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.

COOPER MOUNTAIN ELEMENTARY

SEISMIC REHABILITATION GRANT PROGRAM (SRGP) IMPROVEMENTS

7670 SW 170th AVE
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.

CONTACT INFORMATION

OWNER
Beaverton School District
16550 SW Merlo Road
Beaverton, Oregon 97003
Contact: Eric Bolken
Email: eric_bolken@beaverton.k12.or.us
Telephone: (503) 704-6783

ARCHITECT-OF-RECORD
Oh planning+design, architecture
115 NW First Avenue, Suite 300
Portland, OR 97209
Deb France, Principal
Email: deb.france@ohpd.net
Contact: Caitlin McGehee, Project Manager
Email: caitlin.mcgehee@ohpd.net
Telephone: (503) 551-2550

STRUCTURAL ENGINEER
Holmes Structures
555 SE MLK Blvd. Suite 602
Portland, OR 97214
Contact: Jennifer Eggers, Principal
Email: jennifer.eggers@holmesstructures.com
Telephone: (503) 850-9144

MEP ENGINEER
KCL Engineering
312 NW 10TH AVE, SUITE 100
Portland, OR 97209
Contact: Stormy Shanks, Project Manager
Email: sshanks@kclengineering.com
Telephone: (971) 400-0416

CITY/STATE CONTACTS

CITY JURISDICTION: City of Beaverton
12725 SW Millikan Way
Beaverton, OR 97005
Telephone: (503) 526-2493

STATE FIRE MARSHAL: Office of the State Fire Marshal
11945 SW 70th Ave.
Tigard, OR 97223
Telephone: (503) 649-8577

LOCATION PLAN



SITE ADDRESS:
7670 SW 170th ave. Beaverton, OR 97007

APPLICABLE CODES

2019 Oregon Structural Specialty Code (OSSC)
2017 Oregon Electrical Specialty Code (OESC)
2019 Oregon Fire Code (OFC)
2019 Oregon Mechanical Specialty Code (OMSC)
2017 Oregon Plumbing Specialty Code (OPSC)
2016 ASHRAE 90.1 Energy Code
2019 Oregon Zero Energy Ready Commercial Code

PROJECT INFORMATION

Construction Type

Type - VB

Gross Building Area

BUILDING 'I' FIRST FLOOR	30,275 SF
BUILDING 'I' SECOND FLOOR	1,300 SF
BUILDING 'II'	7,000 SF
BUILDING 'III'	8,220 SF
BUILDING 'IV'	5,820 SF
TOTAL AREA	52,615 SF

Refer to Code Sheet for more information

PROPERTY DATA

Address: 7670 SW 170th Ave
Beaverton, OR 97007

Tax Lot: 1S119DD00300

Zoning: Urban Standard Density (R5)

Site Area: 9.5 Acres

PROJECT ALTERNATES

See specification section 01 23 00 for descriptions.

DEDUCTIVE ALTERNATES -
#1 - Salvage and reinstall existing ACT at Classrooms, Offices and Auxiliary Rooms. Corridor ACT to be fully replaced as outlined in the Drawings.
#2 - Existing batt insulation at Area D exterior wall assembly to remain.

ADD ALTERNATES -
#1- Sound Absorptive Panels at Music room

DEFERRED SUBMITTALS

1. MEP Equipment Bracing
2. Suspended Ceiling Bracing
3. Ladder-up at Area D roof access
4. Fire Alarm System

GENERAL HAZARD MATERIALS NOTE

Hazardous materials are present in this building. Reference the Project Manual, Appendix A - Asbestos Abatement Contractor Bid Document and Specifications for asbestos abatement and disturbance work related to the project. The scope of work will consist of the removal and disposal of asbestos containing materials (ACM) and presumed asbestos containing materials (PACM).

PROJECT DESCRIPTION

Voluntary seismic upgrades to the Cooper Mountain Elementary School in compliance with the Seismic Evaluation and Conceptual Seismic Strengthening Scheme dated November 14, 2018.

STRUCTURAL SEISMIC UPGRADES
- Strengthening of shear and cripple throughout.
- Strengthening of roof diaphragm throughout.
- Strengthening of steel columns at Area D.
- Provide positive anchorage to foundation at Area D.

NON-STRUCTURAL SEISMIC UPGRADES
- Seismic bracing of suspended ceilings throughout.
- New TPO roofing and R-30 rigid insulation at Areas B and D.
- Anchorage/bracing of mechanical systems, plumbing, fire protection piping, and electrical equipment throughout.
- Improvements to finishes at areas of seismic upgrades throughout.
- Replacement of the existing EIFS siding and exterior soffits at Area D modular building with new fiber cement panels.

SHEET INDEX KEY

AD-101

Discipline
G: General
C: Civil
L: Landscape
A: Architectural
S: Structural
M: Mechanical
P: Plumbing
E: Electrical

D: Demolition

Category
0: General Info./Site
1: Slab Edge Plans
2: Plans
3: Exterior Elevations
4: Sections
5: Vertical Circulation
6: Interior Elevations
7: Details
8: Schedules/Finishes
9: 3D Representations

Page #

SHEET INDEX

SHEET NUMBER	SHEET NAME
GENERAL	
G-000	COVER SHEET
G-001	SITE PLAN
G-002	ABBREVIATIONS, LEGENDS AND NOTES
G-003	GENERAL MOUNTING HEIGHTS AND PARTITION TYPES
G-101	CODE SUMMARY
ARCHITECTURAL	
AD-201	DEMOLITION FLOOR PLANS - AREA A, B, C NORTH
AD-202	DEMOLITION FLOOR PLANS - AREA C SOUTH
AD-203	DEMOLITION FLOOR PLANS - AREA D
AD-211	DEMOLITION CEILING PLANS - AREA A, B, C NORTH
AD-212	DEMOLITION CEILING PLAN - AREA C SOUTH
AD-213	DEMOLITION CEILING PLAN - AREA D
AD-221	DEMOLITION ROOF PLANS - AREA A, B, C NORTH
AD-223	DEMOLITION ROOF PLANS - AREA D
AD-301	DEMOLITION EXTERIOR ELEVATIONS - AREA D
A-201	FLOOR PLANS - AREA A, B, C NORTH
A-202	FLOOR PLANS - AREA C SOUTH
A-203	FLOOR PLANS - AREA D
A-211	REFLECTED CEILING PLANS - AREA A, B, C NORTH
A-212	REFLECTED CEILING PLAN - AREA C SOUTH
A-213	REFLECTED CEILING PLAN - AREA D
A-221	ROOF PLANS - AREA A, B, C NORTH
A-223	ROOF PLANS - AREA D
A-230	ENLARGED PLANS
A-231	ENLARGED PLANS
A-232	ENLARGED PLANS
A-233	ENLARGED PLANS
A-301	EXTERIOR ELEVATIONS
A-302	ENLARGED EXTERIOR ELEVATIONS - AREA D
A-401	BUILDING SECTIONS
A-411	WALL SECTIONS
A-412	WALL SECTIONS
A-601	INTERIOR ELEVATIONS
A-701	CEILING DETAILS
A-711	EXTERIOR DETAILS
A-712	EXTERIOR DETAILS
A-713	SIDING SECTION DETAILS
A-714	SIDING PLAN DETAILS
A-721	INTERIOR DETAILS
A-811	FINISH FLOOR PLANS - AREA A, B, C NORTH
A-813	FINISH FLOOR PLANS - AREA D
A-901	3D IMAGES AND ISOMETRICS
STRUCTURAL	
S-001	COVER SHEET
S-002	GENERAL NOTES
S-003	GENERAL NOTES
S-004	SPECIAL INSPECTIONS
S-101	BUILDING YEAR PLAN
S-201	FLOOR PLANS - AREA A, B, C NORTH
S-202	FLOOR PLANS - AREA C SOUTH
S-203	FLOOR PLANS - AREA D
S-221	ROOF PLANS - AREA A, B, C NORTH
S-222	ROOF PLANS - AREA C SOUTH
S-223	ROOF PLANS - AREA D
S-501	DETAILS
S-601	WOOD DETAILS
S-602	WOOD DETAILS
S-603	WOOD DETAILS
S-701	STEEL DETAILS
MECHANICAL	
M-000	MECH GENERAL NOTES AND SYMBOLS
MD-201	MECH DEMOLITION PLANS - AREA A, B, C NORTH
MD-202	MECH DEMOLITION PLANS - AREA C SOUTH
MD-203	MECH DEMOLITION PLANS - AREA D
M-201	MECH FLOOR PLANS - AREA A, B, C NORTH
M-202	MECH FLOOR PLANS - AREA C SOUTH
M-203	MECH FLOOR PLANS - AREA D
M-300	MECH DETAILS
PLUMBING	
PD-201	PLUMBING DEMOLITION FLOOR PLAN - AREA A, B, C NORTH
PD-203	PLUMBING DEMOLITION FLOOR PLAN - AREA D
P-201	PLUMBING FLOOR PLAN - AREA A, B, C NORTH
P-203	PLUMBING FLOOR PLAN - AREA D
P-300	PLUMBING DETAILS
ELECTRICAL	
E-000	ELECTRICAL GENERAL NOTES AND SYMBOLS
ED-201	ELECTRICAL DEMOLITION PLANS - AREA A, B, C NORTH
ED-202	ELECTRICAL DEMOLITION PLANS - AREA C SOUTH
ED-203	ELECTRICAL DEMOLITION PLAN - AREA D
ED-220	ELECTRICAL DEMOLITION ROOF PLANS - AREA B, D
E-201	ELECTRICAL FLOOR PLANS - AREA A, B, C NORTH
E-202	ELECTRICAL FLOOR PLAN - AREA C SOUTH
E-203	ELECTRICAL FLOOR PLAN - AREA D
E-211	LIGHTING CEILING PLAN - AREA A, B, C NORTH
E-212	LIGHTING CEILING PLAN - AREA C SOUTH
E-213	LIGHTING CEILING PLAN - AREA D
E-220	ELECTRICAL ROOF PLANS - AREA B, D
E-300	ELECTRICAL ONE-LINE DIAGRAM & SCHEDULES

BEAVERTON SCHOOL DISTRICT

COOPER MOUNTAIN ELEMENTARY
7670 SW 170th AVE
BEAVERTON, OR 97007

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

Consultants:

COOPER MOUNTAIN ELEMENTARY SCHOOL
SRGP IMPROVEMENTS
PERMIT / BID SET

REGISTERED ARCHITECT
DEBORAH K. FRANCE
PORTLAND, OR
12/31/20
#5530
STATE OF OREGON

Date:	12/04/2020
Project Number:	90060
Drawn By:	BPS
Checked By:	CSM

Revision Schedule:

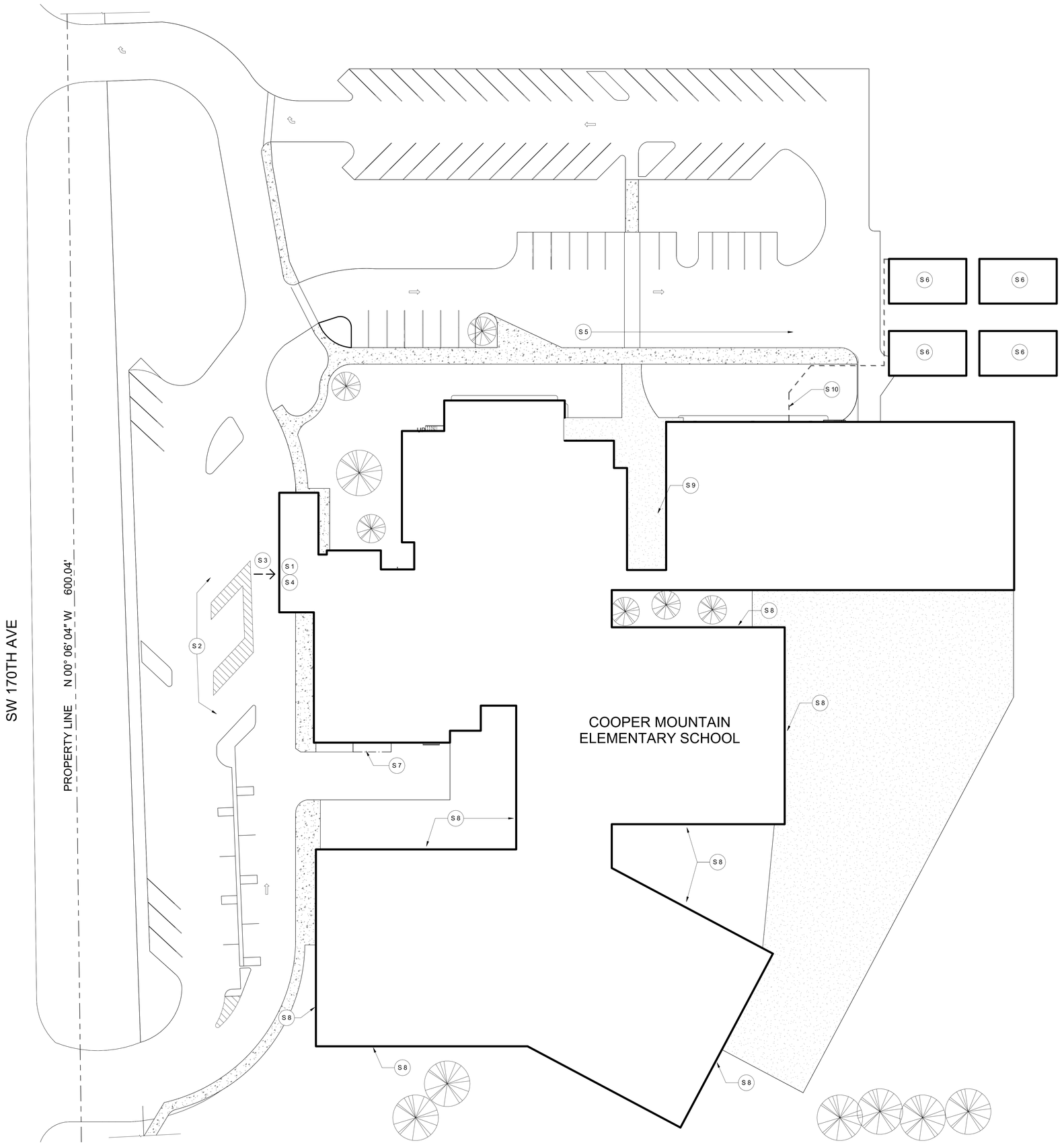
Sheet Title:
COVER SHEET

Sheet Number:
G-000

PERMIT / BID SET

12/4/2020 8:36:14 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 - SITE PLAN - **FOR REFERENCE ONLY**
1" = 20'-0"

SITE PLAN SHEET NOTES

A. Site Plan Keynotes (S#) are consistent across all Site Plan sheets. Not all keynotes are used on each sheet.
B. Coordinate all work with other disciplines; see Structural, Mechanical, Plumbing, Electrical, and other drawings for additional scope.
C. See Enlarged Site Plans, where applicable, for notes and dimensions.
D. Protect existing trees to remain.
E. All concrete slabs, sidewalks and earth to slope away form building
F. Contractor to conduct locates and field verify all (E) utilities prior to start of construction.
G. Contractor to protect all (E) utilities to all (E) buildings that are to remain in operation during construction. Contractor to inform Owner prior to any disruption of service.

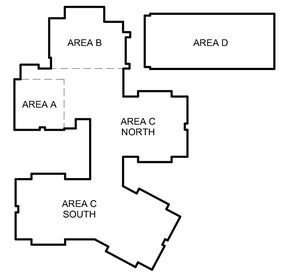
LEGEND - SITE PLAN

- CONCRETE
- ASPHALT
- PROPERTY LINE
- (E) FENCE

S # KEYNOTES - SITE PLAN

S 1	Accessible entrance.
S 2	Accessible parking.
S 3	Accessible pathway into building.
S 4	Main entrance.
S 5	Fire access drive.
S 6	Portable classrooms, not in scope.
S 7	Existing fencing and mechanical to remain; protect during construction.
S 8	Foundation improvements at exterior. Reference Architectural floor plans and Structural for anchor details and material patching requirements.
S 9	Asphalt to be demolished for improvements to the exterior wall. Reference Architectural floor plans and details for more information.
S 10	Existing fence to be protected during construction. Remove and salvage as needed to access exterior wall for construction.

KEY PLAN



BEAVERTON SCHOOL DISTRICT

COOPER MOUNTAIN ELEMENTARY

7670 SW 170th AVE
BEAVERTON, OR 97007

OhPLANNING+DESIGN, ARCHITECTURE
115 NW 1st Ave, Ste, 300
Portland, OR 97209

Consultants:

COOPER MOUNTAIN ELEMENTARY SCHOOL
SRGP IMPROVEMENTS

PERMIT / BID SET

REGISTERED ARCHITECT
DEBORAH K. FRANCE
PORTLAND, OR
12/31/20
#8539
STATE OF OREGON

Date:	12/04/2020
Project Number:	90060
Drawn By:	BPS
Checked By:	CSM

Revision Schedule:

Sheet Title:
SITE PLAN

Sheet Number:
G-001

PERMIT / BID SET

12/4/2020 8:36:20 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

ABBREVIATION	ABBREVIATION TERM
A	
AB	AIR BARRIER
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
ASST	ASSISTANT
AST	ASTRAGAL
AUTO	AUTOMATIC
AV	AUDIO VISUAL
AVG	AVERAGE
B	
B/C	BOTTOM OF CURB
BAL	BALANCE
BD	BOARD
BIT	BITUMINOUS
BLDG	BUILDING
BLK	BLOCK(ING)
BM	BENCH MARK/BEAM
BSMT	BASEMENT
BULL	BULLETIN
C	
C/C	CENTER TO CENTER
CAB	CABINET
CB	CATCH BASIN
CB	CEMENT BOARD
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	COORDINATE
CORR	CORRIDOR
CPT	CARPET
CSWK	CASEWORK
CT	CERAMIC TILE
CTR	CENTER
CTSK	COUNTERSUNK
CU	CUBIC
D	
DBL	DOUBLE
DEG	DEGREE(S)
DEMO	DEMOLISH/DEMOLITION
DEPT	DEPARTMENT
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DIV	DIVISION/DIVIDER
DN	DOWN
DR	DOOR
DS	DOWNSPOUT
DTL	DETAIL
DWG	DRAWING
DWL	DOWEL
DWR	DRAWER
E	
(E)	EXISTING
E	EAST
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
EPDM	ETHYLENE PROPYLENE DIENE MONOMER
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
FF	FINISH FLOOR ELEVATION
FF&E/FFE	FURNITURE, FIXTURES AND EQUIPMENT
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
FP	FIRE PROTECTION
FR	FIRE RESISTANT
FRAM(G)	FRAMING
FRT	FIRE RETARDANT
FS	FULL SIZE/FLOOR SINK
FT	FOOT/ FEET
FTG	FOOTING
FURR	FURRING
FWP	FABRIC WRAPPED PANEL
FXD	FIXED
G	
GA	GAUGE/GAGE
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GEN	GENERAL/GENERATOR
GL	GLASS/GLAZING/GLAZED
GLAM	GLUE LAMINATED
GND	GROUND
GWB	GYPSUM WALLBOARD
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
HO	HOLD OPEN
HORIZ	HORIZONTAL
HR	HOUR
HR	HOUR
HS	HOOK STRIP/HIGH STRENGTH
HSKG	HOUSEKEEPING
HTR	HEATER
HVAC	HEATING, VENTILATION, AIR CONDITIONING
HWY	HIGHWAY
HYD	HYDRANT
I	
ID	INSIDE DIAMETER
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) (ION)
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	LAMINATE
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
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
MR	MOISTURE RESISTANT
MT	MOUNT(ED) (ING)
MTL	METAL
MTR	METER
MUL	MULLION
N	
N	NORTH
NA	NOT APPLICABLE
NEG	NEGATIVE
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
NO, #	NUMBER
NOM	NOMINAL
NONCOM	NON COMBUSTIBLE
NRC	NOISE REDUCTION COEFFICIENT
NS	NON SLIP
NTS	NOT TO SCALE
O	
OC	ON CENTER
OD	OUTSIDE DIAMETER
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)
OPNG	OPENING
OPP	OPPOSITE
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
PLF	POUNDS PER LINEAR FOOT
PLYWD	PLYWOOD
PNEU	PNEUMATIC
PNL	PANEL
PNT	PAINT(ED)
POL	POLISH(ED)
POL	POLISH(ED)
PORT	PORTABLE
PP	PUSH PLATE
PR	PAIR/PRINTER/COMPUTER PRINTER
PREFAB	PREFABRICATE(D)
PRELIM	PRELIMINARY
PRESS	PRESSURE
PROJ	PROJECT(ION)
PROP	PROPERTY
PROT	PROTECT(IVE) (ION)
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	PRESSURE TREATED
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
QTY	QUANTITY
R	
R	RADIUS/RISER/RESILIENT
R&S	ROD & SHELF
RAD	RADIATOR
RB	RUBBER BASE/RESILIENT BASE
RCP	REFLECTED CEILING PLAN
RCWY	RACEWAY
RD	ROOF DRAIN/ROAD
REC	RECESSED
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
RTD	RATED
RTN	RETURN
S	
S	SOUTH
S&V	STAIN & VARNISH
SAB	SOUND ABSORPTION BATT
SAN	SANITARY
SC	SOLID CORE
SCHED	SCHEDULE
SCN	SCREEN
SCW	SOLID CORE WOOD
SD	SOAP DISPENSE/SOAP DISH
SD	STORM DRAIN
SECT	SECTION
SET	SETTING
SF	SQUARE FOOT
SFC	SPECIAL FLOOR COATING
SFP	SPRAYED ON FIREPROOFING
SHR	SHOWER
SHT	SHEET
SIM	SIMILAR
SK	SINK/SKETCH
SLR	SEALER
SM	SHEET METAL
SND	SANITARY NAPKIN DISPENSER
SNR	SANITARY NAPKIN RECEPTACLE
SNT	SEALANT
SP	STANDPIPE/SHEER PLATE
SP	STANDPIPE
SPEC	SPECIFICATION/SPECIFIED
SPK	SPEAKER
SPL	SPECIAL
SPNT	SPECIAL PAINT
SPR	SPRINKLER
SQ	SQUARE
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
TOB	TOP OF BEAM
TOC	TOP OF CONCRETE
TOIL	TOILET
TOP	TOPPING
TOS	TOP OF STEEL
TOS	TOP OF STEEL
TPD	TOILET PAPER DISPENSER
TR	TREAD
TRK	TRACK
TS	TUBE STEEL
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/ULTRAVIOLET
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	WEST
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/WEATHERPROOF
WR	WATER RESISTANT/WASTE RECEPTACLE
WT	WEIGHT
WWF	WELDED WIRE FABRIC
WWM	WELDED WIRE MESH
Y	
YD	YARD DRAIN

SYMBOLS LEGEND

- Room name / 101 — ROOM NAME & ROOM NUMBER
- 101 — DOOR SWING & DOOR NUMBER (SEE DOOR SCHEDULE)
- 1 / A-101 SIM — DETAIL REFERENCE
- 1 / AD1-101A SIM — BUILDING SECTION REFERENCE
- 1 / A101 SIM — WALL SECTION REFERENCE
- 1 Ref / A101 / 1 Ref — ELEVATION REFERENCE TAG
- 1 — WALL TAG, REFER TO SEE PARTITION TYPES SHEET
- KN # — PLAN SPECIFIC KEY NOTE
- NORTH ARROW (SEE CIVIL FOR TRUE NORTH)
- 1/2" / 1'-0" — SLOPE ARROW
- 1 / A-101 — 3D VIEW REFERENCE TAG
- 0' - 1" — DIMENSION TO FACE OF FRAMING, FACE OF CONCRETE, FACE OF FINISH, GRID LINE, OR AS NOTED
- North / West / East / South / Floor Finish / Base Finish — FINISH PLAN TAG
- 0 — EXISTING GRID LINE REFERENCE
- 0 — NEW CONSTRUCTION GRID LINE REFERENCE
- 1 — REVISION NUMBER
- 12'-11" / ACT-1 — CEILING TYPE & FINISHED CEILING HEIGHT
- OTS — OPEN TO STRUCTURE
- C1 — CURTAIN WALL TAG
- S1 — STOREFRONT WALL TAG
- W1 — WINDOW TAG
- P-1 — FINISH TAG
- (E)80.00' — EXISTING SPOT ELEVATION
- 80.00' — NEW SPOT ELEVATION
- Name / Elevation — ELEVATION TAG

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

COOPER MOUNTAIN ELEMENTARY
7670 SW 170th AVE
BEAVERTON, OR 97007

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

Consultants:

COOPER MOUNTAIN ELEMENTARY SCHOOL
SRGP IMPROVEMENTS

PERMIT / BID SET

REGISTERED ARCHITECT
DEBORAH K. MAGEE
PORTLAND, OR
12/31/20
#5530
STATE OF OREGON

Date: 12/04/2020
Project Number: 90060
Drawn By: SKB
Checked By: CSM

Revision Schedule:

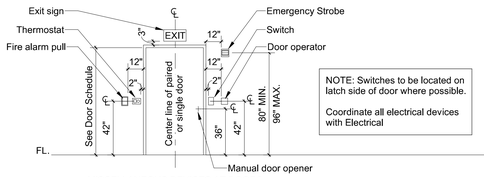
Sheet Title:
ABBREVIATIONS, LEGENDS AND NOTES

Sheet Number:
G-002

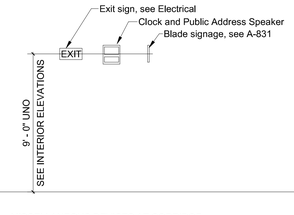
PERMIT / BID SET

12/4/2020 8:36:24 AM

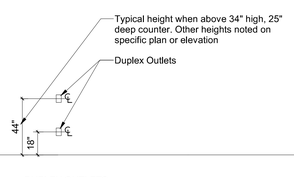
All ideas, designs, drawings, and plans set forth on these sheets are owned by and are the property of Oh planning+design, architecture. Any use, reuse, or disclosure of said plans, reproductions, ideas, designs, and/or arrangements without the written permission of Oh planning+design, architecture is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



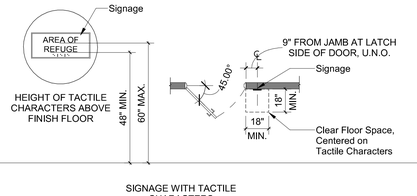
MISCELLANEOUS DEVICES AT DOORS



MISCELLANEOUS DEVICES AT CORRIDOR



DUPLEX OUTLETS

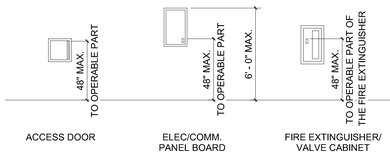


SIGNAGE WITH TACTILE CHARACTERS

ELECTRICAL SWITCHES AND ACCESSORIES

1/4" = 1'-0"

SIGNAGE



ACCESS DOOR | ELEC/COMM. PANEL BOARD | FIRE EXTINGUISHER/ VALVE CABINET

PANELS / WALL-MOUNTED EQUIPMENT CABINETS

1/4" = 1'-0"



SIDE REACH | FRONT REACH

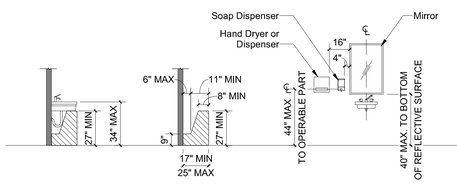
*Exception: For front and side approaches, 18" minimum and 40" maximum reach range for elements used primarily by chilren ages 5-8 years.



