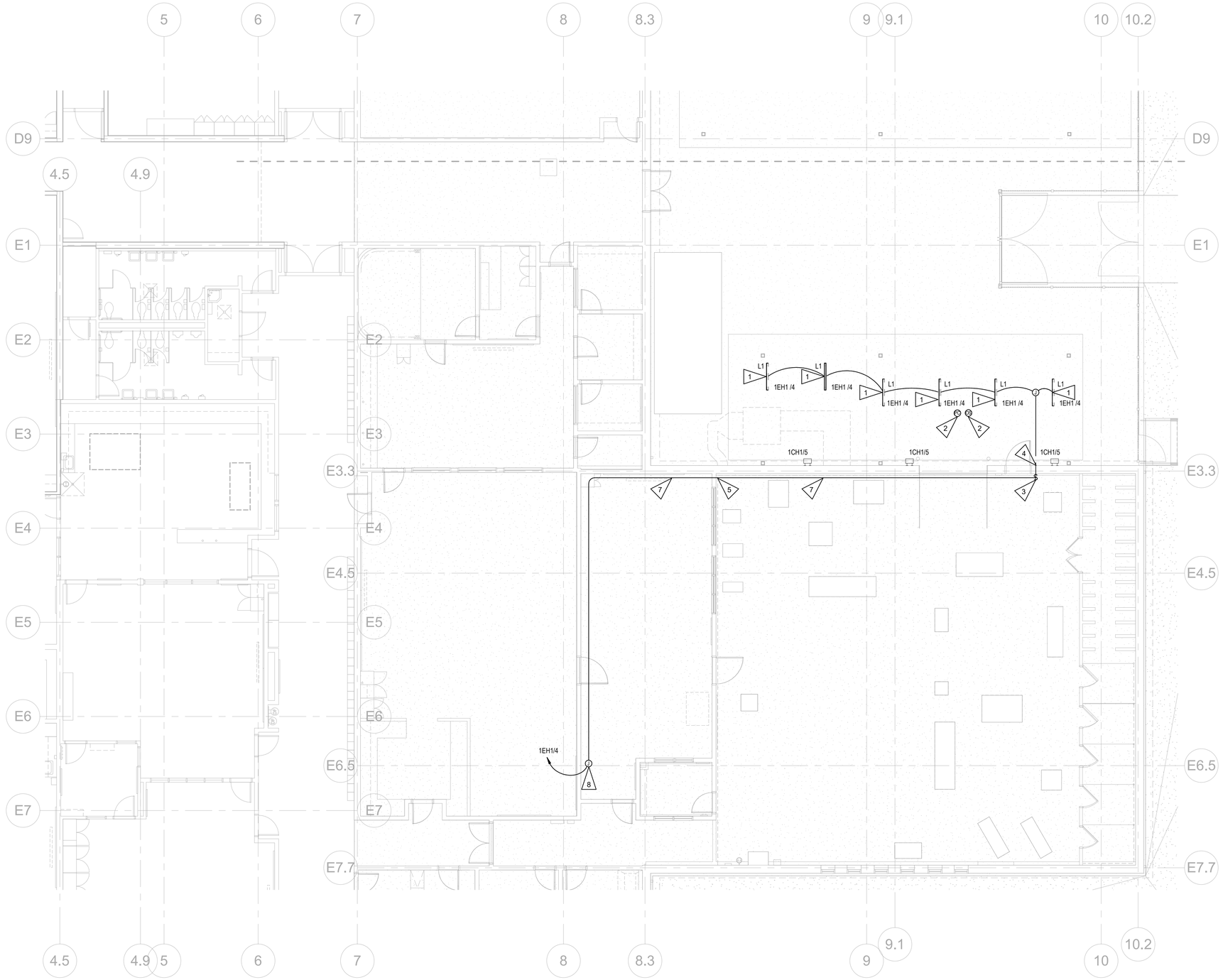


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OVERALL ELECTRICAL PLAN AREA C, D & E

E1.01
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GENERAL NOTES:

1. SEE SHEET E0.02 AND E0.03 FOR ADDITIONAL GENERAL NOTES.
2. SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LUMINAIRE LOCATIONS.
3. PROVIDE 10' OF EXTRA CONTROL WIRING FOR ALL CEILING MOUNTED LIGHTING CONTROLS (I.E. OCCUPANCY SENSORS, DAYLIGHT SENSORS, ETC.) FOR FIELD REQUIRED ADJUSTMENTS AS NECESSARY.
4. REFER TO SCHEDULES ON SHEETS E0.03 TO E0.04 FOR ADDITIONAL INFORMATION.

