All ideas, designs, drawings, and plans set forth on these sheets are owned by and are the property of Oh planning+design, architecture. Any use, reuse, or disclosure of said plans, reproductions, ideas, designs, and/or arrangements without the written permission of Oh planning+design, architecture is prohibited by law.

ALOHA HIGH SCHOOL

MODULAR REROOFING

18550 SW KINNAMAN ROAD, BEAVERTON, OR 97007

PERMIT / BID SET

GENERAL CONSTRUCTION NOTES

1. All work to comply with 2019 Oregon Structural Specialty Code.
2. All work shall conform to the contract documents which include the owner/contractor agreement, the drawings and specifications and all addenda and modifications issued by the designer.
3. The contractor shall review all documents and verify all dimensions and field conditions and shall confirm that work is buildable as shown. Any conflicts, discrepancies, or omissions, etc., within contract documents, drawings or between drawings and field conditions shall be immediately reported to the designer for clarification prior to the commencement of affected work.
4. All contract documents, including without limitation these general notes and the specifications shall apply not only to the general contractor but to all subcontractors and suppliers on this project. The word 'contractor' shall hereafter apply equally and without exception to all subs and suppliers. All contractors are responsible for familiarizing themselves with both these notes and specifications
5. No one drawing or specification section shall 'govern'. Contractor shall correlate work between architectural drawings and specifications and consultant drawings and specifications. Contractor shall also correlate work between drawings of different scales within each section. It is the explicit and specific responsibility of the contractor to examine the contract documents in their entirety, report all discrepancies encountered therein to the attention of the designer and await resolution before proceeding with any work affected by such discrepancies. Where the requirements of either the general notes or the specifications may be at variance with the general conditions, the more restrictive provision shall govern.
6. Contractor shall field verify all existing construction and related conditions prior to starting demolition or new construction.
7. General notes are an aid to the contractor in understanding the work and should not be construed as being complete in every detail. It is the explicit and specific responsibility of the contractor to visit the site, verify the existing conditions and familiarize himself thoroughly with the scope of work, and report all discrepancies between the drawings and the assumed or actual conditions to the attention of the designer (architect).
8. Substitutions, revisions or changes must be submitted to the designer for review (in conformance with specified procedures) prior to purchase, fabrication or installation.
9. The contractor shall maintain for the entire duration of the work all exits, exit lighting, fire protective devices and alarms in conformance with all applicable codes and ordinances.
10. Where interruption of the building's Life Safety System is required to perform the work as described in the construction documents, or to coordinate with owner's operations, the Contractor shall provide interim Life Safety measures to comply with local code and owner's requirements.
11. Protect the building, its systems, finishes and related and appurtenant items, so as not to cause damage derived from the work; comply with building rules and regulations.
12. Locate and verify existence and use of existing utilities. Take necessary measures to protect and preserve function and condition of any utilities to be repaired, replaced, or reused in new construction. Coordinate work with Architect, Engineer and Owner.
13. Contractor to coordinate installation and scheduling of Owner or Owner's vendor provided or installed fixtures and equipment.
14. Contractor shall be solely responsible for the design and construction of all shoring and bracing required for construction of the Work. Contractor shall not store construction materials or equipment in a manner such that the design live loads of the structure are exceeded.
15. 'Typical' or 'typ' shall mean that the condition is representative for similar conditions throughout unless noted otherwise. Details are usually keyed and noted 'typ' only once, when they first occur.
16. 'Similar' or 'Sim' means comparable characteristics for the conditions noted, verify dimensions and orientation on plans and elevations.
17. The contractor shall not be relieved of responsibility for deviations from requirements of the contract documents by the designer's review of shop drawings, product samples, or similar submittals unless the contractor has specifically informed the designer in writing of such deviation at the time of submittal and the designer has reviewed the specific deviation for the compliance with the intent of the contract documents. The contractor shall not be relieved of responsibility for errors or omissions in shop drawing, product samples, or similar submittals by the designer's review thereof.
18. It is the responsibility of the contractor to coordinate, request and forward to the designer for review shop drawing, product data, samples and similar submittals required by the contract documents with reasonable promptness and in such sequence as to cause no delay in the work or in the activities of the Owner or of separate contractors.
19. All open joints, penetrations and other openings in the building envelope resulting from the remodel and alterations shall be caulked, sealed, gasketed or weather stripped to limit air leakage.
20. All manufactured articles, material and equipment shall be applied, installed, connected, erected, used, cleaned and conditioned as directed by the manufacturer unless herein specified to the contrary. In case of difference between the manufacturer's instruction and the contract documents, the contractor shall notify the designer before proceeding.
21. All lines, symbols, notes, tones and other graphic devices contained in the contract documents carry specific or inferential meaning. Items indicated in these are a part of the scope of work and will be required by the owner and designer to be included in the scope of the contractor's work whether they have been included in the contractor's original bid or not. Any items which require further clarification by the designer for the specific benefit of the contractor shall be brought to the attention of the designer for such clarification before commencement of any work.
22. Design work is the responsibility of the designer. The contractor shall assume design liability and all responsibility for changes in the scope of work not brought to the attention of the designer.
23. Dimensions are not adjustable without written approval from the designer.
24. The contractor shall pay specific attention to all dimensioned or inferential plan and sectional special relationships, and shall verify all alignments before commencing work.
25. Dimensions marked 'verify' are to be checked for accuracy by the contractor as work proceeds, and all discrepancies are to be brought to the attention of the designer before proceeding.
26. Dimensions marked 'clear' or minimum are not adjustable without the authorization from the designer. 'Align' means to accurately locate finished faces in same plane as indicated.
27. Contractor shall not scale the drawings, figured dimensions only are to be used for all aspects of the work. Large scale details take precedence over smaller scale drawings.
28. Contractor is responsible for all waste removal and site clean up during performance of and at completion of the work.
29. All features of the Work not fully shown shall be of the same type and character shown for similar conditions. In the event that additional work is required to complete the Work as intended or required by governing codes and safety regulations, yet omitted or not fully shown on the drawings, the contractor must still provide carpentry, mechanical, electrical and/or plumbing work as necessary for Certificate of Occupancy.
30. Keynotes are not sheet specific, unless noted otherwise.

CONTACT INFORMATION

OWNER
Beaverton School District
16550 SW Merlo Road
Beaverton, Oregon 97003
Contact: Kurt Meeuwsen, Construction Manager
Email: kurt_meeuwsen@beaverton.k12.or.us
Telephone: 503.356.4552

ARCHITECT-OF-RECORD
Oh planning + design, architecture
115 NW First Avenue, Suite 300
Portland, OR 97209
Contact: Deb France, Principal
Email: deb.france@ohpd.net
Telephone: 503.280.8000
Fax: 503.224.5442

STRUCTURAL ENGINEER
KPFF Consulting Engineers
111 SW 5th Ave #2500,
Portland, OR 97204
Contact: Nathan Ingraffea, Principal
Email: nathan.ingraffea@kpff.com
Telephone: 503.764.0513

MECHANICAL/ELECTRICAL/PLUMBING ENGINEER
Interface Engineering
100 SW Main St #1600
Portland, OR 97204
Contact: Jim Sattem, Principal
Email: jims@interfaceeng.com
Telephone: 503.382.2266

CITY/STATE CONTACTS

COUNTY JURISDICTION:	Washington County 115 N 1st Ave, Suite 350 Hillsboro, OR 97124 Telephone: 503.846.3470
FIRE DISTRICT:	Tualatin Valley Fire & Rescue (TVF&R) 11945 SW 70th Avenue Tigard, OR 97223 Telephone: 503.649.8577
STATE FIRE MARSHAL:	Office of the State Fire Marshal 3565 Trelsted Avenue SE Salem, OR 97317 Telephone: 503.373.1540

LOCATION PLAN

APPLICABLE CODES

2019 Oregon Structural Specialty Code (OSSC)
2017 Oregon Electrical Specialty Code (OESC)
2019 Oregon Zero Energy Ready Commercial Code (OZERCC)
2019 Oregon Fire Code (OFC)
2019 Oregon Mechanical Specialty Code (OMSC)
2017 Oregon Plumbing Specialty Code (OPSC)
ICC A117.1-2009 Accessible and Usable Buildings and Facilities
2010 ADA Standards for Accessible Design
National Fire Protection Association (NFPA)

PROJECT INFORMATION

Construction Type
Type of Construction: VB & IIIB
Modular: V

Gross Building Area
Existing Building - 243,890 SF
Modular - 6,760 SF

Refer to Code Sheet for more information

PROPERTY DATA

Address:	18550 SW Kinnaman Road Aloha, Oregon 97007
Assessor's Map:	1S213AD
Tax Lot:	03100, 03800
Zoning:	INST - Institutional Washington County Planning Department
Site Area:	31.7 Acres

GENERAL HAZARD COMMUNICATION NOTE

Hazardous materials are present in this building. Review District's Hazardous Material Abatement drawings, Management Plan, and Hazardous Materials Survey to become aware of any asbestos containing materials or lead containing painted surfaces that may be impacted prior to the execution of the Work. If suspected hazardous materials are encountered, do not disturb. Inform the District immediately and take corrective action as outlined in specification section 01 10 00, Summary of Work, before proceeding with the Work.

PROJECT DESCRIPTION

Project scope includes replacement of roofing and rooftop mechanical units.

REROOF

1. ARCHITECTURAL
   a. Re-roof with single-ply roofing materials and rigid insulation – full tear-off of existing roofing.
   b. Re-roof with single-ply roofing materials and rigid insulation – partial tear-off of existing roofing.
   c. Replace roof flashings and copings.
   d. Salvage and reinstall roof hatches.
   e. Modify & reinstall existing roof ladders.
2. MECHANICAL
   a. Replace (4) packaged rooftop heat pumps with new packaged gas/electric rooftop units.
   b. Install gas piping to new rooftop units from existing meter.
   c. Replace (2) packaged gas/electric rooftop units with new, including adapter curbs to fit on existing curbs.
   d. Air balancing for (6) rooftop units.
   e. New controls and thermostats for (6) rooftop units.
3. PLUMBING
   a. Demolish, relocate or install related plumbing items within areas of work.
   b. Extend plumbing roof vents as required to accommodate new roof assembly & insulation.
   c. Extend gas line to new rooftop units.
4. ELECTRICAL
   a. Demolish, relocate or install related electrical items within areas of work.

SHEET INDEX KEY

AD-101

Discipline	Type	Category	Page #
G: General C: Civil L: Landscape A: Architectural S: Structural M: Mechanical P: Plumbing E: Electrical	D: Demolition	0: General Info. 1: Site 2: Plans 3: Exterior Elevations 4: Sections 5: Vertical Circulation 6: Interior Elevations 7: Details 8: Schedules/Finishes 9: 3D Representations	

SHEET INDEX

GENERAL
G-001 COVER SHEET
G-002 ABBREVIATIONS, LEGENDS AND NOTES
G-101 SITE PLAN
G-201 CODE SUMMARY
G-202 FIRE LIFE SAFETY PLAN FIRST FLOOR
G-203 FIRE LIFE SAFETY PLAN MEZZ/LOWER FLOOR

ARCHITECTURAL
AD-221 ROOF DEMOLITION PLAN
A-221 ROOF PLAN
A-231 ENLARGED PLANS & ELEVATIONS
A-301 EXTERIOR ELEVATIONS
A-720 ROOF DETAILS
A-721 ROOF & LADDER DETAILS

MECHANICAL
M-001 SYMBOLS LIST & GENERAL NOTES - MECHANICAL
M-221 ROOF PLANS - MECHANICAL

PLUMBING
P-001 SYMBOL LIST & SCHEDULES - PLUMBING

ELECTRICAL
E-001 SYMBOL LIST & GENERAL NOTES - ELECTRICAL
E-221 ROOF PLANS - POWER

BEAVERTON SCHOOL DISTRICT
ALOHA HIGH SCHOOL
18550 SW KINNAMAN ROAD,
BEAVERTON, OR 97007

OH PLANNING+DESIGN, ARCHITECTURE
115 NW 1st Ave, Ste, 300
Portland, OR 97209
t 503.280.8000
f 503.224.5442

Consultants:

ALOHA HIGH SCHOOL
MODULAR REROOFING

PERMIT / BID SET

REGISTERED ARCHITECT
DEBORAH K. FRANCE
PORTLAND, OR
12/31/2022
#5530
STATE OF OREGON

Date:	04/06/2021
Project Number:	90065
Drawn By:	DET
Checked By:	TA

Revision Schedule:

Sheet Title:
COVER SHEET

Sheet Number:
G-001

PERMIT / BID SET

4/5/2021 8:38:29 AM

All ideas, designs, drawings, and plans set forth on these sheets are owned by and are the property of Oh planning+design, architecture. Any use, reuse, or disclosure of said plans, reproductions, ideas, designs, and/or arrangements without the written permission of Oh planning+design, architecture is prohibited by law.

ABBREVIATIONS

A	
AC	ACOUSTIC CEILING
ACOUS	ACOUSTIC
ACT	ACOUSTICAL TILE
AD	AREA DRAIN
ADD	ADDENDUM
ADDL	ADDITIONAL
ADJ	ADJUSTABLE/ADJACENT
AFF	ABOVE FINISH FLOOR
AGGR	AGGREGATE
ALT	ALTERNATE/ALTERATION
ALUM	ALUMINUM
ALX	AUXILIARY
ANCH	ANCHOR
ANOD	ANODIZED (ANODIC COATING)
AP	ACCESS PANEL
APPROX	APPROXIMATELY
ARCH	ARCHITECTURAL
ARF	ABOVE REFERENCE FLOOR
ASPH	ASPHALT (IC)
ASST	ASSISTANT
AST	ASTRAGAL
AUTO	AUTOMATIC
AV	AUDIO VISUAL
AVG	AVERAGE
B	
B/C	BOTTOM OF CURB
BAL	BALANCE
BD	BOARD
BLDG	BUILDING
BLK	BLOCK(ING)
BM	BENCH MARK/ BEAM
BSMT	BASEMENT
BULL	BULLETIN
C	
C/C	CENTER TO CENTER
CAB	CABINET
CB	CATCH BASIN
CCTV	CLOSED CIRCUIT TV
CEMPL	CEMENT PLASTER
CER	CERAMIC
CFCI	CONTRACTOR FURNISHED CONTRACTOR INSTALLED
CG	CORNER GUARD
CH	COAT HOOK
CHAM	CHAMFER
CHAN	CHANNEL
CHKBD	CHALKBOARD
CIP	CAST-IN-PLACE (CONCRETE)
CJ	CONTROL JOINT
CL	CENTER LINE/CLEARANCE
CLG	CEILING
CLR	CLEAR
CMT	CERAMIC MOSAIC TILE
CMU	CONCRETE MASONRY UNIT
CNTR	COUNTER
CO	CLEAN OUT
COL	COLUMN
COMB	COMBINATION/COMBUSTIBLE
COMP	COMPRESS(ED)/COMPOSITE
CONC	CONCRETE
COND	CONDUIT/ CONDITION
CONF	CONFERENCE
CONN	CONNECT(ION)
CONST	CONSTRUCTION
CONT	CONTINUE/ CONTINUOUS
CONTR	CONTRACTOR
COORD	COORDINATOR
CORR	CORRIDOR
CPT	CARPET
CSWK	CASEWORK
CT	CERAMIC TILE
CTR	CENTER
CU	CUBIC
D	
DBL	DOUBLE
DEG	DEGREE(S)
DEM	DEMOLISH/DEMOLITION
DEPT	DEPARTMENT
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DIV	DIVISION/ DIVIDER
DN	DOWN
DWL	DOWEL
DWR	DRAWER
E	
(E)	EXISTING
EA	EACH
EB	EXPANSION BOLT
EJ	EXPANSION JOINT
ELEC	ELECTRIC(AL)
ELEV	ELEVATOR/ ELEVATION
EMER	EMERGENCY
ENAM	ENAMEL(ED)
ENCL	ENCLOSURE
ENGR	ENGINEER
ENTR	ENTRANCE
EPFL	EPOXY FLOORING
EPP	EPOXY PAINT
EQ	EQUAL
EQUIP	EQUIPMENT
EST	ESTIMATE(D)
ETC	ET CETERA
EW	EACH WAY
EWC	ELECTRIC WATER COOLER
EXAM	EXAMINATION/ EXAMINING
EXC	EXCAVATED/ EXCAVATION
EXH	EXHAUST
EXP	EXPOSED/ EXPANSION
EXT	EXTERIOR
F	
FA	FIRE ALARM
FAB	FABRICATE/ FABRICATOR/ FABRIC
FD	FLOOR DRAIN
FDC	FIRE DEPARTMENT CONNECTION
FDN	FOUNDATION
FDPR	FIRE DAMPER
FDV	FIRE DEPARTMENT VALVE
FDVC	FIRE DEPARTMENT VALVE CABINET
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FF	FACTORY FINISH
FH	FIRE HYDRANT/ FUME HOOD
FHC	FIRE HOSE CABINET
FHEC	FIRE HOSE & EXTINGUISHER CABINET
FIN	FINISH(ED)
FL	FLOOR LINE/ FLOOR
FLASH	FLASHING
FLEX	FLEXIBLE
FLR	FLOOR(ING)
FLUOR	FLUORESCENT
FOS	FACE OF STUD
FP	FIREPROOF(ING)/ FULL PENETRATION
FRAM(G)	FRAMING
FRT	FIRE RETARDANT
FS	FULL SIZE/ FLOOR SINK
FT	FOOT/ FEET
FTG	FOOTING
FURR	FURRING
FXD	FIXED
G	
GA	GAUGE/ GAGE
GALV	GALVANIZED
GB	GYPSUM BOARD
GC	GENERAL CONTRACTOR
GEN	GENERAL/ GENERATOR
GL	GLASS/GLAZING/GLAZED
GLAM	GLUE LAMINATED
GND	GROUND
GYP	GYPSUM
H	
HB	HOSE BIBB
HC	HOSE CABINET/ HANDICAP/ HOLLOW CORE
HCW	HOLLOW CORE WOOD/ HOT AND COLD WATER
HDBD	HARDBOARD
HDR	HEADER
HDWD	HARDWOOD
HDWR	HARDWARE
HGT (HT)	HEIGHT
HM	HOLLOW METAL
HR	HOUR
HS	HOOK STRIP/ HIGH STRENGTH
HSKG	HOUSEKEEPING
HTR	HEATER
HVAC	HEATING, VENTILATION, AIR CONDITIONING
HWY	HIGHWAY
HYD	HYDRANT
I	
ID	INSIDE DIAMETER (DIM.)
IE	FOR EXAMPLE
IG	INSULATING GLASS
IMP	INSULATED METAL PANEL
IN	INCH
INCAND	INCANDESCENT
INCL	INCLUDE(ING)
IND	INDUSTRIAL
INFO	INFORMATION
INSTL	INSTALLATION/ INSTALL
INSUL	INSULATE(D) (ING)
INT	INTERIOR
INTER	INTERACTIVE/ INTERMEDIATE
INV	INVERT
J	
JAN	JANITOR
JST	JOIST
JT	JOINT
K	
KO	KNOCK OUT
KP	KICK PLATE
L	
L&P	LATH & PLASTER
LAB	LABORATORY
LAM	LAMIANTE
LAV	LAVATORY
LB (S)	LAG BOLT(S)/ POUND(S)
LBL	LABEL
LF	LINEAL FOOT/ LINEAR FOOT
LH	LEFT HAND
LHR	LEFT HAND REVERSE
LIN	LINEAR
LL	LIVE LOAD
LT(G)	LIGHT (ING)
LW	LIGHTWEIGHT
M	
M&S	MIRROR & SHELF
M.S.B.	MULTIPLE STUD BEARING
MACH	MACHINE
MAINT	MAINTENANCE
MAS	MASONRY
MAT	MATERIAL
MAX	MAXIMUM
MBR	MEMBER
MC	MEDICINE CABINET
MCW	MINERAL CORE WOOD
MECH	MECHANICAL
MED	MEDICAL/ MEDIUM
MET	METAL
MEZZ	MEZZANINE
MFB	MINERAL FIBER BOARD
MFR	MANUFACTURE(ING)
MGR	MANAGER
MH	MANHOLE
MIC	MICROPHONE
MIN	MINIMUM
MIR	MIRROR
MISC	MISCELLANEOUS
ML	METAL LATH
MLP	METAL LATH AND PLASTER
MMB	MEMBRANE
MO	MASONRY OPENING
MOD	MODULAR/ MODIFIED/ MODIFICATION
MP	MOVABLE PARTITION/METAL PANEL
MR	MAT. RECESS./ MED RACK
MT	MOUNT(ED) (ING)
MTR	METER
MUL	MULLION
N	
N	NORHT
NEG	NEGATIVE
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
NO, #	NUMBER
NOM	NOMINAL
NONCOM	NON COMBUSTABLE
NRC	NOISE REDUCTION COEFFICIENT
NS	NON SLIP
NTS	NOT TO SCALE
O	
OC	ON CENTER
OD	OUTSIDE DIAMETER (DIM.)
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OFD	OVERFLOW DRAIN
OFF	OFFICE
OFOI	OWNER FURNISHED OWNER INSTALLED
OFVI	OWNER FURNISHED VENDOR INSTALLED
OH	OVERHEAD/ OVERHANG/ OPPOSITE HAND
OPER	OPERATING
OPH	OPPOSITE HAND
OPN (G)	OPEN(ING)
OPP	OPPOSITE
P	
PA	PUBLIC ACCESS
PAR	PARAGRAPH/ PARAPET
PB	PANIC BOLT/ PUSH BUTTON
PBD	PARTICLEBOARD
PC	PRE-CAST
PED	PEDESTAL
PERF	PERFORATED
PERM	PERIMETER
PERP	PERPENDICULAR
PFB	PREFABRICATE(D)
PG	PLATE GLASS
PGBD	PEGBOARD
PH	PHASE/ PAN HEAD
PL	PLATE/ PROPERTY LINE
PLAM	PLASTIC LAMINATE
PLAS	PLASTER
PLBG	PLUMBING
PLYWD	PLYWOOD
PNEU	PNEUMATIC
PNL	PANEL
PNT	PAINT(ED)
POL	POLISH(ED)
PORT	PORTABLE
PP	PUSH PLATE
PR	PAIR/ PRINTER/ COMPUTER PRINTER
PREFAB	PREFABRICATE(D)
PRELIM	PRELIMINARY
PRESS	PRESSURE
PROJ	PROJEC(TION)
PROP	PROPERTY
PROT	PROTECT(IVE) (ION)
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PTD	PAPER TOWEL DISPENSER
PTD/R	COMBINATION PAPER TOWEL DISPENSER & RECEPTACLE
PTN	PARTITION(S)
PTR	PAPER TOWEL RECEPTACLE
PVC	POLYVINYL CHLORIDE
PVMT	PAVEMENT
Q	
QT	QUARRY TILE
QTR	QUARTER
QUAN	QUANTITY
R	
R	RADIUS/ RISER/ RESILIENT
R&S	ROD & SHELF
RAD	RADIATOR/ RADIUS
RB	RUBBER BASE/ RESILIENT BASE
RCWY	RACEWAY
RD	ROOF DRAIN/ ROAD
RECEP	RECEPTACLE/ RECEPTION
RECIRC	RECIRCULATION
RECT	RECTANGULAR
RECVD	RECEIVED (ING)
REF	REFERENCE
REFR	REFRIGERATOR
REG	REGULATOR/ REGLET/ REGISTER
REINF	REINFORCE(D) (ING) (MENT)
REQ(D)	REQUIRE(D)
RESIL	RESILIENT
RET	RETURN
REV	REVERSE/ REVISED/ REVISION
RFG	ROOFING
RH	RIGHT HAND
RHR	RIGHT HAND REVERSE
RM	ROOM
RND	ROUND
RO	ROUGH OPENING
ROW	RIGHT OF WAY
RS	RESILIENT SHEET
RT	RESILIENT TILE
RTN	RETURN
S	
S&V	STAIN & VARNISH
SAB	SOUND ABSORPTION BATT
SAN	SANITARY
SC	SOLID CORE
SCHED	SCHEDULE
SCN	SCREEN
SCW	SOLID CORE WOOD
SD	SOAP DISPENSER / SOAP DISH
SECT	SECTION
SET	SETTING
SF	SQUARE FOOT
SFC	SPECIAL FLOOR COATING
SFP	SPRAYED ON FIREPROOFING
SHR	SHOWER
SHT	SHEET
SK	SINK/SKETCH
SLR	SEALER
SM	SHEET METAL
SND	SANITARY NAPKIN DISPENSER
SNR	SANITARY NAPKIN RECEPTACLE
SNT	SEALANT
SP	STANDPIPE/SHEER PLATE
SPEC	SPECIFICATION/SPECIFIED
SPK	SPEAKER
SPL	SPECIAL
SPNT	SPECIAL PAINT
SPR	SPRINKLER
SS	STAINLESS STEEL
SSK	SERVICE SINK
ST	STREET / STREAM
STA	STATION
STC	SOUND TRANSMISSION COEFFICIENT
STD	STANDARD
STL	STEEL
STOR	STORAGE
STRUC	STRUCTURAL
SUBFL	SUBFLOOR(ING)
SUP	SUPPLY
SUPP	SUPPORT / SUPPLEMENT(AL)
SURF	SURFACE
SUSP	SUSPENDED
SV	SHEET VINYL
SWCG	SPECIAL WALL COATING
SYM	SYMMETRICAL
SYN	SYNTHETIC
SYS	SYSTEM
T	
T	TOP, TREAD, TOILET
T&B	TOP & BOTTOM
T&G	TONGUE & GROOVE
T/C	TOP OF CURB/TOP OF CONCRETE
T/S	TOP OF SLAB
T/ST	TOP OF STEEL
T/W	TOP OF WALL
TB	TOWEL BAR
TD	TOWEL DISPENSER
TEL	TELEPHONE
TEMP	TEMPERATURE/TEMPORARY
TERR	TERRAZZO
TG	TEMPERED GLASS
THB	TEMPERED HARDBOARD
THERMO	THERMOSTAT(IC)
THK	THICK(NESS)
THRES	THRESHOLD
THRU	THROUGH
TJ	TELEPHONE JACK
TKBD	TACK BOARD
TOIL	TOILET
TOP	TOPPING
TOS	TOP OF STEEL
TPD	TOILET PAPER DISPENSER
TR	TREAD
TRK	TRACK
TV	TELEVISION
TYP	TYPICAL
U	
UG	UNDERGROUND
UH	UNIT HEATER
UL	UNDERWRITERS LABORATORIES INC.
UNFIN	UNFINISHED
UNO	UNLESS NOTED OTHERWISE
UR	URINAL
UTIL	UTILITY
UV	UNIT VENTILATOR
V	
VAP	VAPOR
VAR	VARIABLE/VARNISH/VARIES
VB	VAPOR BARRIER
VCT	VINYL COMPOSITION TILE
VEH	VEHICLE
VEN	VENEER
VENT	VENTILATION/VENTILATE/VENTILATOR
VERT	VERTICAL
VEST	VESTIBULE
VG	VERTICAL GRAIN
VIF	VERIFY IN FIELD
VOL	VOLUME
VP	VENEER PLASTER
W	
W/	WITH
W/O	WITHOUT
WAIN	WAINSCOT
WB	WHITE BOARD/WOOD BASE
WC	WATER CLOSET
WCG	WALL COVERING
WD	WOOD
WDW	WINDOW
WF	WIDE FLANGE (STEEL)
WG	WIRE GLASS/WALL GRILL
WL	WATER LINE
WP	WATERPROOFING/WEATHER PROOF
WR	WATER RESISTANT/ WASTE RECEPTACLE
WT	WEIGHT
Y	
YD	YARD DRAIN