SIDE APPROACH | FRONT APPROACH | TURNING RADIUS | T-SHAPED TURNING SPACE

REACH RANGES AND CLEAR FLOOR SPACE

1/4" = 1'-0"

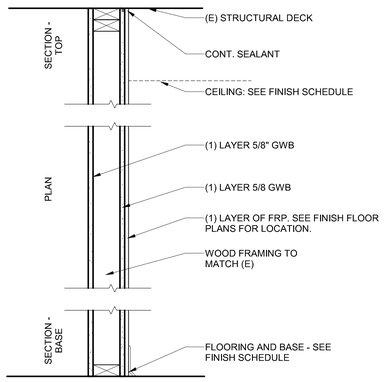


*Exception: At lavatory and sinks, a knee clearance of 24" min. and rim/counter surface of 31" max AFF shall be permitted at lavatories and sinks used primarily by children 6-12 years.

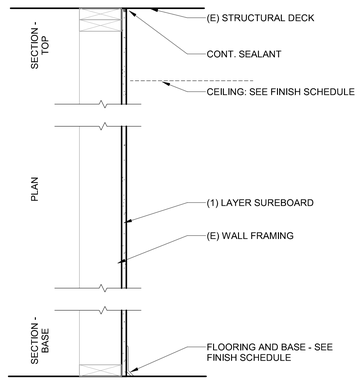
TYPICAL ACCESSIBLE LAVATORY CLEARANCE

PLUMBING FIXTURES AND ACCESSORIES

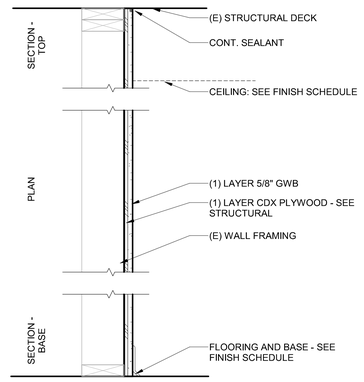
1/4" = 1'-0"



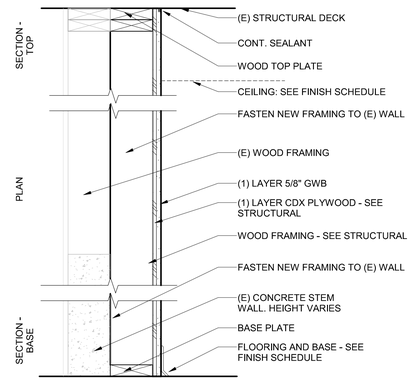
PARTITION TYPE 04



PARTITION TYPE 03



PARTITION TYPE 02



PARTITION TYPE 01

12/4/2020 8:37:59 AM

BEAVERTON SCHOOL DISTRICT

COOPER MOUNTAIN ELEMENTARY

7670 SW 170th AVE
BEAVERTON, OR 97007

OhPLANNING+DESIGN, ARCHITECTURE

115 NW 1st Ave, Ste, 300
Portland, OR 97209

Consultants:

COOPER MOUNTAIN ELEMENTARY SCHOOL
SRGP IMPROVEMENTS

PERMIT / BID SET

REGISTERED ARCHITECT
DEBORAH K. FRANCE
PORTLAND OR
12/31/20
#5539
STATE OF OREGON

Date:	12/04/2020
Project Number:	90060
Drawn By:	BPS, SKB
Checked By:	CSM

Revision Schedule:

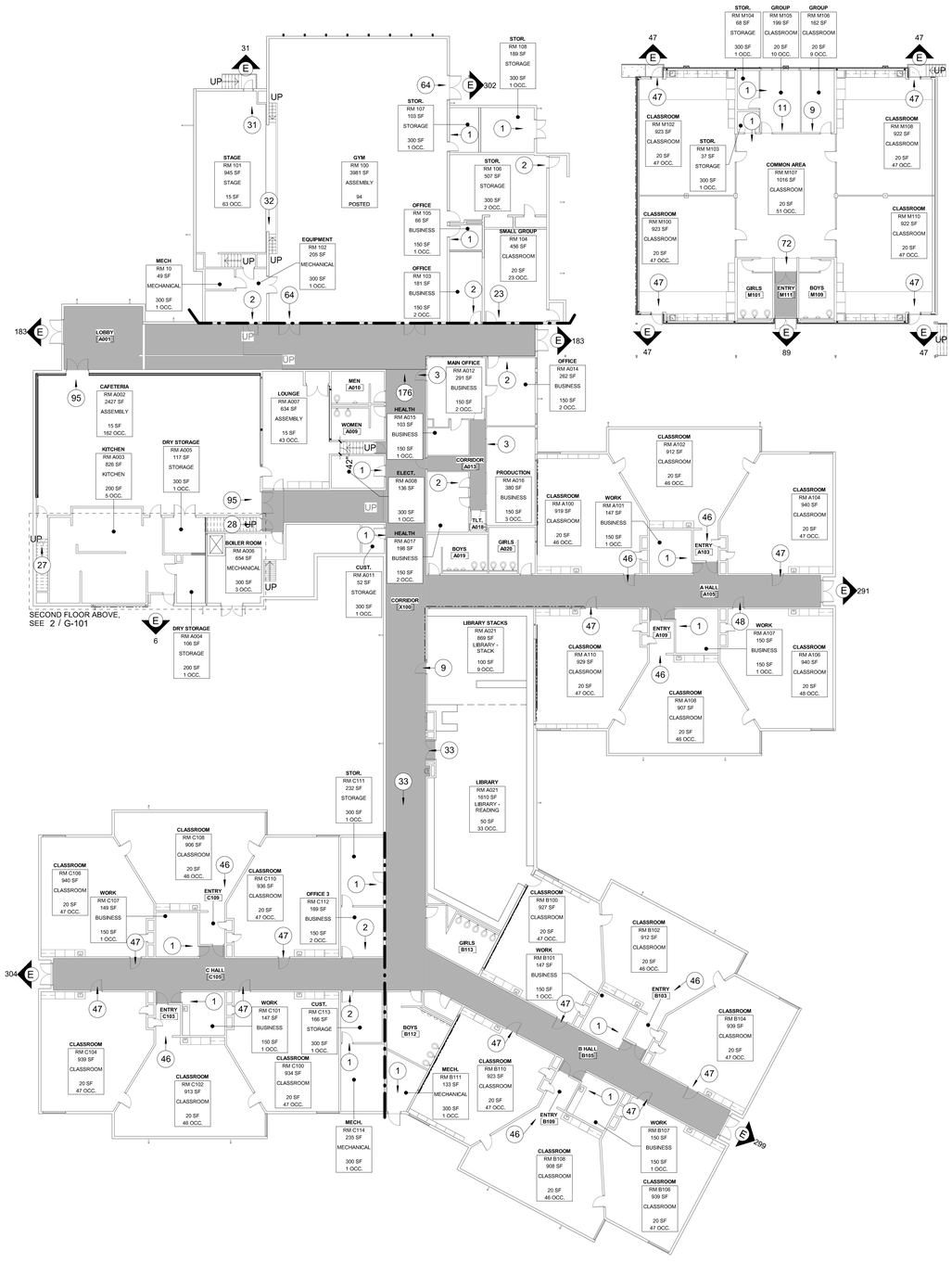
Sheet Title:

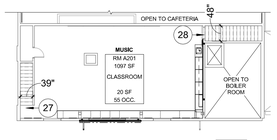
GENERAL MOUNTING HEIGHTS AND PARTITION TYPES

G-003

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.





2 SECOND FLOOR PLAN
1/16" = 1'-0"

1 FIRE & LIFE SAFETY PLAN - FIRST FLOOR
1/16" = 1'-0"

NO FIRE AND LIFE SAFETY IMPROVEMENTS WITHIN THE SCOPE OF THIS PROJECT.

Information in this Fire & Life Safety Code Sheet is based on permitted documents dated September 2003.

Sheets G-101 are for reference only. It has been prepared, in part, based on information furnished by the Owner and is based on previous permitted projects. 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.

BUILDING HEIGHT AND AREA

BUILDING 'I'				
Description	Allowed	Existing	Code Section	Comments
Base Allowable Building Area	9,500 SF	–	Table 506.2 OSSC	
Frontage Area Increase	4,370 SF	–	Section 506.3 OSSC	
Total Allowable Building Area	9,870 SF	30,275 SF		**Existing Exceeds Allowable
Allowable Building Height	40 Feet	22 Feet	504.3 OSSC	
Allowable Building Stories	1 Story	2 Stories	504.4 OSSC	**Existing Exceeds Allowable
Required Separation of Occupancy			Table 508.4 OSSC	

BUILDING 'II'				
Description	Allowed	Existing	Code Section	Comments
Base Allowable Building Area	9,500 SF	–	Table 506.2 OSSC	
Frontage Area Increase	3,500 SF	–	Section 506.3 OSSC	
Total Allowable Building Area	13,000 SF	7,000 SF		
Allowable Building Height	40 Feet	30 Feet	504.3 OSSC	
Allowable Building Stories	1 Story	1 Stories	504.4 OSSC	
Required Separation of Occupancy			Table 508.4 OSSC	

BUILDING 'III'				
Description	Allowed	Existing	Code Section	Comments
Base Allowable Building Area	9,500 SF	–	Table 506.2 OSSC	
Frontage Area Increase	4,750 SF	–	Section 506.3 OSSC	
Total Allowable Building Area	14,250 SF	8,220 SF		
Allowable Building Height	40 Feet	19 Feet	504.3 OSSC	
Allowable Building Stories	1 Story	1 Stories	504.4 OSSC	
Required Separation of Occupancy			Table 508.4 OSSC	

BUILDING 'IV'				
Description	Allowed	Existing	Code Section	Comments
Base Allowable Building Area	9,500 SF	–	Table 506.2 OSSC	
Frontage Area Increase	1,235 SF	–	Section 506.3 OSSC	
Total Allowable Building Area	10,735 SF	5,820 SF		
Allowable Building Height	40 Feet	21 Feet	504.3 OSSC	
Allowable Building Stories	1 Story	1 Stories	504.4 OSSC	
Required Separation of Occupancy			Table 508.4 OSSC	

DEFICIENCIES

Items listed below are not within this project's scope of work. These areas were identfified from site observation and/or review of existing as-built documents provided by the Owner. Because of this, the list below may not include all egress deficiencies within the entire building.

A. Building 'I' exceeds the allowable area by 20,405 sf.
B. Building 'I' exceeds the allowable building stories by 1 level.

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.

APPLICABLE CODES

2019 Oregon Structural Specialty Code (OSSC)
2017 Oregon Electrical Specialty Code (OESC)
2019 Oregon Fire Code (OFC)
2019 Oregon Mechanical Specialty Code (OMSC)
2017 Oregon Plumbing Specialty Code (OPSC)
2018 ASHRAE 90.1 Energy Code
2019 Oregon Zero Energy Ready Commercial Code

PROJECT INFORMATION

Construction Type
Type - VB

Occupancy Classification
Education, E

Project Area
52,615 SF

Gross Building Area

BUILDING 'I' FIRST FLOOR	30,275 SF
BUILDING 'I' SECOND FLOOR	1,300 SF
BUILDING 'II'	7,000 SF
BUILDING 'III'	8,220 SF
BUILDING 'IV'	5,820 SF
TOTAL AREA	52,615 SF

FIRE LIFE SAFETY LEGEND

NON-RATED EGRESS CORRIDOR

BUILDING AREA SEPARATION (ASSUMED (E) 2-HR RATING)

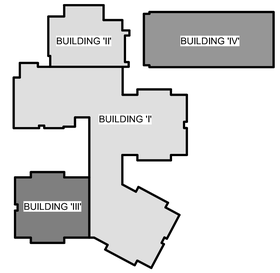
ROOM NAME
RM 101 — TOTAL ROOM AREA
999 SF — FUNCTION OF SPACE
SPACE — OCCUPANT LOAD FACTOR
XXX — TOTAL OCCUPANTS IN SPACE
XX OCC

ROOM NAME
RM 101
999 SF
SPACE
XX — NUMBER OF POSTED OCCUPANTS
POSTED

0 — OCCUPANT LOAD FROM SPACE AND TRAVEL DIRECTION

E 0 — EXIT WITH OCCUPANT LOAD

BUILDING SEPARATION KEY PLAN



BEAVERTON SCHOOL DISTRICT

COOPER MOUNTAIN ELEMENTARY

7670 SW 170th AVE
BEAVERTON, OR 97007

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

Consultants:

COOPER MOUNTAIN ELEMENTARY SCHOOL
SRGP IMPROVEMENTS

PERMIT / BID SET

REGISTERED ARCHITECT
DEBORAH K. DASHOFF
PORTLAND, OR
12/31/20
#5530
STATE OF OREGON

Date: 12/04/2020
Project Number: 90060
Drawn By: SK, CDM
Checked By: CSM

Revision Schedule:

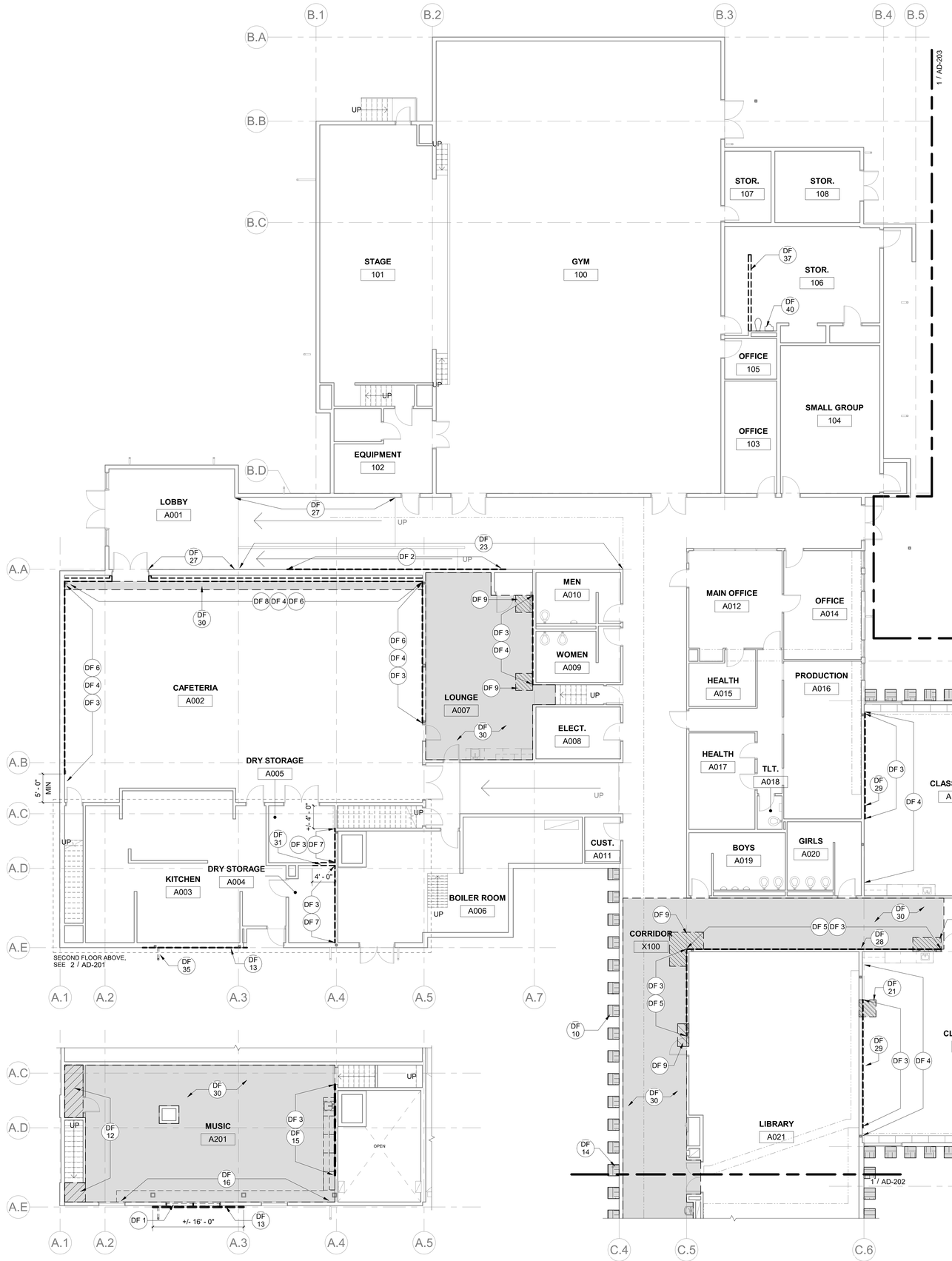
Sheet Title:
CODE SUMMARY

Sheet Number:
G-101

PERMIT / BID SET

12/4/2020 8:36:57 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 DEMOLITION FLOOR PLAN - AREA A SECOND FLOOR
1/8" = 1'-0"

1 DEMOLITION FLOOR PLAN - AREA A, B, C NORTH
1/8" = 1'-0"

LEGEND - DEMOLITION PLAN

- EXISTING TO REMAIN
- EXISTING TO BE DEMOLISHED
- EXISTING AIR TUNNELS
- REMOVE FLOOR FINISH
- REMOVE FLOOR SHEATHING AND FLOOR FINISH
- DEMOLISH EXISTING SLAB FOR CONCRETE FOOTING
- DEMOLISH EXISTING ASPHALT
- DEMOLISH EXISTING LANDSCAPE
- DEMOLISH EXISTING CONCRETE

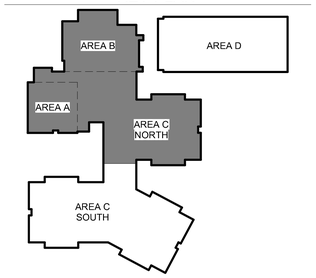
SHEET NOTES - DEMOLITION PLAN

A. All dimensions shown are to face of finish U.N.O. Do not measure drawings to determine dimensions. Large scale details take precedence over smaller scale drawings.
B. All areas of demolition shall be cleared and cleaned of all items and prepared to receive new construction, unless noted otherwise.
C. Verify limits of demolition prior to commencing work.
D. Contractor shall field verify all existing construction and related conditions prior to starting demolition or new construction.
E. Contractor to inform architect of any discrepancies within drawings or between drawings and field conditions before commencement of affected work.
F. For additional demolition information, see all consultant's drawings.
G. 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, consultants and owner.
H. Coordinate with owner regarding any work that is to occur in the ceiling or the floor below so as not to disrupt the functions of the owner's occupied area. Contractor to replace ceiling to match existing adjacent construction and finish, unless noted otherwise.
I. Removal of existing plumbing fixtures shall include capping of piping and waste lines. See plumbing drawings for more information.
J. All acoustical ceilings and related support systems to be removed shall include ceiling tiles, light fixtures, grilles, diffusers, steel support grids and ceiling mounted equipment, unless noted otherwise.
K. Contractor shall take proper measures to protect areas outside the area of work from dust, air particulates, and debris. Coordinate with Architect, Engineer and Owner to protect against infiltration of all of the above into the remaining occupied areas.
L. Demolition Work to take place prior to interior improvements. Provide such measures as necessary to prevent property damage or bodily injury.
M. All interior Patching and Repair shall occur as part of this scope of work, U.N.O. Contractor shall protect all existing exposed construction from damage resulting from or related to demolition and construction operations.
N. Contractor shall repair or replace any existing construction to remain that is damaged in the course of the work to its original condition.
O. 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.
P. Contractor is responsible for all waste removal and site clean up during performance of and at completion of the Work.

DF # KEYNOTES - DEMOLITION PLAN

DF 1 Demolish (E) window and blinds.
DF 2 Demolish gypsum board as required to install new connection between base of wall and foundation - see Structural.
DF 3 Demolish 5/8" gypsum board and veneer plaster. Demolish rubber base at entire wall.
DF 4 Remove wall mounted equipment and devices; salvage and protect for reinstallation.
DF 5 Demolish tackable wall surface.
DF 6 Demolish wall mounted tectum acoustic panels.
DF 7 Remove shelving; salvage and protect for reinstallation.
DF 8 Demolish furred wall to expose structural framing.
DF 9 Demolish concrete slab for new structural footing - see Structural.
DF 10 Pull back soil and landscaping to provide access to foundation for structural improvements, spaced equally across length of wall - see Structural for detailing.
DF 11 Demolish exterior EIFS for installation of new siding.
DF 12 Demolish (E) floor sheathing for installation of new blocking and nailing - see Structural.
DF 13 Demolish (E) cement plaster exterior finish, full height of wall between (E) control joints.
DF 14 Protect (E) downspouts in place, typ.
DF 15 Remove upper casework; salvage and protect for reinstallation. Demolish lower casework, countertop, and sink.
DF 16 Demolish plastic laminate countertop. (E) lower casework to remain.
DF 17 Unsupported concrete wall. Improvements to occur above ceiling. Protect wall mounted equipment during construction. See Structural for detailing of seismic improvements at top of concrete wall.
DF 18 Remove (E) windows; salvage and protect for reinstallation. Protect interior p-lam sill during construction.
DF 19 Demolish floor sheathing to allow access for new wall sheathing - see Structural.
DF 20 Remove carpet in classrooms and common area. Demolish floor sheathing for access to foundation work. Remove and replace floor mounted receptacles with new.
DF 21 Demolish (E) slab to allow for new reinforced concrete footing extension doweled into (E) tunnel footing - see Structural. Pull carpet back and protect during construction.
DF 22 Prepare (E) columns to receive welded plates and paint - see Structural, typ.
DF 23 Demolish protective wall covering. Protect decorative tiles above.
DF 24 Demolish 2' x 2' asphalt for access to foundation anchor installation, spaced equally across length of wall - see Structural for detailing.
DF 25 Demolish concrete for foundation anchors - see Structural for detailing.
DF 26 Demolish (E) asphalt to install new steel angles at (E) column base - see Structural, typ.
DF 27 Protect (E) decorative tile. Contractor to provide protection to mitigate vibration of wall and damage of tile.
DF 28 Remove (E) electrical panel; salvage and protect for reinstallation - see Electrical.
DF 29 Demolish center, hinged display board.
DF 30 Demolish VCT flooring.
DF 31 Demolish wall to allow for access to install adjacent continuous shear wall.
DF 32 Protect mechanical unit during construction.
DF 33 Protect operable partitions during construction, typ.
DF 34 Protect (E) IDF cabinet during construction.
DF 35 Demolish (E) downspout.
DF 36 Prepare handrails to receive new coat of paint.
DF 37 Demolish CMU wall.
DF 38 Demolish (E) 2x wood base and adjacent subsurface along the building facade. Prepare void, building facade and concrete footing to receive new moisture barrier.
DF 39 Remove (E) sidelites; salvage and protect for reinstallation.
DF 40 Demolish plumbing fixtures.
DF 41 Protect (E) fence, remove and salvage as needed to provide access to exterior wall construction.

KEY PLAN



BEAVERTON SCHOOL DISTRICT

COOPER MOUNTAIN ELEMENTARY
7670 SW 170th AVE
BEAVERTON, OR 97007

Oh PLANNING+DESIGN, ARCHITECTURE
115 NW 1st Ave, Ste, 300
Portland, OR 97209

Consultants:

COOPER MOUNTAIN ELEMENTARY SCHOOL
SRGP IMPROVEMENTS

PERMIT / BID SET

REGISTERED ARCHITECT
DEBORAH K. PRANCE
PORTLAND, OR
12/31/20
#5530
STATE OF OREGON

Date: 12/04/2020
Project Number: 90060
Drawn By: BPS
Checked By: CSM

Revision Schedule:

Sheet Title:
DEMOLITION FLOOR PLANS - AREA A, B, C NORTH

Sheet Number:
AD-201

PERMIT / BID SET

12/4/2020 8:38:39 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.

LEGEND - DEMOLITION PLAN

- EXISTING TO REMAIN
- EXISTING TO BE DEMOLISHED
- EXISTING AIR TUNNELS
- REMOVE FLOOR FINISH
- REMOVE FLOOR SHEATHING AND FLOOR FINISH
- DEMOLISH EXISTING SLAB FOR CONCRETE FOOTING
- DEMOLISH EXISTING ASPHALT
- DEMOLISH EXISTING LANDSCAPE
- DEMOLISH EXISTING CONCRETE

SHEET NOTES - DEMOLITION PLAN

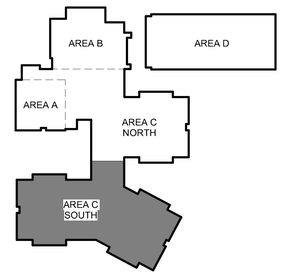
A. All dimensions shown are to face of finish U.N.O. Do not measure drawings to determine dimensions. Large scale details take precedence over smaller scale drawings.
B. All areas of demolition shall be cleared and cleaned of all items and prepared to receive new construction, unless noted otherwise.
C. Verify limits of demolition prior to commencing work.
D. Contractor shall field verify all existing construction and related conditions prior to starting demolition or new construction.
E. Contractor to inform architect of any discrepancies within drawings or between drawings and field conditions before commencement of affected work.
F. For additional demolition information, see all consultant's drawings.
G. 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, consultants and owner.
H. Coordinate with owner regarding any work that is to occur in the ceiling or the floor below so as not to disrupt the functions of the owner's occupied area. Contractor to replace ceiling to match existing adjacent construction and finish, unless noted otherwise.
I. Removal of existing plumbing fixtures shall include capping of piping and waste lines. See plumbing drawings for more information.
J. All acoustical ceilings and related support systems to be removed shall include ceiling tiles, light fixtures, grilles, diffusers, steel support grids and ceiling mounted equipment, unless noted otherwise.
K. Contractor shall take proper measures to protect areas outside the area of work from dust, air particulates, and debris. Coordinate with Architect, Engineer and Owner to protect against infiltration of all of the above into the remaining occupied areas.
L. Demolition Work to take place prior to interior improvements. Provide such measures as necessary to prevent property damage or bodily injury.
M. All Interior Patching and Repair shall occur as part of this scope of work, U.N.O. Contractor shall protect all existing exposed construction from damage resulting from or related to demolition and construction operations.
N. Contractor shall repair or replace any existing construction to remain that is damaged in the course of the work to its original condition.
O. 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.
P. Contractor is responsible for all waste removal and site clean up during performance of and at completion of the Work.