FLAG NOTES:

1. PROVIDE NEW LUMINAIRE, CONDUIT, AND CONDUCTORS. ROUTE LUMINAIRE CIRCUIT THROUGH OCCUPANCY AND PHOTOCELLS FOR AUTOMATIC CONTROL.
2. PROVIDE PHOTOCELL AND OCCUPANCY SENSOR FOR AUTOMATIC CONTROL OVERRIDE OF CANOPY LUMINAIRES WHEN MANUAL SWITCH IS ENABLED. SEE SHEET E0.04 FOR FOOTCANDLE LEVEL AND OCCUPANCY SENSOR SETPOINTS. LOCATE AND INSTALL OCCUPANCY SENSOR AND PHOTOCELL PER MANUFACTURER RECOMMENDATIONS.
3. PROVIDE MANUAL OVERRIDE ON/OFF SWITCH AND ROUTE LIGHTING CIRCUIT THROUGH SWITCH. SWITCH SHALL ENABLE/DISABLE CANOPY LIGHTING CIRCUIT AND SENSORS.
4. PROVIDE WALL CORING AND PENETRATION THROUGH EXTERIOR BRICK WALL SIZED FOR 3/4"C.
5. PROVIDE WALL CORING AND PENETRATION THROUGH METAL PANEL AND GYP SIZED FOR 3/4"C.
6. PROVIDE WALL CORING AND PENETRATION THROUGH GYP SIZED FOR 3/4"C.
7. SECURELY MOUNT AND ROUTE CONDUIT TIGHT TO STRUCTURE.
8. INTERCEPT EXISTING JUNCTION BOX IN SIGN-MAKING LAB AHEAD OF SWITCH AND EXTEND UNSWITCHED CIRCUIT TO WOOD SHOP CANOPY SWITCH LOCATION.

1 LIGHTING PLAN - FIRST FLOOR WOOD SHOP
1/8" = 1'-0"

NORTH

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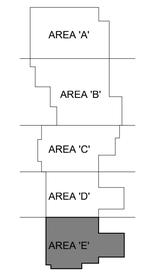
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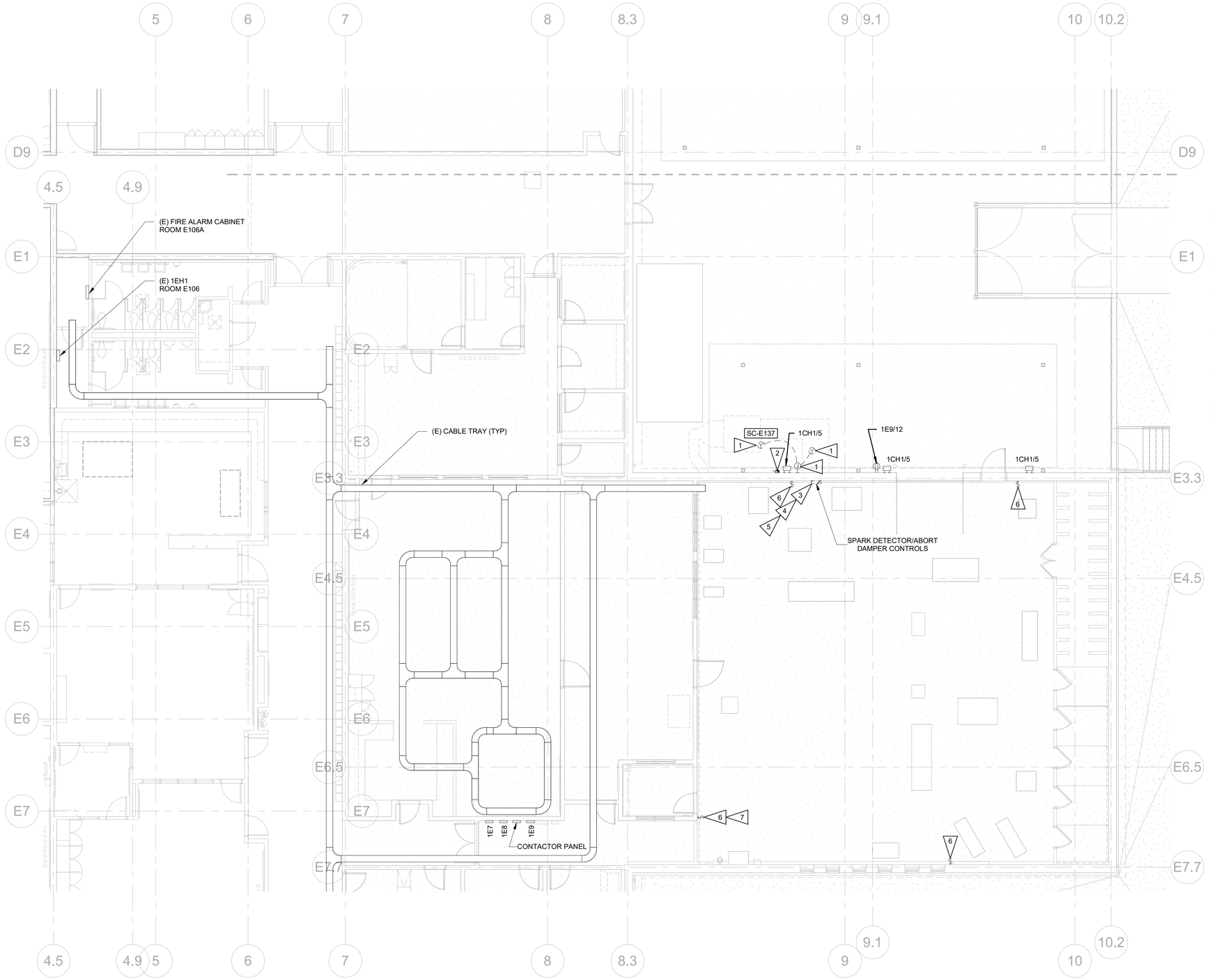
Sheet Title

LIGHTING - FIRST FLOOR WOOD SHOP

E2.11

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GENERAL NOTES:

1. SEE SHEET E0.02 FOR ADDITIONAL GENERAL NOTES.
2. ALL EQUIPMENT SHOWN IS EXISTING TO REMAIN UNLESS NOTED OTHERWISE.
3. DEMOLISH ELECTRICAL INDICATED. DEMOLISH ASSOCIATED CONDUCTORS BACK TO SOURCE PANEL OR NEAREST ACTIVE UPSTREAM CONNECTION. DEMOLISH ASSOCIATED CONDUIT BACK TO NEAREST ACCESSIBLE JUNCTION BOX OR ABOVE ACCESSIBLE CEILING UNLESS SPECIFICALLY INDICATED OTHERWISE.
4. CONDUIT ABANDONED IN PLACE SHALL BE DISCONNECTED, CAPPED, AND MADE SAFE AND SHALL NOT CONTAIN ENERGIZED CONDUCTORS. ABANDONED CONDUIT SHALL NOT INTERFERE WITH NEW WORK OR OTHER BUILDING SYSTEMS.
5. PROVIDE PATCHING, PAINTING AND RESTORATION FOR DEMOLISHED DEVICES IN EXISTING WALLS TO REMAIN PROVIDED BY OTHERS.

FLAG NOTES:

1. DISCONNECT EXISTING DUST COLLECTOR AND CONDUCTORS. REMOVE CONDUCTORS BACK TO DUST COLLECTOR DISCONNECT. DEMOLISH CONDUIT BETWEEN DUST COLLECTOR AND EXTERIOR WALL JUNCTION BOX. JUNCTION BOX AND INTERIOR BUILDING CONDUIT TO PANEL 1EH1 TO REMAIN.
2. DEMOLISH DUST COLLECTOR DISCONNECT AND CONDUCTORS. REMOVE CONDUCTORS BACK TO PANEL 1EH1. INTERIOR BUILDING CONDUIT TO REMAIN.
3. SPARK DETECTOR TO BE DEMOLISHED. COORDINATE WITH MECHANICAL CONTRACTOR. DISCONNECT SPARK DETECTOR PRIOR TO DEMOLITION. EXISTING CONDUIT AND CONDUCTORS TO REMAIN.
4. ABORT DAMPER CONTROLS TO BE DEMOLISHED. COORDINATE WITH MECHANICAL CONTRACTOR. DISCONNECT ABORT DAMPER CONTROLS PRIOR TO DEMOLITION. EXISTING CONDUIT AND CONDUCTORS TO REMAIN.
5. DEMOLISH CABLING FROM SPARK DETECTOR/ABORT DAMPER CONTROLS TO SAW DUST COLLECTOR. DEMOLISH EXTERIOR CONDUIT. INTERIOR BUILDING CONDUIT TO REMAIN.
6. EXISTING EMERGENCY POWER OFF SWITCH TO REMAIN.
7. EXISTING RESET SWITCH TO REMAIN.

1 DEMO POWER PLAN - FIRST FLOOR WOOD SHOP
1/8" = 1'-0"

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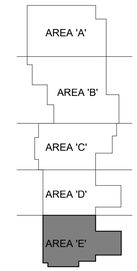
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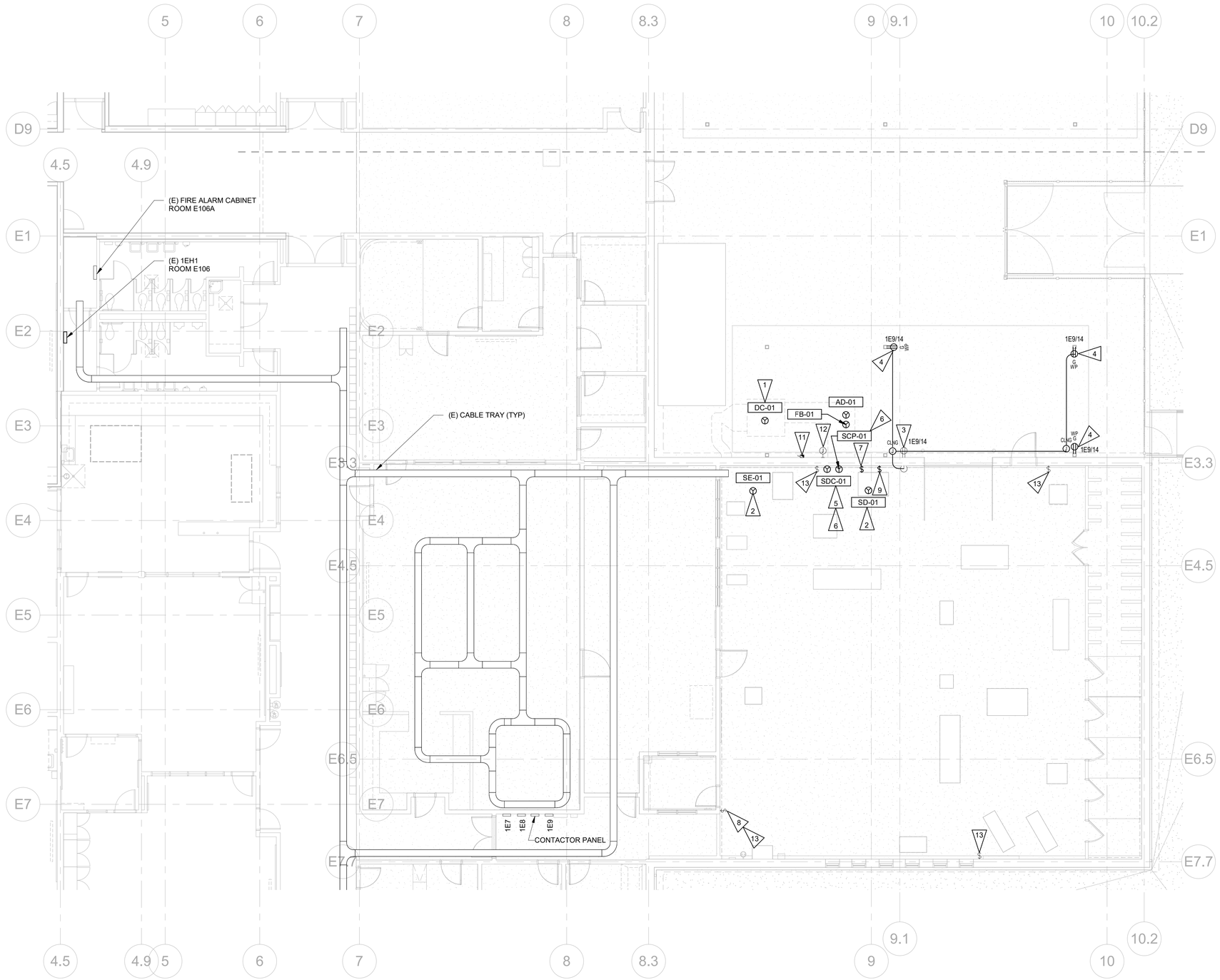
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DEMO POWER - FIRST FLOOR WOOD SHOP