SYMBOLS LEGEND

Room name 101	ROOM NAME & ROOM NUMBER
101	DOOR SWING & DOOR NUMBER (SEE DOOR SCHEDULE)
SIM 1 A-101	DETAIL REFERENCE
SIM 1 A-101	SECTION REFERENCE
SIM 1 AD1-101A	SECTION REFERENCE
1 4 A301 2 3	ELEVATION REFERENCE TAG
1i	WALL TAG, SEE SHEET G-004/G-005 FOR PARTITION TYPES
KN #	PLAN SPECIFIC KEY NOTE
	NORTH ARROW (SEE CIVIL FOR TRUE NORTH)
1/4:12 SLOPE	SLOPE ARROW
1 A - 101	3D VIEW REFERENCE TAG
0	GRID LINE REFERENCE
1	REVISION NUMBER
12'-11"	CEILING TYPE & FINISHED CEILING HEIGHT
CG	CORNER GUARD
1t	WINDOW TAG
P-X	FINISH TAG
(E)80.00'	EXISTING SPOT ELEVATION
80.00'	NEW SPOT ELEVATION
Name Elevation	ELEVATION TAG
0' - 0 5/8"	DIMENSION TO FACE OF FRAMING, FACE OF CONCRETE, FACE OF FINISH, GRID LINE, OR AS NOTED

FILL PATTERN LEGEND

ASPHALT
CONCRETE
EARTH
GLASS
GRAVEL
GYPSUM BOARD
INSULATION - ACOUSTICAL
INSULATION - BATT
INSULATION - RIGID
INSULATION - SEMI RIGID
MASONRY - BRICK
MASONRY - CONCRETE BLOCK
METAL - ALUMINUM
METAL - STEEL
SAND
WOOD - BLOCKING
WOOD - CONTINUOUS
WOOD - FINISH
WOOD - PARTICLE BOARD
WOOD - PLYWOOD

BEAVERTON SCHOOL DISTRICT
ALOHA HIGH SCHOOL
18550 SW KINNAMAN ROAD,
BEAVERTON, OR 97007

OH PLANNING+DESIGN, ARCHITECTURE
115 NW 1st Ave, Ste, 300
Portland, OR 97209
t 503.280.8000
f 503.224.5442

Consultants:

ALOHA HIGH SCHOOL MODULAR REROOFING

PERMIT / BID SET

REGISTERED ARCHITECT DEBORAH K. KRANSE PORTLAND, OR 12/31/2022 #5530 STATE OF OREGON

Date:	04/06/2021
Project Number:	90065
Drawn By:	DET
Checked By:	TA

Revision Schedule:

Sheet Title:

ABBREVIATIONS, LEGENDS AND NOTES

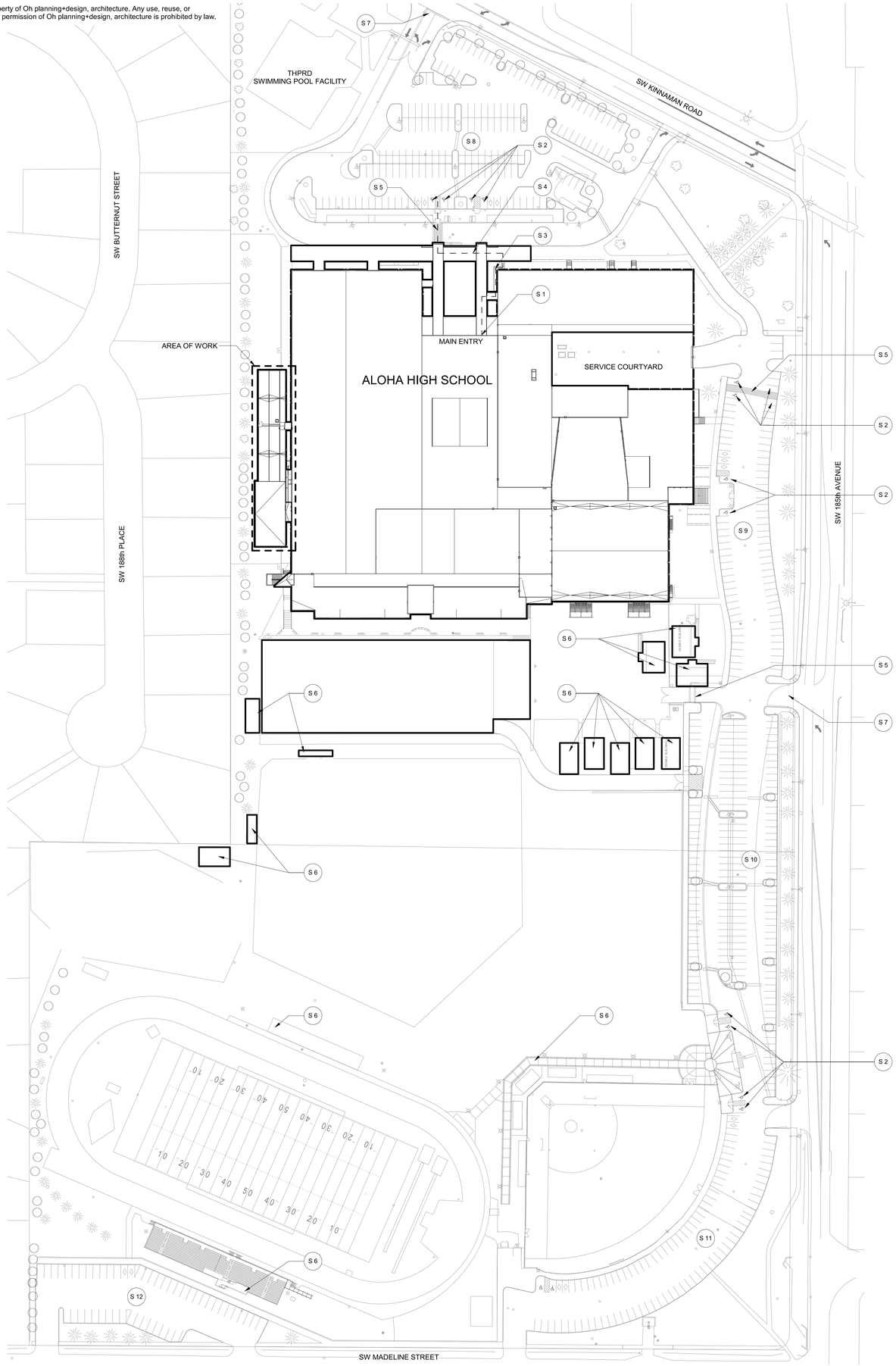
Sheet Number:

G-002

PERMIT / BID SET

4/5/2021 8:38:31 AM

All ideas, designs, drawings, and plans set forth on these sheets are owned by and are the property of Oh planning+design, architecture. Any use, reuse, or disclosure of said plans, reproductions, ideas, designs, and/or arrangements without the written permission of Oh planning+design, architecture is prohibited by law.



1 SITE PLAN - FOR REFERENCE ONLY
1" = 60'-0"

0' 30' 60' 120'

SITE PLAN SHEET NOTES

A. Site plan shown for reference only. No site work in project scope.

S # KEYNOTES

S 1	Existing accessible entrance.
S 2	Existing accessible parking.
S 3	Existing accessible ramp.
S 4	Existing accessible route.
S 5	Existing crosswalk.
S 6	Existing auxiliary building. No project scope.
S 7	Existing emergency vehicle access point.
S 8	Existing north parking lot - 186 spaces - 4 accessible parking stalls.
S 9	Existing northeast parking lot - 80 spaces - 6 accessible parking stalls.
S 10	Existing east parking lot - 166 spaces - 2 accessible parking stalls.
S 11	Existing southeast parking lot - 88 spaces - 2 accessible parking stalls.
S 12	Existing southwest parking lot - 51 spaces - 0 accessible parking stalls.

BEAVERTON SCHOOL DISTRICT

ALOHA HIGH SCHOOL
18550 SW KINNAMAN ROAD,
BEAVERTON, OR 97007

OH PLANNING+DESIGN, ARCHITECTURE
115 NW 1st Ave, Ste, 300
Portland, OR 97209
t 503.280.8000
f 503.224.5442

Consultants:

ALOHA HIGH SCHOOL
MODULAR REROOFING

PERMIT / BID SET

REGISTERED ARCHITECT
DEBORAH K. KRAUSE
PORTLAND, OR
12/31/2022
#5530
STATE OF OREGON

Date:	04/06/2021
Project Number:	90065
Drawn By:	DET
Checked By:	TA

Revision Schedule:

Sheet Title:
SITE PLAN

Sheet Number:
G-101

PERMIT / BID SET

4/5/2021 8:38:40 AM

All ideas, designs, drawings, and plans set forth on these sheets are owned by and are the property of Oh planning+design, architecture. Any use, reuse, or disclosure of said plans, reproductions, ideas, designs, and/or arrangements without the written permission of Oh planning+design, architecture is prohibited by law.

BUILDING CODE SUMMARY

This sheet is for referece only. It has been prepared, in part, based on information furnished by others and on previous' as-built Contract Documents. The Architect does not ensure that all conditions have noted or accurately documented. Users of these documetns should independently verify all pertinent information and conditions. Do not construe information contained within this sheet to allow work not conforming to applicable codes or requirements of authorites having jurisdiction.

APPLICABLE CODES

2019 Oregon Structural Specialty Code (OSSC)
2017 Oregon Electrical Specialty Code (OESC)
2019 Oregon Zero Energy Ready Commercial Code (OZERCC)
2019 Oregon Fire Code (OFC)
2019 Oregon Mechanical Specialty Code (OMSC)
2017 Oregon Plumbing Specialty Code (OPSC)
ICC A117.1-2009 Accessible and Usable Buildings and Facilities
2010 ADA Standards for Accessible Design
National Fire Protection Association (NFPA)

BUILDING CONSTRUCTION DATA

1. Type of construction: VB & IIIB
2. Building use and occupancy: Educational - Group E
3. Maximum allowable height in stories and floor areas: Existing building, no modifications to overall height of building in stories or floor areas.
4. Maximum proposed height of building: Existing building, no modifications to overall height of building.
5. Number of stories: Existing building: 2 stories.
6. Total floor area: Existing building: 243,890 SF.
7. Floor area for each floor: Refer to FLS Key Plan:

FIRST FLOOR
- Area 1: 33,165 SF
- Area 2: 23,660 SF
- Area 3: 39,100 SF
- Area 4U: 36,970 SF
- Area 5U: 25,295 SF
- Area 6U: 45,110 SF
- Area 7: 4,030 SF ← AREA OF WORK
- Area 8: 2,675 SF ← AREA OF WORK

TOTAL: 210,005 SF

LOWER FLOOR
- Area 4L: 2,195 SF
- Area 5L: 13,450 SF
- Area 7L: 18,240 SF ← AREA OF WORK

TOTAL: 33,885 SF

8. Existing basement located under existing stage.
9. Minimum required setbacks to property line: Existing building, no modifications to the building square footage.

BUILDING OCCUPANCY DATA

1. No occupancy change from current use.
2. Primary building occupancy: Educational - Group E
3. Occupancy for occupied spaces and building separations: Refer to G-202 & G-203.
4. Total occupant load per floor.
   A. Main Floor: 8,206
   B. Lower Level Floor: 792
   C. Basement: 12
5. Occupant load for each area or room on each floor: Refer to G-202 & G-203.

FIRE RESISTIVE BUILDING ELEMENTS

1. No occupancy change and no change to arrangement of existing fire resistive building elements.

BUILDING EXITING

1. Square footage, occupant load and maximum floor area per occupant: Refer to code floor plans G-202 & G-203.
2. No changes to existing builiding exiting system are proposed.
3. Minimum corridor exit width required: 44". Corridors are not rated as a full sprinkler system is provided. Refer to plans on G-202 & G-203.

BUILDING FIRE DETECTION AND SUPPRESSION

1. Smoke detection and fire alarm system are required.
2. Smoke detection and fire alarm system are provided.
3. Type of system: Simplex 4020 Addressable Analog Control Panel
4. Sprinkler system is required.
5. Sprinkler system is provided.
6. Type of sprinkler system: Wet system at interior, dry system at exterior
7. Standpipe system is not required.
8. Standpipe system is not provided.
9. No functional changes to existing fire detection and suppression systems are proposed.

ENERGY CODE REQUIREMENTS

1. Energy code analysis: Persciptive envelope requirements for new elements only.
2. List of building components and R/U values: Refer to Energy Code Summary on this sheet.
3. Lighting layout: No changes to lighting layout are proposed.
4. Energy form for all HVAC: Refer to Mechanical drawings for like-for-like replacement of selected rooftop HVAC units. No other functional changes to HVAC systems are proposed.

HAZARDOUS MATERIALS

1. Hazardous materials (asbestos and lead paint) are present in the existing building. Any work impacting hazardous materials must be performed under DEQ and OSHA regulations.

ACCESSIBILITY

1. Site's exterior route of travel: Refer to site plan on G-101.
2. Building interior consists of two floors, with level corridor systems, connected by an elevator and a stair lift.
3. No changes to accessible routes of travel are proposed.

PLUMBING FIXTURE COUNT REQUIREMENTS

1. No change in occupancy or overall square footage of building. The scope of work of this project does not include the modification of any restrooms.

SPECIAL INSPECTION, STRUCTURAL OBSERVATION, AND DEFERRED SUBMITTALS

1. Special inspections: Required, refer to sheets S-010 and S-012.
2. Structural observations: Required, refer to sheet S-002.
3. Deferred submittals: Refer to sheets G-001 and S-002.

OVERALL FIRE/LIFE/SAFETY PLAN REFERENCED FROM OWNER PROVIDED PERMITTED CODE REVIEW FROM THE ADDITIONS AND REMODELING OF ALOHA HIGH SCHOOL DATED JANUARY 2017

ENERGY CODE SUMMARY

Changes to the existing building envelope will conform to the 2014 Oregon Energy Efficiency Specialty Code, Table 502.1.1, Climate Zone Marine 4.

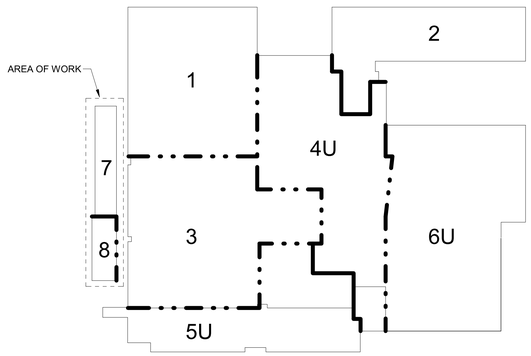
Envelope Element	Roof Areas	Required	Provided	Notes
Roof, full tear-off	A.4	R-30 ci or R-38 attic	R-10 ci + existing batt insulation below foor (R-22 effective total)	Existing R-30 batt insulation between joists is estimated to have an effecive R value of R-12. Total effective R-value estimated at R-22.
Roof, canopies	A.5, A.6, A.7	No improvement required	No improvement provided	Unconditioned space.

BUILDING ANALYSIS

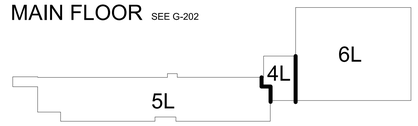
BUILDING AREA							EXITS				
AREA	CONTRUCTION	BASE AREA	FRONTAGE INCREASE	SRINKLER	ALLOWED AREA	ACTUAL AREA	NUMBER OF OCCUPANTS	EXITS		WIDTH	
								REQ.	ACTUAL	REQ.	ACTUAL
1	VB	9,500'	-	28,500'	38,000'	33,165'	906	3	6	182"	544"
2	V B	9,500'	-	28,500'	38,000'	23,660'	445	2	7	89"	238"
3	VB	9,500'	-	28,500'	38,000'	39,100'	827	4	4	165"	296"
4U	V B	9,500'	-	28,500'	38,000'	36,970'	1,451	4	5	290"	402"
4L	V B	9,500'	-	28,500'	38,000'	2,195'	N/A	N/A	1	N/A	136"
5U	V B	9,500'	-	19,000'	28,500'	25,295'	655	3	3	131"	136"
5L	V B	SEE NOTE 2	-	19,000'	28,500'	13,450'	371	2	2	75"	278"
6U	III B	14,500'	-	29,000'	43,500'	45,110'	3,627	4	7	625"	636"
6L	III B	SEE NOTE 2	-	29,000'	43,500'	18,240'	421	2	3	84"	184"
7	V B	9,500'	-	28,500'	38,000'	4,030'	179	4	8	36"	272"
8	V B	9,500'	-	28,500'	38,000'	2,675'	116	4	4	23"	136"

AREA OF WORK

NOTES:
1. A FIRE SPRINKLER SYSTEM IS PROVIDED THROUGHOUT THE EXISTING BUILDING.
2. A ONE STORY INCREASE PERMITTED IN HEIGHT FOR TYPE VB WITH AREA NOT TO EXCEED THE ALLOWABLE FOR ONE FLOOR . TWO STORIES PERMITTED FOR TYPE III B.
3. A TWO HOUR FIRE WALL SEPARATES THE BUILDING AREAS
4. THE MAXIMUM EXIT DISTANCE OF 250 FT IS NOT EXCEEDED.



MAIN FLOOR SEE G-202



LOWER LEVEL FLOOR SEE G-203

BEAVERTON SCHOOL DISTRICT

ALOHA HIGH SCHOOL
18550 SW KINNAMAN ROAD,
BEAVERTON, OR 97007

OH PLANNING+DESIGN, ARCHITECTURE
115 NW 1st Ave, Ste, 300
Portland, OR 97209
t 503.280.8000
f 503.224.5442

Consultants:

ALOHA HIGH SCHOOL MODULAR REROOFING

PERMIT / BID SET

REGISTERED ARCHITECT DEBORAH K. FRANZE PORTLAND, OR 12/31/2022 #5530 STATE OF OREGON

Date: 04/06/2021
Project Number: 90065
Drawn By: DET
Checked By: TA

Revision Schedule:

Sheet Title:
CODE SUMMARY

Sheet Number:
G-201

PERMIT / BID SET

4/5/2021 8:38:42 AM

All ideas, designs, drawings, and plans set forth on these sheets are owned by and are the property of Oh planning+design, architecture. Any use, reuse, or disclosure of said plans, reproductions, ideas, designs, and/or arrangements without the written permission of Oh planning+design, architecture is prohibited by law.