KEYNOTES - DEMOLITION PLAN

DF 1 Demolish (E) window and blinds.
DF 2 Demolish gypsum board as required to install new connection between base of wall and foundation - see Structural.
DF 3 Demolish 5/8" gypsum board and veneer plaster. Demolish rubber base at entire wall.
DF 4 Remove wall mounted equipment and devices; salvage and protect for reinstallation.
DF 5 Demolish tackable wall surface.
DF 6 Demolish wall mounted tectum acoustic panels.
DF 7 Remove shelving; salvage and protect for reinstallation.
DF 8 Demolish furred wall to expose structural framing.
DF 9 Demolish concrete slab for new structural footing - see Structural.
DF 10 Pull back soil and landscaping to provide access to foundation for structural improvements, spaced equally across length of wall - see Structural for detailing.
DF 11 Demolish exterior EIFS for installation of new siding.
DF 12 Demolish (E) floor sheathing for installation of new blocking and nailing - see Structural.
DF 13 Demolish (E) cement plaster exterior finish, full height of wall between (E) control joints.
DF 14 Protect (E) downspouts in place, typ.
DF 15 Remove upper casework; salvage and protect for reinstallation. Demolish lower casework, countertop, and sink.
DF 16 Demolish plastic laminate countertop. (E) lower casework to remain.
DF 17 Unsupported concrete wall. Improvements to occur above ceiling. Protect wall mounted equipment during construction. See Structural for detailing of seismic improvements at top of concrete wall.
DF 18 Remove (E) windows; salvage and protect for reinstallation. Protect interior p-lam sill during construction.
DF 19 Demolish floor sheathing to allow access for new wall sheathing - see Structural.
DF 20 Remove carpet in classrooms and common area. Demolish floor sheathing for access to foundation work. Remove and replace floor mounted receptacles with new.
DF 21 Demolish (E) slab to allow for new reinforced concrete footing extension doweled into (E) tunnel footing - see Structural. Pull carpet back and protect during construction.
DF 22 Prepare (E) columns to receive welded plates and paint - see Structural, typ.
DF 23 Demolish protective wall covering. Protect decorative tiles above.
DF 24 Demolish 2' x 2' asphalt for access to foundation anchor installation, spaced equally across length of wall - see Structural for detailing.
DF 25 Demolish concrete for foundation anchors - see Structural for detailing.
DF 26 Demolish (E) asphalt to install new steel angles at (E) column base - see Structural, typ.
DF 27 Protect (E) decorative tile. Contractor to provide protection to mitigate vibration of wall and damage of tile.
DF 28 Remove (E) electrical panel; salvage and protect for reinstallation - see Electrical.
DF 29 Demolish center, hinged display board.
DF 30 Demolish VCT flooring.
DF 31 Demolish wall to allow for access to install adjacent continuous shear wall.
DF 32 Protect mechanical unit during construction.
DF 33 Protect operable partitions during construction, typ.
DF 34 Protect (E) IDF cabinet during construction.
DF 35 Demolish (E) downspout.
DF 36 Prepare handrails to receive new coat of paint.
DF 37 Demolish CMU wall.
DF 38 Demolish (E) 2x wood base and adjacent subsurface along the building facade. Prepare void, building facade and concrete footing to receive new moisture barrier.
DF 39 Remove (E) sidelites; salvage and protect for reinstallation.
DF 40 Demolish plumbing fixtures.
DF 41 Protect (E) fence, remove and salvage as needed to provide access to exterior wall construction.

1 DEMOLITION FLOOR PLAN - AREA C SOUTH
1/8" = 1'-0"

KEY PLAN



BEAVERTON SCHOOL DISTRICT

COOPER MOUNTAIN ELEMENTARY

7670 SW 170th AVE
BEAVERTON, OR 97007

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

Consultants:

COOPER MOUNTAIN ELEMENTARY SCHOOL
SRGP IMPROVEMENTS

PERMIT / BID SET

REGISTERED ARCHITECT
DEBORAH K. FRANCE
PORTLAND, OR
12/31/20
#5530
STATE OF OREGON

Date: 12/04/2020
Project Number: 90060
Drawn By: BPS
Checked By: CSM

Revision Schedule:

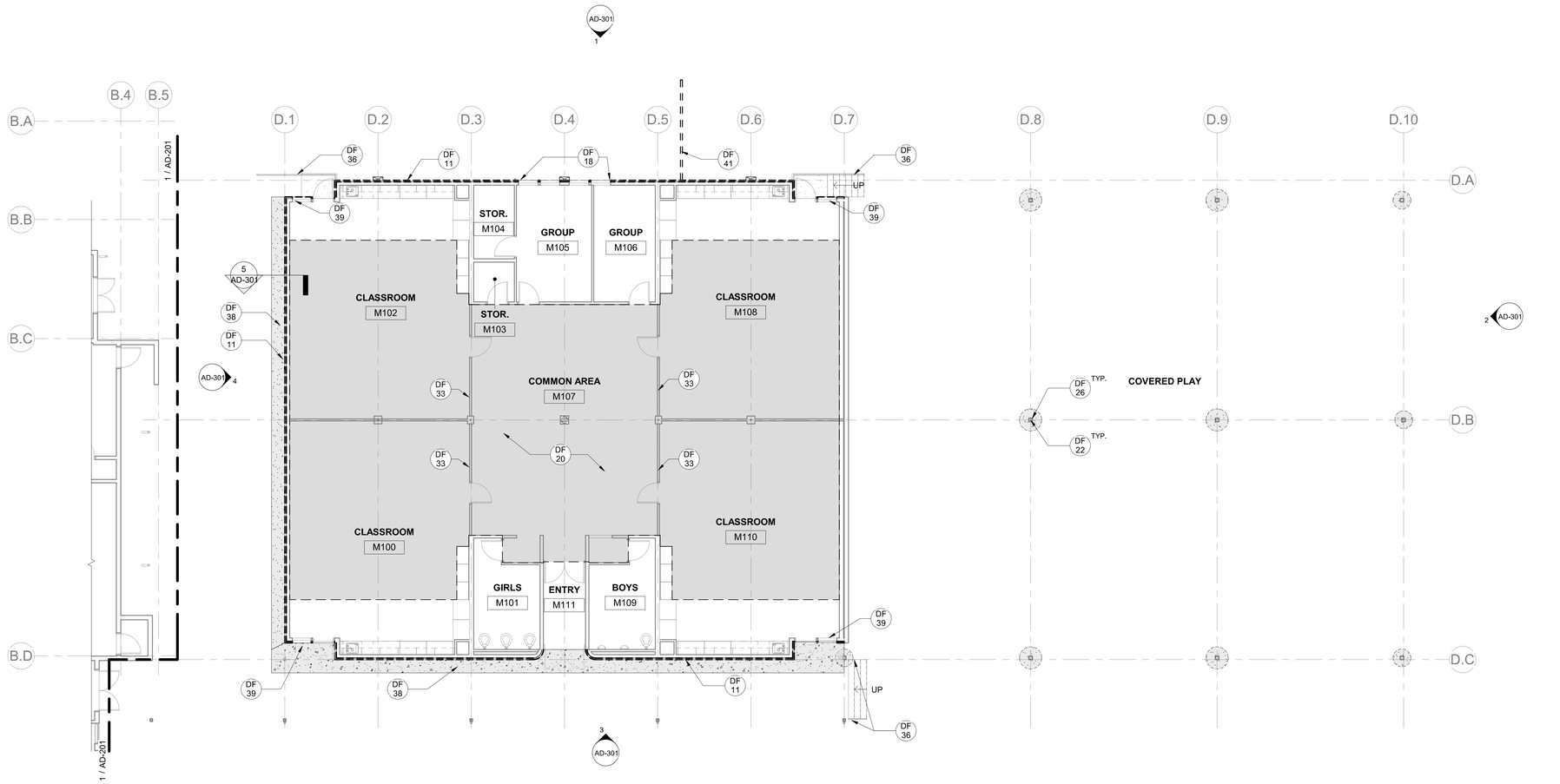
Sheet Title:
DEMOLITION FLOOR PLANS - AREA C SOUTH

Sheet Number:
AD-202

PERMIT / BID SET

12/4/2020 8:38:30 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 DEMOLITION FLOOR PLAN - AREA D
1/8" = 1'-0"

LEGEND - DEMOLITION PLAN

- EXISTING TO REMAIN
- EXISTING TO BE DEMOLISHED
- EXISTING AIR TUNNELS
- REMOVE FLOOR FINISH
- REMOVE FLOOR SHEATHING AND FLOOR FINISH
- DEMOLISH EXISTING SLAB FOR CONCRETE FOOTING
- DEMOLISH EXISTING ASPHALT
- DEMOLISH EXISTING LANDSCAPE
- DEMOLISH EXISTING CONCRETE

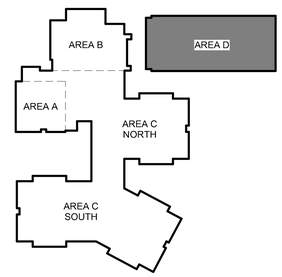
SHEET NOTES - DEMOLITION PLAN

A. All dimensions shown are to face of finish U.N.O. Do not measure drawings to determine dimensions. Large scale details take precedence over smaller scale drawings.
B. All areas of demolition shall be cleared and cleaned of all items and prepared to receive new construction, unless noted otherwise.
C. Verify limits of demolition prior to commencing work.
D. Contractor shall field verify all existing construction and related conditions prior to starting demolition or new construction.
E. Contractor to inform architect of any discrepancies within drawings or between drawings and field conditions before commencement of affected work.
F. For additional demolition information, see all consultant's drawings.
G. 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, consultants and owner.
H. Coordinate with owner regarding any work that is to occur in the ceiling or the floor below so as not to disrupt the functions of the owner's occupied area. Contractor to replace ceiling to match existing adjacent construction and finish, unless noted otherwise.
I. Removal of existing plumbing fixtures shall include capping of piping and waste lines. See plumbing drawings for more information.
J. All acoustical ceilings and related support systems to be removed shall include ceiling tiles, light fixtures, grilles, diffusers, steel support grids and ceiling mounted equipment, unless noted otherwise.
K. Contractor shall take proper measures to protect areas outside the area of work from dust, air particulates, and debris. Coordinate with Architect, Engineer and Owner to protect against infiltration of all of the above into the remaining occupied areas.
L. Demolition Work to take place prior to interior improvements. Provide such measures as necessary to prevent property damage or bodily injury.
M. All interior Patching and Repair shall occur as part of this scope of work, U.N.O. Contractor shall protect all existing exposed construction from damage resulting from or related to demolition and construction operations.
N. Contractor shall repair or replace any existing construction to remain that is damaged in the course of the work to its original condition.
O. 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.
P. Contractor is responsible for all waste removal and site clean up during performance of and at completion of the Work.

DF # KEYNOTES - DEMOLITION PLAN

DF 1 Demolish (E) window and blinds.
DF 2 Demolish gypsum board as required to install new connection between base of wall and foundation - see Structural.
DF 3 Demolish 5/8" gypsum board and veneer plaster. Demolish rubber base at entire wall.
DF 4 Remove wall mounted equipment and devices; salvage and protect for reinstallation.
DF 5 Demolish tackable wall surface.
DF 6 Demolish wall mounted tectum acoustic panels.
DF 7 Remove shelving; salvage and protect for reinstallation.
DF 8 Demolish furred wall to expose structural framing.
DF 9 Demolish concrete slab for new structural footing - see Structural.
DF 10 Pull back soil and landscaping to provide access to foundation for structural improvements, spaced equally across length of wall - see Structural for detailing.
DF 11 Demolish exterior EIFS for installation of new siding.
DF 12 Demolish (E) floor sheathing for installation of new blocking and nailing - see Structural.
DF 13 Demolish (E) cement plaster exterior finish, full height of wall between (E) control joints.
DF 14 Protect (E) downspouts in place, typ.
DF 15 Remove upper casework; salvage and protect for reinstallation. Demolish lower casework, countertop, and sink.
DF 16 Demolish plastic laminate countertop. (E) lower casework to remain.
DF 17 Unsupported concrete wall. Improvements to occur above ceiling. Protect wall mounted equipment during construction. See Structural for detailing of seismic improvements at top of concrete wall.
DF 18 Remove (E) windows; salvage and protect for reinstallation. Protect interior p-lam sill during construction.
DF 19 Demolish floor sheathing to allow access for new wall sheathing - see Structural.
DF 20 Remove carpet in classrooms and common area. Demolish floor sheathing for access to foundation work. Remove and replace floor mounted receptacles with new.
DF 21 Demolish (E) slab to allow for new reinforced concrete footing extension doweled into (E) tunnel footing - see Structural. Pull carpet back and protect during construction.
DF 22 Prepare (E) columns to receive welded plates and paint - see Structural, typ.
DF 23 Demolish protective wall covering. Protect decorative tiles above.
DF 24 Demolish 2' x 2' asphalt for access to foundation anchor installation, spaced equally across length of wall - see Structural for detailing.
DF 25 Demolish concrete for foundation anchors - see Structural for detailing.
DF 26 Demolish (E) asphalt to install new steel angles at (E) column base - see Structural, typ.
DF 27 Protect (E) decorative tile. Contractor to provide protection to mitigate vibration of wall and damage of tile.
DF 28 Remove (E) electrical panel; salvage and protect for reinstallation - see Electrical.
DF 29 Demolish center, hinged display board.
DF 30 Demolish VCT flooring.
DF 31 Demolish wall to allow for access to install adjacent continuous shear wall.
DF 32 Protect mechanical unit during construction.
DF 33 Protect operable partitions during construction, typ.
DF 34 Protect (E) IDF cabinet during construction.
DF 35 Demolish (E) downspout.
DF 36 Prepare handrails to receive new coat of paint.
DF 37 Demolish CMU wall.
DF 38 Demolish (E) 2x wood base and adjacent subsurface along the building facade. Prepare void, building facade and concrete footing to receive new moisture barrier.
DF 39 Remove (E) sidelites; salvage and protect for reinstallation.
DF 40 Demolish plumbing fixtures.
DF 41 Protect (E) fence, remove and salvage as needed to provide access to exterior wall construction.

KEY PLAN



BEAVERTON SCHOOL DISTRICT

COOPER MOUNTAIN ELEMENTARY
7670 SW 170th AVE
BEAVERTON, OR 97007

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

Consultants:

COOPER MOUNTAIN ELEMENTARY SCHOOL
SRGP IMPROVEMENTS

PERMIT / BID SET

REGISTERED ARCHITECT
DEBORAH K. FRANCE
PORTLAND, OR
12/31/20
#5539
STATE OF OREGON

Date:	12/04/2020
Project Number:	90060
Drawn By:	BPS
Checked By:	CSM

Revision Schedule:

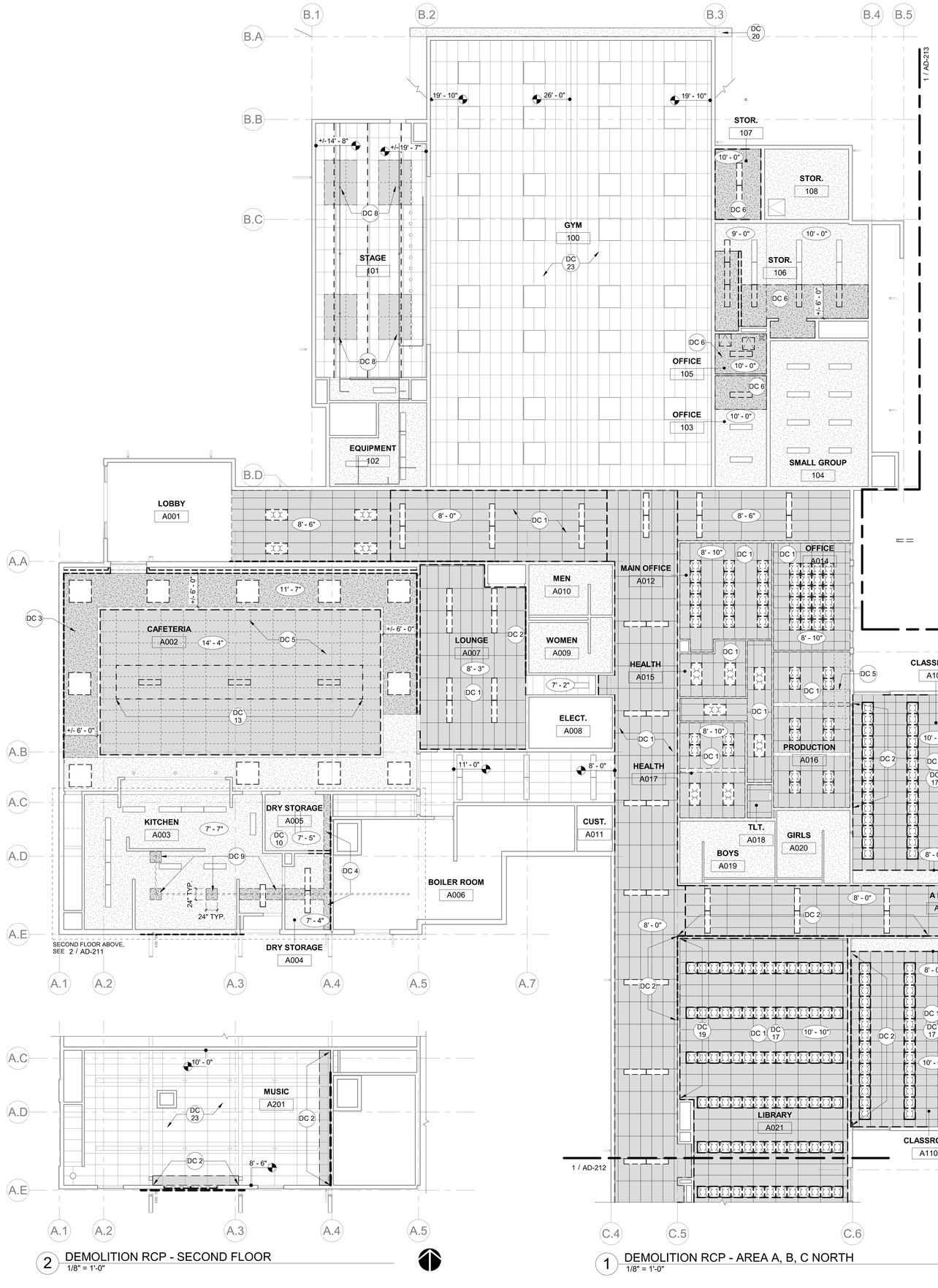
Sheet Title:
DEMOLITION FLOOR PLANS - AREA D

Sheet Number:
AD-203

PERMIT / BID SET

12/4/2020 8:38:46 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 DEMOLITION RCP - SECOND FLOOR
1/8" = 1'-0"

1 DEMOLITION RCP - AREA A, B, C NORTH
1/8" = 1'-0"

SHEET NOTES - DEMOLITION RCP

A. Keynotes are not sheet specific.
B. Coordinate all work with other disciplines; see Structural, Mechanical, Plumbing, and Electrical drawings for additional scope.
C. Remove and salvage acoustic ceiling tiles as necessary to perform new work.
D. See Sheet G-003 for shear wall types, including additional detailed demolition scope.
E. 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.

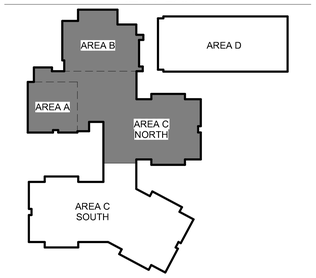
LEGEND - DEMOLITION RCP

- DEMOLISH EXISTING SHEATHING TO EXPOSE STRUCTURE FOR INSTALL OF SEISMIC BRACING PER STRUCTURAL.
- EXISTING 2X4 ACT TO REMAIN
- EXISTING GYPSUM BOARD CEILING TO REMAIN
- EXISTING 2X2 ACT TO REMAIN
- EXISTING 2X4 ACT TO BE DEMOLISHED
- EXISTING GYPSUM BOARD CEILING TO BE DEMOLISHED
- EXISTING 2X2 ACT TO BE DEMOLISHED
- EXISTING 2X4 ACT AND GRID TO BE DEMOLISHED
- REMOVE AND PROTECT 2X2 FLUORESCENT TYPICAL, SALVAGE FOR REUSE U.N.O.
- REMOVE AND PROTECT 1X4 FLUORESCENT TYPICAL, SALVAGE FOR REUSE U.N.O.
- DEMOLISH 4X4 FLUORESCENT TYPICAL
- EXISTING TO REMAIN 2X2 FLUORESCENT TYPICAL
- EXISTING TO REMAIN 1X4 FLUORESCENT TYPICAL
- EXISTING TO REMAIN 4X4 FLUORESCENT TYPICAL
- ACCESS PANEL, SALVAGE AND PROTECT FOR REUSE AND REINSTALL
- EXISTING SPRINKLER PIPING
- EXISTING STAGE LIGHTING
- EXISTING CURTAIN TRACK
- EXISTING GAS LINE

KEYNOTES - DEMOLITION RCP

DC 1 Demolish all (E) lay-in ceiling tiles to provide access to underside of roof deck. (E) grid to remain. Salvage and protect all light fixtures and other ceiling mounted devices for reinstallation. Modify grid at perimeter for new seismic gap.
DC 2 Modify ceiling grid to allow for new shear wall installation.
DC 3 Demolish suspended gypsum board soffit and associated 4x4 recessed light fixtures.
DC 4 Demolish gypsum ceiling for installation of new wall sheathing.
DC 5 Demolish all (E) lay-in ceiling tiles and grid to provide access to underside of roof deck. Salvage and protect all light fixtures and other ceiling mounted devices for reinstallation
DC 6 Demolish ceiling as required to brace top of unsupported CMU walls - see Structural. Salvage and protect all light fixtures and other ceiling mounted devices for reinstallation.
DC 7 Demolish ceiling as required to brace top of unsupported concrete wall - see Structural. Salvage and protect all light fixtures and other ceiling mounted devices for reinstallation.
DC 8 Demolish ceiling as required to seismically brace the (E) fire sprinkler piping for seismic support. Contractor to coordinate the extents of the cutting and patching with the seismic bracing installation. Salvage and protect all light fixtures and other ceiling mounted devices for reinstallation.
DC 9 Demolish ceiling to allow access to seismically brace the gas line.
DC 10 Demolish (E) ductwork as needed for installation of shear wall improvements.
DC 11 Demolish (E) soffit to allow for installation of new exterior facade. Salvage and protect all ceiling mounted devices for reinstallation, U.N.O.
DC 12 Protect (E) Light fixtures during construction. Prepare to receive protective grill
DC 13 Remove (E) ceiling-mounted artwork; salvage and protect for reinstallation.
DC 14 Remove (E) speaker; salvage and and protect for reinstallation.
DC 15 Demolish (E) light fixtures at covered walkway.
DC 16 Demolish (E) wall mounted light fixture.
DC 17 Demolish (E) batt insulation and light fixture cap above ceiling, typ.
DC 18 Remove (E) security cameras; salvage and protect for reinstallation.
DC 19 Remove (E) louvers - see Mechanical.
DC 20 Demolish (E) exterior soffit.
DC 21 Remove (E) security cameras; salvage and protect for reinstallation.
DC 22 Remove (E) surface mounted conduit. Protect and reinstall above soffit.
DC 23 Contractor to verify positive attachment of (E) ceiling grid to building structure. Notify design team if no or infrequent attachments to roof framing members are present.

KEY PLAN



BEAVERTON SCHOOL DISTRICT

COOPER MOUNTAIN ELEMENTARY
7670 SW 170th AVE
BEAVERTON, OR 97007

Oh PLANNING+DESIGN, ARCHITECTURE
115 NW 1st Ave, Ste, 300
Portland, OR 97209

Consultants:

COOPER MOUNTAIN ELEMENTARY SCHOOL
SRGP IMPROVEMENTS

PERMIT / BID SET

REGISTERED ARCHITECT
DEBORAH K. FRANKE
PORTLAND, OR
12/31/20
#5530
STATE OF OREGON

Date: 12/04/2020
Project Number: 90060
Drawn By: BPS
Checked By: CSM

Revision Schedule:

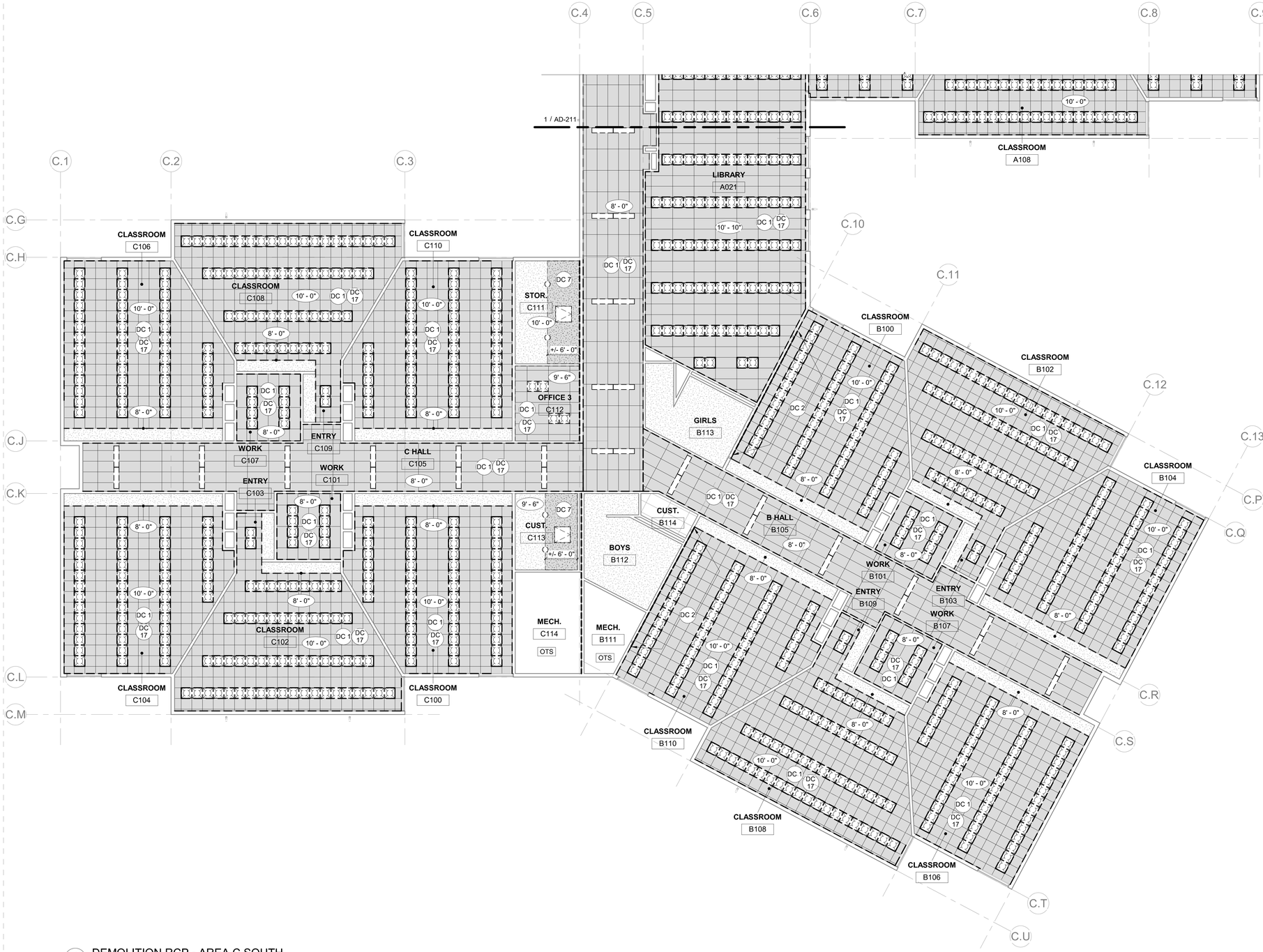
Sheet Title:
DEMOLITION CEILING PLANS - AREA A, B, C NORTH

Sheet Number:
AD-211

PERMIT / BID SET

12/4/2020 8:39:27 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 DEMOLITION RCP - AREA C SOUTH
1/8" = 1'-0"

SHEET NOTES - DEMOLITION RCP

A. Keynotes are not sheet specific.
B. Coordinate all work with other disciplines; see Structural, Mechanical, Plumbing, and Electrical drawings for additional scope.
C. Remove and salvage acoustic ceiling tiles as necessary to perform new work.
D. See Sheet G-003 for shear wall types, including additional detailed demolition scope.
E. 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.