ED3.11

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1 POWER PLAN - FIRST FLOOR WOOD SHOP

1/8" = 1'-0"

NORTH

GENERAL NOTES:

1. SEE SHEET E0.02 FOR ADDITIONAL GENERAL NOTES.
2. REFER TO SCHEDULES ON SHEETS E0.03 FOR ADDITIONAL INFORMATION.
3. WHERE POSSIBLE, MOUNT EQUIPMENT DISCONNECT SWITCHES DIRECTLY ON MECHANICAL UNIT SERVED. COORDINATE MOUNTING LOCATION AND SWITCH INSTALLATION WITH MECHANICAL CONTRACTOR. DISCONNECT SWITCH SHALL BE ACCESSIBLE AND MOUNTED TO THE COVER DOOR MAY BE OPENED AT LEAST 90 DEGREES. WHERE IT IS NECESSARY TO MOUNT DISCONNECT SWITCH ABOVE AN INACCESSIBLE CEILING, PROVIDE REMOVABLE ACCESS PANEL. COORDINATE ACCESS PANEL TYPE, STYLE, COLOR, AND LOCATION WITH ARCHITECT.
4. VERIFY THE PLACEMENT, WIRING REQUIREMENTS, AND EXACT LOCATION OF POINT OF CONNECTION FOR ALL HVAC AND PLUMBING EQUIPMENT WITH THE HVAC AND PLUMBING CONTRACTORS PRIOR TO ROUGH-IN. COORDINATE LOCATION/INSTALLATION OF DISCONNECTS AND WIRING WITH RESPECTIVE CONTRACTORS.
5. ALL ENCLOSED MOTOR CONTROLLERS SHALL BE FURNISHED WITH FULL-SIZED OVERLOADS, 120V CONTROL-VOLTAGE TRANSFORMERS WITH PRIMARY AND SECONDARY FUSING, ROTARY HOA SELECTOR SWITCH, COVER-MOUNTED ON/OFF PILOT LIGHTS, AND TWO SETS EACH OF NO AND NC AUXILIARY DRY CONTACTS.
6. ALL RECEPTACLES INSTALLED OUTDOORS SHALL BE LISTED AS "WEATHER RESISTANT". RECEPTACLES LOCATED OUTDOORS IN WET LOCATIONS SHALL HAVE AN ENCLOSURE THAT IS LISTED AS WEATHER-PROOF WHETHER OR NOT THE ATTACHMENT PLUG CAP IS INSERTED IN ACCORDANCE WITH NEC 406.9.
7. PROVIDE CONDUIT AND CONDUCTORS FOR POWER, CONTROLS, AND ALL APPURTENANCES OF SAWDUST COLLECTION SYSTEM. SEE E10.01 AND MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION. COORDINATE SPECIFIC REQUIREMENTS WITH SUBMITTED MANUFACTURER INSTALLATION INSTRUCTIONS.
8. INCLUDE COSTS ASSOCIATED WITH THE FOLLOWING: DISCONNECT EXISTING DUST SWITCHES FOR UP TO 15 SHOP MACHINES. DUST SWITCHES SHALL BE REPLACED IF NOT COMPATIBLE WITH NEW SYSTEM. PROVIDE CIRCUITING FOR NEW DUST SWITCH WITH SENSORS FOR UP TO 15 SHOP MACHINES, WIRED TO SPARK DETECTION AND EXTINGUISHING SYSTEM CONTROLLER.