1 FIRST FLOOR FIRE & LIFE SAFETY PLAN
1" = 20'-0"

0' 10' 20' 40'

FIRE AND LIFE SAFETY LEGEND

- EXISTING 1 HR FIRE SEPARATION - 45 MIN DOORS
- EXISTING 2 HR OCCUPANCY SEPARATION - 90 MIN DOORS
- NON - RATED EGRESS CORRIDOR
- ROOM NAME / RM 101 / 999 SF / SPACE / XXX / XX OCC. — ROOM NAME, ROOM NUMBER, AREA OF ROOM, OCCUPANCY GROUP, NUMBER OF OCCUPANTS
- E — EXIT
- EP — EXIT PASSAGEWAY

NOTE:
OVERALL FIRE/LIFE/SAFETY PLAN REFERENCED FROM OWNER PROVIDED PERMITTED CODE REVIEW FROM THE ADDITIONS AND REMODELING OF ALOHA HIGH SCHOOL DATED JANUARY 2017.

NOTE:
THIS SHEET IS FOR REFERENCE ONLY. IT HAS BEEN PREPARED, IN PART, BASED ON INFORMATION FURNISHED BY OTHERS AND ON PREVIOUS PROJECTS' AS-BUILT CONTRACT DOCUMENTS. THE ARCHITECT DOES NOT ENSURE THAT ALL CONDITIONS HAVE BEEN NOTED OR ACCURATELY DOCUMENTED. USERS OF THESE DOCUMENTS SHOULD INDEPENDENTLY VERIFY ALL PERTINENT INFORMATION AND CONDITIONS. DO NOT CONSTRUE INFORMATION CONTAINED WITHIN THIS SHEET TO ALLOW WORK NOT CONFORMING TO APPLICABLE CODES OR REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION.

BEAVERTON SCHOOL DISTRICT

ALOHA HIGH SCHOOL

18550 SW KINNAMAN ROAD,
BEAVERTON, OR 97007

OH PLANNING+DESIGN, ARCHITECTURE
115 NW 1st Ave, Ste, 300
Portland, OR 97209
t 503.280.8000
f 503.224.5442

Consultants:

ALOHA HIGH SCHOOL
MODULAR REROOFING

PERMIT / BID SET

REGISTERED ARCHITECT
DEBORAH K. FRASER
PORTLAND, OR
12/31/2022
#5539
STATE OF OREGON

Date:	04/06/2021
Project Number:	90065
Drawn By:	DET
Checked By:	TA

Revision Schedule:

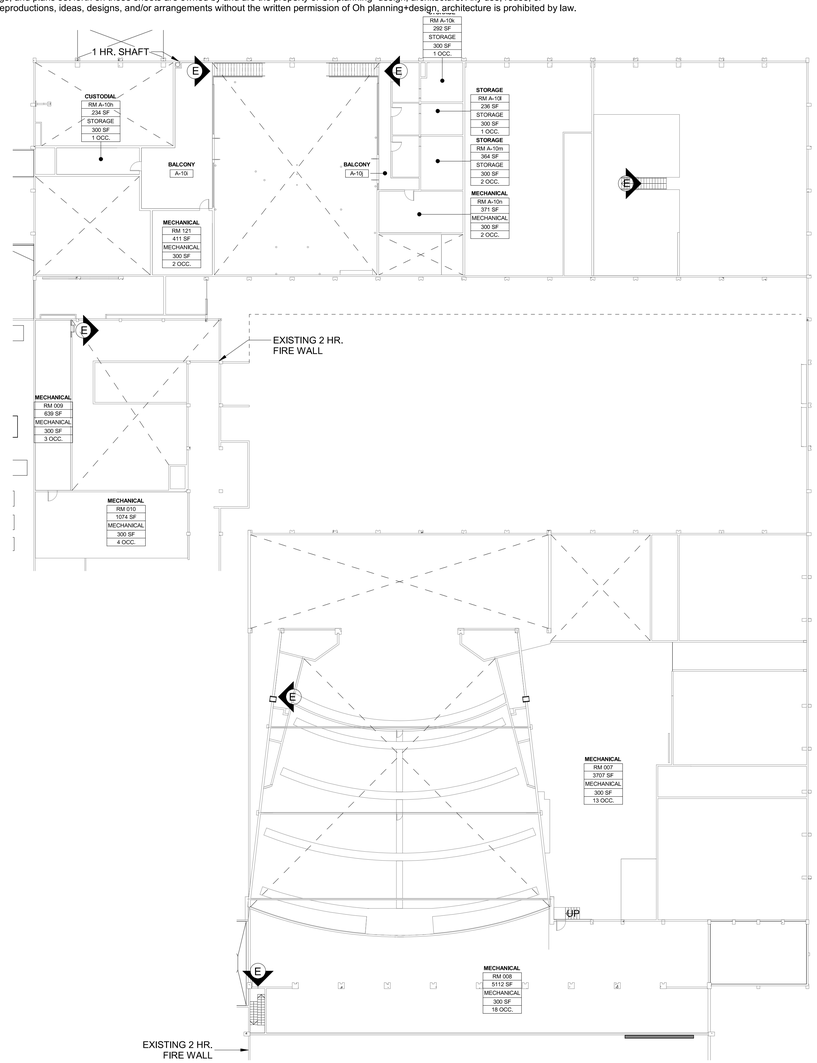
Sheet Title:
FIRE LIFE SAFETY PLAN FIRST FLOOR

Sheet Number:
G-202

PERMIT / BID SET

4/5/2021 8:38:53 AM

All ideas, designs, drawings, and plans set forth on these sheets are owned by and are the property of Oh planning+design, architecture. Any use, reuse, or disclosure of said plans, reproductions, ideas, designs, and/or arrangements without the written permission of Oh planning+design, architecture is prohibited by law.

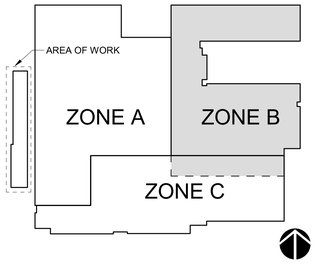


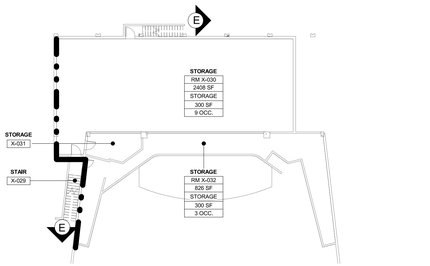
1 MEZZANINE FIRE & LIFE SAFETY PLAN
1" = 20'-0"

0' 10' 20' 40'

THIS PAGE IS FOR REFERENCE ONLY - NO WORK IN THIS AREA.

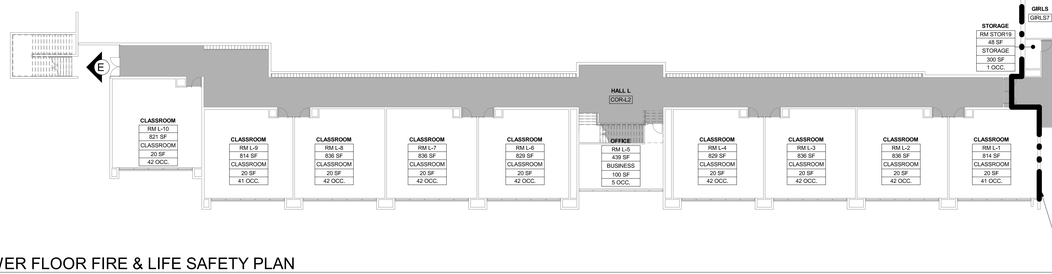
KEY PLAN





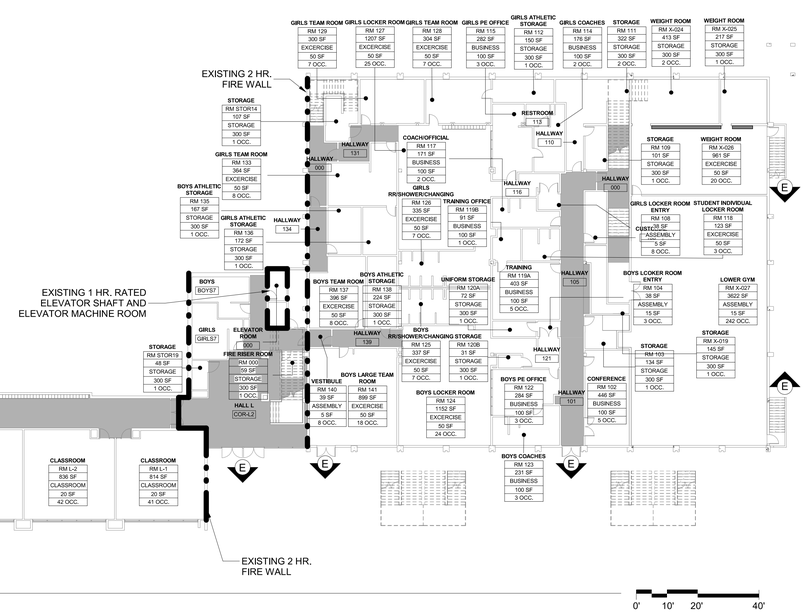
2 BASEMENT FIRE & LIFE SAFETY PLAN
1" = 20'-0"

0' 10' 20' 40'

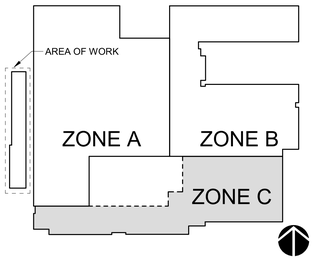


3 LOWER FLOOR FIRE & LIFE SAFETY PLAN
1" = 20'-0"

0' 10' 20' 40'



KEY PLAN



FIRE AND LIFE SAFETY LEGEND

- EXISTING 1 HR FIRE SEPARATION - 45 MIN DOORS
- EXISTING 2 HR OCCUPANCY SEPARATION - 90 MIN DOORS
- NON - RATED EGRESS CORRIDOR
- ROOM NAME / ROOM NUMBER / AREA OF ROOM / OCCUPANCY GROUP / NUMBER OF OCCUPANTS (ROOM NAME; RM 101; 999 SF; SPACE; XXX; XX OCC.)
- EXIT
- EXIT PASSAGEWAY

NOTE:
OVERALL FIRE/LIFE/SAFETY PLAN REFERENCED FROM OWNER PROVIDED PERMITTED CODE REVIEW FROM THE ADDITIONS AND REMODELING OF ALOHA HIGH SCHOOL DATED JANUARY 2017.

NOTE:
THIS SHEET IS FOR REFERENCE ONLY. IT HAS BEEN PREPARED, IN PART, BASED ON INFORMATION FURNISHED BY OTHERS AND ON PREVIOUS PROJECTS' AS-BUILT CONTRACT DOCUMENTS. THE ARCHITECT DOES NOT ENSURE THAT ALL CONDITIONS HAVE BEEN NOTED OR ACCURATELY DOCUMENTED. USERS OF THESE DOCUMENTS SHOULD INDEPENDENTLY VERIFY ALL PERTINENT INFORMATION AND CONDITIONS. DO NOT CONSTRUE INFORMATION CONTAINED WITHIN THIS SHEET TO ALLOW WORK NOT CONFORMING TO APPLICABLE CODES OR REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION.

BEAVERTON SCHOOL DISTRICT

ALOHA HIGH SCHOOL
18550 SW KINNAMAN ROAD,
BEAVERTON, OR 97007

OH PLANNING+DESIGN, ARCHITECTURE
115 NW 1st Ave, Ste, 300
Portland, OR 97209
t 503.280.8000
f 503.224.5442

Consultants:

ALOHA HIGH SCHOOL MODULAR REROOFING

PERMIT / BID SET

REGISTERED ARCHITECT DEBORAH K. KANAYE PORTLAND, OR 12/31/2022 #5530 STATE OF OREGON

Date:	04/06/2021
Project Number:	90065
Drawn By:	DET
Checked By:	TA

Revision Schedule:

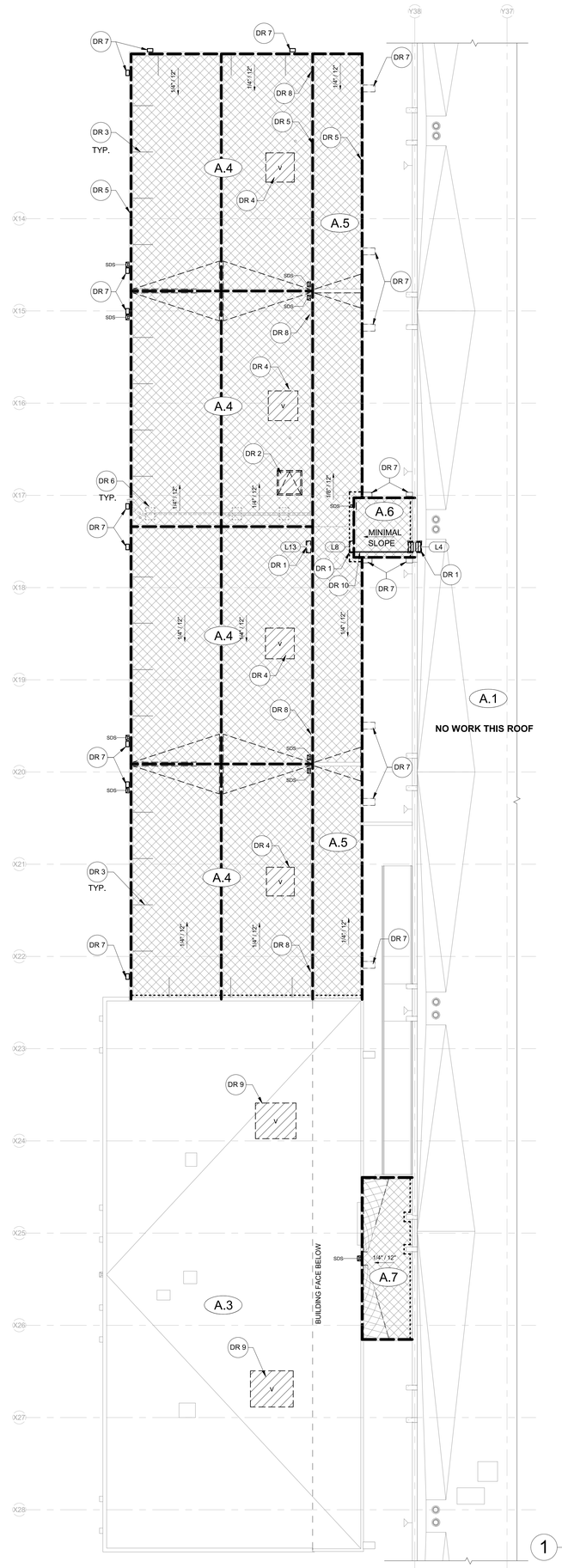
Sheet Title:
FIRE LIFE SAFETY PLAN MEZZ/LOWER FLOOR

Sheet Number:
G-203

PERMIT / BID SET

4/5/2021 8:39:00 AM

All ideas, designs, drawings, and plans set forth on these sheets are owned by and are the property of Oh planning+design, architecture. Any use, reuse, or disclosure of said plans, reproductions, ideas, designs, and/or arrangements without the written permission of Oh planning+design, architecture is prohibited by law.



1 ROOF DEMOLITION PLAN - MODULAR
1/8" = 1'-0"

DEMOLITION ROOF PLAN SHEET NOTES

A. Keynotes are not sheet specific.
B. General Contractor is responsible for verifying all existing conditions and notifying Architect of any discrepancies.
C. Coordinate all work with manufacturer requirements.
D. Coordinate all work with other disciplines; see Mechanical, Plumbing and Electrical drawings for additional scope.
E. See Plumbing drawings for plumbing vent and roof drain demolition.
F. See Electrical drawings for additional details regarding conduit, cables and other electrical connections or equipment.
G. Hazardous materials are present in this building. Coordinate demolition activities with District's Hazardous Material Abatement drawings, Management Plan, and Hazardous Materials Survey. See General Hazard Communication Note on cover sheet.
H. Localized demolition as it pertains to new roof curbs to be coordinated with manufacturers requirements, new curb details.
I. Protect roof from water intrusion during demolition.

DEMOLITION ROOF PLAN LEGEND

	FULL DEMOLITION: DEMOLISH BUILT-UP ROOFING SYSTEM DOWN TO (E) WOOD DECK SUBSTRATE.
	DEMOLISH EXISTING WOOD-FRAMED CRICKET
A.1	ROOF AREA REFERENCE
1/4" / 1'-0"	EXISTING ROOF SLOPE / CRICKET SLOPE
	DEMOLISH SHEET METAL COPING AND ASSOCIATED VERTICAL FLASHING
	DEMOLISH REGLET FLASHING
(E) RD (E) OD	EXISTING ROOF DRAIN OR OVERFLOW DRAIN TO REMAIN
SDS	REMOVE AND SALVAGE LEADERHEAD AND DOWNSPOUT. DEMOLISH THROUGH-WALL METAL SCUPPER & WALL TO ACCOMODATE NEW SCUPPER PER 6 / A-720
DS	REMOVE AND SALVAGE DOWNSPOUT
(E) DS	EXISTING DOWNSPOUT TO REMAIN - PROTECT DURING CONSTRUCTION
V	REMOVE HVAC FAN OR VENT, EXISTING WOOD CURBS TO REMAIN UNLESS OTHERWISE NOTED. ALL ASSOCIATED FLASHING TO BE DEMOLISHED.

R # KEYNOTES

DR 1	Remove & salvage existing ladder, modify height, see Ladder schedule and details sheet A-721.
DR 2	Remove and salvage existing hatch, existing curb to remain.
DR 3	Existing parapet brace to remain in place during construction - protect.
DR 4	Demolition of roofing, flashing and curb as indicated on plans to accommodate new mechanical curb.
DR 5	Demolish plywood cant, Typ. at all curbs & parapet walls.
DR 6	Demolish existing support for conduit and/or electrical cables where occurs, typical - see Electrical.
DR 7	Demolish column cap flashing.
DR 8	Remove and salvage sidewall vent grill, typical.
DR 9	Existing curb to be reused for new mechanical unit. Localized demolition of flashing to accomodate new adapter curb.
DR 10	Remove and salvage metal bar fastened between ladders.

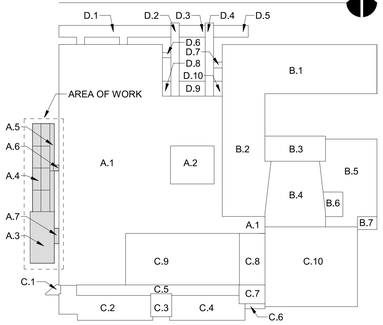
ROOF DEMOLITION SCHEDULE - ZONE A

ROOF AREA	AREA SQ. FT.	DECK MATERIAL	DECK (E) SLOPE	INSULATION EXISTING	INSULATION DEMO	ROOFING (E) MATERIAL	ROOFING DEMO	COMMENTS
A.3	3246 SF	(E) TO REMAIN	(E) TO REMAIN	(E) TO REMAIN	(E) TO REMAIN	(E) TO REMAIN	NO	1998 addition
A.4	3858 SF	PLYWOOD DECK	1/4" / 1', NOTE 1	YES, 1/2" ISO	YES, NOTE 4	BUR W/ BALLAST	YES, NOTE 4	1986 addition
A.5	996 SF	PLYWOOD DECK	1/4" / 1', NOTE 1	YES, 1/2" ISO	YES, NOTE 4	BUR W/ BALLAST	YES, NOTE 4	1986 addition - canopy
A.6	74 SF	PLYWOOD DECK	<1/8" / 1', NOTE 1	YES, 1/2" ISO	YES, NOTE 4	BUR W/ BALLAST	YES, NOTE 4	1967 original - canopy
A.7	179 SF	PLYWOOD DECK	1/4" / 1', NOTE 1	NO	N/A	BUR W/ BALLAST	YES, NOTE 4	1998 addition - canopy

ROOF DEMOLITION SCHEDULE NOTES:

1. General Contractor to confirm existing slopes after demolition and notify Architect of any discrepancies.
2. Existing slopes vary, see AD-222 for existing slopes.
3. Refer to legend, keynotes and plans for extents of full tear off demolition.
4. Full demolition of entire existing roofing system to expose plywood deck substrate.
5. Demolish all loose granules and membrane flashing around sheet metal, parapet and vertical surfaces. Additional demolition of damaged existing membrane per manufacturers requirements. See plan for areas of full demolition of existing built-up membrane to expose deck.

KEY PLAN



BEAVERTON SCHOOL DISTRICT

ALOHA HIGH SCHOOL
18550 SW KINNAMAN ROAD,
BEAVERTON, OR 97007

OH PLANNING+DESIGN, ARCHITECTURE
115 NW 1st Ave, Ste, 300
Portland, OR 97209
t 503.280.8000
f 503.224.5442

Consultants:

ALOHA HIGH SCHOOL
MODULAR REROOFING

PERMIT / BID SET

REGISTERED ARCHITECT
DEBORAH K. FRANCE
PORTLAND, OR
12/31/2022
#5530
STATE OF OREGON

Date:	04/06/2021
Project Number:	90065
Drawn By:	DET
Checked By:	TA

Revision Schedule:

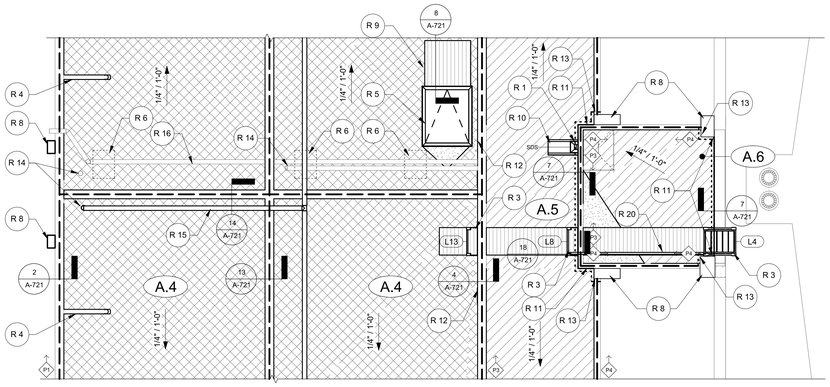
Sheet Title:
ROOF DEMOLITION PLAN

Sheet Number:
AD-221

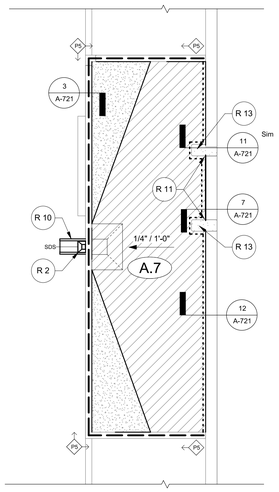
PERMIT / BID SET

4/5/2021 8:38:25 AM

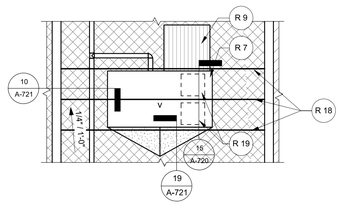
All ideas, designs, drawings, and plans set forth on these sheets are owned by and are the property of Oh planning+design, architecture. Any use, reuse, or disclosure of said plans, reproductions, ideas, designs, and/or arrangements without the written permission of Oh planning+design, architecture is prohibited by law.