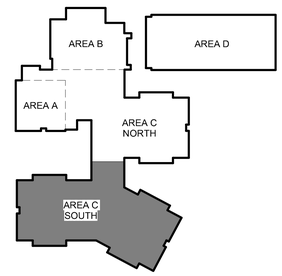
LEGEND - DEMOLITION RCP

- DEMOLISH EXISTING SHEATHING TO EXPOSE STRUCTURE FOR INSTALL OF SEISMIC BRACING PER STRUCTURAL.
- EXISTING 2X4 ACT TO REMAIN
- EXISTING GYPSUM BOARD CEILING TO REMAIN
- EXISTING 2X2 ACT TO REMAIN
- EXISTING 2X4 ACT TO BE DEMOLISHED
- EXISTING GYPSUM BOARD CEILING TO BE DEMOLISHED
- EXISTING 2X2 ACT TO BE DEMOLISHED
- EXISTING 2X4 ACT AND GRID TO BE DEMOLISHED
- REMOVE AND PROTECT 2X2 FLUORESCENT TYPICAL, SALVAGE FOR REUSE U.N.O.
- REMOVE AND PROTECT 1X4 FLUORESCENT TYPICAL, SALVAGE FOR REUSE U.N.O.
- DEMOLISH 4X4 FLUORESCENT TYPICAL
- EXISTING TO REMAIN 2X2 FLUORESCENT TYPICAL
- EXISTING TO REMAIN 1X4 FLUORESCENT TYPICAL
- EXISTING TO REMAIN 4X4 FLUORESCENT TYPICAL
- ACCESS PANEL, SALVAGE AND PROTECT FOR REUSE AND REINSTALL
- EXISTING SPRINKLER PIPING
- EXISTING STAGE LIGHTING
- EXISTING CURTAIN TRACK
- EXISTING GAS LINE

DC # KEYNOTES - DEMOLITION RCP

DC 1 Demolish all (E) lay-in ceiling tiles to provide access to underside of roof deck. (E) grid to remain. Salvage and protect all light fixtures and other ceiling mounted devices for reinstallation. Modify grid at perimeter for new seismic gap.
DC 2 Modify ceiling grid to allow for new shear wall installation.
DC 3 Demolish suspended gypsum board soffit and associated 4x4 recessed light fixtures.
DC 4 Demolish gypsum ceiling for installation of new wall sheathing.
DC 5 Demolish all (E) lay-in ceiling tiles and grid to provide access to underside of roof deck. Salvage and protect all light fixtures and other ceiling mounted devices for reinstallation
DC 6 Demolish ceiling as required to brace top of unsupported CMU walls - see Structural. Salvage and protect all light fixtures and other ceiling mounted devices for reinstallation.
DC 7 Demolish ceiling as required to brace top of unsupported concrete wall - see Structural. Salvage and protect all light fixtures and other ceiling mounted devices for reinstallation.
DC 8 Demolish ceiling as required to seismically brace the (E) fire sprinkler piping for seismic support. Contractor to coordinate the extents of the cutting and patching with the seismic bracing installation. Salvage and protect all light fixtures and other ceiling mounted devices for reinstallation.
DC 9 Demolish ceiling to allow access to seismically brace the gas line.
DC 10 Demolish (E) ductwork as needed for installation of shear wall improvements.
DC 11 Demolish (E) soffit to allow for installation of new exterior facade. Salvage and protect all ceiling mounted devices for reinstallation, U.N.O.
DC 12 Protect (E) Light fixtures during construction. Prepare to receive protective grill
DC 13 Remove (E) ceiling-mounted artwork; salvage and protect for reinstallation.
DC 14 Remove (E) speaker; salvage and and protect for reinstallation.
DC 15 Demolish (E) light fixtures at covered walkway.
DC 16 Demolish (E) wall mounted light fixture.
DC 17 Demolish (E) batt insulation and light fixture cap above ceiling, typ.
DC 18 Remove (E) security cameras; salvage and protect for reinstallation.
DC 19 Remove (E) louvers - see Mechanical.
DC 20 Demolish (E) exterior soffit.
DC 21 Remove (E) security cameras; salvage and protect for reinstallation.
DC 22 Remove (E) surface mounted conduit. Protect and reinstall above soffit.
DC 23 Contractor to verify positive attachment of (E) ceiling grid to building structure. Notify design team if no or infrequent attachments to roof framing members are present.

KEY PLAN



BEAVERTON SCHOOL DISTRICT

COOPER MOUNTAIN ELEMENTARY
7670 SW 170th AVE
BEAVERTON, OR 97007

Oh PLANNING+DESIGN, ARCHITECTURE
115 NW 1st Ave, Ste, 300
Portland, OR 97209

Consultants:

COOPER MOUNTAIN ELEMENTARY SCHOOL
SRGP IMPROVEMENTS

PERMIT / BID SET

REGISTERED ARCHITECT DEBORAH K. KRAMER PORTLAND, OR 12/31/20 #5530 STATE OF OREGON

Date: 12/04/2020
Project Number: 90060
Drawn By: BPS
Checked By: CSM

Revision Schedule:

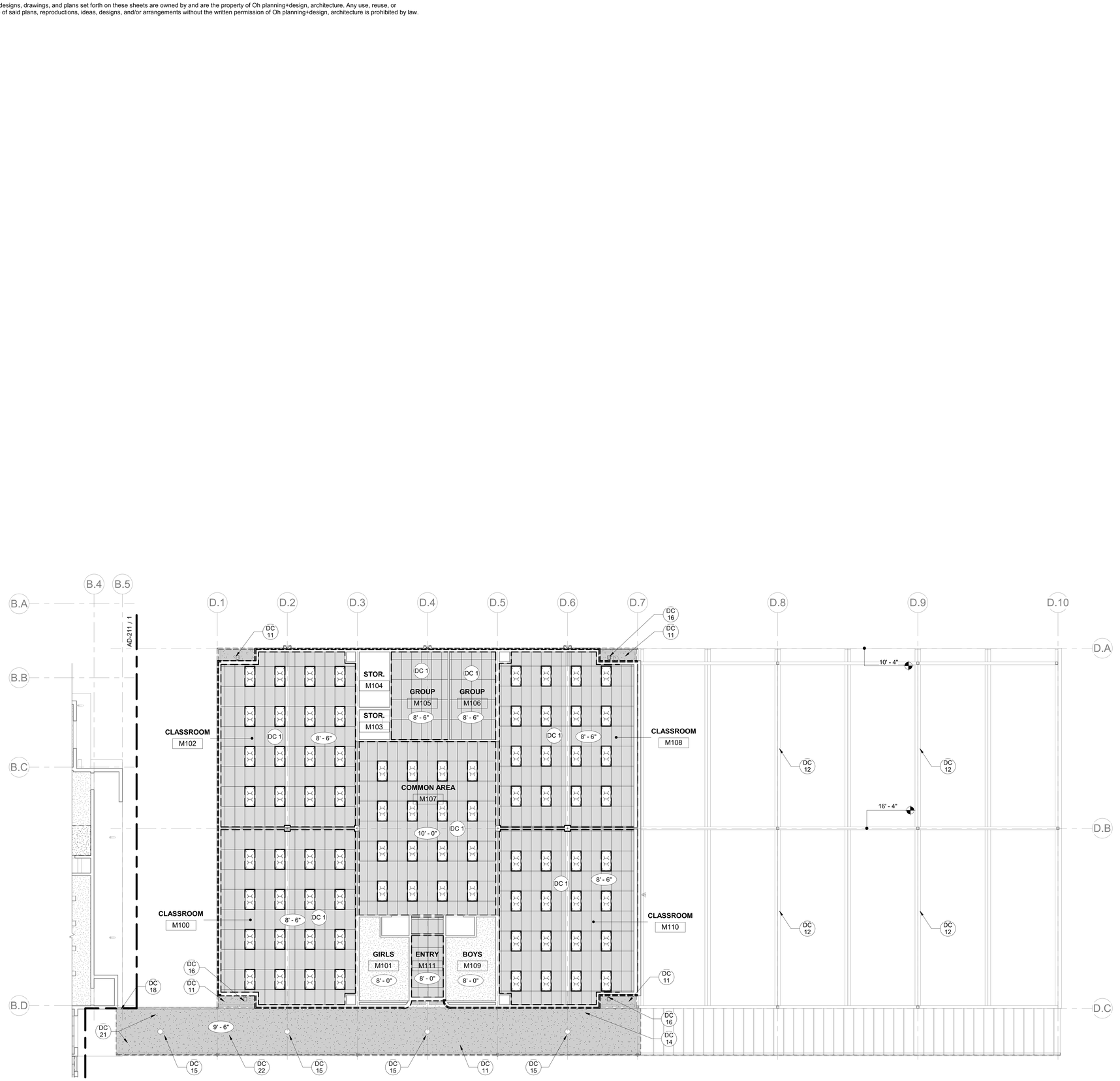
Sheet Title:
DEMOLITION CEILING PLAN - AREA C SOUTH

Sheet Number:
AD-212

PERMIT / BID SET

12/4/2020 8:39:19 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 DEMOLITION RCP - AREA D
1/8" = 1'-0"

SHEET NOTES - DEMOLITION RCP

A. Keynotes are not sheet specific.
B. Coordinate all work with other disciplines; see Structural, Mechanical, Plumbing, and Electrical drawings for additional scope.
C. Remove and salvage acoustic ceiling tiles as necessary to perform new work.
D. See Sheet G-003 for shear wall types, including additional detailed demolition scope.
E. 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.

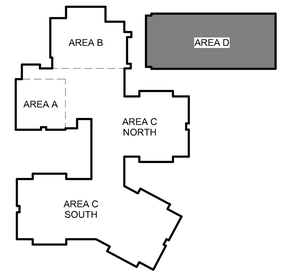
LEGEND - DEMOLITION RCP

- DEMOLISH EXISTING SHEATHING TO EXPOSE STRUCTURE FOR INSTALL OF SEISMIC BRACING PER STRUCTURAL.
- EXISTING 2X4 ACT TO REMAIN
- EXISTING GYPSUM BOARD CEILING TO REMAIN
- EXISTING 2X2 ACT TO REMAIN
- EXISTING 2X4 ACT TO BE DEMOLISHED
- EXISTING GYPSUM BOARD CEILING TO BE DEMOLISHED
- EXISTING 2X2 ACT TO BE DEMOLISHED
- EXISTING 2X4 ACT AND GRID TO BE DEMOLISHED
- REMOVE AND PROTECT 2X2 FLUORESCENT TYPICAL, SALVAGE FOR REUSE U.N.O.
- REMOVE AND PROTECT 1X4 FLUORESCENT TYPICAL, SALVAGE FOR REUSE U.N.O.
- DEMOLISH 4X4 FLUORESCENT TYPICAL
- EXISTING TO REMAIN 2X2 FLUORESCENT TYPICAL
- EXISTING TO REMAIN 1X4 FLUORESCENT TYPICAL
- EXISTING TO REMAIN 4X4 FLUORESCENT TYPICAL
- ACCESS PANEL, SALVAGE AND PROTECT FOR REUSE AND REINSTALL
- EXISTING SPRINKLER PIPING
- EXISTING STAGE LIGHTING
- EXISTING CURTAIN TRACK
- EXISTING GAS LINE

KEYNOTES - DEMOLITION RCP

DC 1 Demolish all (E) lay-in ceiling tiles to provide access to underside of roof deck. (E) grid to remain. Salvage and protect all light fixtures and other ceiling mounted devices for reinstallation. Modify grid at perimeter for new seismic gap.
DC 2 Modify ceiling grid to allow for new shear wall installation.
DC 3 Demolish suspended gypsum board soffit and associated 4x4 recessed light fixtures.
DC 4 Demolish gypsum ceiling for installation of new wall sheathing.
DC 5 Demolish all (E) lay-in ceiling tiles and grid to provide access to underside of roof deck. Salvage and protect all light fixtures and other ceiling mounted devices for reinstallation
DC 6 Demolish ceiling as required to brace top of unsupported CMU walls - see Structural. Salvage and protect all light fixtures and other ceiling mounted devices for reinstallation.
DC 7 Demolish ceiling as required to brace top of unsupported concrete wall - see Structural. Salvage and protect all light fixtures and other ceiling mounted devices for reinstallation.
DC 8 Demolish ceiling as required to seismically brace the (E) fire sprinkler piping for seismic support. Contractor to coordinate the extents of the cutting and patching with the seismic bracing installation. Salvage and protect all light fixtures and other ceiling mounted devices for reinstallation.
DC 9 Demolish ceiling to allow access to seismically brace the gas line.
DC 10 Demolish (E) ductwork as needed for installation of shear wall improvements.
DC 11 Demolish (E) soffit to allow for installation of new exterior facade. Salvage and protect all ceiling mounted devices for reinstallation, U.N.O.
DC 12 Protect (E) Light fixtures during construction. Prepare to receive protective grill
DC 13 Remove (E) ceiling-mounted artwork; salvage and protect for reinstallation.
DC 14 Remove (E) speaker; salvage and and protect for reinstallation.
DC 15 Demolish (E) light fixtures at covered walkway.
DC 16 Demolish (E) wall mounted light fixture.
DC 17 Demolish (E) batt insulation and light fixture cap above ceiling, typ.
DC 18 Remove (E) security cameras; salvage and protect for reinstallation.
DC 19 Remove (E) louvers - see Mechanical.
DC 20 Demolish (E) exterior soffit.
DC 21 Remove (E) security cameras; salvage and protect for reinstallation.
DC 22 Remove (E) surface mounted conduit. Protect and reinstall above soffit.
DC 23 Contractor to verify positive attachment of (E) ceiling grid to building structure. Notify design team if no or infrequent attachments to roof framing members are present.

KEY PLAN



BEAVERTON SCHOOL DISTRICT

COOPER MOUNTAIN ELEMENTARY

7670 SW 170th AVE
BEAVERTON, OR 97007

Oh PLANNING+DESIGN, ARCHITECTURE
115 NW 1st Ave, Ste, 300
Portland, OR 97209

Consultants:

COOPER MOUNTAIN ELEMENTARY SCHOOL
SRGP IMPROVEMENTS

PERMIT / BID SET

REGISTERED ARCHITECT
DEBORAH K. FRANCE
PORTLAND, OR
12/31/20
#5539
STATE OF OREGON

Date: 12/04/2020
Project Number: 90060
Drawn By: BPS
Checked By: CSM

Revision Schedule:

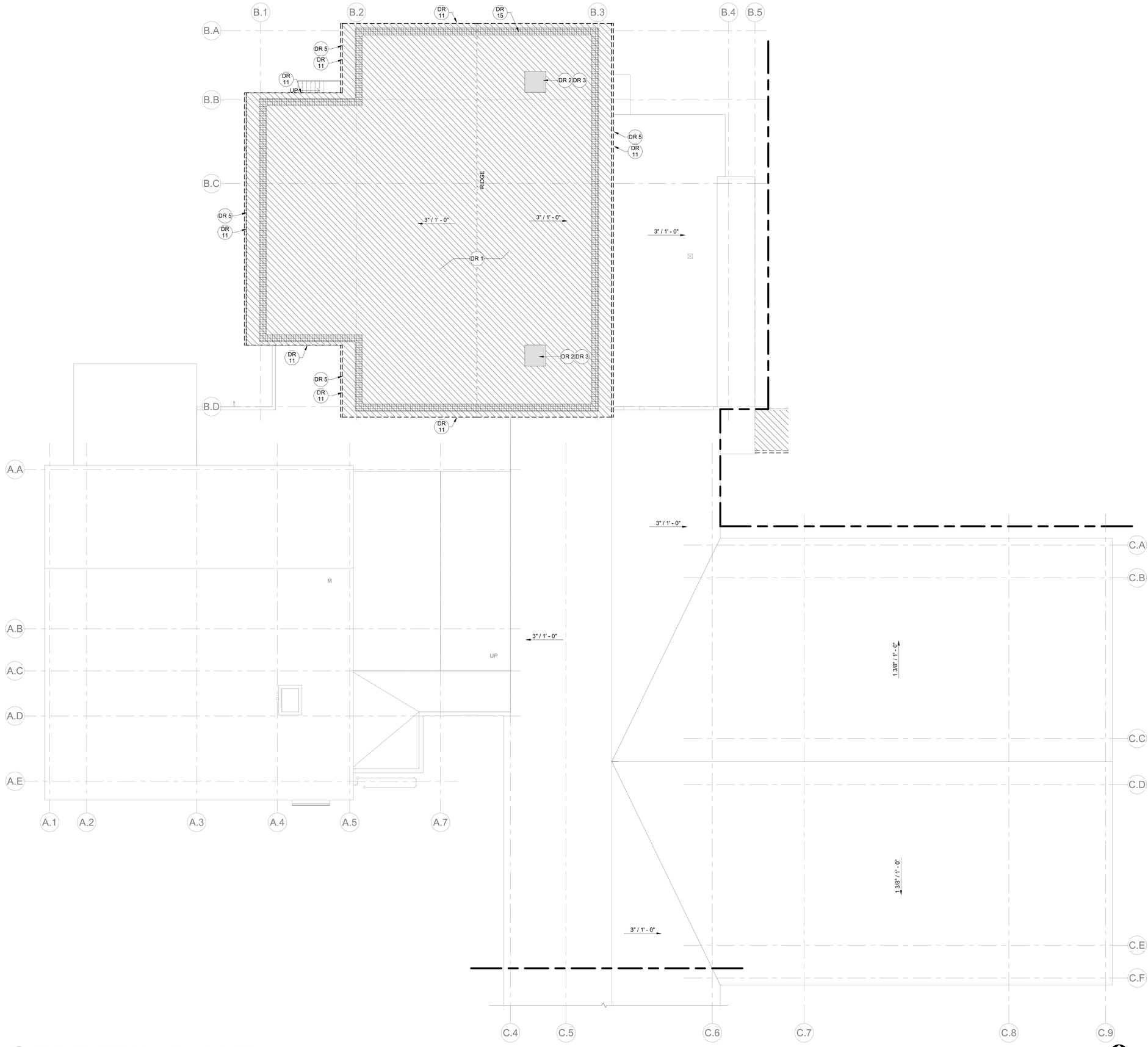
Sheet Title:
DEMOLITION CEILING PLAN - AREA D

Sheet Number:
AD-213

PERMIT / BID SET

12/4/2020 8:39:32 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 DEMOLITION ROOF PLAN - AREA A, B, C NORTH
1/8" = 1'-0"

SHEET NOTES - DEMOLITION ROOF PLAN

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 Structural, Mechanical, Plumbing, and Electrical drawings for additional scope.
D. Localized demolition as it pertains to seismic collectors, re-nailing and re-sheathing to be coordinated with Structural requirements - see Structural.
E. Protect roof from water intrusion during demolition.
F. 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.
G. Roof Layout Demolition Plan areas are diagrammatically indicated for reference only. Coordinate all demolition with other disciplines and manufacturer requirements.

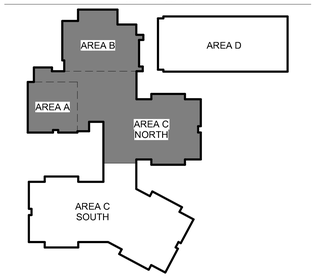
LEGEND - DEMOLITION ROOF PLAN

- DEMOLISH EXISTING GUTTER
- DEMOLISH EXISTING PARAPET FLASHING
- EXTENT OF ROOFING DEMOLITION SCOPE
- EXISTING ROOF EQUIPMENT
- DEMOLISH EXISTING PLYWOOD ROOF SHEATHING

KEYNOTES - DEMOLITION ROOF PLAN

DR # — DR 1 Demolish standing seam roof to (E) deck.
DR 2 Remove roof-top exhaust fans; salvage and protect for reinstallation.
DR 3 Demolish mechanical curb to (E) deck.
DR 4 Demolish ballast roofing to (E) deck.
DR 5 Demolish gutter.
DR 6 Demolish sheet metal parapet and intermediate ridge flashing.
DR 7 Remove roof hatch; salvage and protect for reinstallation.
DR 8 Remove rooftop mechanical unit; salvage and protect for reinstallation.
DR 9 Remove rooftop mechanical screen; salvage and protect for reinstallation.
DR 10 (E) Ladder to be removed, salvage and protect for reinstallation.
DR 11 Demolish fascia.
DR 12 Demolish through-wall flashing, leaderhead and downspout.
DR 13 Scupper, leaderhead and downspout to be protected.
DR 14 (E) Telecom cables throughout the roof. Disconnect and protect in place during construction, reconnect after construction is complete.
DR 15 Demolish plywood roof sheathing for installation of new blocking - see Structural.

KEY PLAN



BEAVERTON SCHOOL DISTRICT

COOPER MOUNTAIN ELEMENTARY

7670 SW 170th AVE
BEAVERTON, OR 97007

OhPLANNING+DESIGN, ARCHITECTURE
115 NW 1st Ave, Ste, 300
Portland, OR 97209

Consultants:

COOPER MOUNTAIN ELEMENTARY SCHOOL
SRGP IMPROVEMENTS

PERMIT / BID SET

REGISTERED ARCHITECT
DEBORAH K. KAAPE
OREGON
PORTLAND OR
12/31/20
#5530
STATE OF OREGON

Date:	12/04/2020
Project Number:	90060
Drawn By:	BPS
Checked By:	CSM

Revision Schedule:

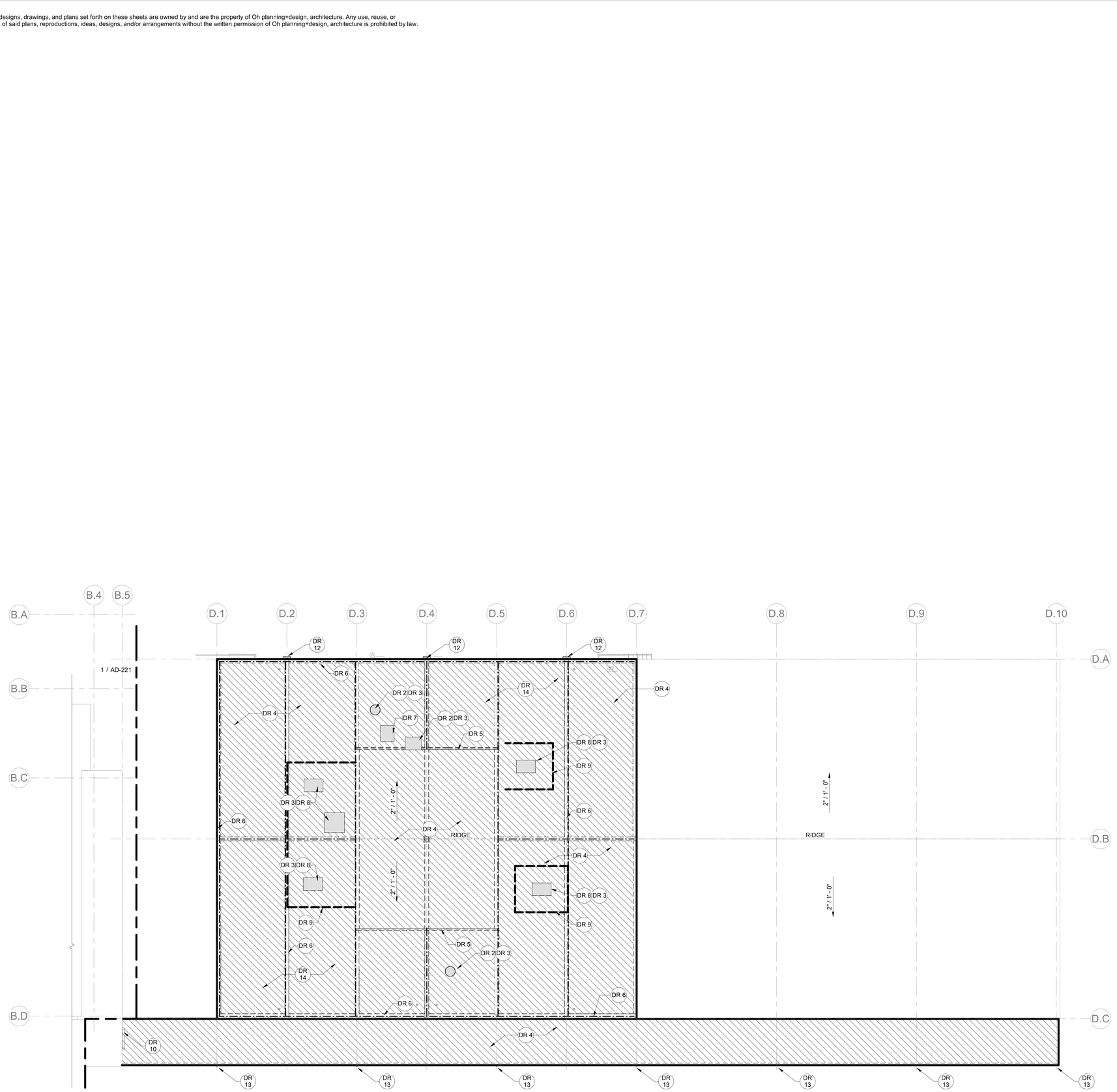
Sheet Title:
DEMOLITION ROOF PLANS - AREA A, B, C NORTH

Sheet Number:
AD-221

PERMIT / BID SET

12/4/2020 8:39:40 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.



1 DEMOLITION ROOF PLAN - AREA D
1/8" = 1'-0"

SHEET NOTES - DEMOLITION ROOF PLAN

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 Structural, Mechanical, Plumbing, and Electrical drawings for additional scope.
D. Localized demolition as it pertains to seismic collectors, re-nailing and re-sheathing to be coordinated with Structural requirements - see Structural.
E. Protect roof from water intrusion during demolition.
F. 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.
G. Roof Layout Demolition Plan areas are diagrammatically indicated for reference only. Coordinate all demolition with other disciplines and manufacturer requirements.

LEGEND - DEMOLITION ROOF PLAN

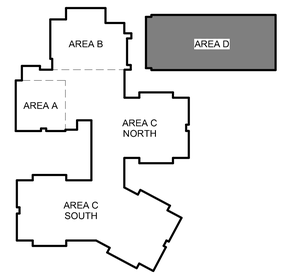
- DEMOLISH EXISTING GUTTER
- DEMOLISH EXISTING PARAPET FLASHING
- EXTENT OF ROOFING DEMOLITION SCOPE
- EXISTING ROOF EQUIPMENT
- DEMOLISH EXISTING PLYWOOD ROOF SHEATHING

KEYNOTES - DEMOLITION ROOF PLAN

DR # — DEMOLITION ROOF PLAN KEYNOTE

DR 1 Demolish standing seam roof to (E) deck.
DR 2 Remove roof-top exhaust fans; salvage and protect for reinstallation.
DR 3 Demolish mechanical curb to (E) deck.
DR 4 Demolish ballast roofing to (E) deck.
DR 5 Demolish gutter.
DR 6 Demolish sheet metal parapet and intermediate ridge flashing.
DR 7 Remove roof hatch; salvage and protect for reinstallation.
DR 8 Remove rooftop mechanical unit; salvage and protect for reinstallation.
DR 9 Remove rooftop mechanical screen; salvage and protect for reinstallation.
DR 10 (E) Ladder to be removed, salvage and protect for reinstallation.
DR 11 Demolish fascia.
DR 12 Demolish through-wall flashing, leaderhead and downspout.
DR 13 Scupper, leaderhead and downspout to be protected.
DR 14 (E) Telecom cables throughout the roof. Disconnect and protect in place during construction, reconnect after construction is complete.
DR 15 Demolish plywood roof sheathing for installation of new blocking - see Structural.