FLAG NOTES:

1. PROVIDE CIRCUITING AND DISCONNECT FOR NEW DUST COLLECTOR. PROVIDE NEW CONDUCTORS IN EXISTING CONDUIT. EXTEND CONDUIT TO NEW LOCATION.
2. PROVIDE CIRCUITING FOR SPARK DETECTOR/SPARK EXTINGUISHER TO NEW SAW DUST COLLECTOR. PROVIDE NEW CONDUCTORS IN EXISTING CONDUIT. EXTEND CONDUIT TO NEW LOCATION.
3. INTERCEPT EXISTING EXTERIOR RECEPTACLE CIRCUIT AT INTERIOR. ROUTE CONDUIT AND CONDUCTORS INSIDE BUILDING UP TO BOTTOM OF CANOPY. PENETRATE AND CORE DRILL EXTERIOR BRICK WALL, SIZED FOR 3/4"C.
4. PROVIDE WEATHERPROOF, GFCI RECEPTACLE AT COLUMN. ROUTE CONDUIT UP COLUMN TO BOTTOM OF CANOPY.
5. SPARK DETECTION SYSTEM CONTROLLER. RECONNECT EXISTING POWER CIRCUITING. EXTEND EXISTING CONDUIT AND CONDUCTORS AS REQUIRED.
6. PROVIDE CONTROL RELAYS AND MONITOR MODULES REQUIRED TO INTEGRATE SAWDUST SPARK DETECTION SYSTEM AND DUST SWITCH INTO THE EXISTING BUILDING FIRE ALARM SYSTEM. COORDINATE REQUIREMENTS WITH SAWDUST COLLECTION SYSTEM MANUFACTURER PRIOR TO INSTALLATION. PROVIDE ALARM CABLING ROUTED BACK TO ROOM E106A. PROVIDE CONDUIT FOR FIRE ALARM CABLING IN WOOD SHOP AND TRANSITION TO OPEN CABLING UTILIZING EXISTING PATHWAYS/CABLE TRAY TO INTEGRATE SYSTEM INTO BUILDING FIRE ALARM SYSTEM. SEE DETAIL 1/E10.01 FOR ADDITIONAL INFORMATION.
7. SAWDUST CONTROL PANEL.
8. SAWDUST COLLECTOR HOA SWITCH. COORDINATE LOCATION WITH OWNER AND MECHANICAL PRIOR TO INSTALLATION.
9. EXISTING MANUAL RESET BUTTON.
10. ABORT DAMPER START/STOP BUTTON. PROVIDE CONDUIT AND CABLING TO ABORT DAMPER ACTUATOR (AD-01).
11. SAWDUST COLLECTOR FILTER BANK.
12. PROVIDE FUSED DISCONNECT AND CONDUCTORS FOR DUST COLLECTOR. ROUTE CONDUCTORS THROUGH EXISTING CONDUIT BACK TO PANEL 1EH1. PROVIDE CONDUCTORS AND CONDUIT TO DUST COLLECTOR (DC-01) SINGLE-POINT POWER CONNECTION.
13. ROUTE NEW CABLING THROUGH EXISTING JUNCTION BOX FOR ABORT DAMPER ACTUATOR POWER AND START/STOP BUTTON CONTROLS. PROVIDE NEW CONDUIT FROM JUNCTION BOX TO DUST COLLECTOR ABORT DAMPER.
14. EXISTING EMERGENCY POWER SHUT OFF SWITCH.

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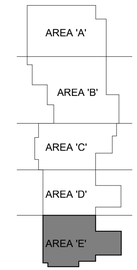
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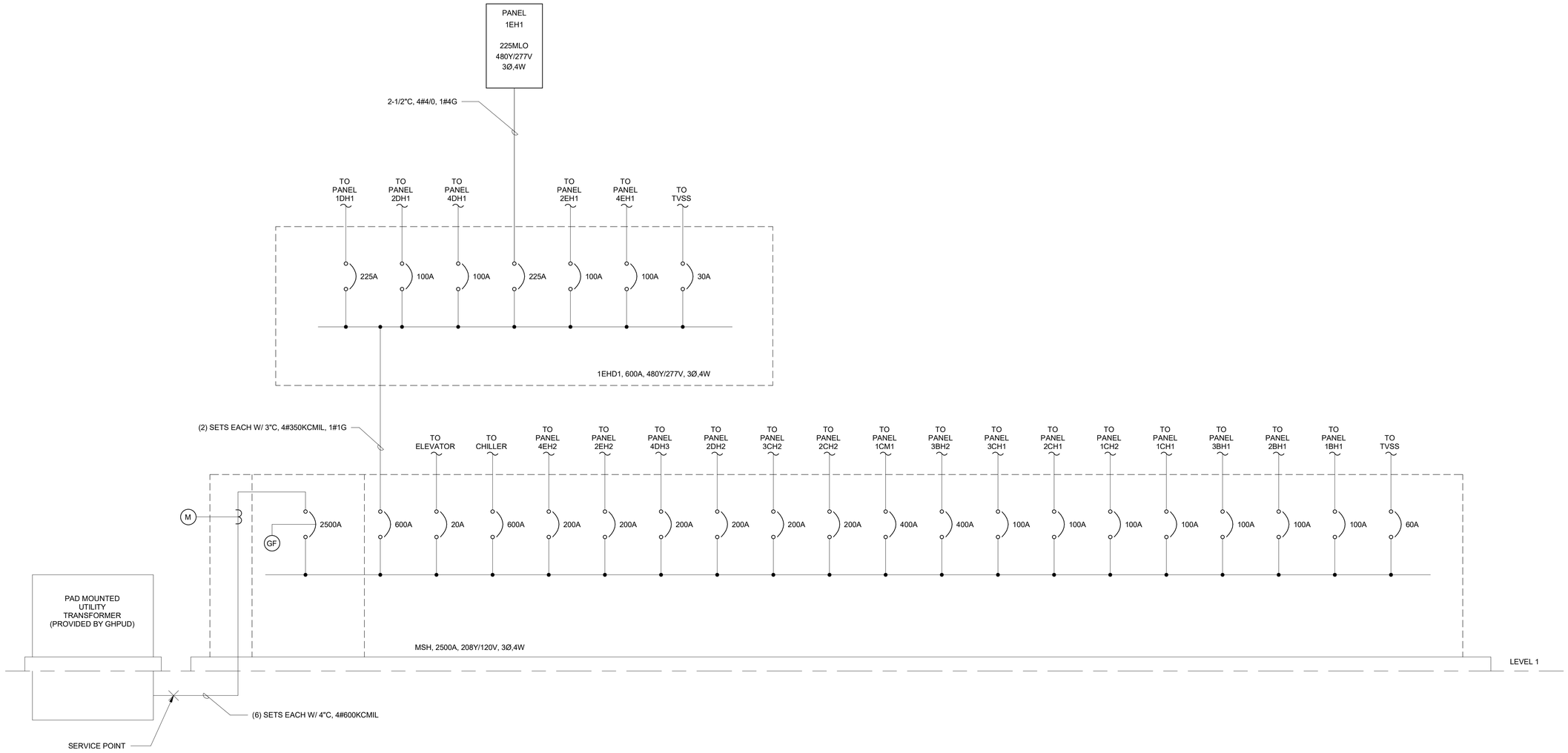
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GENERAL NOTES:

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2. NOT ALL OVERCURRENT DEVICES SHOWN. REFER TO PANEL SCHEDULES AND MOTOR AND EQUIPMENT WIRING SCHEDULE FOR ADDITIONAL INFORMATION.
3. ALL 600V CONDUCTOR SIZES ARE BASED UPON COPPER, TYPE THWN.



1 ELECTRICAL ONE-LINE DIAGRAM
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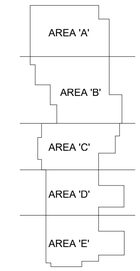
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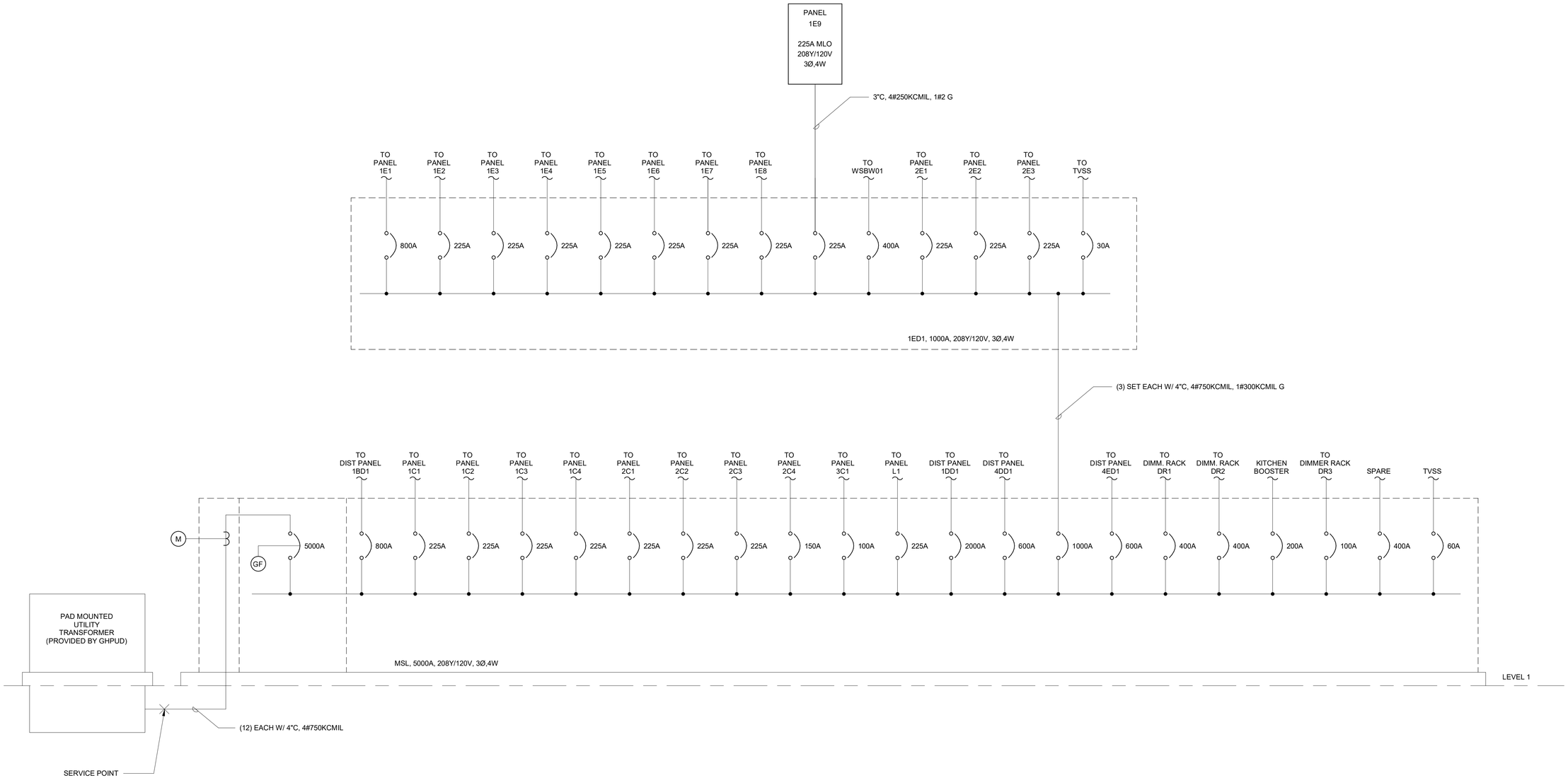
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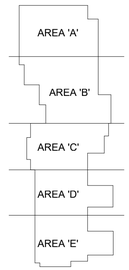
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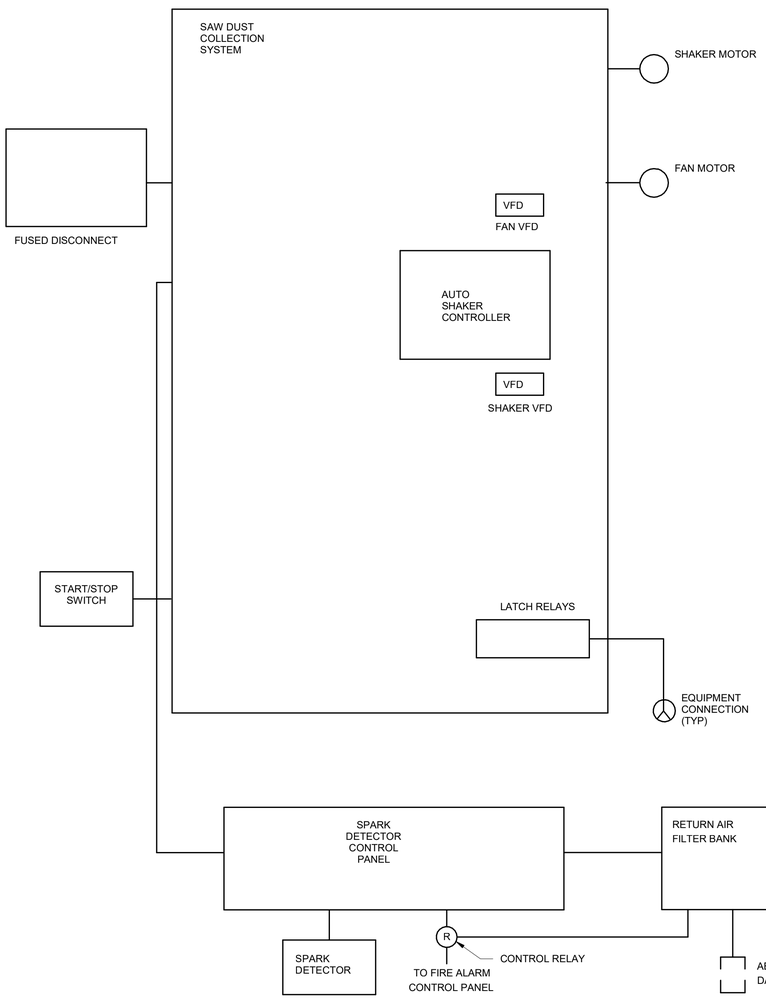