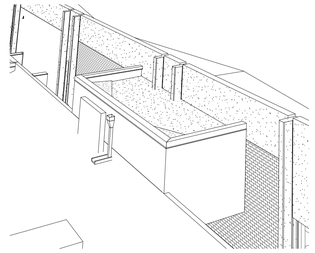
2 ENLARGED ROOF PLAN - ROOF AREA A.6
1/4" = 1'-0"



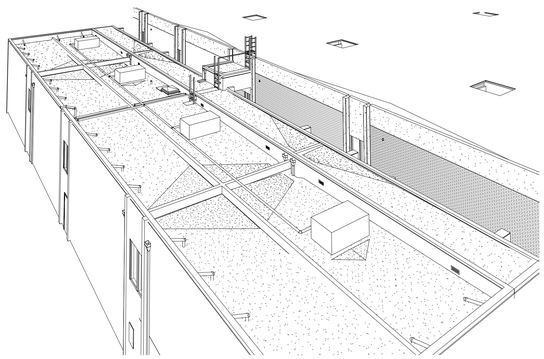
4 ENLARGED ROOF PLAN - ROOF AREA A.7
1/4" = 1'-0"



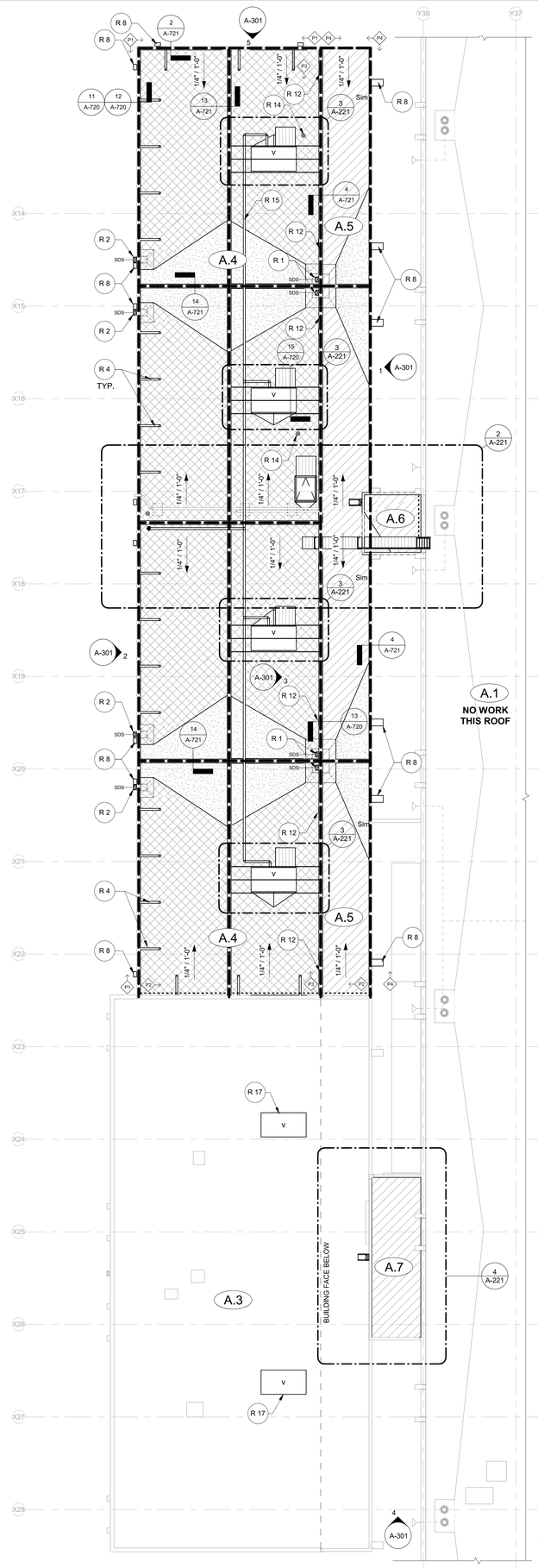
3 ENLARGED ROOF PLAN - TYP. MECH. UNIT
1/4" = 1'-0"



5 3D PERSPECTIVE - ROOF AREA A.7



6 3D PERSPECTIVE - ROOF AREA A.4, A.5, A.6



1 ROOF PLAN - MODULAR
1/8" = 1'-0"

R # KEYNOTES

R 1	Reinstall modified leaderhead and downspout at A.5, A.6, A.7 through-wall scupper flashing, see detail 2 / A-720
R 2	Reinstall modified leaderhead and downspout at roof A.4 through-wall scupper flashing, see detail 3 / A-720
R 3	Reinstall salvaged ladder after modifying to fit above new roof level, see Ladder Schedule.
R 4	Existing parapet brace to remain in place, clean all surfaces and repaint Typ. at all braces. See detail 12 / A-720 for attachment to roof deck, and detail 11 / A-720 for flashing at parapet attachment.
R 5	Reinstall salvaged hatch on modified existing curb per detail 8 / A-721
R 6	New loose laid pipe support frame for reinstalled conduit cable - see Electrical.
R 7	New mechanical unit on new curb, 650 lbs max - see Mechanical. See detail 10 / A-721 for curb requirements.
R 8	New cap flashing at existing column. S-lock to adjacent roof edge cap flashing at standing seam.
R 9	New PVC walkpad. Locate on operating side of mechanical units and hatches. Typ.
R 10	New precast concrete splashblock at existing downspouts, see detail 8 / A-720
R 11	New vertical sheet metal panel flashing, see detail 7 / A-721
R 12	Reinstall salvaged sidewall vent grill and apply new flashing per manufacturer's requirements, typical. See detail 13 / A-720
R 13	Continue reglet flashing around all column and wall protrusions per detail 11 / A-721. Height from finish roof surface to align across face of wall and set at 8" min. above highest point of finish roof surface, typical.
R 14	Pipe boot at pipe penetrations, see detail 10 / A-720
R 15	New gas piping, Typ. see Mechanical.
R 16	Raise (E) conduit as needed to sit on sleepers. Coordinate location with new gas pipe. See Electrical.
R 17	New mechanical unit on (E) curb, 800lbs max - see Mechanical. Refer to detail 9 / A-721 for curb requirements.
R 18	Continuous 2x4 along entire length of (E) 2x8 joist. Patch in roof insulation flush against 2x4, no voids. Typ. at all joists under mechnical unit. See detail 19 / A-721 .
R 19	Provide square pipe boot at metal duct roof penetrations per detail 15 / A-720 , Typ.
R 20	Provide new metal bar +/- 8' - 11" in length, weld each end to ladder per detail 18 / A-721 Plug all holes in bar, Typ.

ROOF PLAN SHEET NOTES

A. Keynotes are not sheet specific.
B. General Contractor is responsible for verifying all existing conditions and notifying Architect of any discrepancies.
C. Coordinate all work with other disciplines; see Mechanical, Plumbing and Electrical drawings for additional scope.
D. See Plumbing drawings for plumbing vent locations; provide new pipe flashing per detail 10 / A-720
E. Repair ceiling where new roof drains and overflow drains and piping are installed. See RCP for extents of ceiling scope.
F. Roof drain and overflow drain tags are for identification purposes only, verify drain quantities; see Plumbing.
G. Parapet tags are for identification purposes only, verify quantities; see 'Parapet Schedule' on this sheet.
H. Ladder tags are for identification purposes only, verify quantities; see 'Ladder Schedule' sheet A-721.
I. Remove corrosion from all (E) stormwater and roof drainage piping to remain, and apply high-performance coating.
J. Hydro jet all roof drains within area of work at completion of project.
K. Existing roof structure slope is shown on roof demolition plan.
L. Where sheet metal coping terminates at walls, provide saddle flashing and counterflash per detail 15 / A-721. Verify all locations and conditions.
M. Tapered insulation to be installed as crickets at all mechanical equipment and rooftop penetrations that exceed 1'-0" in width.
N. All crickets sloped to 1/4" / 12".
O. Walkpads to be installed at top and bottom of all ladders and on the service side of all servicable rooftop mechanical units.
P. Use pressure-treated lumber for wood construction on roofs, parapets, and walls.
Q. All (E) mechanical unit wood curbs to remain unless otherwise noted. Modify and raise (E) wood curbs as required to meet 8" minimum height above finished roof surface, see detail 10 / A-721
R. Column cap flashing to remain in place if possible U.N.O.
S. Refer to Roof Layout Plans and Roof Schedule on those sheets for type and extent of each roofing system.
T. Contractor to field verify (E) vents provide a total of 6.5 SF of ventilation opening.

ROOF PLAN LEGEND

TYPE 1A - NOT USED

TYPE 1B - (N) PVC ROOF ASSEMBLY:
(AT FULL DEMOLITION ROOFS) SINGLE PLY PVC MEMBRANE OVER 1/2" COVERBOARD WITH RIGID INSULATION ON (E) WOOD DECK. APPLY R-30 AT ALL LOCATIONS.

TYPE 1C - (N) PVC ROOF ASSEMBLY:
(AT FULL DEMOLITION CANOPIES) SINGLE PLY PVC MEMBRANE OVER 1/2" COVERBOARD, TAPERED INSULATION AS REQUIRED FOR SLOPE.

NEW CRICKET - TAPERED INSULATION. SLOPE OF 1/4 PER FOOT

X.# ROOF AREA REFERENCE

P# ROOF PARAPET / EDGE REFERENCE TAG SEE PARAPET SCHEDULE THIS SHEET

1/4" / 1'-0" ROOF SLOPE / CRICKET SLOPE

NEW SHEET METAL COPING, SEE PARAPET TYPES AND TYPICAL DETAIL 9 / A-720

NEW REGLET FLASHING

SDS REINSTALL SALVAGED DOWNSPOUT AND LEADERHEAD, PROVIDE NEW MEMBRANE CLAD METAL SCUPPER

(E) DS EXISTING DOWNSPOUT TO REMAIN

V REINSTALL SALVAGED HVAC FAN OR VENT ON MODIFIED (E) WOOD CURB UNLESS OTHERWISE NOTED, SEE DETAIL 9 / A-721 AND 10 / A-721 FOR CURB REQUIREMENTS.

REINSTALL ROOF HATCH, SEE DETAIL 8 / A-721

L# LADDER TAG FOR REFERENCE ONLY, SEE SHEET A-721 FOR SCHEDULE AND DETAILS

NEW PVC WALKPAD

PARAPET SCHEDULE			
TYPE	DETAIL	TYPE	DETAIL
P1	2 / A-721	P2	3 / A-721
P3	4 / A-721	P4	5 / A-721
P5	6 / A-721		

PARAPET SCHEDULE NOTES:

1. Coordinate membrane securement methods at bottom of walls with structural work and manufacturer's requirements to avoid conflict.
2. Rigid insulation cricketing not shown on roof edge details for clarity. Refer to plans for locations. All crickets to be a minimum of 1/4"/12" slope.

ROOF SCHEDULE - ZONE A

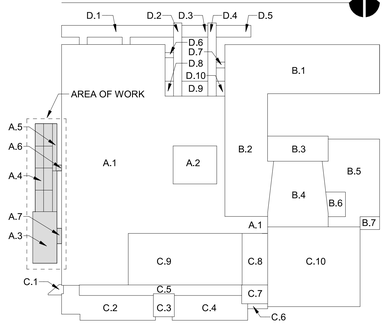
ROOF AREA	AREA SQ.FT.	DECK: DECK MATERIAL	DECK: NEW SHEATHING	INSULATION: (N) INSULATION VALUE *	INSULATION: TAPERED INSULATION	ROOFING: (N) MATERIAL	ROOFING: TYPE	ROOFING: UL CLASS	COMMENTS
A.3	3246 SF	(E) TO REMAIN	(E) TO REMAIN	(E) TO REMAIN	(E) TO REMAIN	(E) TO REMAIN	(E) TO REMAIN	A	1998 addition
A.4	3862 SF	PLYWOOD DECK	NO	R-30 (6" ISO)	YES, NOTE 2	PVC SINGLE-PLY	TYPE 1B	A	1986 addition
A.5	996 SF	PLYWOOD DECK	NO	NONE	YES, NOTE 2	PVC SINGLE-PLY	TYPE 1C	A	1986 addition - canopy
A.6	74 SF	PLYWOOD DECK	NO	NONE	YES, NOTE 2	PVC SINGLE-PLY	TYPE 1C	A	1967 original - canopy
A.7	179 SF	PLYWOOD DECK	NO	NONE	YES, NOTE 2	PVC SINGLE-PLY	TYPE 1C	A	1998 addition - canopy

New Roof Area: 5,111 SF (GC to verify square footages of all roof areas)
* Insulation R value includes rigid insulation plus coverboard

SCHEDULE NOTES:

1. New sheathing to be installed under demolished wood framed crickets and at other locations.
2. Install tapered insulation crickets for drainage at all rooftop curbs, skylights, equipment greater than 1' wide and where indicated on plans and details. Tapered slopes to be a minimum of 1/4" / 12".
3. New insulation levels vary, refer to plans for approximate areas.

KEY PLAN



BEAVERTON SCHOOL DISTRICT

ALOHA HIGH SCHOOL

18550 SW KINNAMAN ROAD, BEAVERTON, OR 97007

OH PLANNING+DESIGN, ARCHITECTURE
115 NW 1st Ave, Ste. 300
Portland, OR 97209
t 503.280.8000
f 503.224.5442

Consultants:

ALOHA HIGH SCHOOL
MODULAR REROOFING

PERMIT / BID SET

REGISTERED ARCHITECT DEBORAH K. KASPE PORTLAND, OR 12/31/2022 #5530 STATE OF OREGON

Date:	04/06/2021
Project Number:	90065
Drawn By:	DET
Checked By:	TA

Revision Schedule:

Sheet Title:
ROOF PLAN

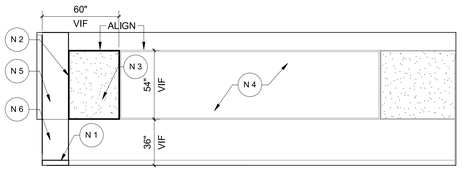
Sheet Number:
A-221

PERMIT / BID SET

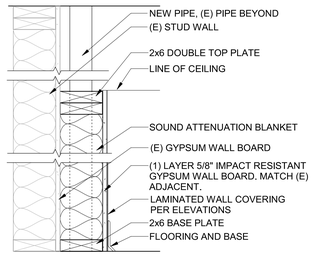
4/5/2021 8:38:05 AM

All ideas, designs, drawings, and plans set forth on these sheets are owned by and are the property of Oh planning+design, architecture. Any use, reuse, or disclosure of said plans, reproductions, ideas, designs, and/or arrangements without the written permission of Oh planning+design, architecture is prohibited by law.

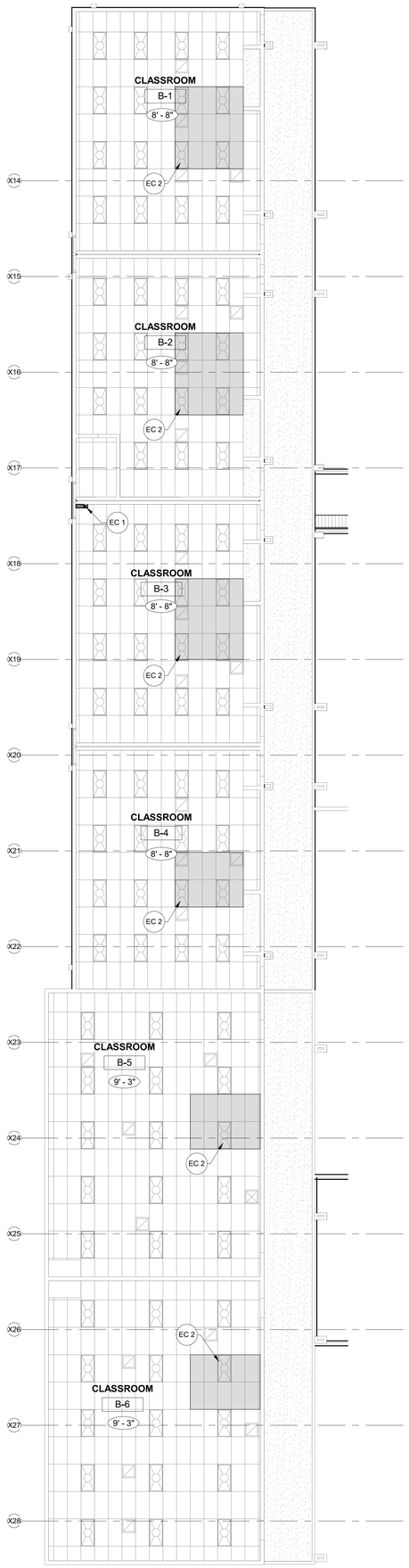
3 CLASSROOM B-3 - WEST ELEVATION
1/4" = 1'-0"



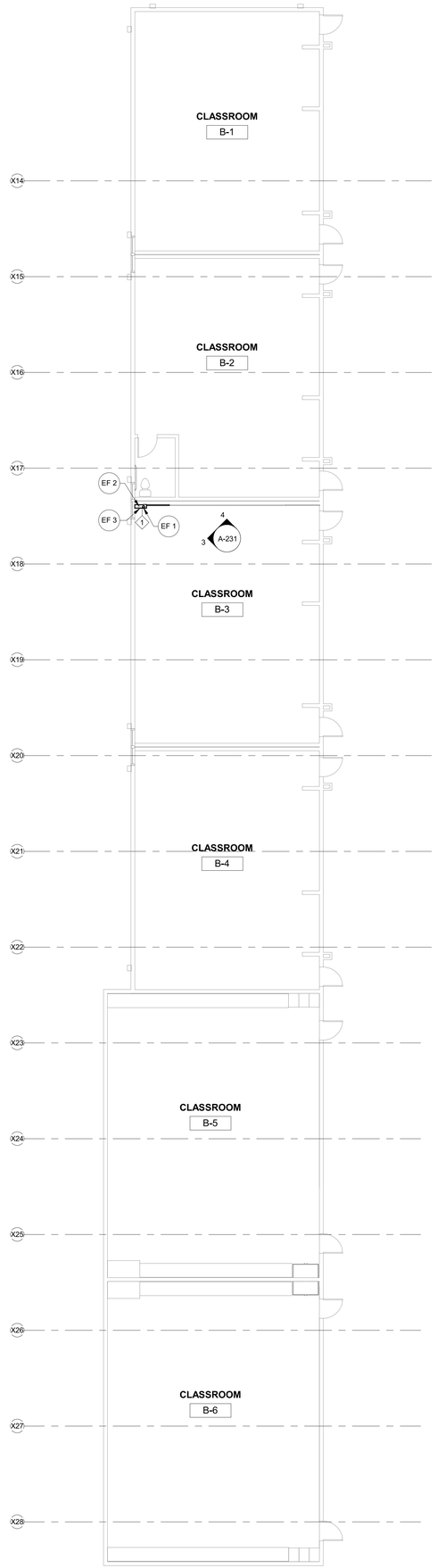
4 CLASSROOM B-3 - NORTH ELEVATION
1/4" = 1'-0"



5 Partition Type 1
1 1/2" = 1'-0"



2 FIRST FLOOR RCP - MODULAR
1/8" = 1'-0"



1 FIRST FLOOR PLAN - MODULAR
1/8" = 1'-0"

FLOOR PLAN SHEET NOTES

A. All dimensions are to face of finish, U.N.O. Do not measure drawings to determine dimensions.
B. All dimensions to be field verified.
C. Keynotes are not sheet specific.
D. Coordinate all work with other disciplines; see Mechanical, Plumbing and Electrical drawings for additional scope.

RCP SHEET NOTES

A. Keynotes are not sheet specific.
B. All heights shown are to bottom of grid system or gypsum board AFF, relative to the floor that the ceiling plan is shown on, UNO.
C. Coordinate all work with other disciplines; see Mechanical, Plumbing and Electrical drawings for additional scope.
D. Refer to electrical documents for electrical scope.
E. Damaged acoustic ceiling tiles within areas of ceiling work to be replaced with new per specifications.

INTERIOR ELEVATION SHEET NOTES

A. Interior Elevation Keynotes (N#) are consistent across all Interior Elevation Sheets. Not all keynotes are used on each sheet.
B. For additional information, see Structural, Mechanical, Plumbing and Electrical drawings.
C. All new elements to be painted or pre-finished to match (E); U.N.O.
D. Penetrations and other above-ceiling items are based on existing drawings and have not been field verified. Locations are approximate. Additional penetrations may exist and are not shown on the drawings. Contractor to verfiy in field all shear wall penetrations and notify Architect of any discrepancies.

FLOOR PLAN LEGEND

NEW ARCHITECTURAL PARTITION OR SOFFIT WALL

EXISTING TO REMAIN - NO PROJECT SCOPE

RCP LEGEND

10'-0" CEILING HEIGHT TAG (APPROXIMATE - VIF)

EXISTING GYPSUM BOARD OR PLASTER CEILING

EXISTING 2' X 4' LAY IN ACOUSTICAL CEILING TILE

REMOVE AND REINSTALL ACOUSTIC CEILING AS REQUIRED TO ACCESS AREA OF WORK. DAMAGED CEILING TILE AND GRID TO BE REPLACED AT CONTRACTORS EXPENSE.

EXISTING LAY-IN FLUORESCENT LIGHTING

NEW ARCHITECTURAL PARTITION OR SOFFIT WALL

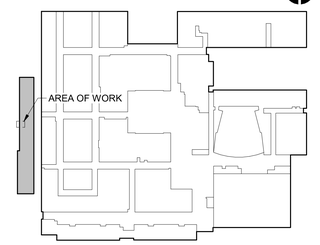
INTERIOR ELEVATION LEGEND

NEW SELF HEALING TACK BOARD SURFACE

X # KEYNOTES

EF 1	New veritcal gas pipe, see Mechanical.
EF 2	Existing veritcal pipe to remain, protect during construction.
EF 3	New wall, see Partition Type detail this sheet.
EC 1	Cut acoustic tile as required for new pipe penetration. Patch and repair disturbed ACT ceiling.
EC 2	Remove and reinstall light as required to access area of work, Typ. Damaged light to be replaced at Contractors expense.
N 1	Install new 4" rubber wall base to match (E) adjacent.
N 2	Cut back (E) tackboard to edge of new wall.
N 3	Provide new metal trim around tackboard.
N 4	(E) whiteboard, protect during construction.
N 5	Paint all exposed new gypsum board to match (E) adjacent wall.
N 6	Provide new laminate wall covering, color to match (E) adjacent.