KEY PLAN



BEAVERTON SCHOOL DISTRICT

COOPER MOUNTAIN ELEMENTARY

7670 SW 170th AVE
BEAVERTON, OR 97007

OhPLANNING+DESIGN, ARCHITECTURE
115 NW 1st Ave, Ste, 300
Portland, OR 97209

Consultants:

COOPER MOUNTAIN ELEMENTARY SCHOOL
SRGP IMPROVEMENTS
PERMIT / BID SET

REGISTERED ARCHITECT
DEBORAH K. FRANCE
PORTLAND OR
12/31/20
#5530
STATE OF OREGON

Date: 12/04/2020
Project Number: 90060
Drawn By: BPS
Checked By: CSM

Revision Schedule:

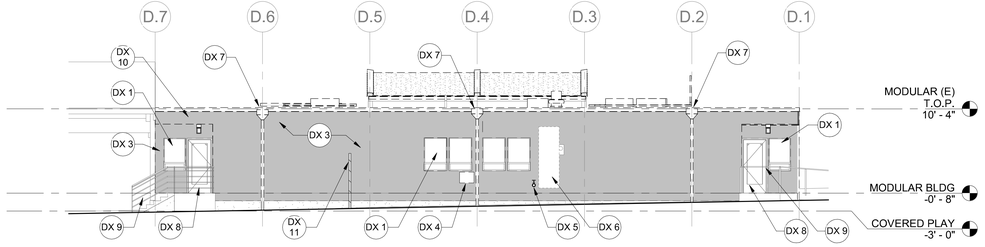
Sheet Title:
DEMOLITION ROOF PLANS - AREA D

Sheet Number:
AD-223

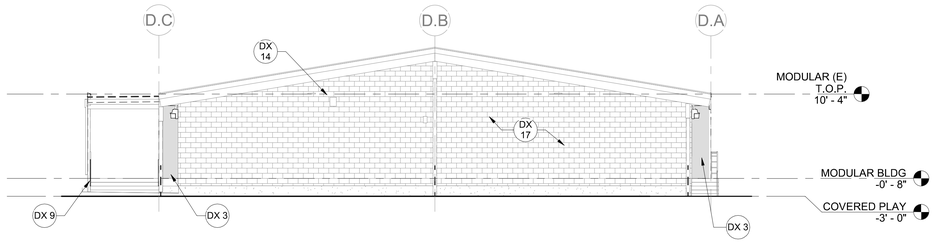
PERMIT / BID SET

12/4/2020 8:38:50 AM

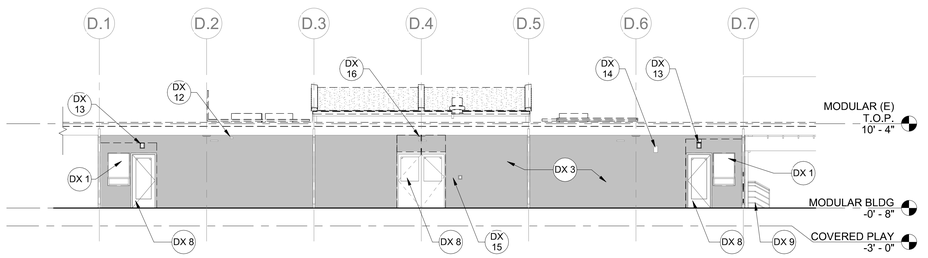
All ideas, designs, drawings, and plans set forth on these sheets are owned by and are the property of Oh planning+design, architecture. Any use, reuse, or disclosure of said plans, reproductions, ideas, designs, and/or arrangements without the written permission of Oh planning+design, architecture is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



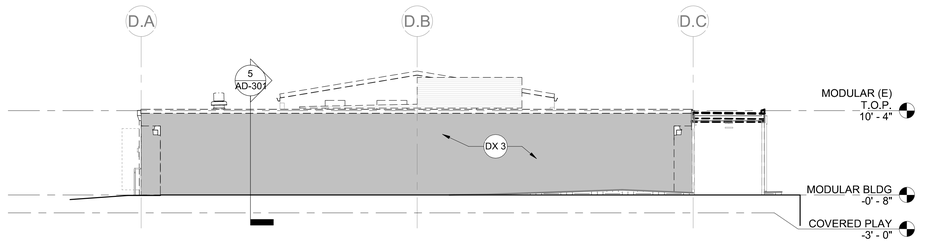
1 DEMOLITION (AREA D) - NORTH ELEV
1/8" = 1'-0"



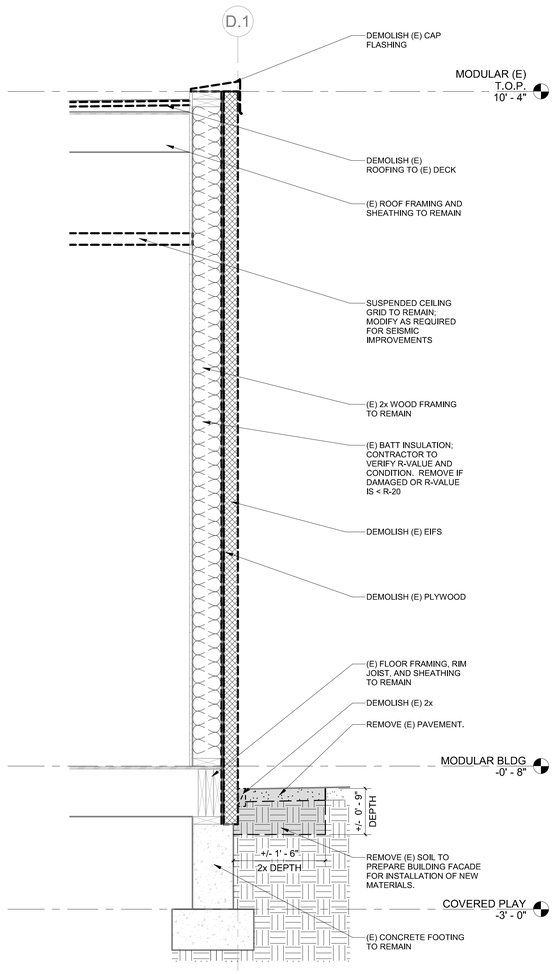
2 DEMOLITION (AREA D) - EAST ELEV
1/8" = 1'-0"



3 DEMOLITION (AREA D) - SOUTH ELEV
1/8" = 1'-0"



4 DEMOLITION (AREA D) - WEST ELEV
1/8" = 1'-0"



5 DEMO WALL SECTION - AREA D WEST WALL
1" = 1'-0"

SHEET NOTES - DEMOLITION ELEVATIONS

A. All dimensions shown are to face of finish U.N.O. Do not measure drawings to determine dimensions. Large scale details take precedence over smaller scale drawings.
B. All areas of demolition shall be cleared and cleaned of all items and prepared to receive new construction, unless noted otherwise.
C. Verify limits of demolition prior to commencing work.
D. Contractor shall field verify all existing construction and related conditions prior to starting demolition or new construction.
E. Contractor to inform architect of any discrepancies within drawings or between drawings and field conditions before commencement of affected work.
F. For additional demolition information, see all consultant's drawings.
G. 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, consultants and owner.
H. Coordinate with owner regarding any work that is to occur in the ceiling of the floor below so as not to disrupt the functions of the owner's occupied area. Contractor to replace ceiling to match existing adjacent construction and finish, unless noted otherwise.
I. Removal of existing plumbing fixtures shall include capping of piping and waste lines. See plumbing drawings for more information.
J. Contractor shall take proper measures to protect areas outside the area of work from dust, air particulates, and debris. Coordinate with Architect, Engineer and Owner to protect against infiltration of all of the above into the remaining occupied areas.
K. Contractor shall repair or replace any existing construction to remain that is damaged in the course of the work to its original condition.
L. Contractor is responsible for all waste removal and site clean up during performance of and at completion of the Work.

KEYNOTES - EXTERIOR ELEVATION

DX 1 Remove (E) windows; salvage and protect for reinstallation. Protect p-lam sill on the interior during construction.
DX 2 Remove wall mounted equipment and devices; salvage and protect for reinstallation.
DX 3 Demolish (E) EIFS.
DX 4 Remove (E) irrigation controllers; salvage and protection for reinstallation - see Electrical.
DX 5 Demolish hose bib.
DX 6 Remove (E) electrical service, CT cabinet and metering equipment; salvage and protect for reinstallation - see Electrical.
DX 7 Demolish (E) scupper and downspout.
DX 8 Prepare door for interior and exterior paint.
DX 9 (E) railing to be prepared for paint.
DX 10 Remove (E) emergency strobe light; salvage and protect for reinstallation.
DX 11 Protect (E) fence, remove and salvage as needed to provide access to exterior wall construction.
DX 12 Remove (E) J-Box; salvage and protect for reinstallation.
DX 13 Demolish (E) pendant light.
DX 14 Remove (E) speaker; salvage and protect for reinstallation.
DX 15 Remove (E) access control; salvage and protect for reinstallation.
DX 16 Remove (E) surface-mounted conduit; relocate within wall cavity.
DX 17 Prepare CMU wall to receive new paint.

BEAVERTON SCHOOL DISTRICT

COOPER MOUNTAIN ELEMENTARY
7670 SW 170th AVE
BEAVERTON, OR 97007

Oh PLANNING+DESIGN, ARCHITECTURE
115 NW 1st Ave, Ste, 300
Portland, OR 97209

Consultants:

COOPER MOUNTAIN ELEMENTARY SCHOOL
SRGP IMPROVEMENTS

PERMIT / BID SET

REGISTERED ARCHITECT
DEBORAH K. FRANCE
PORTLAND, OR
12/31/20
#5539
STATE OF OREGON

Date: 12/04/2020
Project Number: 90060
Drawn By: SKB
Checked By: CSM

Revision Schedule:

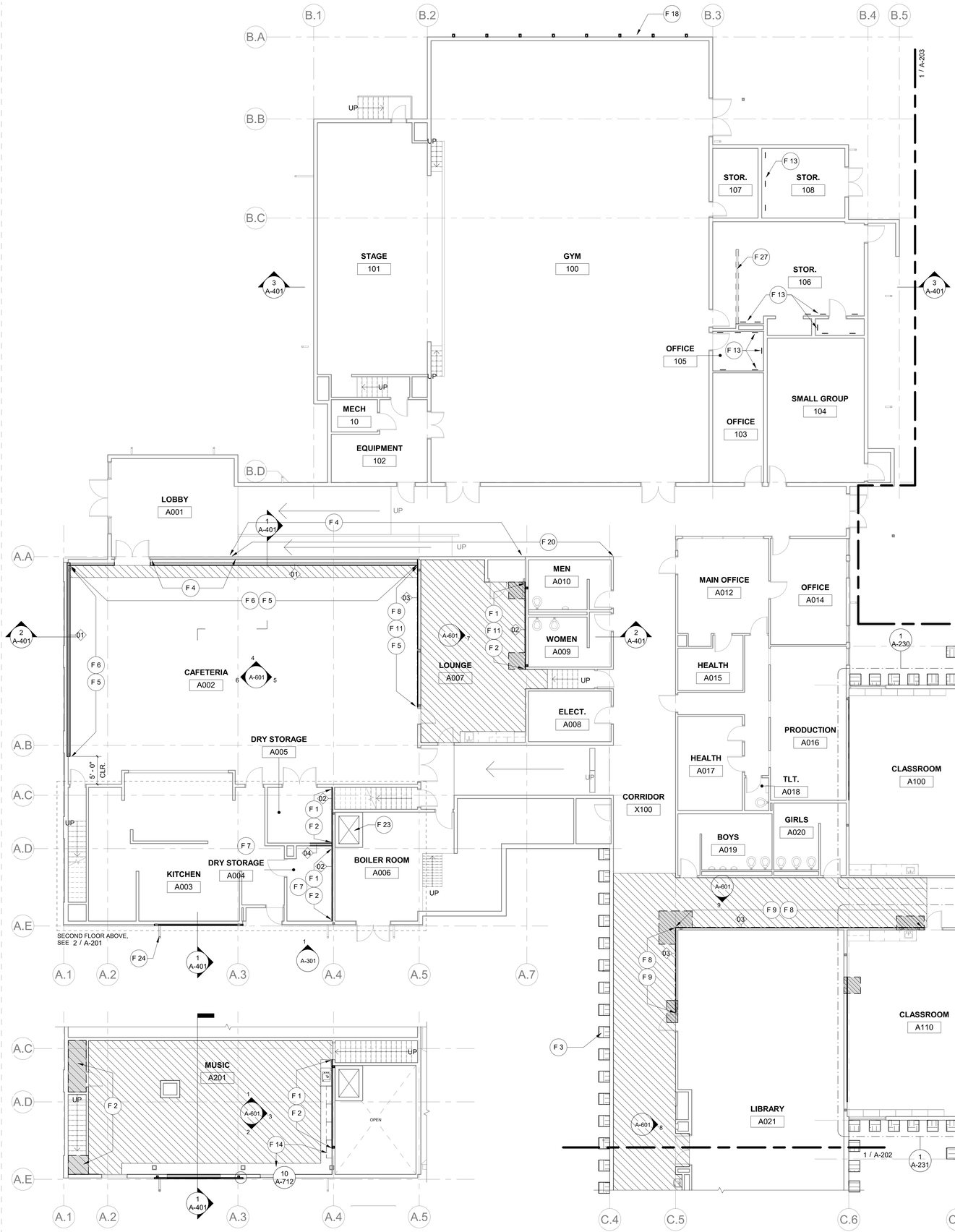
Sheet Title:
DEMOLITION EXTERIOR ELEVATIONS - AREA D

Sheet Number:
AD-301

PERMIT / BID SET

12/4/2020 8:40:08 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 SECOND FLOOR PLAN - AREA A
1/8" = 1'-0"

1 FIRST FLOOR PLAN - AREA A, B, C NORTH
1/8" = 1'-0"

12/4/2020 8:38:09 AM

SHEET NOTES - FLOOR PLAN

A. All dimensions are face of finish, U.N.O.
B. All dimensions to be field verified.
C. Floor Plan Keynotes (F#) are consistent across all Floor Plan sheets. Not all keynotes are used on each sheet.
D. See Enlarged Plans, where applicable, for wall types, notes, and dimensions.
E. Coordinate all work with other trades.

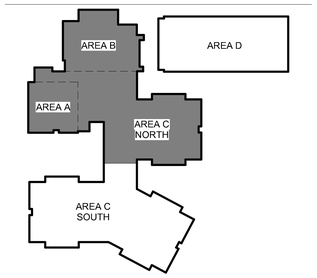
LEGEND - FLOOR PLAN

- EXISTING WALL TO REMAIN
- SEISMIC BRACE WALL
- NEW SHEATHING ON EXISTING WALL
- 1 WALL TAG, SEE PARTITION TYPES SHEET G-003
- NEW FLOORING, SEE FINISH FLOOR PLAN
- NEW CONCRETE FOOTING - PATCH AND REPAIR FLOORING
- NEW PLYWOOD SHEATHING, PATCH AND REPAIR FLOORING FINISH
- PATCH AND REPAIR ASPHALT WHERE NECESSARY
- PATCH AND REPAIR LANDSCAPE WHERE NECESSARY
- PATCH AND REPAIR CONCRETE WHERE NECESSARY

F # KEYNOTES - FLOOR PLAN

F 1 Install new 5/8" gypsum board over new plywood sheathing - see Structural. Install new rubber base and paint wall to match (E).
F 2 Install new 1/2" plywood sheathing - see Structural.
F 3 Install new steel plates and anchors at base of wall - see Structural. Paint with high-performance coating to match (E) adjacent wall. Patch and repair soil and landscaping where necessary.
F 4 Install new steel plates and anchors at wall base - see Structural. Patch and repair gypsum finish and paint to match (E).
F 5 Install new wall mounted acoustic panels.
F 6 New full-height 2x wood framed wall. New rubber base. Paint to match (E).
F 7 Install new full-height wall protection to match (E).
F 8 Install new Sureboard sheathing panels - see Structural. Provide new rubber base and paint wall to match (E) adjacent walls.
F 9 Install new wall protection wainscot to match (E).
F 10 Patch and repair slab at area of new footing work - see Structural. Roll existing carpet back over floor and reinstall with new adhesive.
F 11 Reinstall all salvaged wall-mounted equipment and devices. Plugmold to remain surface mounted; all other devices to be recessed.
F 12 Install new steel plates and anchors at base of wall - see Structural. Paint with high-performance coating to match existing adjacent wall. Patch and repair concrete where necessary.
F 13 New angles at CMU wall base - see Structural. Paint to match (E) wall. Grind all edges to avoid protruding objects.
F 14 Reinstall (E) salvaged upper cabinets. New countertop and sink. New base cabinets at east wall. Paint all new and (E) casework to match.
F 15 Install new fiber cement panel rainscreen siding over new plywood sheathing. Prepare void, building facade and concrete footing to receive replacement materials.
F 16 Install new plywood sheathing at areas of foundation access. Provide new R-30 batt insulation at underside of entire floor. Install new carpet throughout.
F 17 Paint (E) columns with new high performance coating, typ.
F 18 New HSS strongbacks on exterior side of north wall. HSS to be full height and bolted to (E) concrete tile wall - see Structural. Paint with high-performance coating to match (E) exterior wall.
F 19 Install new steel plates and anchors at base of wall - see Structural. Paint with high-performance coating to match (E) adjacent wall. Patch and repair asphalt where necessary, replace in kind.
F 20 New protective wall covering, to match (E) adjacent walls.
F 21 Paint (E) CMU wall.
F 22 Seismic improvements above (E) concrete wall - see Structural for details.
F 23 New bracing at (E) chimney - see Structural.
F 24 Install new downspout and reconnect to (E) pipe.
F 25 Repaint (E) handrails.
F 26 Repaint (E) door and frame.
F 27 Patch and repair concrete flooring.
F 28 Patch asphalt around new steel angles at (E) column bases - see Structural, typ.
F 30 (E) slab and mechanical unit. Protect during construction.
F 31 New floor mounted receptacle box; see specifications.

KEY PLAN



BEAVERTON SCHOOL DISTRICT

COOPER MOUNTAIN ELEMENTARY

7670 SW 170th AVE
BEAVERTON, OR 97007

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

Consultants:

COOPER MOUNTAIN ELEMENTARY SCHOOL
SRGP IMPROVEMENTS

PERMIT / BID SET

REGISTERED ARCHITECT
DEBORAH K. PLANTE
PORTLAND, OR
12/31/20
#5530
STATE OF OREGON

Date: 12/04/2020
Project Number: 90060
Drawn By: BPS
Checked By: CSM

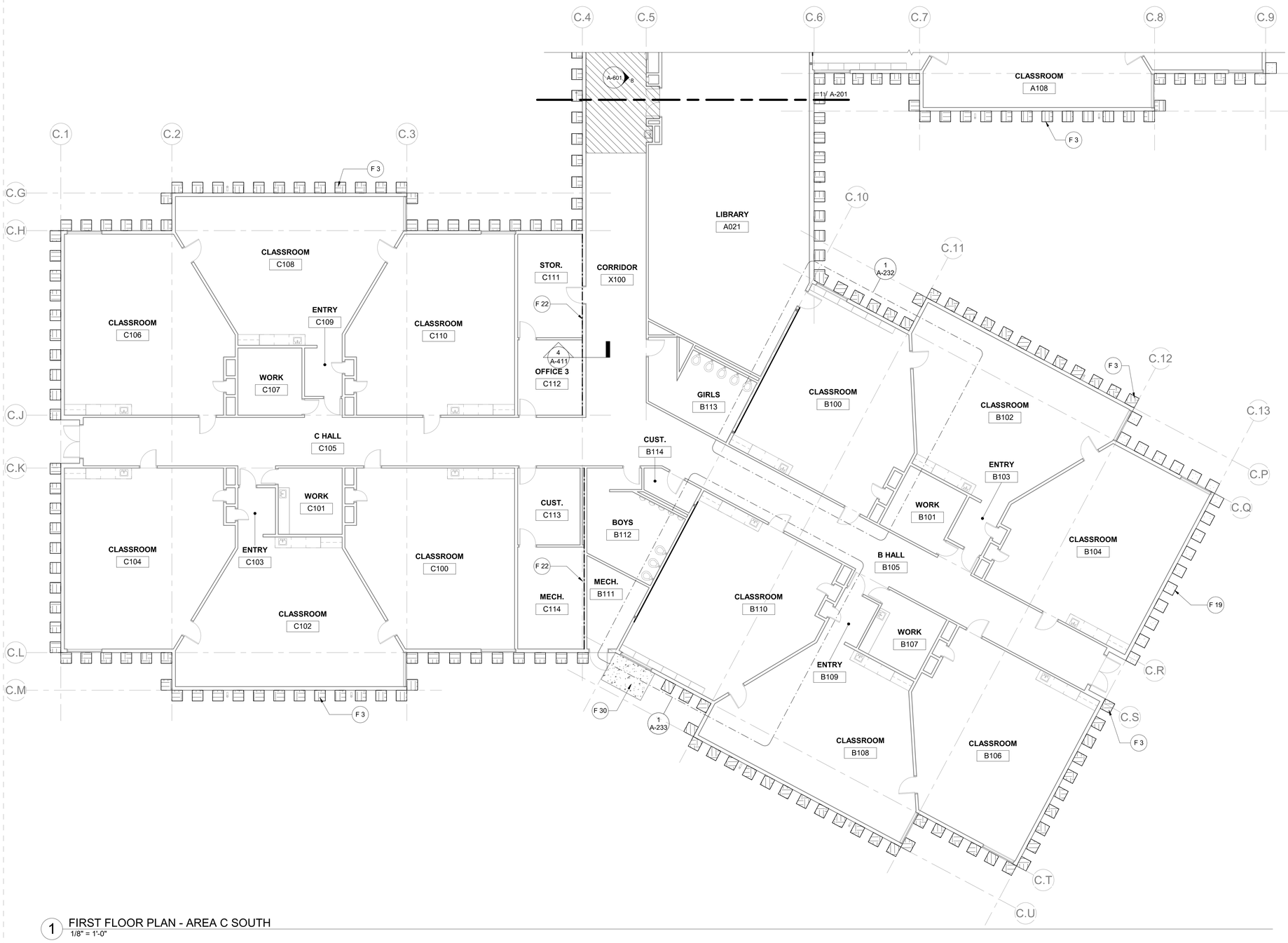
Revision Schedule:

Sheet Title:
FLOOR PLANS - AREA A, B, C NORTH

Sheet Number:
A-201

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 FIRST FLOOR PLAN - AREA C SOUTH
1/8" = 1'-0"

SHEET NOTES - FLOOR PLAN

A. All dimensions are face of finish, U.N.O.
B. All dimensions to be field verified.
C. Floor Plan Keynotes (F#) are consistent across all Floor Plan sheets. Not all keynotes are used on each sheet.
D. See Enlarged Plans, where applicable, for wall types, notes, and dimensions.
E. Coordinate all work with other trades.

LEGEND - FLOOR PLAN

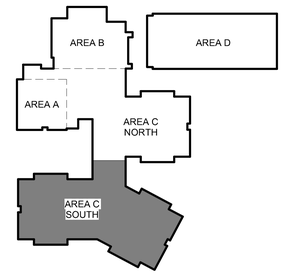
- EXISTING WALL TO REMAIN
- SEISMIC BRACE WALL
- NEW SHEATHING ON EXISTING WALL
- 1 WALL TAG, SEE PARTITION TYPES SHEET G-003
- NEW FLOORING, SEE FINISH FLOOR PLAN
- NEW CONCRETE FOOTING - PATCH AND REPAIR FLOORING
- NEW PLYWOOD SHEATHING, PATCH AND REPAIR FLOORING FINISH
- PATCH AND REPAIR ASPHALT WHERE NECESSARY
- PATCH AND REPAIR LANDSCAPE WHERE NECESSARY
- PATCH AND REPAIR CONCRETE WHERE NECESSARY

KEYNOTES - FLOOR PLAN

F # KEYNOTES - FLOOR PLAN

F 1 Install new 5/8" gypsum board over new plywood sheathing - see Structural. Install new rubber base and paint wall to match (E).
F 2 Install new 1/2" plywood sheathing - see Structural.
F 3 Install new steel plates and anchors at base of wall - see Structural. Paint with high-performance coating to match (E) adjacent wall. Patch and repair soil and landscaping where necessary.
F 4 Install new steel plates and anchors at wall base - see Structural. Patch and repair gypsum finish and paint to match (E).
F 5 Install new wall mounted acoustic panels.
F 6 New full-height 2x wood framed wall. New rubber base. Paint to match (E).
F 7 Install new full-height wall protection to match (E).
F 8 Install new Sureboard sheathing panels - see Structural. Provide new rubber base and paint wall to match (E) adjacent walls.
F 9 Install new wall protection wainscot to match (E).
F 10 Patch and repair slab at area of new footing work - see Structural. Roll existing carpet back over floor and reinstall with new adhesive.
F 11 Reinstall all salvaged wall-mounted equipment and devices. Plugmold to remain surface mounted; all other devices to be recessed.
F 12 Install new steel plates and anchors at base of wall - see Structural. Paint with high-performance coating to match existing adjacent wall. Patch and repair concrete where necessary.
F 13 New angles at CMU wall base - see Structural. Paint to match (E) wall. Grind all edges to avoid protruding objects.
F 14 Reinstall (E) salvaged upper cabinets. New countertop and sink. New base cabinets at east wall. Paint all new and (E) casework to match.
F 15 Install new fiber cement panel rainscreen siding over new plywood sheathing. Prepare void, building facade and concrete footing to receive replacement materials.
F 16 Install new plywood sheathing at areas of foundation access. Provide new R-30 batt insulation at underside of entire floor. Install new carpet throughout.
F 17 Paint (E) columns with new high performance coating, typ.
F 18 New HSS strongbacks on exterior side of north wall. HSS to be full height and bolted to (E) concrete tile wall - see Structural. Paint with high-performance coating to match (E) exterior wall.
F 19 Install new steel plates and anchors at base of wall - see Structural. Paint with high-performance coating to match (E) adjacent wall. Patch and repair asphalt where necessary, replace in kind.
F 20 New protective wall covering, to match (E) adjacent walls.
F 21 Paint (E) CMU wall.
F 22 Seismic improvements above (E) concrete wall - see Structural for details.
F 23 New bracing at (E) chimney - see Structural.
F 24 Install new downspout and reconnect to (E) pipe.
F 25 Repaint (E) handrails.
F 26 Repaint (E) door and frame.
F 27 Patch and repair concrete flooring.
F 28 Patch asphalt around new steel angles at (E) column bases - see Structural, typ.
F 30 (E) slab and mechanical unit. Protect during construction.
F 31 New floor mounted receptacle box; see specifications.