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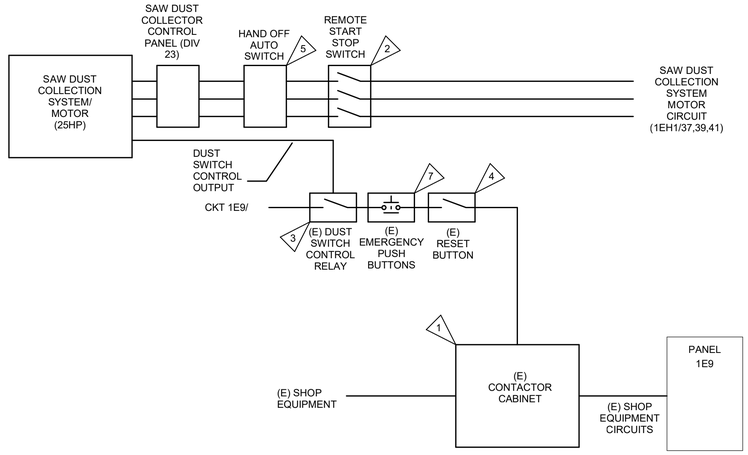
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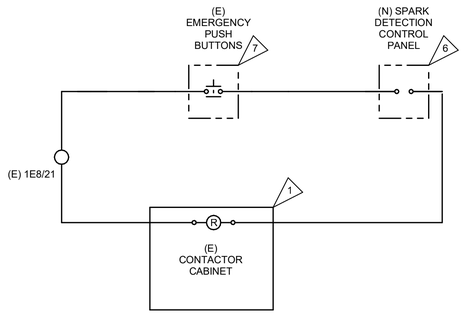
1 DUST COLLECTOR SCHEMATIC DIAGRAM

NONE



2 DUST COLLECTOR POWER CONTROL SCHEMATIC DIAGRAM

12" = 1'-0"



3 EMERGENCY POWER OFF SCHEMATIC DIAGRAM

12" = 1'-0"

GENERAL NOTES:

1. SCHEMATIC DIAGRAMS SHOWN ON THE DRAWINGS ARE PROVIDED FOR GENERAL REFERENCE ONLY AND ARE INTENDED TO ILLUSTRATE SYSTEM FUNCTIONALITY. PROVIDE FINAL CONTROL WIRING IN ACCORDANCE WITH THE EQUIPMENT MANUFACTURER'S REQUIREMENTS.
2. PROVIDE ALL CONDUIT, CONDUCTORS, CONTROL WIRING, AND TERMINATIONS REQUIRED TO CONNECT ALL ASSOCIATED MOTORS, VFDs, START/STOP STATIONS, AUXILIARY CONTACTS, AND CONTROL RELAYS TO THE SAWDUST COLLECTION CONTROL PANEL. PROVIDE COMPLETE WIRING NECESSARY FOR A FULLY FUNCTIONAL SYSTEM IN ACCORDANCE WITH EQUIPMENT MANUFACTURER REQUIREMENTS.
3. PROVIDE ALL CONDUIT, CONDUCTORS, CONTROL WIRING, AND TERMINATIONS REQUIRED TO CONNECT SPARK DETECTORS, FIRE ALARM CONTROL PANEL INTERFACES, RETURN AIR FILTER BANK INTERLOCKS, AND ASSOCIATED CONTROL RELAYS TO THE SPARK DETECTION CONTROL PANEL. PROVIDE ALL WIRING NECESSARY FOR PROPER SYSTEM OPERATION IN ACCORDANCE WITH EQUIPMENT MANUFACTURER REQUIREMENTS.
4. PROVIDE CONDUIT, CONDUCTORS, CURRENT SENSING SWITCHES, AND ASSOCIATED CONTROL WIRING REQUIRED TO INTERLOCK WOODWORKING EQUIPMENT WITH THE SAWDUST COLLECTION SYSTEM SUCH THAT THE DUST COLLECTION SYSTEM AUTOMATICALLY OPERATES WHEN CONNECTED EQUIPMENT IS IN USE.
5. SAWDUST COLLECTION SYSTEM BASIS OF DESIGN IS A 25 HP ARRESTALL MODEL AR6 DUST COLLECTOR BY AFF INTERNATIONAL. COORDINATE WITH THE EQUIPMENT MANUFACTURER PRIOR TO BID TO VERIFY ALL DIVISION 26 POWER, CONTROL, INTERLOCK, AND CONTROL WIRING REQUIREMENTS NECESSARY FOR A COMPLETE AND OPERATIONAL SYSTEM. PROVIDE ALL CONDUIT, CONDUCTORS, AND DEVICES REQUIRED BY THE MANUFACTURER FOR PROPER OPERATION WHETHER OR NOT SPECIFICALLY SHOWN ON THE DRAWINGS.
6. SUBMIT SHOP DRAWING OF CONTROL SYSTEM AND COMPONENTS TO ENGINEER FOR REVIEW.

FLAG NOTES:

1. EXISTING CONTACTOR ENCLOSURE. EXISTING CONTACTORS SHALL ALLOW SHOP EQUIPMENT TO BE ENERGIZED WHEN SAW DUST COLLECTION SYSTEM IS RUNNING. SHOP EQUIPMENT POWER-OFF BUTTONS ARE NOT ACTIVATED AND MANUAL RESET BUTTON IS ACTIVATED.
2. PROVIDE LINE VOLTAGE PILOT LIGHT START STOP SWITCH WITH THERMAL OVERLOADS. COORDINATE WITH OWNER FOR LOCATION. PROVIDE LOCKABLE TYPE ENCLOSURE.
3. VERIFY EXISTING CONTROL RELAY IS COMPATIBLE WITH NEW SAW DUST COLLECTION SYSTEM. RECONNECT EXISTING CONTROL RELAY TO INTEGRATE/INTERLOCK DUST SWITCH CONTROL OUTPUT FROM SAWDUST COLLECTION SYSTEM TO SHOP CONTACTOR CONTROL COMPONENTS. PROVIDE APPURTENANCES REQUIRED TO FORM COMPLETE SYSTEM. NOTIFY ENGINEER IF EXISTING RELAY IS NOT COMPATIBLE WITH NEW SAWDUST COLLECTION SYSTEM.
4. EXISTING RESET PUSHBUTTON. RESET BUTTON SHALL INTERRUPT CONTACTOR CONTROL COIL CIRCUIT UPON LOSS OF POWER TO COIL VOLTAGE AND NOT CLOSE UNTIL MANUAL RESET IS OPERATED AND SHALL NOT RE-ENERGIZE COIL CIRCUIT UNTIL MANUAL RESET OF PUSHBUTTON.
5. PROVIDE HAND, OFF, AUTO SWITCH LOCATED ADJACENT TO SAWDUST COLLECTOR CONTROL PANEL. PROVIDE NEMA 3R ENCLOSURE WITH LOCKABLE COVER.
6. SPARK DETECTION CONTROL PANEL. INTEGRATE INTO EXISTING EMERGENCY POWER SHUT-OFF SYSTEM. PROVIDE TRANSFORMER AS REQUIRED.
7. EXISTING EMERGENCY POWER SHUT-OFF PUSHBUTTON.

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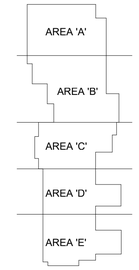
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