KEY PLAN



BEAVERTON SCHOOL DISTRICT

ALOHA HIGH SCHOOL

18550 SW KINNAMAN ROAD,
BEAVERTON, OR 97007

OH PLANNING+DESIGN, ARCHITECTURE
115 NW 1st Ave, Ste, 300
Portland, OR 97209
t 503.280.8000
f 503.224.5442

Consultants:

ALOHA HIGH SCHOOL
MODULAR REROOFING

PERMIT / BID SET

REGISTERED ARCHITECT
DEBORAH K. FRANCE
PORTLAND, OR
12/31/2022
#5530
STATE OF OREGON

Date:	04/06/2021
Project Number:	90065
Drawn By:	DET
Checked By:	TA

Revision Schedule:

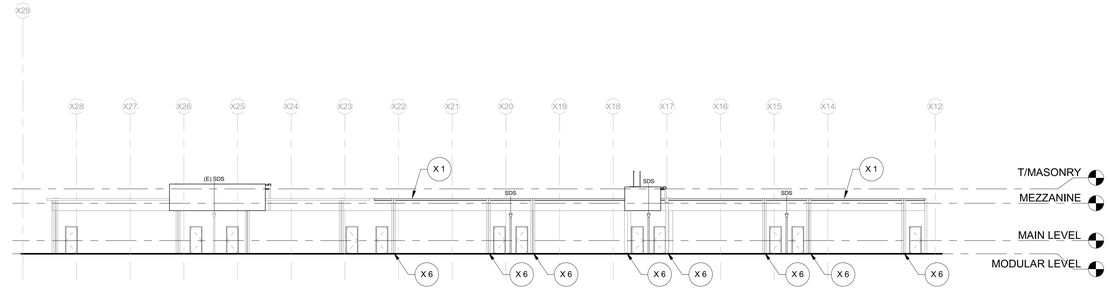
Sheet Title:
ENLARGED PLANS & ELEVATIONS

Sheet Number:
A-231

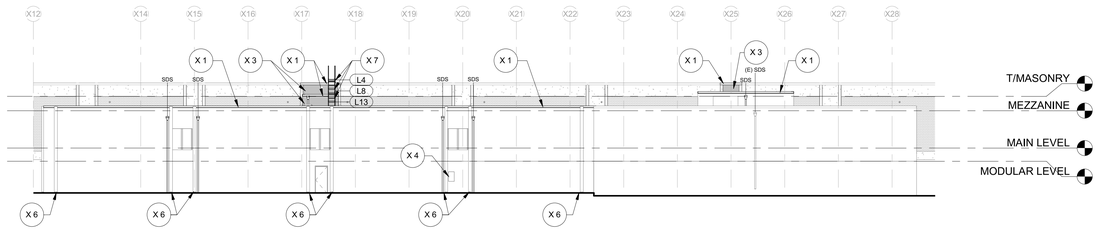
PERMIT / BID SET

4/5/2021 8:38:11 AM

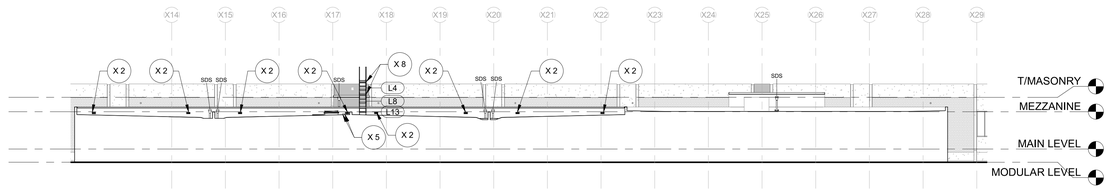
All ideas, designs, drawings, and plans set forth on these sheets are owned by and are the property of Oh planning+design, architecture. Any use, reuse, or disclosure of said plans, reproductions, ideas, designs, and/or arrangements without the written permission of Oh planning+design, architecture is prohibited by law.



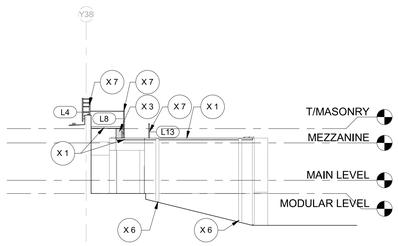
1 A3-A4 EAST ELEVATION
1/16" = 1'-0"



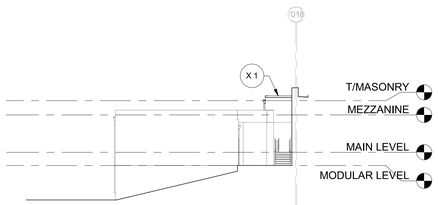
2 A3-A4 WEST ELEVATION
1/16" = 1'-0"



3 A3-A4 SECTION
1/16" = 1'-0"



5 A3-A4 NORTH ELEVATION
1/16" = 1'-0"



4 A3-A4 SOUTH ELEVATION
1/16" = 1'-0"

EXTERIOR ELEVATION SHEET NOTES

A. Exterior Elevations Keynotes (X#) are consistent across all Exterior Elevation Sheets. Not all keynotes are used on each sheet.
B. For additional information, see Mechanical, Plumbing and Electrical drawings.
C. All new elements to be painted or pre-finished to match (E); U.N.O.
D. Mechanical Equipment not depicted for clarity. For more information on roof related mechanical scope see Mechanical.
E. All elevations are existing and should be verified in field.

EXTERIOR ELEVATION LEGEND

L#	LADDER TAG FOR REFERENCE ONLY. SEE SHEET A-722 FOR SCHEDULE AND DETAILS
DS	REINSTALL SALVAGED DOWNSPOUT
SDS	REINSTALL MODIFIED SALVAGED DOWNSPOUT AND LEADERHEAD. PROVIDE MEMBRANE CLAD METAL THROUGH-WALL SCUPPER. SEE ROOF PLANS FOR MORE INFORMATION
(E) SDS	EXISTING LEADERHEAD AND DOWNSPOUT TO REMAIN - PROTECT.
	NEW VERTICAL METAL PANELS

X # KEYNOTES

X 1	New sheet metal coping, paint to match (E).
X 2	Raise attic vent 8" Min. above roof surface. Infill wall.
X 3	New vertical sheet metal panels.
X 4	(E) gas meter, see Mechanical.
X 5	Liquid flash around pipe penetration through parapet wall, Typ. Similar to detail 12 / A-720.
X 6	New metal cap on columns, Typ.
X 7	Reinstall modified (E) ladder, see Ladder Schedule.
X 8	Provide vertical steel tube bolted to ladder. Plug all holes. Connect to new metal bar per detail 18 / A-721

BEAVERTON SCHOOL DISTRICT

ALOHA HIGH SCHOOL
18550 SW KINNAMAN ROAD,
BEAVERTON, OR 97007

OH PLANNING+DESIGN, ARCHITECTURE
115 NW 1st Ave, Ste, 300
Portland, OR 97209
t 503.280.8000
f 503.224.5442

Consultants:

ALOHA HIGH SCHOOL
MODULAR REROOFING

PERMIT / BID SET

REGISTERED ARCHITECT
DEBORAH K. FRANCE
PORTLAND, OR
12/31/2022
#5530
STATE OF OREGON

Date:	04/06/2021
Project Number:	90065
Drawn By:	DET
Checked By:	TA

Revision Schedule:

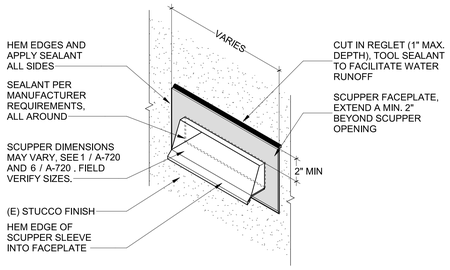
Sheet Title:
EXTERIOR ELEVATIONS

Sheet Number:
A-301

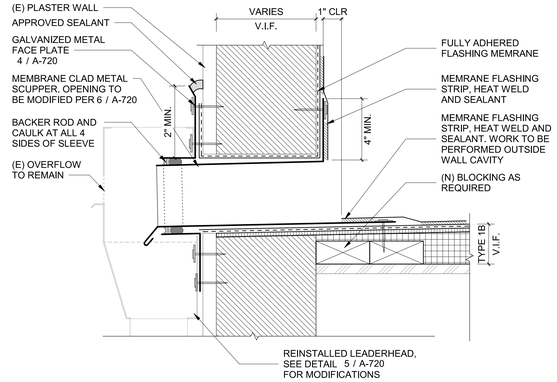
PERMIT / BID SET

4/5/2021 8:38:15 AM

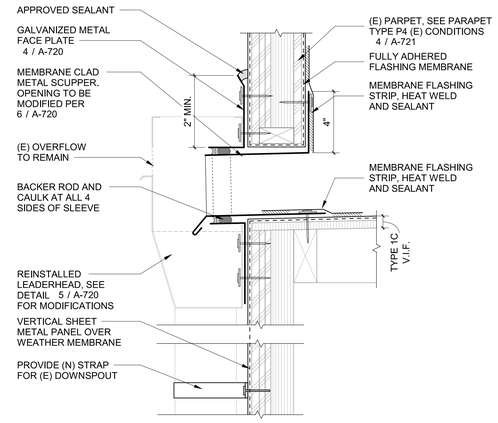
All ideas, designs, drawings, and plans set forth on these sheets are owned by and are the property of Oh planning+design, architecture. Any use, reuse, or disclosure of said plans, reproductions, ideas, designs, and/or arrangements without the written permission of Oh planning+design, architecture is prohibited by law.



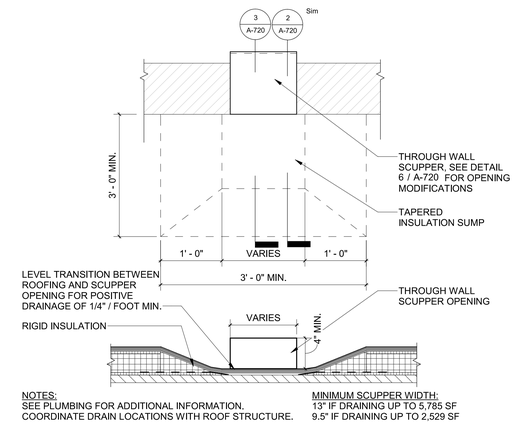
4 SCUPPER FACEPLATE FLASHING
1 1/2" = 1'-0"



3 SCUPPER AT A.4 ROOF DRAINS
3" = 1'-0"



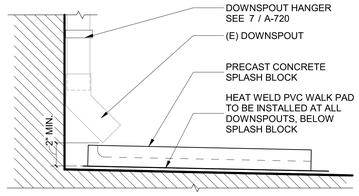
2 SCUPPER AT A.5, A.6, A.7 ROOF DRAINS
3" = 1'-0"



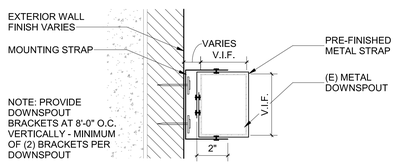
NOTES:
SEE PLUMBING FOR ADDITIONAL INFORMATION.
COORDINATE DRAIN LOCATIONS WITH ROOF STRUCTURE.

MINIMUM SCUPPER WIDTH:
13" IF DRAINING UP TO 5,785 SF
9.5" IF DRAINING UP TO 2,529 SF

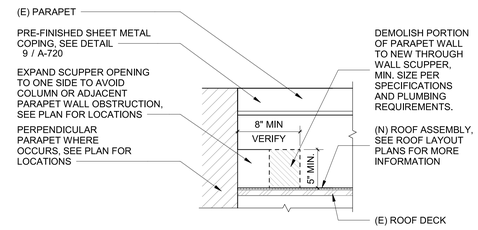
1 SCUPPER SUMP AT ROOF DRAINS
1" = 1'-0"



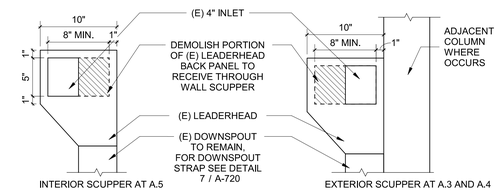
8 (N) SPLASHBLOCK AT (E) DOWNSPOUTS
1 1/2" = 1'-0"



7 DOWNSPOUT & HANGER
3" = 1'-0"

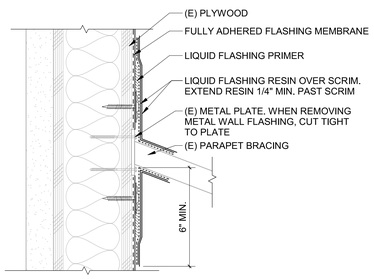


6 MODIFY SCUPPER OPENING ELEVATION
1 1/2" = 1'-0"

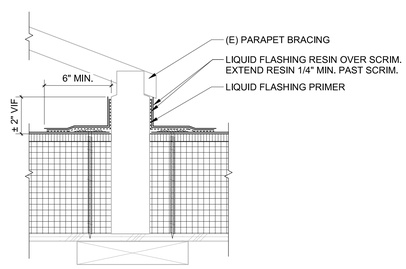


NOTE: REFER TO PLAN FOR LOCATIONS OF ADJACENT COLUMN AND PARAPET WALL CONDITIONS

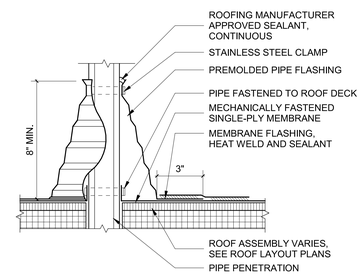
5 MODIFY LEADERHEAD
1 1/2" = 1'-0"



12 STRUCTURAL BRACE AT PARAPET WALL
3" = 1'-0"

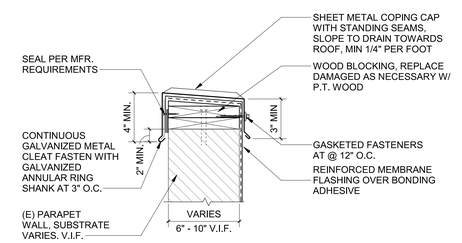


11 STRUCTURAL BRACE AT ROOF PENETRATION
3" = 1'-0"



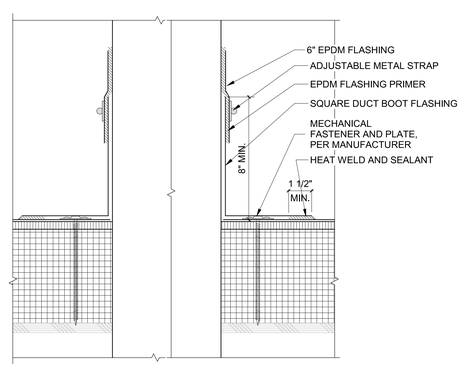
NOTE: PREFORMED PIPE BOOT TO BE APPLIED AT ALL PIPE PENETRATIONS PER MANUFACTURER'S REQUIREMENTS. SEE PLUMBING FOR ADDITIONAL INFORMATION

10 TYPICAL PIPE FLASHING
3" = 1'-0"

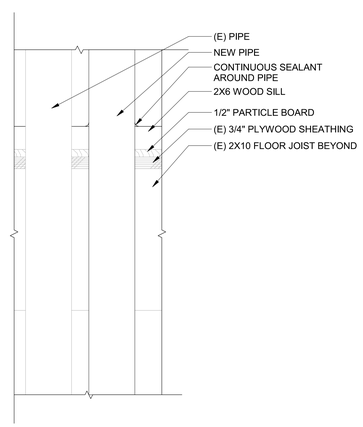


NOTE:
- MAINTAIN A MINIMUM 8" PARAPET HEIGHT FROM FINISH SURFACE OF ROOF. APPLY BLOCKING TO INCREASE (E) HEIGHTS AS REQUIRED.
- DASHED LINE INDICATES ADHESIVE - TYPICAL.

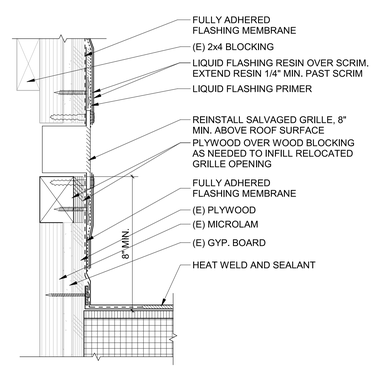
9 TYPICAL COPING DETAIL
1 1/2" = 1'-0"



15 BOOT AT SQUARE DUCT PENETRATIONS
3" = 1'-0"



14 PIPE PENETRATION AT FLOOR
3" = 1'-0"



13 FLASHING AT SIDEWALL VENT
3" = 1'-0"

4/5/2021 8:38:17 AM

BEAVERTON SCHOOL DISTRICT

ALOHA HIGH SCHOOL

18550 SW KINNAMAN ROAD,
BEAVERTON, OR 97007

OH PLANNING+DESIGN, ARCHITECTURE
115 NW 1st Ave, Ste, 300
Portland, OR 97209
t 503.280.8000
f 503.224.5442

Consultants:

ALOHA HIGH SCHOOL
MODULAR REROOFING

PERMIT / BID SET

REGISTERED ARCHITECT
DEBORAH K. DRAPER
PORTLAND, OR
12/31/2022
#5530
STATE OF OREGON

Date:	04/06/2021
Project Number:	90065
Drawn By:	DET
Checked By:	TA

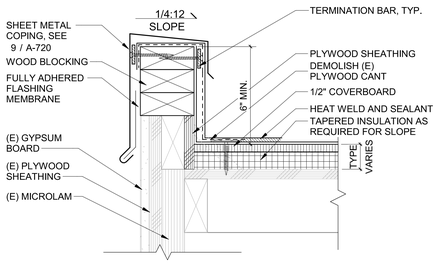
Revision Schedule:

Sheet Title:
ROOF DETAILS

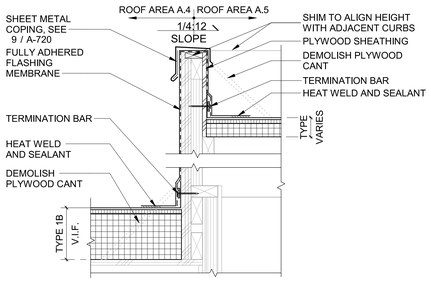
Sheet Number:
A-720

PERMIT / BID SET

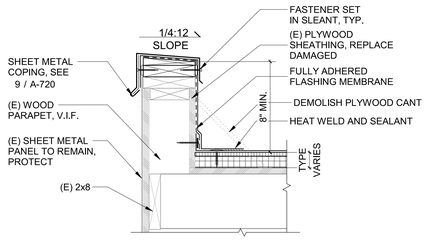
All ideas, designs, drawings, and plans set forth on these sheets are owned by and are the property of Oh planning+design, architecture. Any use, reuse, or disclosure of said plans, reproductions, ideas, designs, and/or arrangements without the written permission of Oh planning+design, architecture is prohibited by law.



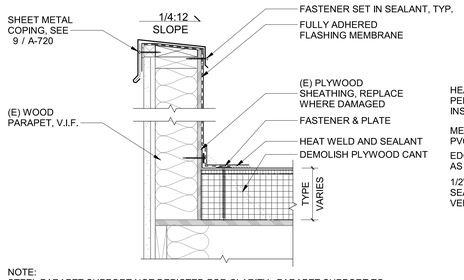
5 ROOF EDGE - TYPE P4
3" = 1'-0"



4 ROOF EDGE - TYPE P3
1 1/2" = 1'-0"



3 ROOF EDGE - TYPE P2
1 1/2" = 1'-0"

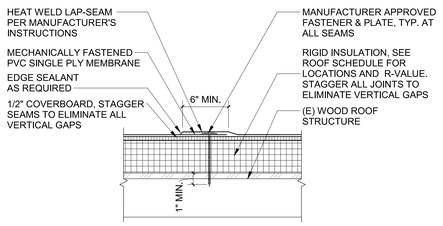


NOTE:
STEEL PARAPET SUPPORT NOT DEPICTED FOR CLARITY. PARAPET SUPPORT TO REMAIN IN PLACE DURING CONSTRUCTION. APPLY PIPE BOOT AND FLASH AROUND PER MANUFACTURERS REQUIREMENTS, SIMILAR TO DETAIL 10 / A-720

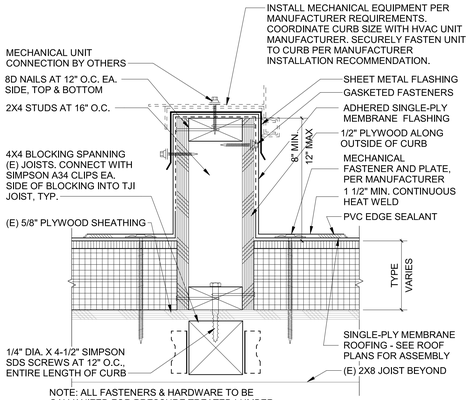
2 ROOF EDGE - TYPE P1
1 1/2" = 1'-0"

ROOF DETAILS SHEET NOTES

A. Blocking at base of parapet is based on manufacturer's requirements. Blocking is not required if adequate roofing membrane attachment can be achieved at existing roof deck/parapet substrates in accordance with roofing manufacturer's requirements.