KEY PLAN



BEAVERTON SCHOOL DISTRICT

COOPER MOUNTAIN ELEMENTARY

7670 SW 170th AVE
BEAVERTON, OR 97007

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

Consultants:

COOPER MOUNTAIN ELEMENTARY SCHOOL
SRGP IMPROVEMENTS

PERMIT / BID SET

REGISTERED ARCHITECT
DEBORAH K. FRANCE
PORTLAND, OR
12/31/20
#5530
STATE OF OREGON

Date: 12/04/2020
Project Number: 90060
Drawn By: BPS
Checked By: CSM

Revision Schedule:

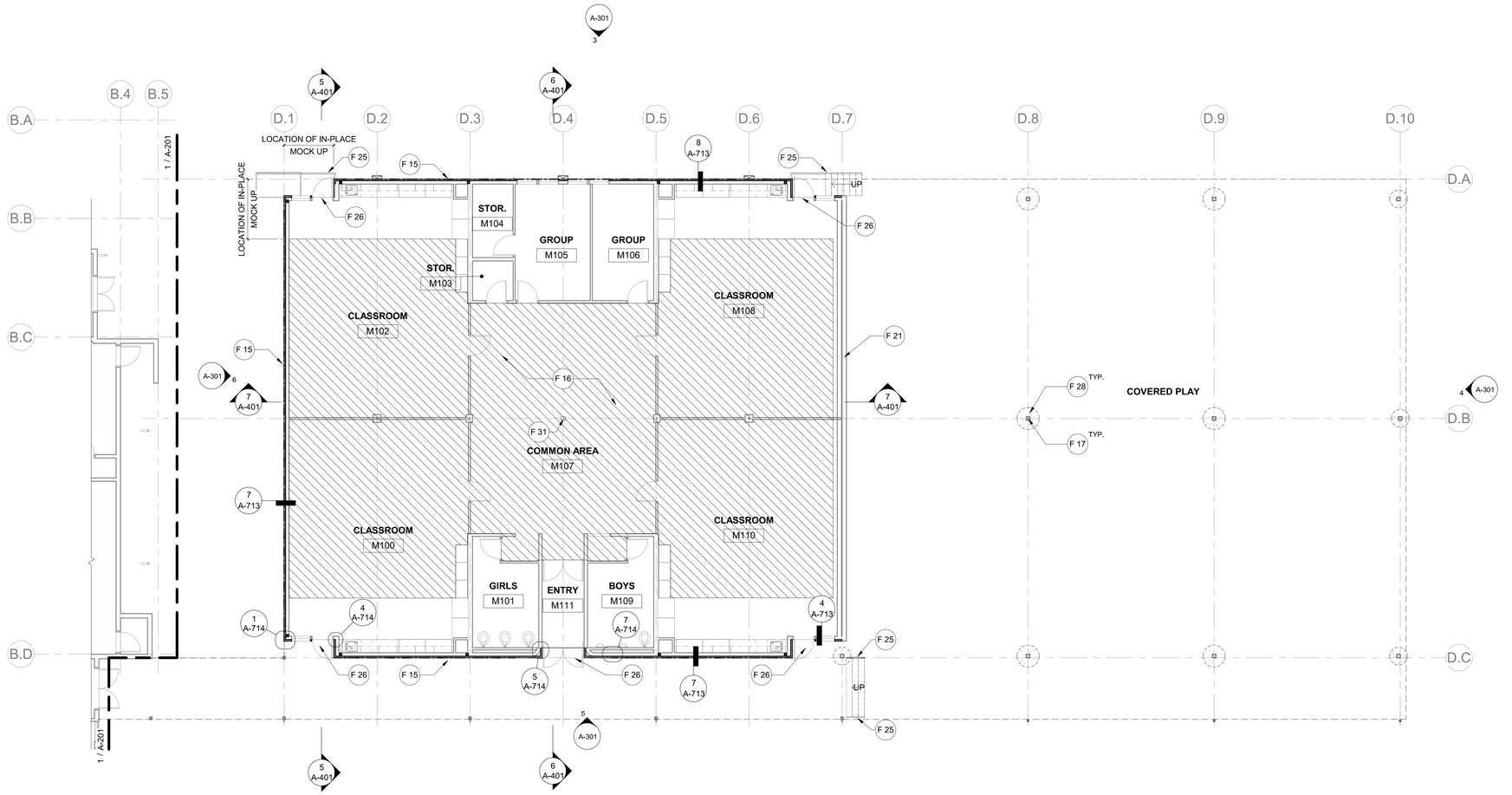
Sheet Title:
FLOOR PLANS - AREA C SOUTH

Sheet Number:
A-202

PERMIT / BID SET

12/4/2020 8:38:18 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 PLAN - AREA D
1/8" = 1'-0"

SHEET NOTES - FLOOR PLAN

A. All dimensions are face of finish, U.N.O.
B. All dimensions to be field verified.
C. Floor Plan Keynotes (F#) are consistent across all Floor Plan sheets. Not all keynotes are used on each sheet.
D. See Enlarged Plans, where applicable, for wall types, notes, and dimensions.
E. Coordinate all work with other trades.

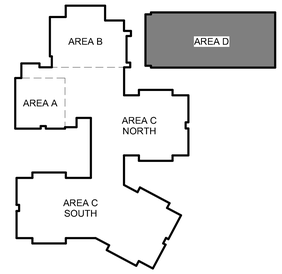
LEGEND - FLOOR PLAN

- EXISTING WALL TO REMAIN
- SEISMIC BRACE WALL
- NEW SHEATHING ON EXISTING WALL
- WALL TAG, SEE PARTITION TYPES SHEET G-003
- NEW FLOORING, SEE FINISH FLOOR PLAN
- NEW CONCRETE FOOTING - PATCH AND REPAIR FLOORING
- NEW PLYWOOD SHEATHING, PATCH AND REPAIR FLOORING FINISH
- PATCH AND REPAIR ASPHALT WHERE NECESSARY
- PATCH AND REPAIR LANDSCAPE WHERE NECESSARY
- PATCH AND REPAIR CONCRETE WHERE NECESSARY

KEYNOTES - FLOOR PLAN

F 1 Install new 5/8" gypsum board over new plywood sheathing - see Structural. Install new rubber base and paint wall to match (E).
F 2 Install new 1/2" plywood sheathing - see Structural.
F 3 Install new steel plates and anchors at base of wall - see Structural. Paint with high-performance coating to match (E) adjacent wall. Patch and repair soil and landscaping where necessary.
F 4 Install new steel plates and anchors at wall base - see Structural. Patch and repair gypsum finish and paint to match (E).
F 5 Install new wall mounted acoustic panels.
F 6 New full-height 2x wood framed wall. New rubber base. Paint to match (E).
F 7 Install new full-height wall protection to match (E).
F 8 Install new Sureboard sheathing panels - see Structural. Provide new rubber base and paint wall to match (E) adjacent walls.
F 9 Install new wall protection wainscot to match (E).
F 10 Patch and repair slab at area of new footing work - see Structural. Roll existing carpet back over floor and reinstall with new adhesive.
F 11 Reinstall all salvaged wall-mounted equipment and devices. Plugmold to remain surface mounted; all other devices to be recessed.
F 12 Install new steel plates and anchors at base of wall - see Structural. Paint with high-performance coating to match existing adjacent wall. Patch and repair concrete where necessary.
F 13 New angles at CMU wall base - see Structural. Paint to match (E) wall. Grind all edges to avoid protruding objects.
F 14 Reinstall (E) salvaged upper cabinets. New countertop and sink. New base cabinets at east wall. Paint all new and (E) casework to match.
F 15 Install new fiber cement panel rainscreen siding over new plywood sheathing. Prepare void, building facade and concrete footing to receive replacement materials.
F 16 Install new plywood sheathing at areas of foundation access. Provide new R-30 batt insulation at underside of entire floor. Install new carpet throughout.
F 17 Paint (E) columns with new high performance coating, typ.
F 18 New HSS strongbacks on exterior side of north wall. HSS to be full height and bolted to (E) concrete tile wall - see Structural. Paint with high-performance coating to match (E) exterior wall.
F 19 Install new steel plates and anchors at base of wall - see Structural. Paint with high-performance coating to match (E) adjacent wall. Patch and repair asphalt where necessary, replace in kind.
F 20 New protective wall covering, to match (E) adjacent walls.
F 21 Paint (E) CMU wall.
F 22 Seismic improvements above (E) concrete wall - see Structural for details.
F 23 New bracing at (E) chimney - see Structural.
F 24 Install new downspout and reconnect to (E) pipe.
F 25 Repaint (E) handrails.
F 26 Repaint (E) door and frame.
F 27 Patch and repair concrete flooring.
F 28 Patch asphalt around new steel angles at (E) column bases - see Structural, typ.
F 30 (E) slab and mechanical unit. Protect during construction.
F 31 New floor mounted receptacle box; see specifications.

KEY PLAN



BEAVERTON SCHOOL DISTRICT

COOPER MOUNTAIN ELEMENTARY

7670 SW 170th AVE
BEAVERTON, OR 97007

OhPLANNING+DESIGN, ARCHITECTURE
115 NW 1st Ave, Ste, 300
Portland, OR 97209

Consultants:

COOPER MOUNTAIN ELEMENTARY SCHOOL
SRGP IMPROVEMENTS

PERMIT / BID SET

REGISTERED ARCHITECT
DEBORAH K. FRANKE
PORTLAND, OR
12/31/20
#5530
STATE OF OREGON

Date:	12/04/2020
Project Number:	90060
Drawn By:	BPS
Checked By:	CSM

Revision Schedule:

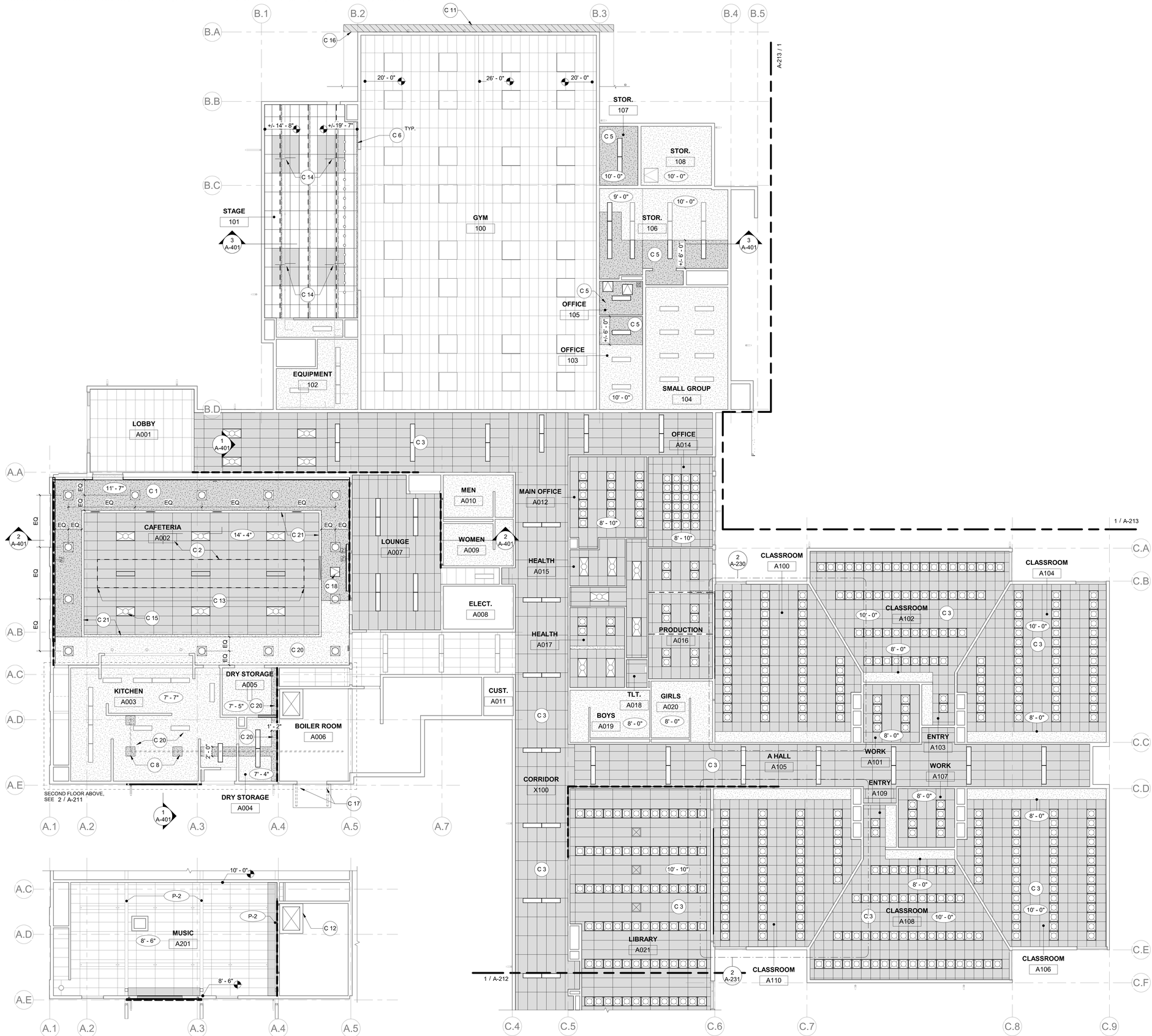
Sheet Title:
FLOOR PLANS - AREA D

Sheet Number:
A-203

PERMIT / BID SET

12/4/2020 8:38:43 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 REFLECTED CEILING PLAN - SECOND FLOOR
1/8" = 1'-0"

1 REFLECTED CEILING PLAN - AREA A, B, C NORTH
1/8" = 1'-0"

12/4/2020 8:39:07 AM

SHEET NOTES - RCP

A. Keynotes are not sheet specific.
B. All heights shown are to bottom of grid system or gyp bd AFF, relative to the floor that the ceiling plan is shown on, UNO.
C. "Downlight" or "wall-washer" ceiling fixtures, smoke detectors, life safety speakers, AV speakers, exit signs, sprinklers, mirrors, fire alarm or signal devices, or other ceiling mounted devices are to be centered in an apparent ceiling tile, UNO.
D. Door exit signs to be located on mounting height schedule, and centered on, the door to which exit is indicated, UNO.
E. Contractor to coordinate Owner's telecom and security contractor's work.
F. Refer to electrical engineer's documents for lighting & lighting control specifications.
G. Refer to mechanical engineer's documents for HVAC & plumbing equipment & control specifications.
H. Relocate (E) sprinklers, smoke detectors, and speakers as required for ceiling layout
I. Refer to sheet A-701 for typical ceiling mounting and bracing details

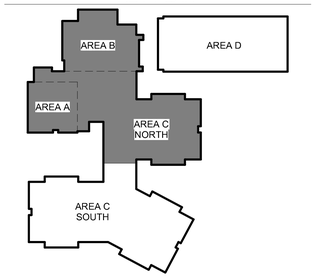
LEGEND - RCP

- EXISTING WALL TO REMAIN
- SEISMIC BRACE WALL
- DEMOLISH EXISTING SHEATHING TO EXPOSE STRUCTURE FOR INSTALL OF SEISMIC BRACING PER STRUCTURAL.
- EXISTING 2X4 ACOUSTIC CEILING TILE TO REMAIN
- EXISTING GYPSUM BOARD CEILING TO REMAIN
- EXISTING 2X2 ACOUSTIC CEILING TILE TO REMAIN
- NEW 2X4 ACOUSTIC CEILING TILE, IN EXISTING GRID U.N.O.
- NEW GYPSUM BOARD CEILING
- NEW 2X2 ACOUSTIC CEILING TILE, IN EXISTING GRID U.N.O.
- NEW PAINTED FIBER CEMENT SOFFIT
- EXISTING 2X2 FLUORESCENT
- EXISTING 1X4 FLUORESCENT
- EXISTING 96" PENDANT
- EXISTING 4X4 FLUORESCENT
- EXISTING CAN LIGHT
- REINSTALLED EXISTING 2X2 FLUORESCENT
- REINSTALLED EXISTING 1X4 FLUORESCENT
- REINSTALLED EXISTING 96" PENDANT
- NEW 2X2 VLT FIXTURE
- EXISTING ACCESS PANEL
- EXISTING SPRINKLER PIPING
- EXISTING STAGE LIGHTING
- EXISTING CURTAIN TRACK
- EXISTING GAS LINE

KEYNOTES - RCP

C 1 Install new suspended gypsum soffit with new recessed light fixtures - see Electrical. Blend new gypsum ceiling with existing. Paint entire gypsum ceiling to match (E).
C 2 Install new 2x4 ceiling tiles and grid. Reinstall salvaged light fixtures.
C 3 Install new ceiling tiles in (E) ceiling grid. See A-701 for typical seismic bracing details. Provide gap and closure angle at perimeter. Modify grid at perimeter as required at new shear wall improvements. Re-install salvaged light fixtures.
C 4 (E) Light fixtures to remain. Protect during construction.
C 5 Install new gypsum ceiling; reinstall salvaged light fixtures, access panels and supply air grilles.
C 6 (E) stage curtain to remain.
C 7 Reinstall (E) conduits above soffit.
C 8 Patch and repair ceiling at gas line bracing locations.
C 9 Install new light fixtures with conduits routed above soffit - see Electrical.
C 10 New wall pack light fixture - see Electrical.
C 11 New fiber cement soffit; paint to match (E).
C 12 Connect (E) chimney to roof framing - see structural.
C 13 Reinstall salvaged artwork.
C 14 Patch ceiling as required to seismically brace (E) fire sprinkler piping. Contractor to coordinate extents of cutting and patching with the seismic bracing installation. Reinstall salvaged fixtures and devices.
C 15 New 2x4 LED light fixture, typical.
C 16 New wood trim between new and (E) soffit materials; paint to match (E) soffit.
C 17 Install new wood blocking; paint to match (E) framing - see Structural for details.
C 18 Contractor to coordinate location of access panel to provide adequate access to damper above. Coordinate final location with Owner and Architect prior to installation.
C 19 New seismic strengthening at top of (E) concrete tilt wall - see Structural. Install new intumescent coating to maintain 2-hr rating at full length of wall.
C 20 Patch and repair gypsum ceiling. Blend finish and paint entire ceiling to match existing.
C 21 Paint angled gypsum surface to match (E).
C 22 Reinstall (E) salvaged security cameras with conduits routed above soffit.

KEY PLAN



BEAVERTON SCHOOL DISTRICT

COOPER MOUNTAIN ELEMENTARY

7670 SW 170th AVE
BEAVERTON, OR 97007

Oh PLANNING+DESIGN, ARCHITECTURE
115 NW 1st Ave, Ste, 300
Portland, OR 97209

Consultants:

COOPER MOUNTAIN ELEMENTARY SCHOOL
SRGP IMPROVEMENTS

PERMIT / BID SET

REGISTERED ARCHITECT
DEBORAH K. FRANCE
PORTLAND, OR
12/31/20
#5530
STATE OF OREGON

Date: 12/04/2020
Project Number: 90060
Drawn By: BPS
Checked By: CSM

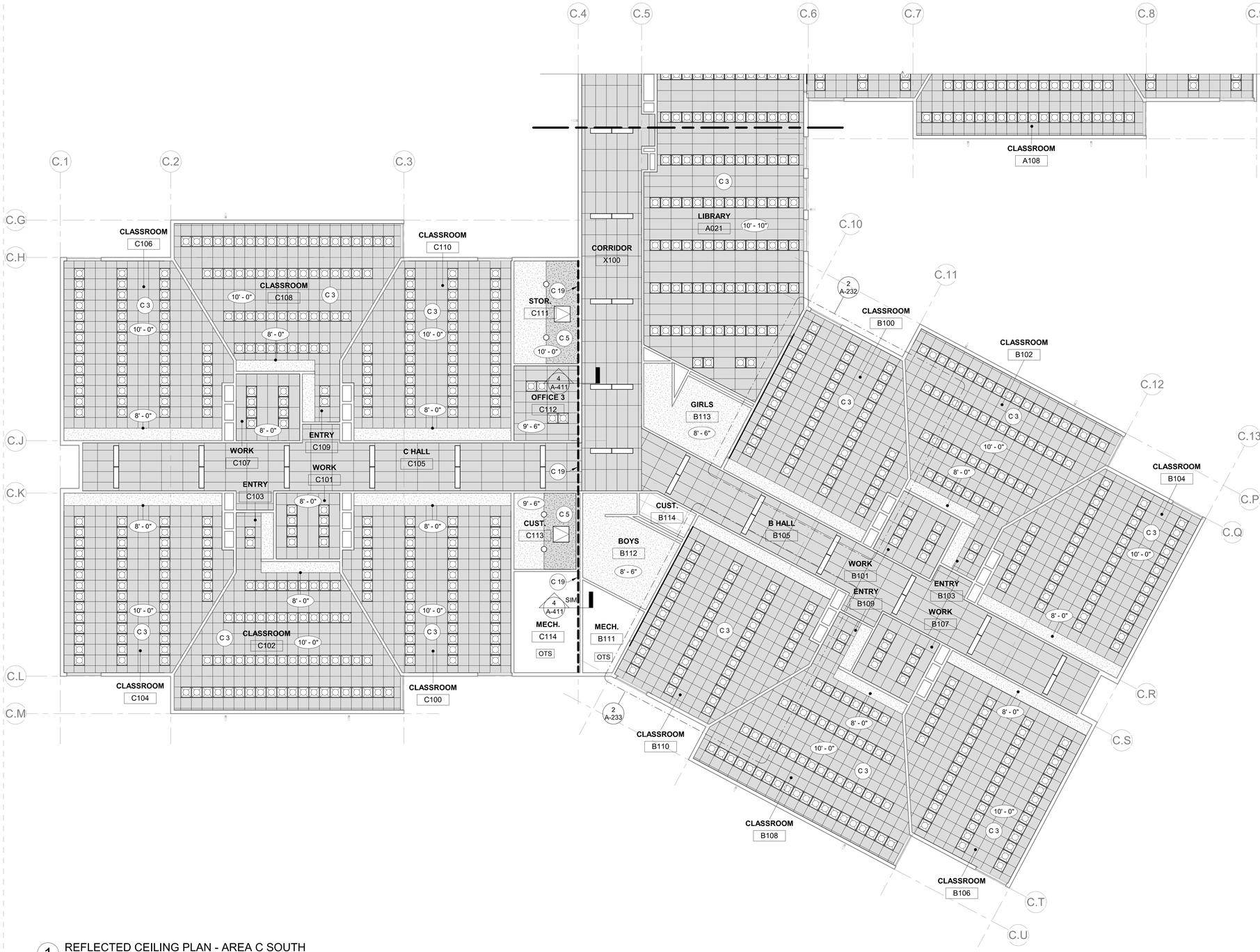
Revision Schedule:

Sheet Title:
REFLECTED CEILING PLANS - AREA A, B, C NORTH

Sheet Number:
A-211

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 REFLECTED CEILING PLAN - AREA C SOUTH
1/8" = 1'-0"

12/4/2020 8:38:56 AM

SHEET NOTES - RCP

A. Keynotes are not sheet specific.
B. All heights shown are to bottom of grid system or gyp bd AFF, relative to the floor that the ceiling plan is shown on, UNO.
C. "Downlight" or "wall-washer" ceiling fixtures, smoke detectors, life safety speakers, AV speakers, exit signs, sprinklers, mirrors, fire alarm or signal devices, or other ceiling mounted devices are to be centered in an apparent ceiling tile, UNO.
D. Door exit signs to be located on mounting height schedule, and centered on, the door to which exit is indicated, UNO.
E. Contractor to coordinate Owner's telecom and security contractor's work.
F. Refer to electrical engineer's documents for lighting & lighting control specifications.
G. Refer to mechanical engineer's documents for HVAC & plumbing equipment & control specifications.
H. Relocate (E) sprinklers, smoke detectors, and speakers as required for ceiling layout
I. Refer to sheet A-701 for typical ceiling mounting and bracing details

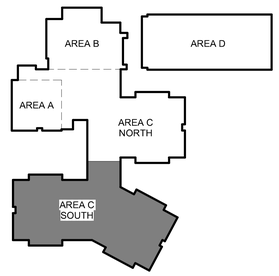
LEGEND - RCP

- EXISTING WALL TO REMAIN
- SEISMIC BRACE WALL
- DEMOLISH EXISTING SHEATHING TO EXPOSE STRUCTURE FOR INSTALL OF SEISMIC BRACING PER STRUCTURAL.
- EXISTING 2X4 ACOUSTIC CEILING TILE TO REMAIN
- EXISTING GYPSUM BOARD CEILING TO REMAIN
- EXISTING 2X2 ACOUSTIC CEILING TILE TO REMAIN
- NEW 2X4 ACOUSTIC CEILING TILE, IN EXISTING GRID U.N.O.
- NEW GYPSUM BOARD CEILING
- NEW 2X2 ACOUSTIC CEILING TILE, IN EXISTING GRID U.N.O.
- NEW PAINTED FIBER CEMENT SOFFIT
- EXISTING 2X2 FLUORESCENT
- EXISTING 1X4 FLUORESCENT
- EXISTING 96" PENDANT
- EXISTING 4X4 FLUORESCENT
- EXISTING CAN LIGHT
- REINSTALLED EXISTING 2X2 FLUORESCENT
- REINSTALLED EXISTING 1X4 FLUORESCENT
- REINSTALLED EXISTING 96" PENDANT
- NEW 2X2 VLT FIXTURE
- EXISTING ACCESS PANEL
- EXISTING SPRINKLER PIPING
- EXISTING STAGE LIGHTING
- EXISTING CURTAIN TRACK
- EXISTING GAS LINE

KEYNOTES - RCP

C 1 Install new suspended gypsum soffit with new recessed light fixtures - see Electrical. Blend new gypsum ceiling with existing. Paint entire gypsum ceiling to match (E).
C 2 Install new 2x4 ceiling tiles and grid. Reinstall salvaged light fixtures.
C 3 Install new ceiling tiles in (E) ceiling grid. See A-701 for typical seismic bracing details. Provide gap and closure angle at perimeter. Modify grid at perimeter as required at new shear wall improvements. Re-install salvaged light fixtures.
C 4 (E) Light fixtures to remain. Protect during construction.
C 5 Install new gypsum ceiling; reinstall salvaged light fixtures, access panels and supply air grilles.
C 6 (E) stage curtain to remain.
C 7 Reinstall (E) conduits above soffit.
C 8 Patch and repair ceiling at gas line bracing locations.
C 9 Install new light fixtures with conduits routed above soffit - see Electrical.
C 10 New wall pack light fixture - see Electrical.
C 11 New fiber cement soffit; paint to match (E).
C 12 Connect (E) chimney to roof framing - see structural.
C 13 Reinstall salvaged artwork.
C 14 Patch ceiling as required to seismically brace (E) fire sprinkler piping. Contractor to coordinate extents of cutting and patching with the seismic bracing installation. Reinstall salvaged fixtures and devices.
C 15 New 2x4 LED light fixture, typical.
C 16 New wood trim between new and (E) soffit materials; paint to match (E) soffit.
C 17 Install new wood blocking; paint to match (E) framing - see Structural for details.
C 18 Contractor to coordinate location of access panel to provide adequate access to damper above. Coordinate final location with Owner and Architect prior to installation.
C 19 New seismic strengthening at top of (E) concrete tilt wall - see Structural. Install new intumescent coating to maintain 2-hr rating at full length of wall.
C 20 Patch and repair gypsum ceiling. Blend finish and paint entire ceiling to match existing.
C 21 Paint angled gypsum surface to match (E).
C 22 Reinstall (E) salvaged security cameras with conduits routed above soffit.