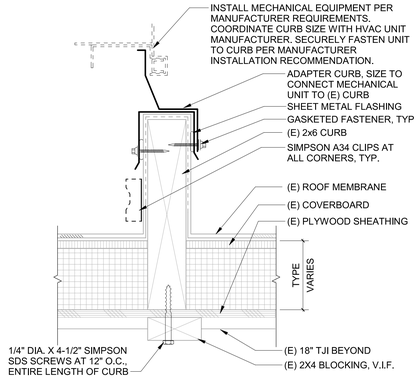


1 TYPICAL PVC SEAM
1 1/2" = 1'-0"



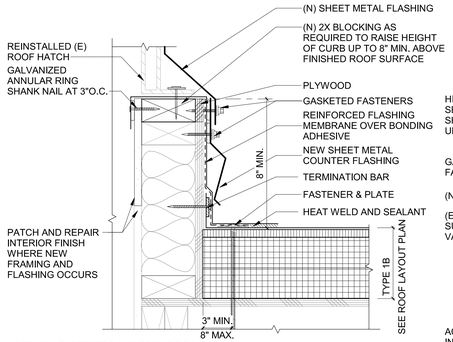
NOTE: ALL FASTENERS & HARDWARE TO BE GALVANIZED FOR PRESSURE TREATED LUMBER

10 MECHANICAL CURB AT NEW BLOCKING
3" = 1'-0"



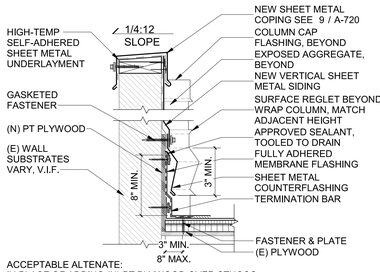
NOTE: ALL FASTENERS & HARDWARE TO BE GALVANIZED FOR PRESSURE TREATED LUMBER

9 FLASHING AT EXISTING CURB
3" = 1'-0"



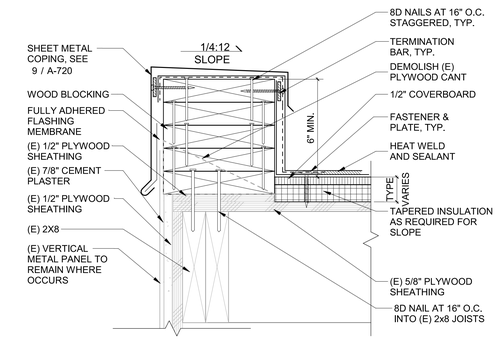
NOTE: ALL FASTENERS & HARDWARE TO BE GALVANIZED FOR PRESSURE TREATED LUMBER

8 MODIFY (E) CURB AT ROOF HATCH
3" = 1'-0"

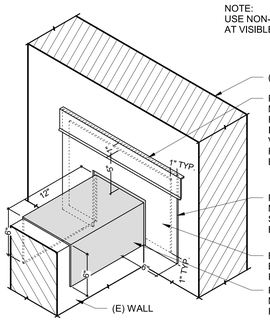


ACCEPTABLE ALTENATE:
IN PLACE OF ADDING (N) PT PLYWOOD OVER STUCCO, CONTRACTOR MAY CUT AND DEMOLISH AS NECESSARY CEMENT PLASTER & APPLY (N) REGLET SIM. TO DETAIL 12 / A-721

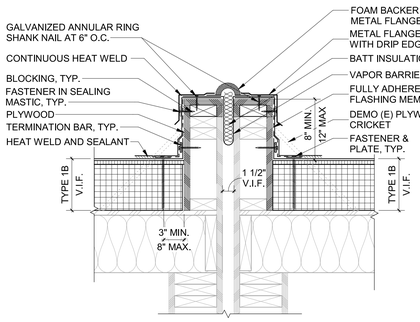
7 PVC ROOF EDGE AT (E) CEMENT PLASTER
1 1/2" = 1'-0"



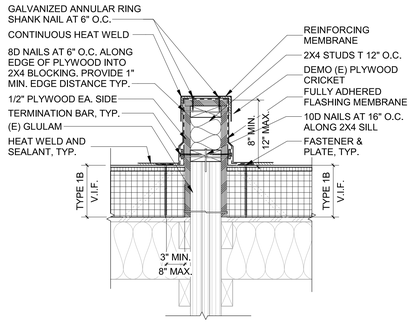
6 ROOF EDGE - TYPE P5
3" = 1'-0"



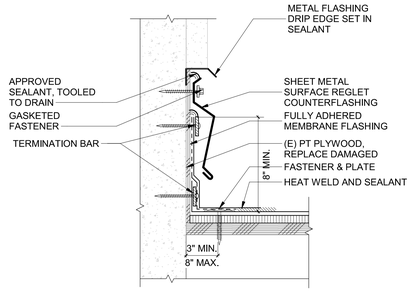
15 SADDLE FLASHING DETAIL
1 1/2" = 1'-0"



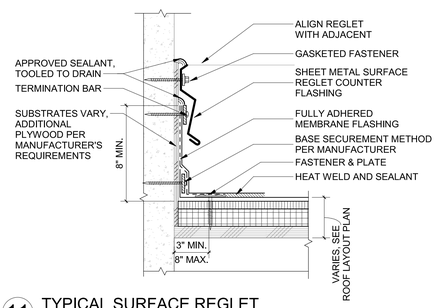
14 CURB AT MODULAR TIE
1 1/2" = 1'-0"



13 CURB AT A.4
1 1/2" = 1'-0"



12 REGLET AT STUCCO EAVE
3" = 1'-0"

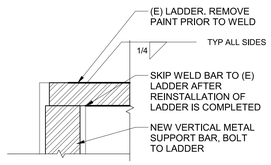


11 TYPICAL SURFACE REGLET
3" = 1'-0"

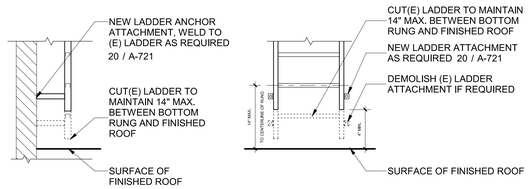
ROOF LADDER SCHEDULE									
LADDER TAG	NOTES	TYPE	ROOF AREAS	SUBSTRATE	LADDER DETAIL	X	A	B	C
L4	NOTE 6, 10	(E) MODIFY	A.6 - A.1	CONCRETE	6/A-724, 7/A-724	7' - 3"	3' - 3"	2' - 0"	0' - 8"
L8	NOTE 6, 10	(E) MODIFY	A.5 - A.6	WOOD	6/A-724, 7/A-724	7' - 2"	3' - 2"	0' - 0"	0' - 8"
L13	NOTE 6, 10	(E) MODIFY	A.4 - A.5	WOOD	6/A-724, 7/A-724	5' - 9"	1' - 9"	0' - 0"	0' - 4"

LADDER SCHEDULE AND DETAIL NOTES:

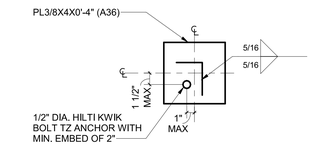
1. ALL DIMENSIONS APPROXIMATE - V.I.F. AND REFERENCE REQUIRED CLEARANCES.
2. SCHEDULE LEGEND:
   - X: OVERALL LADDER HEIGHT.
   - A: BOTTOM OF LADDER TO TOP OF PARAPET - HIGH SIDE.
   - B: BOTTOM OF LADDER TO TOP OF PARAPET - LOW SIDE (APPLIES TO PARAPET LADDER ONLY).
   - C: PARAPET WIDTH - INCLUDES WALL PROJECTIONS WHERE OCCURS, VERIFY IN FIELD.
3. FOR LADDER INFORMATION REFER TO SPECIFICATION SECTION 05 50 00 - METAL FABRICATIONS.
4. LADDER SUPPORT ANCHOR GUIDELINES:
   - CONFIRM SUBSTRATE CAPACITY PRIOR TO ATTACHING LADDER.
   - CONNECT SUPPORTS WITH 1/2"Ø EPOXY ANCHOR WITH A 4" MINIMUM EFFECTIVE EMBEDMENT INTO CONCRETE WALL.
   - CONNECT SUPPORTS WITH 3/4" Ø EPOXY ANCHOR INSTALLED AT 22.5 DEGREE ANGLE FROM VERTICAL. MAINTAIN 1" CLEARANCE TO BACKSIDE OF WALL PER ICC ESR 1772.
   - EXISTING PRECAST PANELS HAVE PRE=STRESSING TENDONS. CONTRACTOR TO LOCATE EXISTING TENDONS AND ADJUST LADDER ANCHOR BRACKET PLACEMENT ACCORDINGLY. DO NOT CUT OR DAMAGE EXISTING REINFORCING.
5. LOCATE LADDER 7" FROM OUTERMOST PROJECTION. IF DIMENSION FROM ANCHOR POINT TO CENTERLINE OF LADDER EXCEEDS 12" NOTIFY ARCHITECT OF RECORD.
6. ALL MODIFIED EXISTING LADDERS ARE TO BE REMOVED AND STORED DURING CONSTRUCTION UNLESS OTHERWISE NOTED. COORDINATE BRACKET ATTACHMENT WITH ROOF MANUFACTURER FOR FLASHING MEMBRANE REQUIREMENTS.
7. MODIFY LADDER IN PLACE. CUT OFF LADDER RAIL BELOW BOTTOM RUNG TO ACCOMODATE 4" SPACE BETWEEN NEW FINISH ROOF SURFACE AND BOTTOM OF LADDER.
8. ALL EXPOSED STEEL SHALL BE PAINTED.
9. NO REBAR SHALL BE CUT. SCAN CONCRETE PRIOR TO DRILLING USING GROUND PENETRATING RADAR TO LOCATE REBAR.
10. 4" CLEAR ABOVE ROOF MAY NOT BE POSSIBLE WITH CURRENT CONFIGURATION OF LOWER RUNG. CONTRACTOR TO MODIFY LADDER PER DETAIL17 / A-721TO BE AS CLOSE TO 4" CLEAR ABOVE ROOF AS POSSIBLE WITHOUT COMPROMISING EXISTING BOTTOM RUNG.



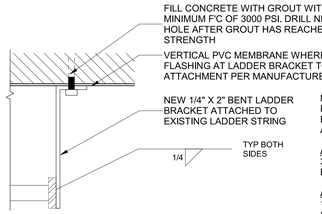
18 NEW BAR ATTACHMENT
3" = 1'-0"



17 ACCESS LADDER - MODIFIED EXISTING
1/2" = 1'-0"



16 ACCESS LADDER BRACKET - WALL MOUNTING
1 1/2" = 1'-0"

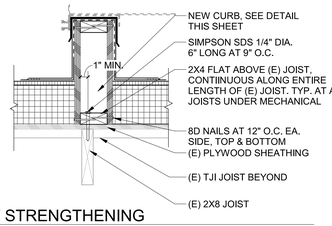


NOTE:
PARAPET SUBSTRATES VARY. VERIFY ALL EXISTING CONDITIONS IN FIELD AND NOTIFY ARCHITECT OF ANY DISCREPANCIES.

AT CONCRETE:
3/8" DIA. A193 B7 THREADED ROD WITH HILTI HIT-HY 200 EPOXY, MIN EMBED 2 3/8"

AT WOOD STUDS:
1/2" X 5" SPAX POWERLAG SCREW (ADDITIONAL LENGTH WHERE REQUIRED, VIF)

20 ACCESS LADDER BRACKET - WALL MOUNTING
3" = 1'-0"



19 JOIST STRENGTHENING
1 1/2" = 1'-0"

4/6/2021 10:40:19 AM

BEAVERTON SCHOOL DISTRICT
ALOHA HIGH SCHOOL
18550 SW KINNAMAN ROAD, BEAVERTON, OR 97007

Oh PLANNING+DESIGN, ARCHITECTURE
115 NW 1st Ave, Ste. 300
Portland, OR 97209
t 503.280.8000
f 503.224.5442

Consultants:

ALOHA HIGH SCHOOL MODULAR REROOFING

PERMIT / BID SET

REGISTERED ARCHITECT DEBORAH K. FRANCE PORTLAND, OR 12/31/2022 #5530 STATE OF OREGON

Date:	04/06/2021
Project Number:	90065
Drawn By:	DET
Checked By:	TA

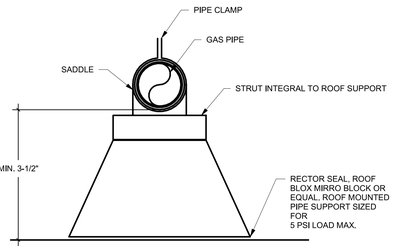
Revision Schedule:

Sheet Title:
ROOF & LADDER DETAILS

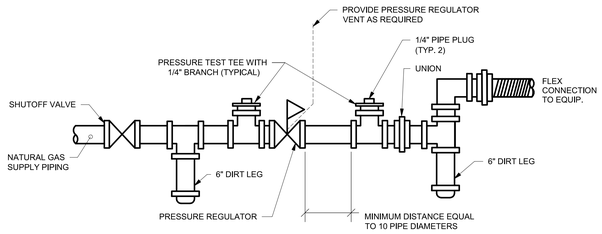
Sheet Number:
A-721

PERMIT / BID SET

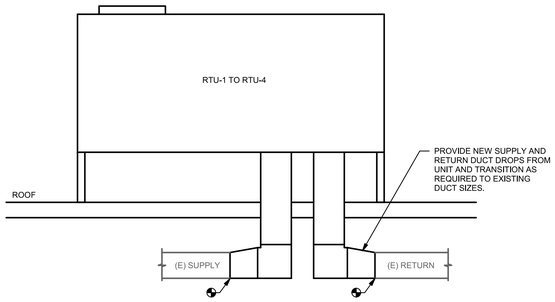
All ideas, designs, drawings, and plans set forth on these sheets are owned by and are the property of Oh planning+design, architecture. Any use, reuse, or disclosure of said plans, reproductions, ideas, designs, and/or arrangements without the written permission of Oh planning+design, architecture is prohibited by law.



1 ROOF MOUNTED GAS PIPING
NO SCALE



2 GAS PIPING CONNECTION TO EQUIPMENT
NO SCALE



NOTE: CONTRACTOR TO FIELD VERIFY EXISTING DUCT SIZES AND CONFIGURATION AT EACH UNIT AND LOCATE UNIT TO BEST SUIT FIELD CONDITIONS.

3 DUCT CONNECTION
NO SCALE

MECHANICAL SYMBOL LIST

NOTE: This is a standard symbol list and not all items listed may be used.

Abbreviations

(A)	ABANDON IN PLACE
AFF	ABOVE FINISHED FLOOR
AD	ACCESS DOOR
A/C	AIR CONDITION(ED)
AHU	AIR HANDLING UNIT
BDD	BACKDRAFT DAMPER
CW	COLD WATER
CU	CONDENSING UNIT
(X)	DEMOLISH
DIA	DIAMETER
DX	DIRECT EXPANSION
DB	DRY BULB
ELECT	ELECTRICAL
EER	ENERGY EFFICIENCY RATING
EAT	ENTERING AIR TEMPERATURE
EWT	ENTERING WATER TEMPERATURE
EXH	EXHAUST
EF	EXHAUST FAN
(E)	EXISTING
F	FAHRENHEIT
FT	FEET
FLA	FULL LOAD AMPS
(F)	FUTURE
GAL	GALLONS
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
HD	HEAD
HTR	HEATER
HTG	HEATING
HP	HORSEPOWER
HWC	HOT WATER COIL
IN	INCHES
ID	INSIDE DIAMETER
IE	INVERT ELEVATION
KW	KILOWATT
LH	LATENT HEAT
LAT	LEAVING AIR TEMPERATURE
MAX	MAXIMUM
MIN	MINIMUM
MA	MIXED AIR
MD	MOTORIZED DAMPER
(N)	NEW
NC	NOISE CRITERIA
N.C.	NORMALLY CLOSED
N.O.	NORMALLY OPEN
N/A	NOT APPLICABLE
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
NO.	NUMBER
OC	ON CENTER
OBD	OPPOSED BLADE DAMPER
OA	OUTSIDE AIR
OD	OUTSIDE DIAMETER
PH	PHASE
LBS.	POUNDS
PSI	POUNDS PER SQUARE INCH
PD	PRESSURE DROP
QTY	QUANTITY
REF	REFRIGERANT
RS	REFRIGERANT SUCTION
RLD	RELIEF DAMPER
(R)	RELOCATE/RELOCATED LOCATION
RET	RETURN
RA	RETURN AIR
RPM	REVOLUTIONS PER MINUTE
SH	SENSIBLE HEAT
SOV	SHUT OFF VALVE
SF	SQUARE FEET
SP	STATIC PRESSURE
SA	SUPPLY AIR
T, TEMP	TEMPERATURE
TD	TEMPERATURE DIFFERENCE
MBH	THOUSAND BTU'S PER HOUR
TH	TOTAL HEAT
TP	TOTAL PRESSURE
V	VOLT
WC	WATER COLUMN
W	WATT
WB	WET BULB
W/	WITH

Dampers

MOTORIZED DAMPER

VOLUME DAMPER

General

CONTINUATION

DETAIL NUMBER AND SHEET LOCATION

EQUIPMENT IDENTIFICATION

KEYED NOTE

LIMIT OF DEMOLITION

POINT OF CONNECTION

Piping Fittings, Appurtenances and Equipment

PIPE DROP

PIPE REMOVED IN DEMOLITION

PIPE RISE

TEE DOWN ON PIPE

TEE UP ON PIPE

UNION

Piping Systems

CHWR — CHILLED WATER RETURN

CHWS — CHILLED WATER SUPPLY

CHWSR — CHILLED WATER SUPPLY AND RETURN

RL — REFRIGERANT LIQUID

RS — REFRIGERANT SUCTION

Piping Valves

CHECK VALVE

GLOBE VALVE

QUARTER TURN VALVE

VALVE, GENERAL

GENERAL MECHANICAL NOTES

A EQUIPMENT, HVAC DUCTS, PIPING AND OTHER DEVICES AND MATERIALS INSTALLED OUTDOORS OR EXPOSED TO WEATHER SHALL BE WEATHER PROOF.

B INSTALL EQUIPMENT WITH SUFFICIENT ACCESS TO PANELS, CONTROLS, FILTERS, MOTORS, ETC. COORDINATE ACCESS TO ALL DAMPERS, VALVES, AND OTHER SERVICEABLE EQUIPMENT. REVIEW CEILING HEIGHTS AND COORDINATE ACCESS PANEL LOCATIONS.

C COORDINATE LOCATION OF SENSORS AND THERMOSTATS WITH ARCHITECT. COMPLY WITH ADA REQUIREMENTS.

D "DEMOLISH" OR "REMOVE" MEAN: REMOVE AND RETURN TO OWNER FOR ACCEPTANCE, AND DISPOSE OF ANY ITEMS NOT ACCEPTED BY THE OWNER.

E COORDINATE WITH DIVISION 26 FOR LOCATION OF POWER AND LOCAL DISCONNECTS FOR MECHANICAL EQUIPMENT DEVICES. PROVIDE STARTERS FOR EQUIPMENT WITHOUT VFD'S, ECM MOTORS, OR EQUIPMENT WITHOUT INTEGRAL STARTERS.

F MAINTAIN MINIMUM ELECTRICAL CODE AND UNIT MANUFACTURER'S CLEARANCES TO ADJACENT CONSTRUCTION OR EQUIPMENT, PER CEC OR THE FOLLOWING TABLE:

A. NOMINAL B. VOLTAGE	ONE-SIDE ACCESS	ACCESS-WAY FOR EXPOSED/LIVE PARTS ON BOTH SIDES
C. 0-150	36 INCH	36 INCH
D. 150-600	42 INCH	48 INCH

G CONDITIONS SHOWN ON THE PLANS RELATIVE TO THE WORK TO BE PERFORMED ARE BASED ON THE BEST INFORMATION AVAILABLE BUT ARE SUBJECT TO FIELD VERIFICATION. VERIFY LOCATIONS AND ELEVATIONS OF DUCTWORK AND UTILITIES PRIOR TO INSTALLATION.

PACKAGED AIR CONDITIONING UNIT SCHEDULE

		BASIS OF DESIGN		SUPPLY FAN				DX COOLING COIL				GAS FURNACE			AIR SOURCE CONDENSER				FILTER	ELECTRICAL						
SYMBOL	AREA SERVED	MFR	MODEL	TOTAL CFM	MIN OSA CFM	ESP (IN H2O)	MHP PER FAN	TOTAL CAP (MBH)	SENS CAP (MBH)	EDB EWB (°F)	LDB LWB (°F)	INPUT (MBH)	OUTPUT (MBH)	MIN EFF.	NOM TONS	NO OF STAGES	AMBIENT DB (°F)	SEER	EFF MERV	VOLTS	PH	MCA	MOCP	APPROX. DIMS (LxWxH)	MAX WT (LBS)	NOTES
RTU-1	MODULAR CLASSROOM	JOHNSON CONTROLS	ZE036H10	1200	300	0.45	1.5	36.9	27.1	80/67	59.1/57.3	100	80	81	3	1	95	14	13	208	1	39.5	50	82x44x32	590	1, 2
RTU-2	MODULAR CLASSROOM	JOHNSON CONTROLS	ZE036H10	1200	300	0.45	1.5	36.9	27.1	80/67	59.1/57.3	100	80	81	3	1	95	14	13	208	1	39.5	50	82x44x32	590	1, 2
RTU-3	MODULAR CLASSROOM	JOHNSON CONTROLS	ZE036H10	1200	300	0.45	1.5	36.9	27.1	80/67	59.1/57.3	100	80	81	3	1	95	14	13	208	1	39.5	50	82x44x32	590	1, 2
RTU-4	MODULAR CLASSROOM	JOHNSON CONTROLS	ZE036H10	1200	300	0.45	1.5	36.9	27.1	80/67	59.1/57.3	100	80	81	3	1	95	14	13	208	1	39.5	50	82x44x32	590	1, 2
AC-1	MODULAR CLASSROOM	JOHNSON CONTROLS	ZE048H12	1600	600	0.45	1.5	50.8	36.7	80/67	58.8/56.9	120	100	81	4	1	95	14	13	208	1	44.2	60	82x44x32	728	1,3
AC-2	MODULAR CLASSROOM	JOHNSON CONTROLS	ZE048H12	1600	600	0.45	1.5	50.8	36.7	80/67	58.8/56.9	120	100	81	4	1	95	14	13	208	1	44.2	60	82x44x32	728	1,3

NOTES:
1 PROVIDE UNIT WITH DRY BULB ECONOMIZER, BAROMETRIC RELIEF, POWERED CONVENIENCE OUTLET, SINGLE POINT POWER CONNECTION, UNIT CONTROLLER.
2 UNIT TO SIT ON FIELD FABRICATED WOOD CURB. SEE ARCHITECTURAL PLANS FOR DETAIL.
3 PROVIDE NEW ADAPTER CURB TO TRANSITION TO EXISTING ROOF CURB. FIELD VERIFY EXISTING CURB SIZE.