KEY PLAN



BEAVERTON SCHOOL DISTRICT

COOPER MOUNTAIN ELEMENTARY

7670 SW 170th AVE
BEAVERTON, OR 97007

Oh PLANNING+DESIGN, ARCHITECTURE
115 NW 1st Ave, Ste, 300
Portland, OR 97209

Consultants:

COOPER MOUNTAIN ELEMENTARY SCHOOL
SRGP IMPROVEMENTS

PERMIT / BID SET

REGISTERED ARCHITECT
DEBORAH K. FRANCE
PORTLAND, OR
12/31/20
#5530
STATE OF OREGON

Date:	12/04/2020
Project Number:	90060
Drawn By:	BPS
Checked By:	CSM

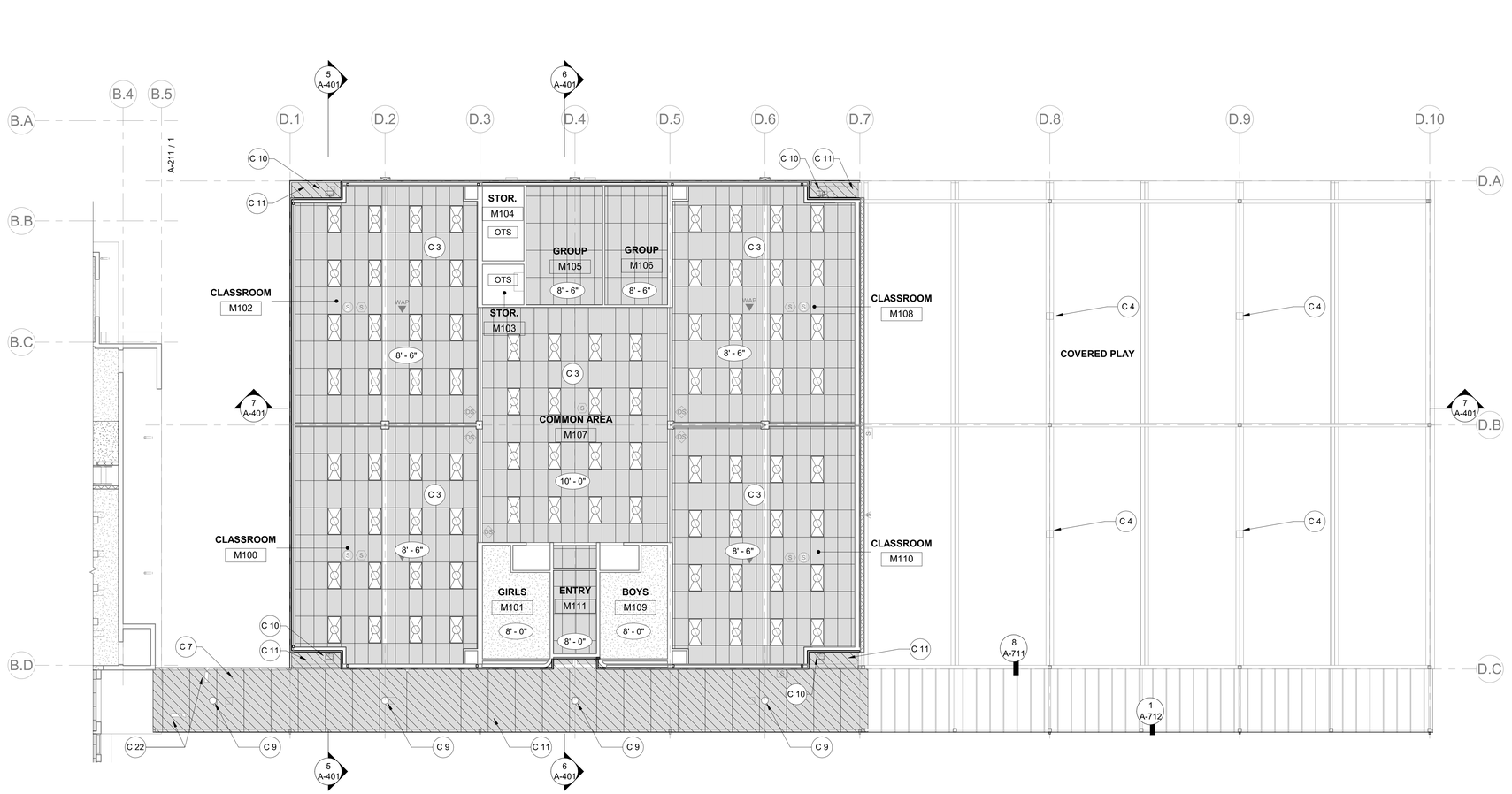
Revision Schedule:

Sheet Title:
REFLECTED CEILING PLAN - AREA C SOUTH

Sheet Number:
A-212

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

12/4/2020 8:39:12 AM

SHEET NOTES - RCP

A. Keynotes are not sheet specific.
B. All heights shown are to bottom of grid system or gyp bd AFF, relative to the floor that the ceiling plan is shown on, UNO.
C. "Downlight" or "wall-washer" ceiling fixtures, smoke detectors, life safety speakers, AV speakers, exit signs, sprinklers, mirrors, fire alarm or signal devices, or other ceiling mounted devices are to be centered in an apparent ceiling tile, UNO.
D. Door exit signs to be located on mounting height schedule, and centered on, the door to which exit is indicated, UNO.
E. Contractor to coordinate Owner's telecom and security contractor's work.
F. Refer to electrical engineer's documents for lighting & lighting control specifications.
G. Refer to mechanical engineer's documents for HVAC & plumbing equipment & control specifications.
H. Relocate (E) sprinklers, smoke detectors, and speakers as required for ceiling layout
I. Refer to sheet A-701 for typical ceiling mounting and bracing details

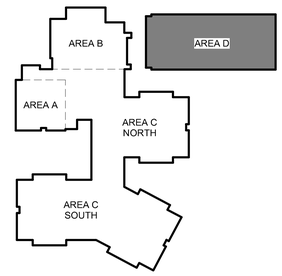
LEGEND - RCP

- EXISTING WALL TO REMAIN
- SEISMIC BRACE WALL
- DEMOLISH EXISTING SHEATHING TO EXPOSE STRUCTURE FOR INSTALL OF SEISMIC BRACING PER STRUCTURAL.
- EXISTING 2X4 ACOUSTIC CEILING TILE TO REMAIN
- EXISTING GYPSUM BOARD CEILING TO REMAIN
- EXISTING 2X2 ACOUSTIC CEILING TILE TO REMAIN
- NEW 2X4 ACOUSTIC CEILING TILE, IN EXISTING GRID U.N.O.
- NEW GYPSUM BOARD CEILING
- NEW 2X2 ACOUSTIC CEILING TILE, IN EXISTING GRID U.N.O.
- NEW PAINTED FIBER CEMENT SOFFIT
- EXISTING 2X2 FLUORESCENT
- EXISTING 1X4 FLUORESCENT
- EXISTING 96" PENDANT
- EXISTING 4X4 FLUORESCENT
- EXISTING CAN LIGHT
- REINSTALLED EXISTING 2X2 FLUORESCENT
- REINSTALLED EXISTING 1X4 FLUORESCENT
- REINSTALLED EXISTING 96" PENDANT
- NEW 2X2 VLT FIXTURE
- EXISTING ACCESS PANEL
- EXISTING SPRINKLER PIPING
- EXISTING STAGE LIGHTING
- EXISTING CURTAIN TRACK
- EXISTING GAS LINE

KEYNOTES - RCP

C 1 Install new suspended gypsum soffit with new recessed light fixtures - see Electrical. Blend new gypsum ceiling with existing. Paint entire gypsum ceiling to match (E).
C 2 Install new 2x4 ceiling tiles and grid. Reinstall salvaged light fixtures.
C 3 Install new ceiling tiles in (E) ceiling grid. See A-701 for typical seismic bracing details. Provide gap and closure angle at perimeter. Modify grid at perimeter as required at new shear wall improvements. Re-install salvaged light fixtures.
C 4 (E) Light fixtures to remain. Protect during construction.
C 5 Install new gypsum ceiling; reinstall salvaged light fixtures, access panels and supply air grilles.
C 6 (E) stage curtain to remain.
C 7 Reinstall (E) conduits above soffit.
C 8 Patch and repair ceiling at gas line bracing locations.
C 9 Install new light fixtures with conduits routed above soffit - see Electrical.
C 10 New wall pack light fixture - see Electrical.
C 11 New fiber cement soffit; paint to match (E).
C 12 Connect (E) chimney to roof framing - see structural.
C 13 Reinstall salvaged artwork.
C 14 Patch ceiling as required to seismically brace (E) fire sprinkler piping. Contractor to coordinate extents of cutting and patching with the seismic bracing installation. Reinstall salvaged fixtures and devices.
C 15 New 2x4 LED light fixture, typical.
C 16 New wood trim between new and (E) soffit materials; paint to match (E) soffit.
C 17 Install new wood blocking; paint to match (E) framing - see Structural for details.
C 18 Contractor to coordinate location of access panel to provide adequate access to damper above. Coordinate final location with Owner and Architect prior to installation.
C 19 New seismic strengthening at top of (E) concrete tilt wall - see Structural. Install new intumescent coating to maintain 2-hr rating at full length of wall.
C 20 Patch and repair gypsum ceiling. Blend finish and paint entire ceiling to match existing.
C 21 Paint angled gypsum surface to match (E).
C 22 Reinstall (E) salvaged security cameras with conduits routed above soffit.

KEY PLAN



BEAVERTON SCHOOL DISTRICT

COOPER MOUNTAIN ELEMENTARY

7670 SW 170th AVE
BEAVERTON, OR 97007

OhPLANNING+DESIGN, ARCHITECTURE
115 NW 1st Ave, Ste, 300
Portland, OR 97209

Consultants:

COOPER MOUNTAIN ELEMENTARY SCHOOL
SRGP IMPROVEMENTS

PERMIT / BID SET

REGISTERED ARCHITECT
DEBORAH K. KRANCE
OREGON
12/31/20
#5530
STATE OF OREGON

Date: 12/04/2020
Project Number: 90060
Drawn By: BPS
Checked By: CSM

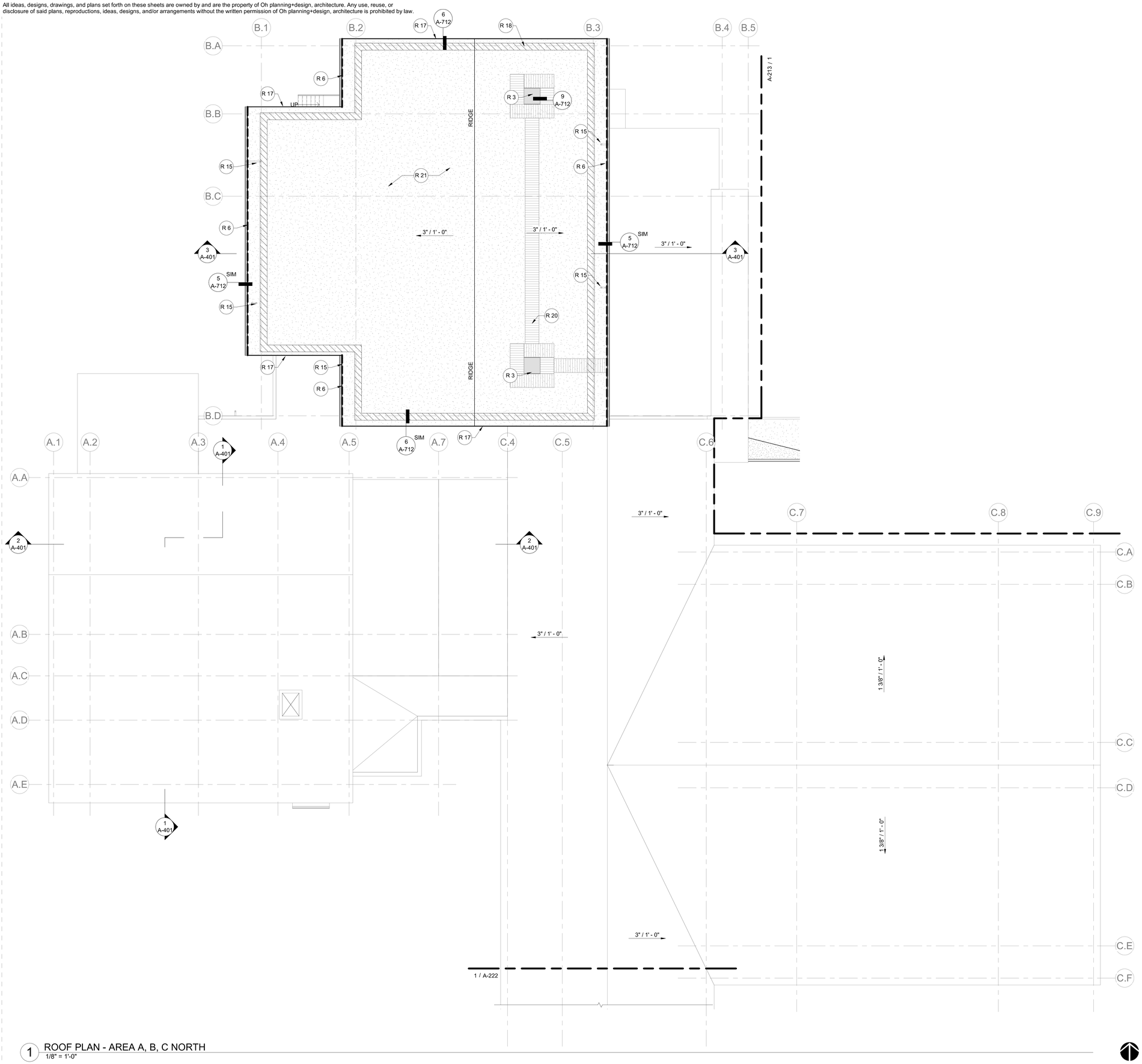
Revision Schedule:

Sheet Title:
REFLECTED CEILING PLAN - AREA D

Sheet Number:
A-213

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.



SHEET NOTES - ROOF PLAN

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 Structural, Mechanical, Plumbing, and Electrical drawings for additional scope.
D. See Structural drawings for extent of new sheathing.
E. Roof drain and overflow drain tags are for identification purposes only, verify drain quantities; see Plumbing.
F. All crickets sloped to 1/2" / 12".
G. Walkpads to be installed at top and bottom of all ladders and on the service side of all serviceable rooftop mechanical units.

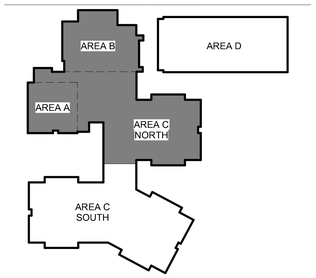
LEGEND - ROOF PLAN

- NEW TPO ROOFING
- NEW CRICKETS
- NEW METAL GUTTER
- EXISTING ROOF EQUIPMENT
- NEW WALKPADS
- NEW PLYWOOD SHEATHING

R # KEYNOTES - ROOF PLAN

R 1 New TPO roofing on new R-30 rigid insulation. (E) sheathing to remain; provide strapping and blocking - see Structural. Provide tapered insulation as required to slope to new through-wall scuppers and downspouts.
R 2 Reinstall (E) rooftop mechanical unit on new curb.
R 3 Reinstall (E) gravity relief hoods on new curb.
R 4 Reinstall (E) roof access hatch on new curb. Provide new ladder-up post and guard rail.
R 5 New pre-finished sheet metal parapet and flashing to match (E).
R 6 New metal gutter and built-up fascia to match (E).
R 7 Reinstall (E) mechanical screen; attached to (E) RTU.
R 8 New through-wall scupper and flashing.
R 9 New TPO roofing on tapered insulation; drain to (E) scuppers and downspouts.
R 10 New TPO to extend under existing corrugated metal roofing.
R 11 (E) Scupper, leaderhead and downspout to remain; protect during construction.
R 12 New flashing on (E) plumbing vents, typ.
R 13 New downspout and splash block.
R 14 (E) Standing seam metal roof to remain.
R 15 Reconnect gutter to (E) downspouts, typ.
R 16 Raise (E) duct and install in new opening in (E) wall; modify (E) metal panel siding as required.
R 17 New built-up wood fascia; paint to match (E).
R 18 Patch plywood sheathing at areas of new perimeter blocking - see Structural.
R 19 Reinstall (E) ladder on new TPO roof. Provide new walkpad at ladder base.
R 20 Provide walkpads. Final location to be coordinated with Owner and Architect prior to installation.
R 21 New TPO roofing on new R-30 rigid insulation. (E) sheathing to remain; provide strapping and blocking - see Structural.
R 22 Install new intermediate support post for (E) mechanical screen; post base to be ballasted.

KEY PLAN



1 ROOF PLAN - AREA A, B, C NORTH
1/8" = 1'-0"

12/4/2020 8:39:36 AM

BEAVERTON SCHOOL DISTRICT

COOPER MOUNTAIN ELEMENTARY
7670 SW 170th AVE
BEAVERTON, OR 97007

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

Consultants:

COOPER MOUNTAIN ELEMENTARY SCHOOL
SRGP IMPROVEMENTS

PERMIT / BID SET

REGISTERED ARCHITECT
DEBORAH K. FRASCA
PORTLAND OR
12/31/20
#5530
STATE OF OREGON

Date:	12/04/2020
Project Number:	90060
Drawn By:	BPS
Checked By:	CSM

Revision Schedule:

Sheet Title:
ROOF PLANS - AREA A, B, C NORTH

Sheet Number:
A-221

PERMIT / BID SET

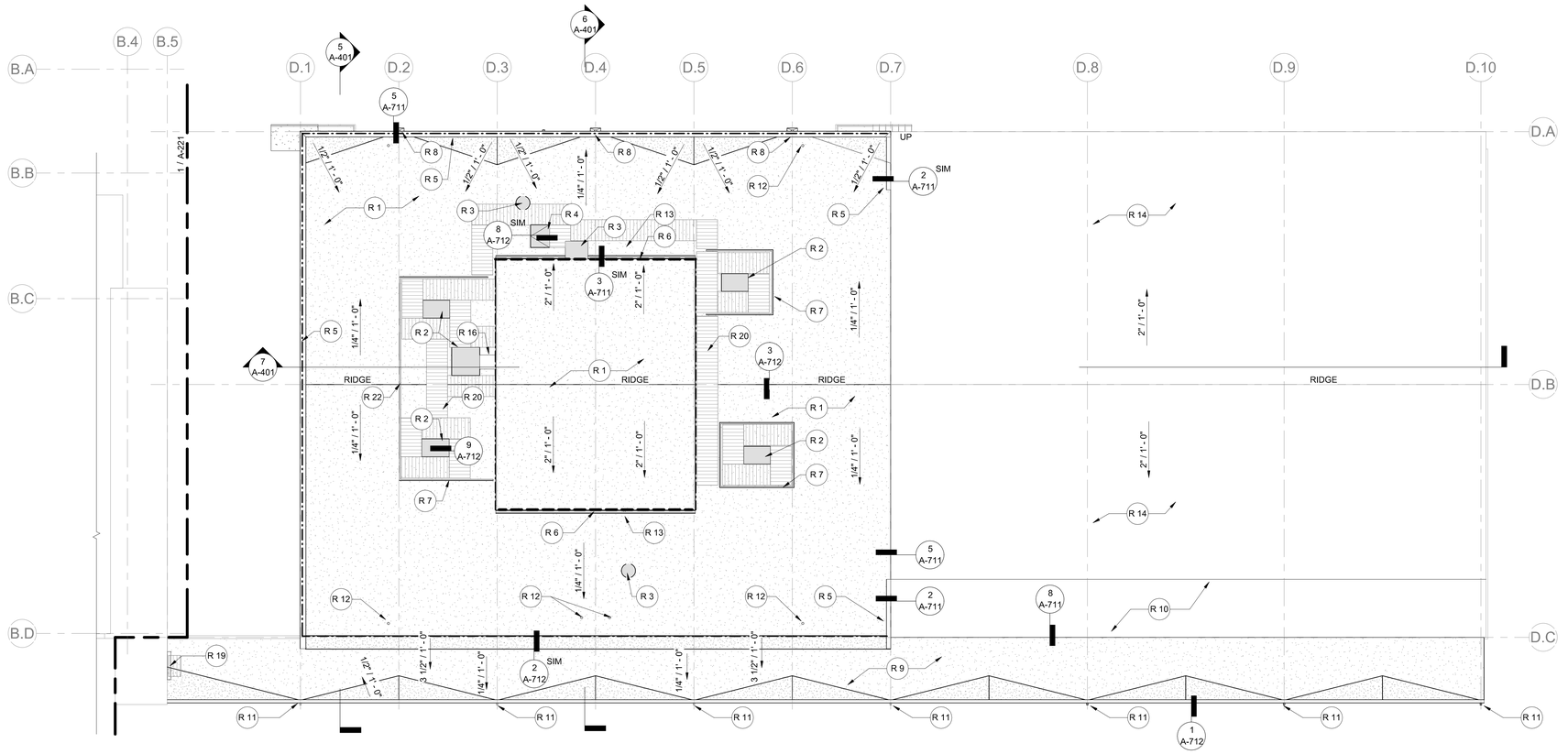
All ideas, designs, drawings, and plans set forth on these sheets are owned by and are the property of Oh planning+design, architecture. Any use, reuse, or disclosure of said plans, reproductions, ideas, designs, and/or arrangements without the written permission of Oh planning+design, architecture is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

SHEET NOTES - ROOF PLAN

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 Structural, Mechanical, Plumbing, and Electrical drawings for additional scope.
D. See Structural drawings for extent of new sheathing.
E. Roof drain and overflow drain tags are for identification purposes only, verify drain quantities; see Plumbing.
F. All crickets sloped to 1/2" / 12".
G. Walkpads to be installed at top and bottom of all ladders and on the service side of all serviceable rooftop mechanical units.

LEGEND - ROOF PLAN

- NEW TPO ROOFING
- NEW CRICKETS
- NEW METAL GUTTER
- EXISTING ROOF EQUIPMENT
- NEW WALKPADS
- NEW PLYWOOD SHEATHING

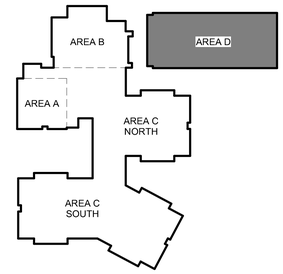


1 ROOF PLAN - AREA D
1/8" = 1'-0"

KEYNOTES - ROOF PLAN

R 1	New TPO roofing on new R-30 rigid insulation. (E) sheathing to remain; provide strapping and blocking - see Structural. Provide tapered insulation as required to slope to new through-wall scuppers and downspouts.
R 2	Reinstall (E) rooftop mechanical unit on new curb.
R 3	Reinstall (E) gravity relief hoods on new curb.
R 4	Reinstall (E) roof access hatch on new curb. Provide new ladder-up post and guard rail.
R 5	New pre-finished sheet metal parapet and flashing to match (E).
R 6	New metal gutter and built-up fascia to match (E).
R 7	Reinstall (E) mechanical screen; attached to (E) RTU.
R 8	New through-wall scupper and flashing.
R 9	New TPO roofing on tapered insulation; drain to (E) scuppers and downspouts.
R 10	New TPO to extend under existing corrugated metal roofing.
R 11	(E) Scupper, leaderhead and downspout to remain; protect during construction.
R 12	New flashing on (E) plumbing vents, typ.
R 13	New downspout and splash block.
R 14	(E) Standing seam metal roof to remain.
R 15	Reconnect gutter to (E) downspouts, typ.
R 16	Raise (E) duct and install in new opening in (E) wall; modify (E) metal panel siding as required.
R 17	New built-up wood fascia; paint to match (E).
R 18	Patch plywood sheathing at areas of new perimeter blocking - see Structural.
R 19	Reinstall (E) ladder on new TPO roof. Provide new walkpad at ladder base.
R 20	Provide walkpads. Final location to be coordinated with Owner and Architect prior to installation.
R 21	New TPO roofing on new R-30 rigid insulation. (E) sheathing to remain; provide strapping and blocking - see Structural.
R 22	Install new intermediate support post for (E) mechanical screen; post base to be ballasted.

KEY PLAN



BEAVERTON SCHOOL DISTRICT

COOPER MOUNTAIN ELEMENTARY

7670 SW 170th AVE
BEAVERTON, OR 97007

Oh PLANNING+DESIGN, ARCHITECTURE
115 NW 1st Ave, Ste, 300
Portland, OR 97209

Consultants:

COOPER MOUNTAIN ELEMENTARY SCHOOL
SRGP IMPROVEMENTS

PERMIT / BID SET

REGISTERED ARCHITECT
DEBORAH K. FRANCE
PORTLAND, OR
12/31/20
#5539
STATE OF OREGON

Date:	12/04/2020
Project Number:	90060
Drawn By:	BPS
Checked By:	CSM

Revision Schedule:

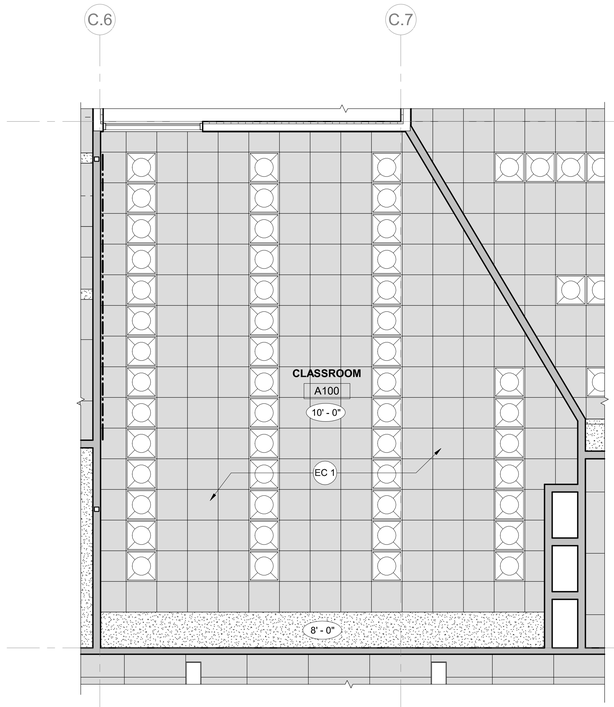
Sheet Title:
ROOF PLANS - AREA D

Sheet Number:
A-223

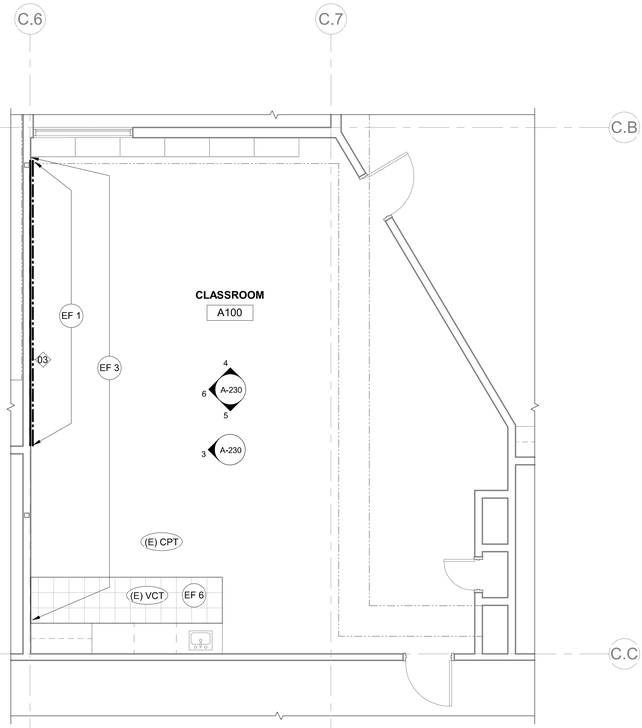
PERMIT / BID SET

12/4/2020 8:38:24 AM

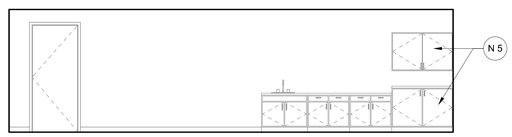
All ideas, designs, drawings, and plans set forth on these sheets are owned by and are the property of Oh planning+design, architecture. Any use, reuse, or disclosure of said plans, reproductions, ideas, designs, and/or arrangements without the written permission of Oh planning+design, architecture is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



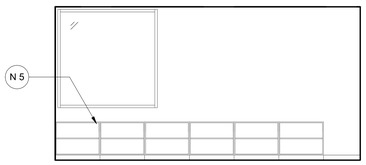
2 ENLARGED RCP - CLASSROOM A100
1/4" = 1'-0"



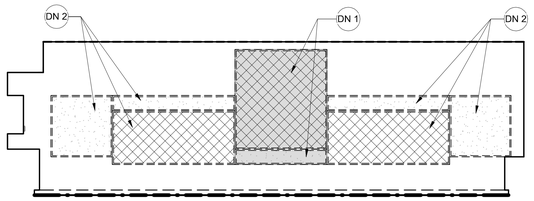
1 ENLARGED PLAN - CLASSROOM A100
1/4" = 1'-0"



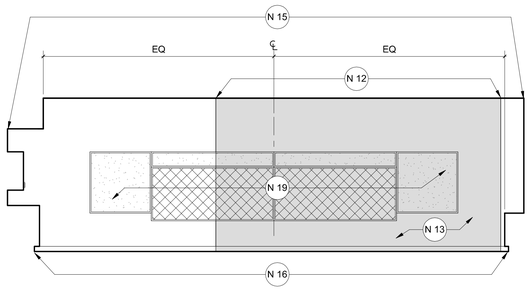
5 CLASSROOM A100 - SOUTH
1/4" = 1'-0"



4 CLASSROOM A100 - NORTH
1/4" = 1'-0"



3 CLASSROOM A100 - WEST_DEMOLITION
1/4" = 1'-0"



6 CLASSROOM A100 - WEST
1/4" = 1'-0"

SHEET NOTES - PLANS, RCP, & INTERIOR ELEVATIONS

A. All dimensions are to gridlines or face of finish, U.N.O.
B. All dimensions to be field verified.
C. Keynotes are not sheets specific.
D. Coordinate all work with other trades.