SHEET INDEX

M-001 SYMBOL LIST & GENERAL NOTES - MECHANICAL
M-221 ROOF PLANS - MODULAR - MECHANICAL

BEAVERTON SCHOOL DISTRICT

ALOHA HIGH SCHOOL
18550 SW KINNAMAN RD, ALOHA, OR 97078

OH PLANNING+DESIGN, ARCHITECTURE
115 NW 1st Ave, Ste, 300
Portland, OR 97209
t 503.280.8000
f 503.224.5442

Consultants:

INTERFACE ENGINEERING
PROJECT 2021-0091
CONTACT Rick Silenzi
100 SW Main Street, Suite 1600
Portland, OR 97204
TEL 503.382.2266
www.interfaceengineering.com

ALOHA HIGH SCHOOL MODULAR REROOFING

PERMIT / BID SET

REGISTERED PROFESSIONAL ENGINEER 17430PE OREGON SEPT. 28, 1984 ANDREW W. FRICHTL

EXPIRES: 12/31/21

Date:	04/06/2021
Project Number:	90045
Drawn By:	JDC
Checked By:	RJS

Revision Schedule:

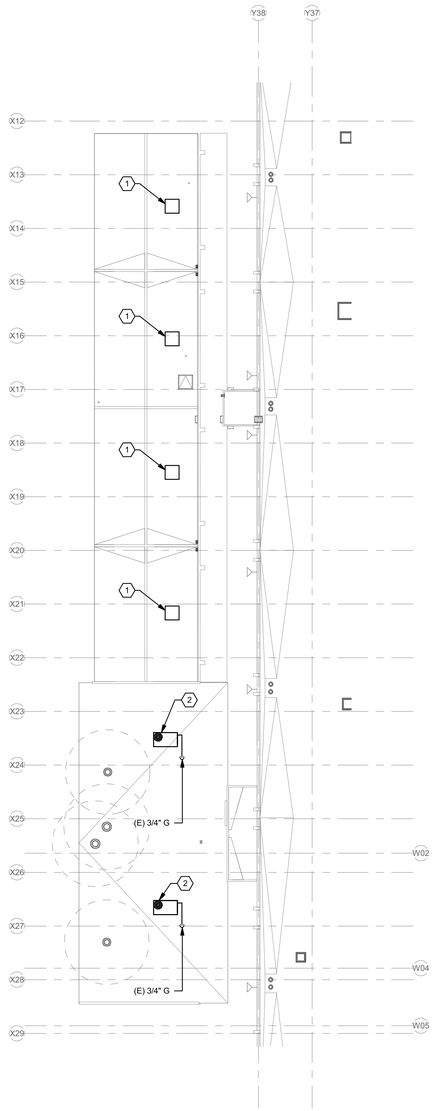
Sheet Title:
SYMBOL LIST & GENERAL NOTES - MECHANICAL

Sheet Number:
M-001

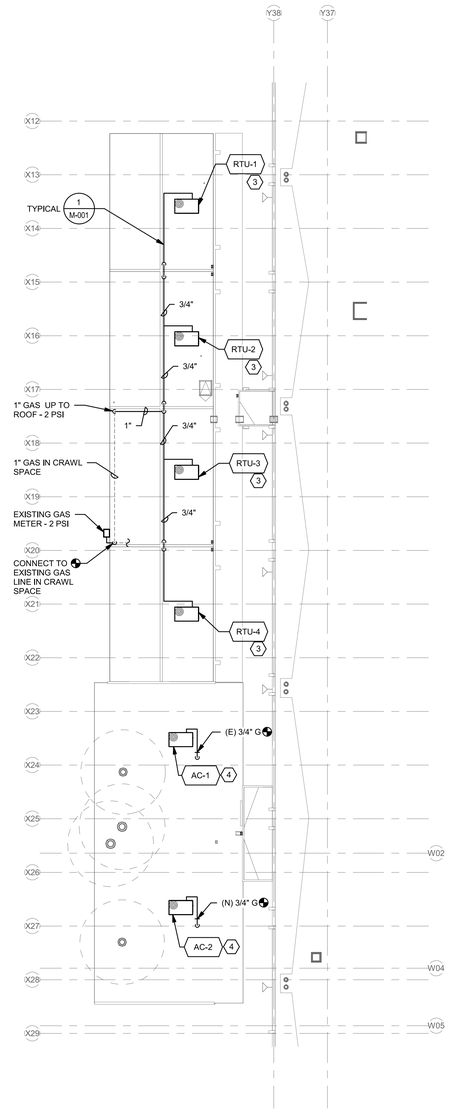
PERMIT / BID SET

4/1/2021 1:17:30 PM

All ideas, designs, drawings, and plans set forth on these sheets are owned by and are the property of Oh planning+design, architecture. Any use, reuse, or disclosure of said plans, reproductions, ideas, designs, and/or arrangements without the written permission of Oh planning+design, architecture is prohibited by law.



1 ROOF PLAN - MODULAR - MECHANICAL - DEMOLITION
1/16" = 1'-0"
0' 8' 16' 32'



2 ROOF PLAN - MODULAR - MECHANICAL
1/16" = 1'-0"
0' 8' 16' 32'

GENERAL MECHANICAL NOTES

A EXISTING ROOFTOP UNITS TO BE PRE-BALANCED PRIOR TO REMOVAL. EXISTING AIRFLOWS TO BE RECORDED FOR SUPPLY AIR, RETURN AIR, AND OUTSIDE AIR QUANTITIES AT UNIT AND ALL GRILLES. PROVIDE REPORT FOR REVIEW PRIOR TO DEMOLITION.

SHEET KEYNOTES

1. ROOFTOP UNIT AND CURB TO BE REMOVED. CONTRACTOR TO EVACUATE REFRIGERANT PRIOR TO UNIT REMOVAL. DUCTWORK TO BE DISCONNECTED AT ROOF LEVEL AND LEFT FOR RECONNECTION TO NEW UNIT. COVER AND PROTECT DUCTWORK DURING CONSTRUCTION.
2. ROOFTOP UNIT TO BE REMOVED. ROOF CURB TO REMAIN. GAS PIPING TO BE DISCONNECTED AND CAPPED FOR RECONNECTION TO NEW UNIT. DUCTWORK TO REMAIN AT ROOF LEVEL AND LEFT FOR RECONNECTION TO NEW UNIT. COVER AND PROTECT DUCTWORK DURING CONSTRUCTION.
3. NEW ROOFTOP UNIT - INSTALLATION TO INCLUDE BUT NOT BE LIMITED TO THE FOLLOWING:
   A. NEW ROOF CURB INSTALLED PER DETAIL 3/M-001.
   B. CONNECTION TO NEW GAS PIPING PER DETAIL 2/M-001.
   C. NEW DUCT FITTINGS AND TRANSITIONS FROM NEW UNIT TO EXISTING DUCTWORK BELOW THE ROOF. CONTRACTOR TO EXAMINE EXISTING DUCT CONFIGURATION AND PROVIDE THE NECESSARY DUCTWORK FOR THE NEW UNIT INSTALLATION. SEE DETAIL 3/M-001.
   D. ELECTRICAL CONNECTION PER DIV. 26.
4. NEW ROOFTOP UNIT - INSTALLATION TO INCLUDE BUT NOT BE LIMITED TO THE FOLLOWING:
   A. NEW ADAPTER CURB INSTALLED ON THE EXISTING CURB TO TRANSITION DUCTWORK TO THE NEW UNIT.
   B. NEW GAS TRAIN AND CONNECTION TO THE EXISTING GAS PIPING PER DETAIL 2/M-001.
   C. ELECTRICAL CONNECTION PER DIV. 26.

CONTROL SYSTEM NOTES

1. OWNER TO PROVIDE NEW NETWORK CONTROLLER FOR CONTROL CONTRACTOR TO INSTALL IN EXISTING ELECTRICAL CLOSET ROOM B-6. COORDINATE LOCATION WITH OWNER PRIOR TO INSTALLATION.
2. PROVIDE NEW JCI TEC 7-DAY PROGRAMMABLE ROOM SENSOR FOR EACH UNIT AND CONNECT TO EXISTING ROOFTOP UNIT AND NEW BMS NETWORK CONTROLLER.
3. UPDATE SEQUENCES OF OPERATION AND SYSTEM GRAPHICS PER OWNER DIRECTION TO DISPLAY NEW UNITS AND THERMOSTATS.

BEAVERTON SCHOOL DISTRICT
ALOHA HIGH SCHOOL
18550 SW KINNAMAN RD, ALOHA, OR 97078

OH PLANNING+DESIGN, ARCHITECTURE
115 NW 1st Ave, Ste, 300
Portland, OR 97209
t 503.280.8000
f 503.224.5442

Consultants:

INTERFACE ENGINEERING
PROJECT 2021-0091
CONTACT Rick Silenzi
100 SW Main Street, Suite 1600
Portland, OR 97204
TEL 503.382.2266
www.interfaceengineering.com

ALOHA HIGH SCHOOL MODULAR REROOFING

PERMIT / BID SET

REGISTERED PROFESSIONAL ENGINEER 17430PE OREGON SEPT. 28, 1979 ANDREW W. FRIEDTL

EXPIRES: 12/31/21

Date:	04/06/2021
Project Number:	90045
Drawn By:	JDC
Checked By:	RJS

Revision Schedule:

Sheet Title:
ROOF PLANS - MODULAR - MECHANICAL

Sheet Number:
M-221

PERMIT / BID SET

4/1/2021 1:17:31 PM

All ideas, designs, drawings, and plans set forth on these sheets are owned by and are the property of Oh planning+design, architecture. Any use, reuse, or disclosure of said plans, reproductions, ideas, designs, and/or arrangements without the written permission of Oh planning+design, architecture is prohibited by law.

PLUMBING SYMBOL LIST

NOTE: This is a standard symbol list and not all items listed may be used.

Abbreviations

(A)	ABANDON IN PLACE
AFF	ABOVE FINISHED FLOOR
AP	ACCESS PANEL
&	AND
A	AQUASTAT, ARCHITECT, ANCHOR, AMPHERE
@	AT
BFP	BACKFLOW PREVENTER
BFF	BELOW FINISHED FLOOR
BTUH	BRITISH THERMAL UNITS PER HOUR
BLDG	BUILDING
CV	CHECK VALVE
CO	CLEANOUT
CW	COLD WATER
CD	CONDENSATE DRAIN
CONT.	CONTINUATION
CFH	CUBIC FEET PER HOUR
CFS	CUBIC FEET PER SECOND
(X)	DEMOLISH
DW	DISHWASHER, DOMESTIC WATER
DET	DOMESTIC EXPANSION TANK
DCVA	DOUBLE CHECK VALVE ASSEMBLY
DN	DOWN
DS	DOWNSPOUT
DSN	DOWNSPOUT NOZZLE
D	DRAIN
DFU	DRAINAGE FIXTURE UNIT
DWV	DRAINAGE, WASTE AND VENT
DF	DRINKING FOUNTAIN
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
(E)	EXISTING
FT	FEET
FFE	FINISHED FLOOR ELEVATION
F	FIRE, FAHRENHEIT
FL	FLOOR
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FV	FLUSH VALVE
'	FOOT, FEET
(F)	FUTURE
GPM	GALLONS PER MINUTE
GWH	GAS WATER HEATER
HVAC	HEATING, VENTILATING AND AIR CONDITIONING
HZ	HERTZ
HB	HOSE BIBB
HW	HOT WATER
HWFU	HOT WATER FIXTURE UNIT
HWR	HOT WATER RETURN
IN. "	INCHES
IW	INDIRECT WASTE
INV	INVERT ELEVATION
L	LAVATORY
MIN	MINIMUM
MX	MIXING VALVE
MS	MOP SINK
(N)	NEW
N	NORTH
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
#	NUMBER
NO.	NUMBER
OD	OVERFLOW DRAIN, OUTSIDE DIAMETER
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED, OWNER INSTALLED
PLBG	PLUMBING
P	PLUMBING, PUMP
POC	POINT OF CONNECTION
PSI	POUNDS PER SQUARE INCH
PD	PRESSURE DROP, PLUMBING DEMOLITION, PUMPED DISCHARGE
PRV	PRESSURE REDUCING VALVE
QTY	QUANTITY
RWL	RAINWATER LEADER
RPBP	REDUCED PRESSURE BACKFLOW PREVENTER
(R)	RELOCATE / RELOCATED LOCATION
RD	ROOF DRAIN
SAN	SANITARY
SB	SERVICE BOX
SHT	SHEET
SA	SHOCK ARRESTOR
SOV	SHUT OFF VALVE
S, SK	SINK
SF	SQUARE FEET
SD	STORM DRAIN
SP	SUMP PUMP, STATIC PRESSURE
TEMP	TEMPERATURE
TP	TRAP PRIMER, TOTAL PRESSURE
TYP	TYPICAL
U, UR	URINAL
V	VACUUM, VENT, VOLT
VTR	VENT THRU ROOF
WCO	WALL CLEANOUT
W	WASTE
WC	WATER COLUMN, WATER CLOSET
WHA	WATER HAMMER ARRESTOR
WH	WATER HEATER, WALL HYDRANT
WSFU	WATER SUPPLY FIXTURE UNIT
W/	WITH

General

- CONTINUATION
- XX-X LOCATION — EQUIPMENT IDENTIFICATION
- EXTENT OF DEMOLITION
- X — FIXTURE TAG (LEVEL BELOW FIXTURE)
- X — KEYED NOTE
- POINT OF CONNECTION
- DEMOLISH
- EXISTING WORK
- NEW WORK
- PIPE OR CONDUIT BELOW GRADE

Piping Fittings

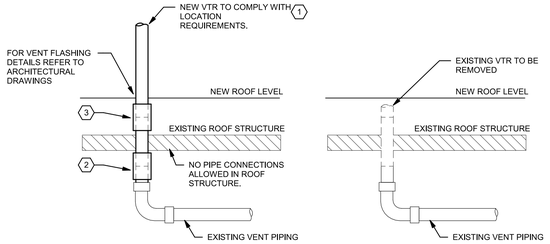
- AP — ACCESS PANEL
- AQUASTAT
- BLIND FLANGE
- CAP
- COTG — CLEANOUT TO GRADE
- CONCENTRIC REDUCER
- DSN — DOWNSPOUT NOZZLE
- ECCENTRIC REDUCER
- FCO — FLOOR CLEANOUT
- FD — FLOOR DRAIN
- FS — FLOOR SINK
- FLOW DIRECTION
- HOSE BIBB / WALL HYDRANT
- OD — OVERFLOW ROOF DRAIN
- PIPE DROP
- PIPE RISE
- PUMP
- RD — ROOF DRAIN
- SHOCK ABSORBER / WATER HAMMER ARRESTOR
- STRAINER
- T&P RELIEF VALVE WITH PIPE TO DRAIN
- TEE DOWN ON PIPE
- TEE UP ON PIPE
- VTR — VENT THROUGH ROOF
- WCO — WALL CLEANOUT

Piping Systems

- COLD WATER PIPING
- D — CONDENSATE / INDIRECT DRAIN PIPING
- HOT WATER PIPING
- HOT WATER RETURN PIPING
- 2#G — NATURAL GAS PIPING, 2 LB
- G — NATURAL GAS PIPING, 7" WC PRESSURE
- OD — OVERFLOW DRAIN PIPING ABOVE GRADE OR FINISHED FLOOR
- SANITARY VENT PIPING
- SANITARY WASTE OR SOIL PIPING ABOVE GRADE OR FINISHED FLOOR
- SANITARY WASTE OR SOIL PIPING BELOW GRADE OR FINISHED FLOOR
- SD — STORM DRAIN PIPING ABOVE GRADE OR FINISHED FLOOR
- SD — STORM DRAIN PIPING BELOW GRADE OR FINISHED FLOOR
- TP — TRAP PRIMER PIPING

Valves

- BFP — BACKFLOW PREVENTER
- CHECK VALVE
- SHUTOFF VALVE, GENERAL



NEW | DEMO

KEY NOTES:

1. VENT MAY REMAIN IN SAME LOCATION IF ALL LOCATION REQUIREMENTS ARE MET.
2. PIPE EXTENSION SPLICE IS TO BE MADE BELOW THE ROOF DECK. ELBOW IS TO BE SUPPORTED VERTICALLY, AND THE PIPE EXTENSION IS TO BE BRACED AT THE ROOF DECK.
3. ALTERNATIVE SPLICE LOCATION. THIS LOCATION IS TO BE USED ONLY IF NO ACCESS FROM BELOW THE ROOF IS AVAILABLE.

CONNECTION NOTE:

A RIGID COUPLER IS TO BE USED TO CONNECT EXISTING PIPING TO THE NEW EXTENSION OF THE VENT PIPE. USE ONE OF THE FOLLOWING BASED ON PIPING MATERIAL:

- FOR CONNECTING CAST IRON VENT PIPING, UTILIZE DUTY NO-HUB COUPLINGS.
- FOR CONNECTING PVC VENT PIPING, UTILIZE GLUED-ON ABS OR PVC COUPLINGS.
- RUBBER PIPE ADAPTERS ARE NOT ACCEPTABLE.

LOCATION REQUIREMENTS:

A. TERMINATE A MINIMUM OF 8 INCHES ABOVE FINISHED ROOF SURFACE.

B. TERMINATE A MINIMUM OF 12 INCHES FROM A VERTICAL SURFACE.

C. TERMINATE A MINIMUM OF 10 FEET FROM, OR 3 FEET ABOVE OPERABLE WINDOWS, DOORS, OR AIR INTAKES.

1 VENT THROUGH ROOF
NO SCALE

GENERAL PLUMBING NOTES

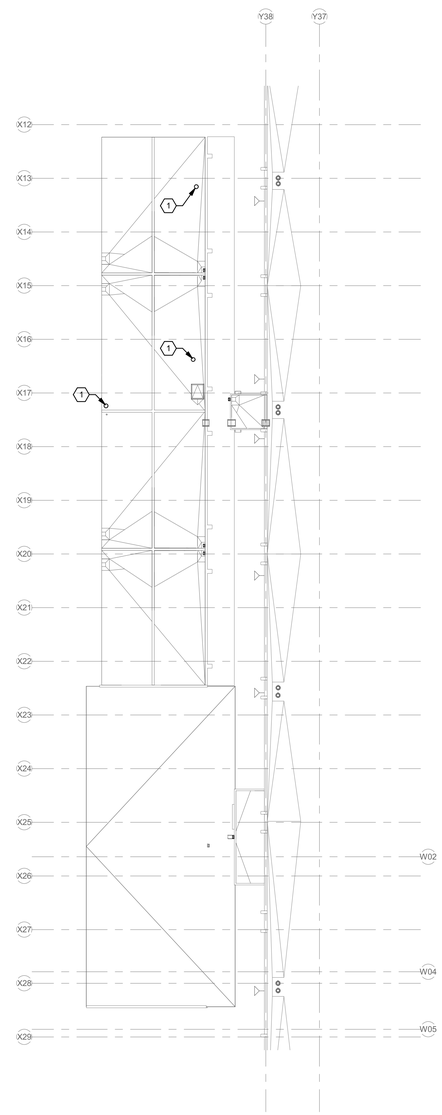
A. CONDITIONS SHOW ON THE PLANS RELATIVE TO THE WORK TO BE PERFORMED ARE BASED ON THE BEST INFORMATION AVAIALBLE BUT ARE SUBJECT TO VERIFICATION. VERIFY LOCATIONS AND ELEVATIONS OF UTILITIES TO BE CROSSED OR CONNECTED. CORRECT DEFICIENCIES CAUSED BY FAILURE TO PERFORM SUCH VERIFICATIONS AT NO EXPENSE TO OWNER. IMMEDIATELY NOTIFY ARCHITECT AND ENGINEER OF CONDITION IN CONFLICT WITH THE DETAILS/PLANS.

B. VERIFY LOCATIONS OF CONNECTIONS TO PIPING INSTALLED ON SITE.

C. SEE ARCHITECTURAL PLANS FOR OVERFLOW SCUPPER LOCATIONS.

SHEET KEYNOTES

1 CONNECT TO EXISTING VENT PIPING BELOW THE ROOF LEVEL AND EXTEND NEW VTR 8" MINIMUM ABOVE NEW ROOF LEVEL AT LOCATIONS WHERE EXISTING VENTS ARE NOT AT 8" MINIMUM ABOVE NEW ROOF LEVEL. VTR'S SHALL BE FLASHED WHEN NEW ROOF IS INSTALLED. SEE DETAIL 1/P-001 AND ARCHITECTURAL FLASHING DETAIL.



2 ROOF PLAN - MODULAR - PLUMBING
1/16" = 1'-0"
0' 8' 16' 32'

SHEET INDEX

P-001 SYMBOL LIST & SCHEDULES - PLUMBING

BEAVERTON SCHOOL DISTRICT

ALOHA HIGH SCHOOL
18550 SW KINNAMAN RD, ALOHA, OR 97078

OH PLANNING+DESIGN, ARCHITECTURE
115 NW 1st Ave, Ste, 300
Portland, OR 97209
t 503.280.8000
f 503.224.5442

Consultants:

INTERFACE ENGINEERING
PROJECT 2021-0091
CONTACT Rick Silenzi
100 SW Main Street, Suite 1600
Portland, OR 97204
TEL 503.382.2266
www.interfaceengineering.com

ALOHA HIGH SCHOOL MODULAR REROOFING

PERMIT / BID SET

REGISTERED PROFESSIONAL ENGINEER 17430PE OREGON SEPT. 28, 1979 ANDREW W. FRIGITI

EXPIRES: 12/31/21

Date:	04/06/2021
Project Number:	90045
Drawn By:	JDC
Checked By:	RJS

Revision Schedule:

Sheet Title:
SYMBOL LIST & SCHEDULES - PLUMBING

Sheet Number:
P-001

PERMIT / BID SET

4/1/2021 1:17:31 PM

All ideas, designs, drawings, and plans set forth on these sheets are owned by and are the property of Oh planning+design, architecture. Any use, reuse, or disclosure of said plans, reproductions, ideas, designs, and/or arrangements without the written permission of Oh planning+design, architecture is prohibited by law.

MECHANICAL EQUIPMENT CONNECTION SCHEDULE

ITEM	DESCRIPTION	LOCATION	VOLTS / PHASE	LOAD	MCA	MOCP	WIRE / CONDUIT	CIRCUIT	NOTES
RTU-1	PACKAGED AC UNIT	ROOF	208/1		39.5	50	402	P1-5,7.	1
RTU-2	PACKAGED AC UNIT	ROOF	208/1		39.5	50	402	P2-5,7.	1
RTU-3	PACKAGED AC UNIT	ROOF	208/1		39.5	50	402	P3-5,7.	1
RTU-4	PACKAGED AC UNIT	ROOF	208/1		39.5	50	402	P4-5,7.	1
AC-1	AIR CONDITIONING UNIT	ROOF	208/1		44.2	60	502	2A98-40,42.	1
AC-2	AIR CONDITIONING UNIT	ROOF	208/1		44.2	60	502	2A98-39,41.	1

GENERAL MECHANICAL EQUIPMENT CONNECTION SCHEDULE NOTES

A. THE ABOVE INFORMATION IS FOR A SPECIFIC MANUFACTURER. ACTUAL MANUFACTURER FOR EQUIPMENT MAY BE DIFFERENT. COORDINATE WITH MECHANICAL EQUIPMENT SUBMITTALS FOR LOADS AND OVER CURRENT PROTECTION REQUIREMENTS PRIOR TO INSTALLATION OF WIRING.

B. MOCP = MAXIMUM OVER CURRENT PROTECTION
MCA = MINIMUM CIRCUIT AMPACITY

C. PROVIDE DISCONNECTING MEANS FOR EACH ITEM OF EQUIPMENT LISTED IN THE SCHEDULE ABOVE, EXCEPT AS SPECIFICALLY NOTED OTHERWISE IN SCHEDULE NOTES, BELOW.

MECHANICAL EQUIPMENT CONNECTION SCHEDULE NOTES

1 EXISTING RACEWAY FROM PANEL TO ROOF LOCATION TO BE REUSED.

WIRE / CONDUIT SCHEDULE

402 2 #8 CU, 1 #10 CU GND., IN EXISTING 3/4"C.
502 2 #6 CU, 1#10 CU GND., IN EXISTING 3/4"C.

2021-0091 Aloha

Panel '2A98'

120/208V, 3 Ph., 4 W.; 250A Bus with Main Lug Only Surface Mounted Panelboard

Ckt. No.	Description / Location	Load (VA)	Type	C.B. A/Pole	Note	Ph.	Note	C.B. A/Pole	Load (VA)	Type	Description / Location	Ckt. No.
1	SOUTH ROOM LIGHTS			20/1		A		20/1			EXHAUST FAN #3	2
3	NORTH ROOM LIGHTS			20/1		B		20/1			EXIT LIGHTS	4
5	WATER HEATER #1			20/1		C		20/1			EXHAUST FAN #1	6
7	WATER HEATER #2			20/1		A		20/1			EXHAUST FAN #2	8
9	WATER HEATER #3			20/1		B		20/1			EXHAUST FAN #4	10
11	WATER HEATER #4			20/1		C		20/1			OUTSIDE LIGHTS SOUTH	12
13	SOUTH ROOF RECEPTACLE			20/1		A		20/1			GAS SOLENOID VALVE	14
15	NORTH ROOF RECEPTACLE			20/1		B		20/1			OUTSIDE LIGHTS NORTH	16
17	AC CONTROL TRANSFORMER #1			20/1		C		20/1			SPARE	18
19	AC CONTROL TRANSFORMER #2			20/1		A		20/1			SPARE	20
21	HP-1 TO 4 CONTROL TRANSFORMER			20/1		B		20/1			SPARE	22
23	SPARE			20/1		C		20/1			SPARE	24
25	SPARE			20/1		A		20/1			SPARE	26
27	SPARE			20/1		B		20/1			SPARE	28
29	SPARE			20/1		C		20/1			SPARE	30
31	SPARE			20/1		A		20/1			SPARE	32
33	SPARE			20/1		B		20/1			SPARE	34
35	SPARE			20/1		C		20/1			SPARE	36
37	SPARE			20/1		A		20/1			SPARE	38
39	**AC-2 (SOUTH)**	**3,287**	**M**	**60/2**	**1**	**B**	**1**	**60/2**	**3,287**	**M**	**AC-1 (NORTH)**	**40**
41	**---**	**3,287**	**M**	**-**		**C**		**-**	**3,287**	**M**	**---**	**42**

Total Connected Load: Ph. A 0 VA 0 Amps
Total Connected Load: Ph. B 6,574 VA 55 Amps
Total Connected Load: Ph. C 6,574 VA 55 Amps

Panel Connected Load: 13.1 KVA 36.5 Amps
Sub-Fed Connected Load: 0.0 KVA 0.0 Amps
Total Demand Load: 14.8 KVA 41.1 Amps

Notes:
1. REPLACE EXISTING 50A/2P BREAKER WITH NEW 60A/2P BREAKER, TO MATCH EXISTING MANUFACTURER AND AIC RATING.
2.
3.
4.
5.

2021-0091 Aloha

Panel 'P1'

120/208V, 1Ph, 3W.; 100A Bus with Main Lug Only Flush Mounted Load Center

Ckt. No.	Description / Location	Load (VA)	Type	C.B. A/Pole	Note	Ph.	Note	C.B. A/Pole	Load (VA)	Type	Description / Location	Ckt. No.
1	LIGHTS			20/1		A		20/1			RECEPTACLES	2
3	WATER HEATER			20/1		C		20/1			RECEPTACLES	4
5	**RTU-1**			**50/2**	**1**	**A**	**2**	30/2			**SPARE**	6
7	**---**			**-**		**C**		**-**			**---**	8
9	OUTSIDE RECEPTACLES			20/1		A		20/1			COMPUTER RECEPTACLES	10
11	SPACE					C					SPACE	12

Connected Load: Ph, A 0 VA 0 Amps
Connected Load: Ph, C 0 VA 0 Amps

Panel Connected Load: 0.0 KVA 0.0 Amps
Sub-Fed Connected Load: 0.0 KVA 0.0 Amps
Total Demand Load: 0.0 KVA 0.0 Amps

Notes:
1. REPLACE EXISTING 30A/2P BREAKER WITH NEW 50A/2P BREAKER, TO MATCH EXISTING MANUFACTURER AND AIC RATING,
2. EXISTING BREAKER MADE SPARE BY DEMOLITION,
3.
4.
5.

2021-0091 Aloha

Panel 'P2'

120/208V, 1Ph, 3W.; 100A Bus with Main Lug Only Flush Mounted Load Center

Ckt. No.	Description / Location	Load (VA)	Type	C.B. A/Pole	Note	Ph.	Note	C.B. A/Pole	Load (VA)	Type	Description / Location	Ckt. No.
1	LIGHTS			20/1		A		20/1			RECEPTACLES	2
3	WATER HEATER			20/1		C		20/1			RECEPTACLES	4
5	**RTU-2**			**50/2**	**1**	**A**	**2**	30/2			**SPARE**	6
7	**---**			**-**		**C**		**-**			**---**	8
9	OUTSIDE RECEPTACLES			20/1		A		20/1			COMPUTER RECEPTACLES	10
11	SPACE					C					SPACE	12

Connected Load: Ph, A 0 VA 0 Amps
Connected Load: Ph, C 0 VA 0 Amps

Panel Connected Load: 0.0 KVA 0.0 Amps
Sub-Fed Connected Load: 0.0 KVA 0.0 Amps
Total Demand Load: 0.0 KVA 0.0 Amps

Notes:
1. REPLACE EXISTING 30A/2P BREAKER WITH NEW 50A/2P BREAKER, TO MATCH EXISTING MANUFACTURER AND AIC RATING,
2. EXISTING BREAKER MADE SPARE BY DEMOLITION,
3.
4.
5.

2021-0091 Aloha

Panel 'P3'

120/208V, 1Ph, 3W.; 100A Bus with Main Lug Only Flush Mounted Load Center

Ckt. No.	Description / Location	Load (VA)	Type	C.B. A/Pole	Note	Ph.	Note	C.B. A/Pole	Load (VA)	Type	Description / Location	Ckt. No.
1	RECEPTACLES			20/1		A		20/1			LIGHTS	2
3	RECEPTACLES			20/1		C		20/1			LIGHTS	4
5	**RTU-3**			**50/2**	**1**	**A**	**2**	30/2			**SPARE**	6
7	**---**			**-**		**C**		**-**			**---**	8
9	OUTSIDE RECEPTACLES			20/1		A		20/1			COMPUTER RECEPTACLES	10
11	SPACE					C					SPACE	12

Connected Load: Ph, A 0 VA 0 Amps
Connected Load: Ph, C 0 VA 0 Amps

Panel Connected Load: 0.0 KVA 0.0 Amps
Sub-Fed Connected Load: 0.0 KVA 0.0 Amps
Total Demand Load: 0.0 KVA 0.0 Amps

Notes:
1. REPLACE EXISTING 30A/2P BREAKER WITH NEW 50A/2P BREAKER, TO MATCH EXISTING MANUFACTURER AND AIC RATING,
2. EXISTING BREAKER MADE SPARE BY DEMOLITION,
3.
4.
5.

2021-0091 Aloha

Panel 'P4'

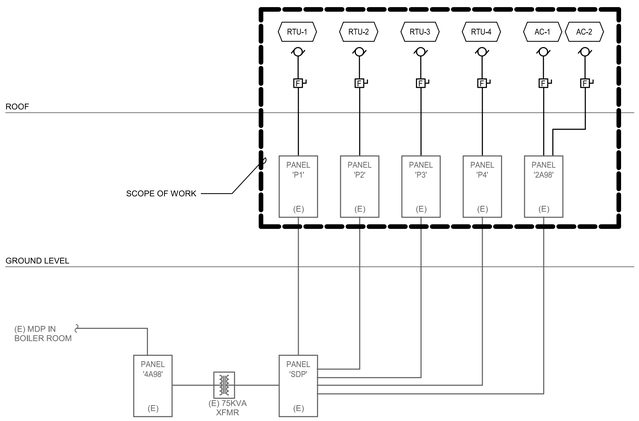
120/208V, 1Ph, 3W.; 100A Bus with Main Lug Only Flush Mounted Load Center

Ckt. No.	Description / Location	Load (VA)	Type	C.B. A/Pole	Note	Ph.	Note	C.B. A/Pole	Load (VA)	Type	Description / Location	Ckt. No.
1	LIGHTS			20/1		A		20/1			RECEPTACLES	2
3	LIGHTS			20/1		C		20/1			RECEPTACLES	4
5	**RTU-4**			**50/2**	**1**	**A**	**2**	30/2			**SPARE**	6
7	**---**			**-**		**C**		**-**			**---**	8
9	OUTSIDE RECEPTACLES			20/1		A		20/1			COMPUTER RECEPTACLES	10
11	SPACE					C					SPACE	12

Connected Load: Ph, A 0 VA 0 Amps
Connected Load: Ph, C 0 VA 0 Amps

Panel Connected Load: 0.0 KVA 0.0 Amps
Sub-Fed Connected Load: 0.0 KVA 0.0 Amps
Total Demand Load: 0.0 KVA 0.0 Amps

Notes:
1. REPLACE EXISTING 30A/2P BREAKER WITH NEW 50A/2P BREAKER, TO MATCH EXISTING MANUFACTURER AND AIC RATING,
2. EXISTING BREAKER MADE SPARE BY DEMOLITION,
3.
4.
5.



1 PARTIAL ONE-LINE POWER DISTRIBUTION DIAGRAM
NO SCALE

ELECTRICAL SYMBOL LIST

NOTE: This is a standard symbol list and not all items listed may be used.

Abbreviations

AFF	ABOVE FINISHED FLOOR
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
AWG	AMERICAN WIRE GAUGE
A	AMPERES, AMBER
AHJ	AUTHORITY HAVING JURISDICTION
AIC	AVAILABLE INTERRUPTING CAPACITY
BAS	BUILDING AUTOMATION SYSTEM
CA	CABLE
CAT	CATEGORY
CLG	CEILING
C	CONDUIT, CLOSE, CONTROL
COORD	COORDINATE
CU	COPPER
dB	DECIBEL
(X)	DEMOLISH
DTL	DETAIL
DIA	DIAMETER
DIM	DIMENSION
DIV	DIVISION
DN	DOWN
DWG	DRAWING
EA	EACH
EMT	ELECTRICAL METALLIC TUBING
EL	ELEVATION
E	EMERGENCY
EF	EXHAUST FAN
(E)	EXISTING
FA	FIRE ALARM
FMC	FLEXIBLE METAL CONDUIT
FT	FOOT, FEET
FBO	FURNISHED BY OTHERS
G, GND	GROUND
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFI	GROUND FAULT INTERRUPTER
GFP	GROUND FAULT PROTECTION
HT	HEIGHT
ID	IDENTIFICATION
IN	INCH, INCHES
IEEE	INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS
IG	ISOLATED GROUND
KV	KILOVOLT
KVA	KILOVOLT AMPERES
KW	KILOWATT
LED	LIGHT EMITTING DIODE
LFMC	LIQUIDTIGHT FLEXIBLE METAL CONDUIT
LV	LOW VOLTAGE
MOCP	MAXIMUM OVERCURRENT PROTECTION
MIN	MINIMUM
MCA	MINIMUM CIRCUIT AMPS
MISC	MISCELLANEOUS
MCC	MOTOR CONTROL CENTER
MT, MTD	MOUNT, MOUNTED
NEC	NATIONAL ELECTRIC CODE
NESC	NATIONAL ELECTRIC SAFETY CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
N	NEUTRAL
N/A	NOT APPLICABLE
N.I.C.	NOT IN CONTRACT
NTS	NOT TO SCALE
OC	ON CENTER
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
PNL	PANEL
PH	PHASE
PVC	POLY-VINYL-CHLORIDE
PWR	POWER
QTY	QUANTITY
RFI	REQUEST FOR INFORMATION
REQD	REQUIRED
RMC	RIGID METAL CONDUIT
RM	ROOM
SHT	SHEET
STD	STANDARD
SPD	SURGE PROTECTION DEVICE
SWBD	SWITCHBOARD
TBD	TO BE DETERMINED
XFMR	TRANSFORMER
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
TYP	TYPICAL
UL	UNDERWRITERS LABORATORIES
UPS	UNINTERRUPTIBLE POWER SUPPLY
UON	UNLESS OTHERWISE NOTED
V	VOLTS, VOLTAGE
WP	WEATHERPROOF
W/	WITH
W/O	WITHOUT

Connections / Equipment

HEAVY DUTY FUSED DISCONNECT SWITCH

General

DETAIL NUMBER AND SHEET LOCATION

EQUIPMENT IDENTIFICATION

KEYED NOTE

DEMOLISH

EXISTING WORK

NEW WORK

Miscellaneous

BRANCH PANEL

FLUSH WALL MOUNTED BRANCH PANEL

Switches and Receptacles

DUPLEX RECEPTACLE (MULTIPLE LETTERS INDICATE MULTIPLE OPTIONS)
W = WEATHERPROOF CONTINUOUS USE COVER, GFCI PROTECTED, WITH WEATHER-RESISTANT RECEPTACLE

SHEET INDEX

E-001 SYMBOL LIST & SCHEDULES - ELECTRICAL
E-221 ROOF PLANS - MODULAR - ELECTRICAL

BEAVERTON SCHOOL DISTRICT
ALOHA HIGH SCHOOL
18550 SW KINNAMAN RD, ALOHA, OR 97078

Oh
OH PLANNING+DESIGN, ARCHITECTURE
115 NW 1st Ave, Ste, 300
Portland, OR 97209
t 503.280.8000
f 503.224.5442

Consultants:
INTERFACE ENGINEERING
PROJECT 2021-0091
CONTACT Jeff Glanville
100 SW Main Street, Suite 1600
Portland, OR 97204
TEL 503.382.2266
www.interfaceengineering.com

ALOHA HIGH SCHOOL MODULAR REROOFING

PERMIT / BID SET

REGISTERED PROFESSIONAL ENGINEER
75085PE
OREGON
MARCH 11, 2008
JAMES R. SATTEM
EXPIRES: 06/30/22

Date:	04/06/2021
Project Number:	90045
Drawn By:	JV
Checked By:	JBG

Revision Schedule:

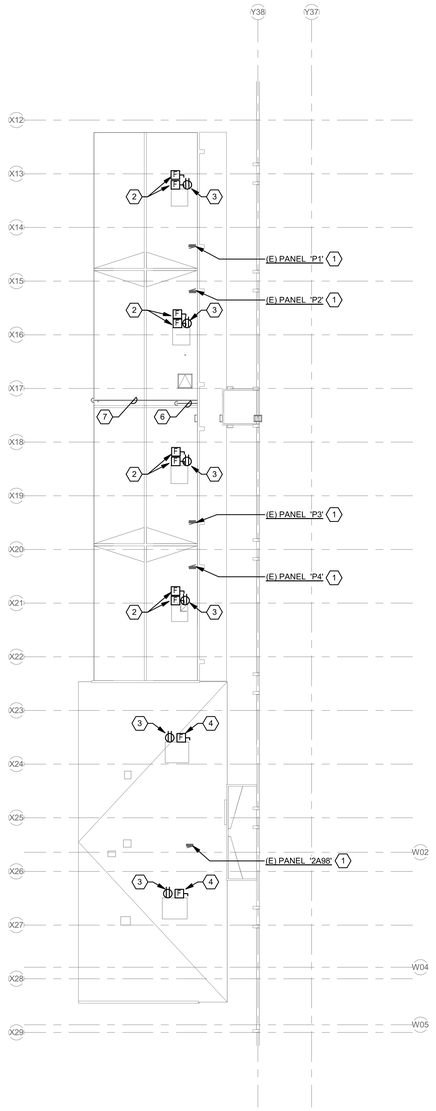
Sheet Title:
SYMBOL LIST & SCHEDULES - ELECTRICAL

Sheet Number:
E-001

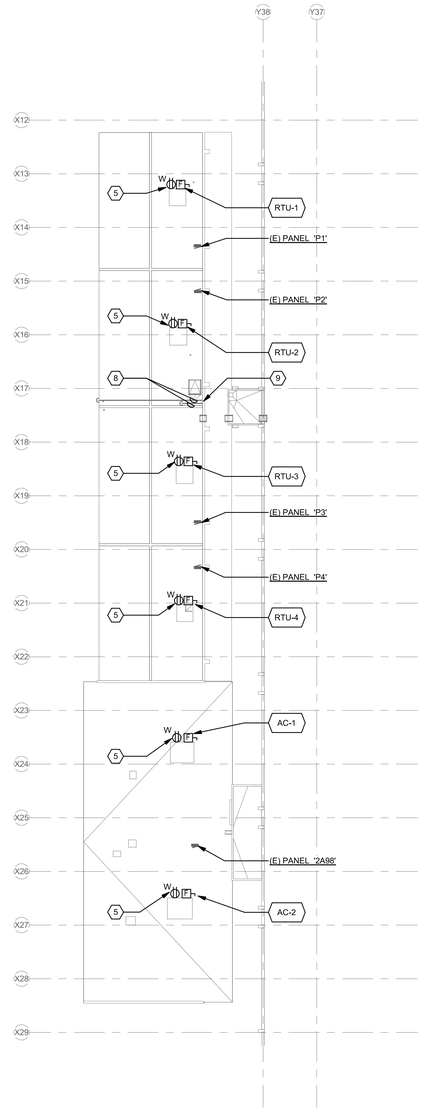
PERMIT / BID SET

4/1/2021 3:47:15 PM

All ideas, designs, drawings, and plans set forth on these sheets are owned by and are the property of Oh planning+design, architecture. Any use, reuse, or disclosure of said plans, reproductions, ideas, designs, and/or arrangements without the written permission of Oh planning+design, architecture is prohibited by law.



1 ROOF PLAN - MODULAR - ELECTRICAL - DEMOLITION
1/16" = 1'-0"



2 ROOF PLAN - MODULAR - ELECTRICAL
1/16" = 1'-0"

GENERAL SHEET NOTES

A. NEW MECHANICAL EQUIPMENT TO BE PROVIDED WITH INTEGRAL DISCONNECTS BY DIVISION 23. COORDINATE REQUIREMENTS WITH DIVISION 23 PRIOR TO ROUGH-IN,

B. REMOVE ABANDONED WIRING AND CONDUIT BACK TO SOURCE OF SUPPLY.

C. WHERE CHANGES ARE MADE IN EXISTING PANELS, PROVIDE NEW LABELING AND TYPEWRITTEN SCHEDULES TO ACCURATELY REFLECT THE CHANGES.

D. DEMOLITION DRAWINGS ARE BASED ON CASUAL FIELD OBSERVATION. VERIFY THE ACCURACY OF THE INFORMATION SHOWN PRIOR TO BIDDING AND PROVIDE SUCH LABOR AND MATERIALS AS NECESSARY TO ACCOMPLISH THE WORK.

SHEET KEYNOTES

1. EXISTING PANEL LOCATED IN CLASSROOM BELOW.
2. EXISTING DUAL-POINT CONNECTION ROOFTOP UNIT TO BE REPLACED WITH SINGLE POINT CONNECTION. REMOVE EXISTING FUSED DISCONNECTS AND ASSOCIATED WIRING COMPLETE. (1) EXISTING 3/4" CONDUIT TO REMAIN FOR RE-USE.
3. EXISTING WEATHERPROOF RECEPTACLE MOUNTED TO UNIT TO BE REPLACED. MAINTAIN CONTINUITY OF EXISTING WIRING FOR CONNECTION TO REPLACEMENT.
4. EXISTING SINGLE-POINT CONNECTION AC-UNIT TO BE REPLACED. REMOVED EXISTING FUSED DISCONNECT AND ASSOCIATED WIRING COMPLETE. EXISTING RACEWAY FROM PANEL '2A98' TO BE REUSED.
5. INTEGRAL GENERAL PURPOSE RECEPTACE TO BE PROVIDED WITH PACKAGED AC UNIT. CONNECT TO EXISTING GENERAL PURPOSE RECEPTACLE CIRCUIT.
6. EXISTING 1-1/2"C. WITH UNISTRUT SUPPORT TO BE PROTECTED DURING RE-ROOFING. EXISTING SUPPORTS TO BE REMOVED, PROVIDE TEMPORARY SUPPORT PRIOR TO INSTALLATION OF NEW SUPPORT BASES. EXISTING ROOF PENETRATION TO BE PROTECTED. REFER TO DETAIL 10/A720 FOR ADDITIONAL INFORMATION.
7. EXISTING 2"C. WITH UNISTRUT SUPPORT TO BE PROTECTED DURING RE-ROOFING. EXISTING SUPPORTS TO BE REMOVED, PROVIDE TEMPORARY SUPPORT PRIOR TO INSTALLATION OF NEW SUPPORT BASES.
8. PROVIDE NEW RUBBER AND POLYURETHANE PREPOLYMER CURB BASES FOR SUPPORT OF EXISTING CONDUITS.
9. EXISTING CONDUIT PENETRATIONS THROUGH PARAPET WALL TO BE PROTECTED AND PROVIDED WITH LIQUID FLASHING, REFER TO DETAIL 12/A720 FOR ADDITIONAL INFORMATION.

BEAVERTON SCHOOL DISTRICT

ALOHA HIGH SCHOOL
18550 SW KINNAMAN RD, ALOHA, OR 97078

Oh
OH PLANNING+DESIGN, ARCHITECTURE
115 NW 1st Ave, Ste. 300
Portland, OR 97209
t 503.280.8000
f 503.224.5442

Consultants:

INTERFACE ENGINEERING
PROJECT 2021-0091
CONTACT Jeff Glanville
100 SW Main Street, Suite 1600
Portland, OR 97204
TEL 503.382.2266
www.interfaceengineering.com

ALOHA HIGH SCHOOL MODULAR REROOFING

PERMIT / BID SET

REGISTERED PROFESSIONAL ENGINEER
OREGON
MARCH 11, 1986
JAMES R. SAYTOM
EXPIRES: 06/30/22

Date:	04/06/2021
Project Number:	90045
Drawn By:	JV
Checked By:	JBG

Revision Schedule:

Sheet Title:
ROOF PLANS - MODULAR - ELECTRICAL

Sheet Number:
E-221

PERMIT / BID SET

4/1/2021 3:47:16 PM