LEGEND - ENLARGED PLAN

- EXISTING WALL TO REMAIN
- SEISMIC BRACE WALL
- NEW SHEATHING ON EXISTING WALL
- EXISTING AIR TUNNELS
- 1i — WALL TAG, REFER TO SEE PARTITION TYPES SHEET
- NEW FLOORING, SEE FINISH FLOOR PLAN
- NEW CONCRETE FOOTING - PATCH AND REPAIR FLOORING
- X — FINISH TAG

LEGEND - ENLARGED RCP

- EXISTING 2X4 ACOUSTIC CEILING TILE TO REMAIN
- EXISTING GYPSUM BOARD CEILING TO REMAIN
- EXISTING 2X2 ACOUSTIC CEILING TILE TO REMAIN
- NEW 2X4 ACOUSTIC CEILING TILE, IN EXISTING GRID U.N.O.
- NEW GYPSUM BOARD CEILING
- NEW 2X2 ACOUSTIC CEILING TILE, IN EXISTING GRID U.N.O.
- EXISTING 2X2 FLUORESCENT
- EXISTING 1X4 FLUORESCENT
- REINSTALLED EXISTING 2X2 FLUORESCENT
- REINSTALLED EXISTING 1X4 FLUORESCENT

LEGEND - INTERIOR ELEVATIONS

- WALL PROTECTION
- NEW GYPSUM BOARD
- NEW ACOUSTIC PANEL
- TACK BOARD
- WHITE BOARD

KEYNOTES - ENLARGED PLANS & RCP

EF # EC #

EF 1 Install new Sureboard sheathing panels.
EF 2 Patch and repair slab at area of new footing work. Roll existing carpet back over floor with new adhesive.
EF 3 Reinstall all salvaged wall-mounted equipment and devices.
EF 4 Install new 5/8" gypsum board over new plywood sheathing - see Structural.
EF 5 Install new 1/2" plywood sheathing - see Structural.
EF 6 (E) VCT to remain; protect during construction.

EC 1 Install new ceiling tiles in existing ceiling grid. Provide gap and closure angle at perimeter. Modify grid for new seismic bracing per A-701 and along the perimeter as required at new shear wall improvements. Re-install salvaged light fixtures.

KEYNOTES - DEMOLITION INTERIOR ELEVATIONS

DN #

DN 1 Demolish center display and tack board.
DN 2 Remove display and tack surfaces; salvage and protect for reinstallation.

KEYNOTES - INTERIOR ELEVATION

N #

N 1 Reinstall salvaged (E) upper cabinets; repaint.
N 2 New plastic laminate countertop.
N 3 (E) base cabinets to remain; protect during construction. Paint to match adjacent new base cabinets.
N 4 New base cabinets and plumbing.
N 5 Protect (E) casework during construction.
N 6 Re-install all (E) salvaged wall mounted equipment and devices, surface mounted.
N 7 Reinstall (E) electrical panel - see Electrical.
N 8 Add trim piece at corner of tack board and wall protection
N 9 New wall protection, to match (E)
N 10 Paint wall to match (E), patch holes and sand for level 4 finish.
N 11 New tack board, to match (E).
N 12 Extents of new wall sheathing.
N 13 Reinstall all (E) salvaged wall mounted equipment and devices. All (E) surface mounted conduit and device boxes to be recessed in wall. Plugmold to remain surface mounted. Refer to general mounting height for placement.
N 14 Reinstall (E) salvaged tack board.
N 15 Patch, sand, and paint new and existing walls for consistent level 4 wall finish.
N 16 New rubber base.
N 17 (E) rubber base to remain.
N 18 24" x 30" sound absorptive panels - Add Alternate #1. Typical all panels in Music Room.
N 19 Re-install all (E) salvaged wall mounted display surfaces; re-position on wall. Reference elevations.

BEAVERTON SCHOOL DISTRICT

COOPER MOUNTAIN ELEMENTARY

7670 SW 170th AVE
BEAVERTON, OR 97007

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

Consultants:

COOPER MOUNTAIN ELEMENTARY SCHOOL
SRGP IMPROVEMENTS

PERMIT / BID SET

REGISTERED ARCHITECT
DEBORAH K. KRAMER
OREGON
12/31/20
#5530
STATE OF OREGON

Date: 12/04/2020
Project Number: 90060
Drawn By: BPS
Checked By: CSM

Revision Schedule:

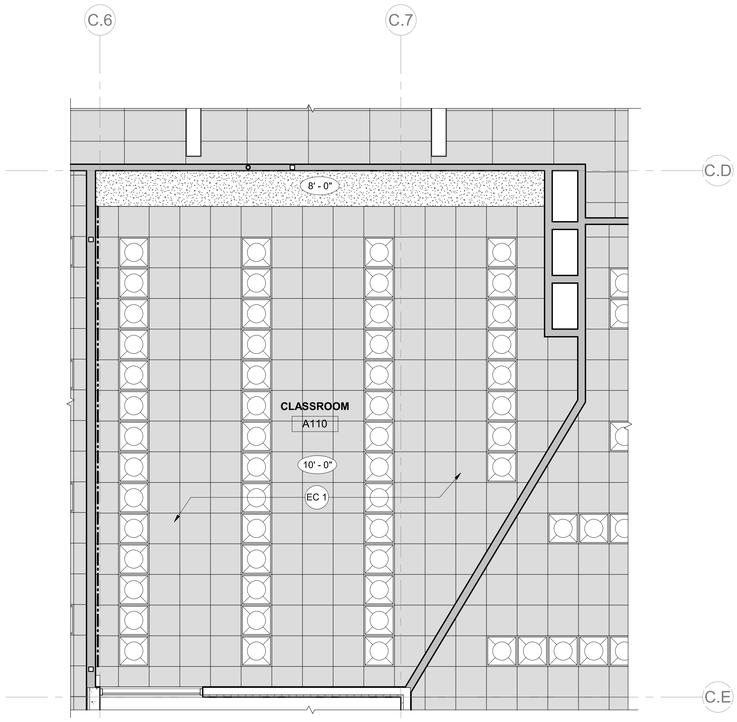
Sheet Title:
ENLARGED PLANS

Sheet Number:
A-230

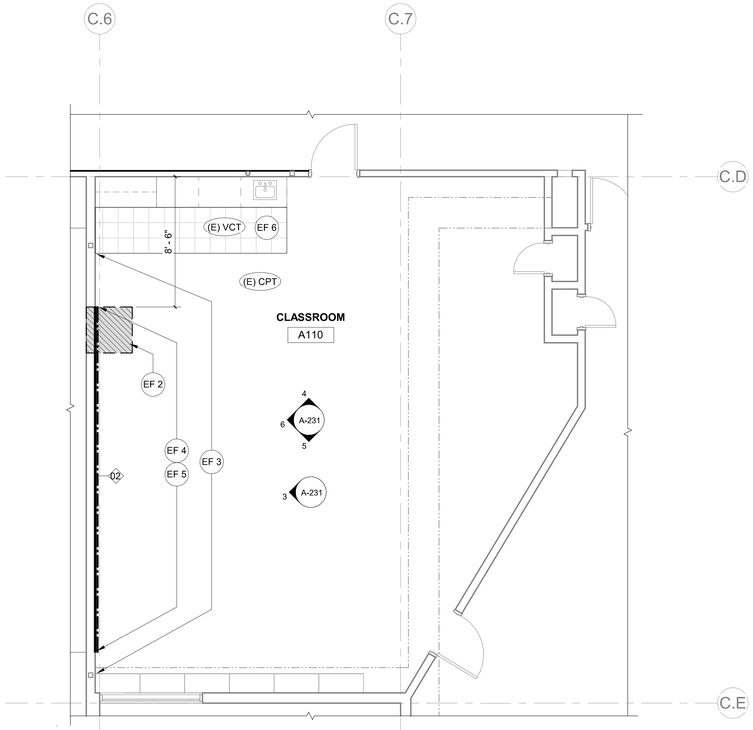
PERMIT / BID SET

12/4/2020 8:39:44 AM

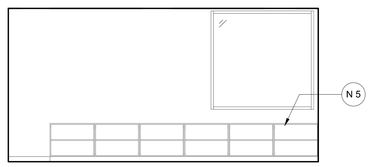
All ideas, designs, drawings, and plans set forth on these sheets are owned by and are the property of Oh planning+design, architecture. Any use, reuse, or disclosure of said plans, reproductions, ideas, designs, and/or arrangements without the written permission of Oh planning+design, architecture is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



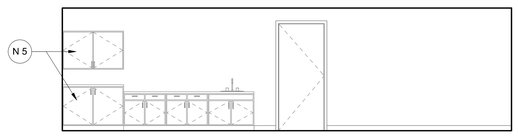
2 ENLARGED RCP - CLASSROOM A110
1/4" = 1'-0"



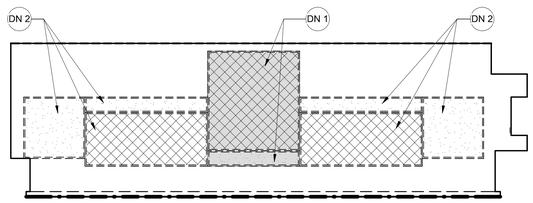
1 ENLARGED PLAN - CLASSROOM A110
1/4" = 1'-0"



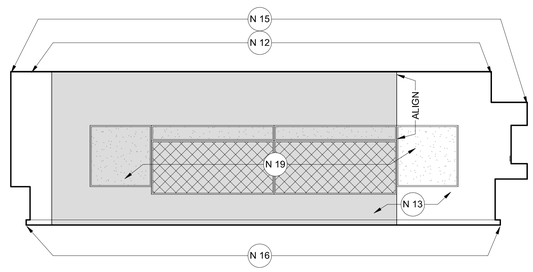
5 CLASSROOM A110 - SOUTH
1/4" = 1'-0"



4 CLASSROOM A110 - NORTH
1/4" = 1'-0"



3 CLASSROOM A110 - WEST_DEMOLITION
1/4" = 1'-0"



6 CLASSROOM A110 - WEST
1/4" = 1'-0"

SHEET NOTES - PLANS, RCP, & INTERIOR ELEVATIONS

A. All dimensions are to gridlines or face of finish, U.N.O.
B. All dimensions to be field verified.
C. Keynotes are not sheets specific.
D. Coordinate all work with other trades.

LEGEND - ENLARGED PLAN

- EXISTING WALL TO REMAIN
- SEISMIC BRACE WALL
- NEW SHEATHING ON EXISTING WALL
- EXISTING AIR TUNNELS
- 1i — WALL TAG, REFER TO SEE PARTITION TYPES SHEET
- NEW FLOORING, SEE FINISH FLOOR PLAN
- NEW CONCRETE FOOTING - PATCH AND REPAIR FLOORING
- X — FINISH TAG

LEGEND - ENLARGED RCP

- EXISTING 2X4 ACOUSTIC CEILING TILE TO REMAIN
- EXISTING GYPSUM BOARD CEILING TO REMAIN
- EXISTING 2X2 ACOUSTIC CEILING TILE TO REMAIN
- NEW 2X4 ACOUSTIC CEILING TILE, IN EXISTING GRID U.N.O.
- NEW GYPSUM BOARD CEILING
- NEW 2X2 ACOUSTIC CEILING TILE, IN EXISTING GRID U.N.O.
- EXISTING 2X2 FLUORESCENT
- EXISTING 1X4 FLUORESCENT
- REINSTALLED EXISTING 2X2 FLUORESCENT
- REINSTALLED EXISTING 1X4 FLUORESCENT

LEGEND - INTERIOR ELEVATIONS

- WALL PROTECTION
- NEW GYPSUM BOARD
- NEW ACOUSTIC PANEL
- TACK BOARD
- WHITE BOARD

KEYNOTES - ENLARGED PLANS & RCP

EF # / EC #

EF 1 Install new Sureboard sheathing panels.
EF 2 Patch and repair slab at area of new footing work. Roll existing carpet back over floor with new adhesive.
EF 3 Reinstall all salvaged wall-mounted equipment and devices.
EF 4 Install new 5/8" gypsum board over new plywood sheathing - see Structural.
EF 5 Install new 1/2" plywood sheathing - see Structural.
EF 6 (E) VCT to remain; protect during construction.
EC 1 Install new ceiling tiles in existing ceiling grid. Provide gap and closure angle at perimeter. Modify grid for new seismic bracing per A-701 and along the perimeter as required at new shear wall improvements. Re-install salvaged light fixtures.

KEYNOTES - DEMOLITION INTERIOR ELEVATIONS

DN #

DN 1 Demolish center display and tack board.
DN 2 Remove display and tack surfaces; salvage and protect for reinstallation.

KEYNOTES - INTERIOR ELEVATION

N #

N 1 Reinstall salvaged (E) upper cabinets; repaint.
N 2 New plastic laminate countertop.
N 3 (E) base cabinets to remain; protect during construction. Paint to match adjacent new base cabinets.
N 4 New base cabinets and plumbing.
N 5 Protect (E) casework during construction.
N 6 Re-install all (E) salvaged wall mounted equipment and devices, surface mounted.
N 7 Reinstall (E) electrical panel - see Electrical.
N 8 Add trim piece at corner of tack board and wall protection
N 9 New wall protection, to match (E)
N 10 Paint wall to match (E), patch holes and sand for level 4 finish.
N 11 New tack board, to match (E).
N 12 Extents of new wall sheathing.
N 13 Reinstall all (E) salvaged wall mounted equipment and devices. All (E) surface mounted conduit and device boxes to be recessed in wall. Plugmold to remain surface mounted. Refer to general mounting height for placement.
N 14 Reinstall (E) salvaged tack board.
N 15 Patch, sand, and paint new and existing walls for consistent level 4 wall finish.
N 16 New rubber base.
N 17 (E) rubber base to remain.
N 18 24" x 30" sound absorptive panels - Add Alternate #1. Typical all panels in Music Room.
N 19 Re-install all (E) salvaged wall mounted display surfaces; re-position on wall. Reference elevations.

BEAVERTON SCHOOL DISTRICT

COOPER MOUNTAIN ELEMENTARY
7670 SW 170th AVE
BEAVERTON, OR 97007

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

Consultants:

COOPER MOUNTAIN ELEMENTARY SCHOOL
SRGP IMPROVEMENTS

PERMIT / BID SET

REGISTERED ARCHITECT
DEBORAH K. FRANCE
PORTLAND, OR
12/31/20
#5530
STATE OF OREGON

Date: 12/04/2020
Project Number: 90060
Drawn By: BPS
Checked By: CSM

Revision Schedule:

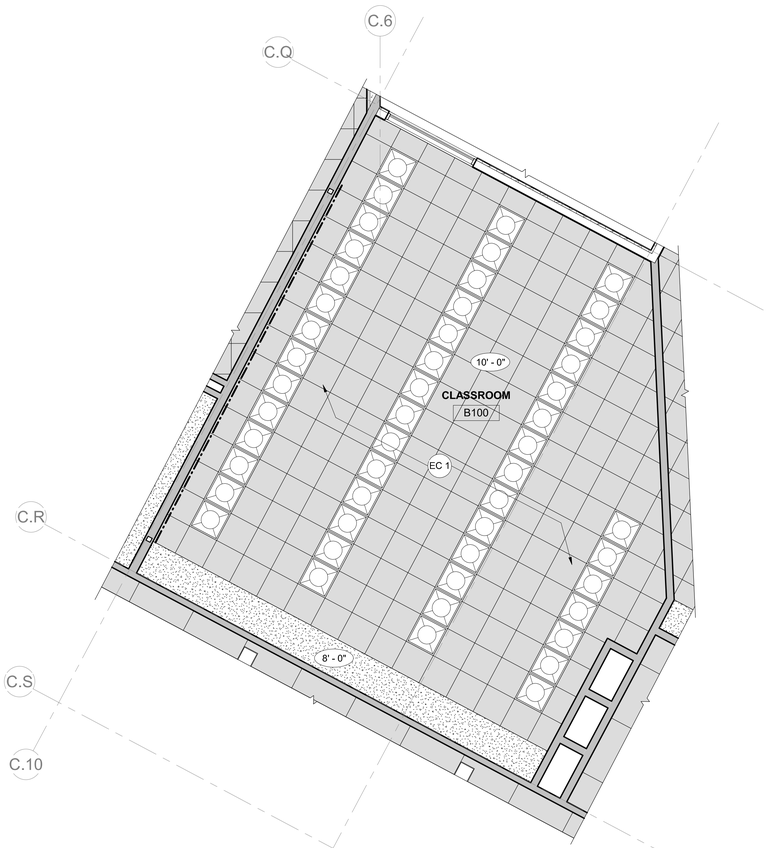
Sheet Title:
ENLARGED PLANS

Sheet Number:
A-231

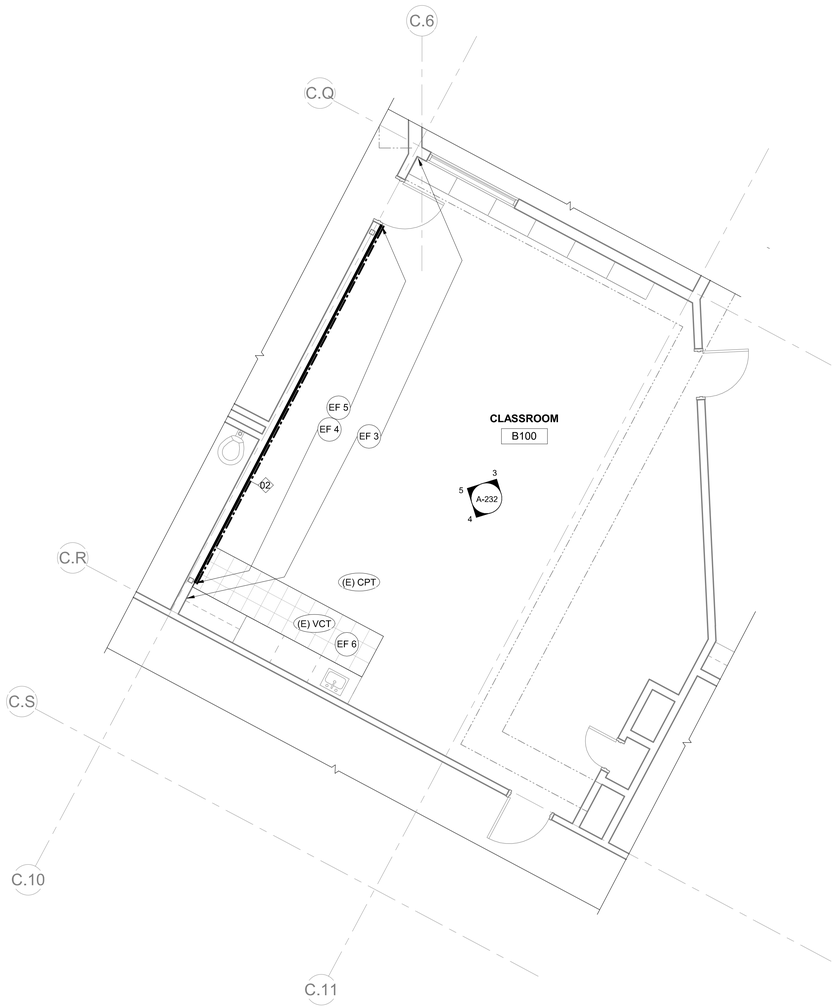
PERMIT / BID SET

12/4/2020 8:39:53 AM

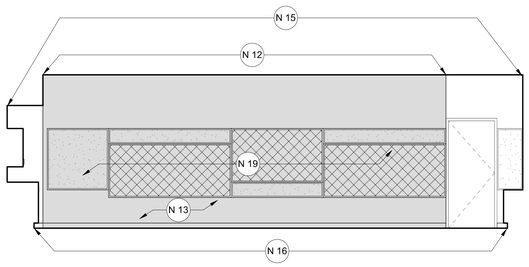
All ideas, designs, drawings, and plans set forth on these sheets are owned by and are the property of Oh planning+design, architecture. Any use, reuse, or disclosure of said plans, reproductions, ideas, designs, and/or arrangements without the written permission of Oh planning+design, architecture is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



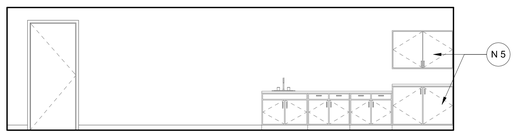
2 ENLARGED RCP - CLASSROOM B100
1/4" = 1'-0"



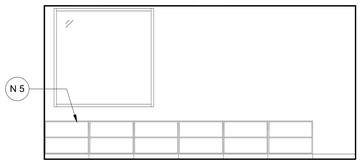
1 ENLARGED PLAN - CLASSROOM B100
1/4" = 1'-0"



5 CLASSROOM B100 - WEST
1/4" = 1'-0"



4 CLASSROOM B100 - SOUTH
1/4" = 1'-0"



3 CLASSROOM B100 - NORTH
1/4" = 1'-0"

SHEET NOTES - PLANS, RCP, & INTERIOR ELEVATIONS

A. All dimensions are to gridlines or face of finish, U.N.O.
B. All dimensions to be field verified.
C. Keynotes are not sheets specific.
D. Coordinate all work with other trades.

LEGEND - ENLARGED PLAN

- EXISTING WALL TO REMAIN
- SEISMIC BRACE WALL
- NEW SHEATHING ON EXISTING WALL
- EXISTING AIR TUNNELS
- 1 — WALL TAG, REFER TO SEE PARTITION TYPES SHEET
- NEW FLOORING, SEE FINISH FLOOR PLAN
- NEW CONCRETE FOOTING - PATCH AND REPAIR FLOORING
- X — FINISH TAG

LEGEND - ENLARGED RCP

- EXISTING 2X4 ACOUSTIC CEILING TILE TO REMAIN
- EXISTING GYPSUM BOARD CEILING TO REMAIN
- EXISTING 2X2 ACOUSTIC CEILING TILE TO REMAIN
- NEW 2X4 ACOUSTIC CEILING TILE, IN EXISTING GRID U.N.O.
- NEW GYPSUM BOARD CEILING
- NEW 2X2 ACOUSTIC CEILING TILE, IN EXISTING GRID U.N.O.
- EXISTING 2X2 FLUORESCENT
- EXISTING 1X4 FLUORESCENT
- REINSTALLED EXISTING 2X2 FLUORESCENT
- REINSTALLED EXISTING 1X4 FLUORESCENT

LEGEND - INTERIOR ELEVATIONS

- WALL PROTECTION
- NEW GYPSUM BOARD
- NEW ACOUSTIC PANEL
- TACK BOARD
- WHITE BOARD

KEYNOTES - ENLARGED PLANS & RCP

EF # / EC #

EF 1 Install new Sureboard sheathing panels.
EF 2 Patch and repair slab at area of new footing work. Roll existing carpet back over floor with new adhesive.
EF 3 Reinstall all salvaged wall-mounted equipment and devices.
EF 4 Install new 5/8" gypsum board over new plywood sheathing - see Structural.
EF 5 Install new 1/2" plywood sheathing - see Structural.
EF 6 (E) VCT to remain; protect during construction.

EC 1 Install new ceiling tiles in existing ceiling grid. Provide gap and closure angle at perimeter. Modify grid for new seismic bracing per A-701 and along the perimeter as required at new shear wall improvements. Re-install salvaged light fixtures.

KEYNOTES - INTERIOR ELEVATION

N #

N 1 Reinstall salvaged (E) upper cabinets; repaint.
N 2 New plastic laminate countertop.
N 3 (E) base cabinets to remain; protect during construction. Paint to match adjacent new base cabinets.
N 4 New base cabinets and plumbing.
N 5 Protect (E) casework during construction.
N 6 Re-install all (E) salvaged wall mounted equipment and devices, surface mounted.
N 7 Reinstall (E) electrical panel - see Electrical.
N 8 Add trim piece at corner of tack board and wall protection
N 9 New wall protection, to match (E)
N 10 Paint wall to match (E), patch holes and sand for level 4 finish.
N 11 New tack board, to match (E).
N 12 Extents of new wall sheathing.
N 13 Reinstall all (E) salvaged wall mounted equipment and devices. All (E) surface mounted conduit and device boxes to be recessed in wall. Plugmold to remain surface mounted. Refer to general mounting height for placement.
N 14 Reinstall (E) salvaged tack board.
N 15 Patch, sand, and paint new and existing walls for consistent level 4 wall finish.
N 16 New rubber base.
N 17 (E) rubber base to remain.
N 18 24" x 30" sound absorptive panels - Add Alternate #1. Typical all panels in Music Room.
N 19 Re-install all (E) salvaged wall mounted display surfaces; re-position on wall. Reference elevations.

BEAVERTON SCHOOL DISTRICT

COOPER MOUNTAIN ELEMENTARY
7670 SW 170th AVE
BEAVERTON, OR 97007

Oh PLANNING+DESIGN, ARCHITECTURE
115 NW 1st Ave, Ste, 300
Portland, OR 97209

Consultants:

COOPER MOUNTAIN ELEMENTARY SCHOOL
SRGP IMPROVEMENTS

PERMIT / BID SET

REGISTERED ARCHITECT
DEBORAH K. FRANCE
PORTLAND OR
12/31/20
#5539
STATE OF OREGON

Date: 12/04/2020
Project Number: 90060
Drawn By: BPS
Checked By: CSM

Revision Schedule:

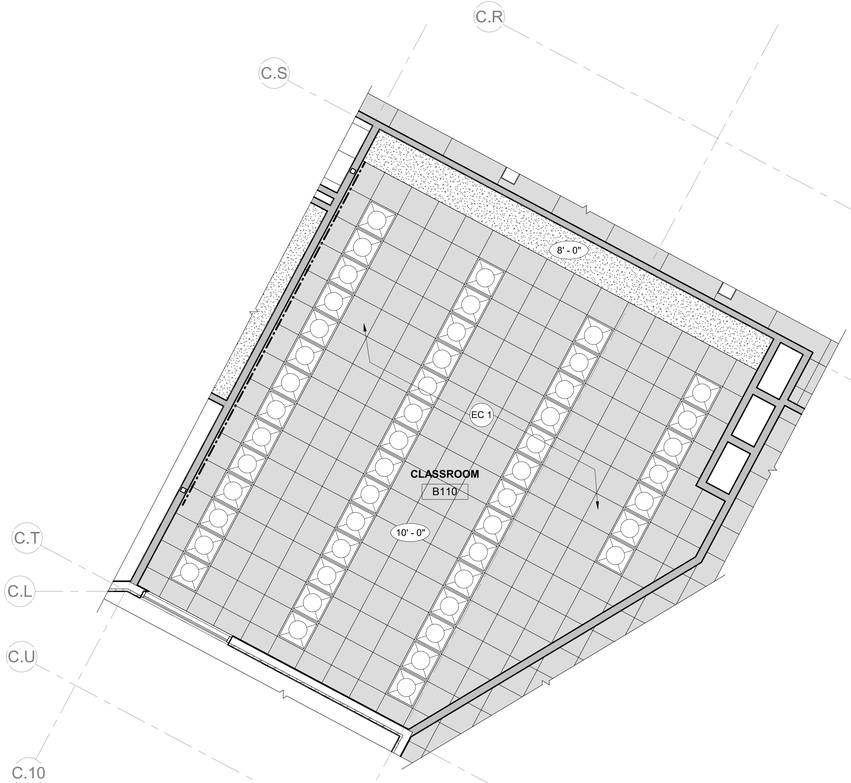
Sheet Title:
ENLARGED PLANS

Sheet Number:
A-232

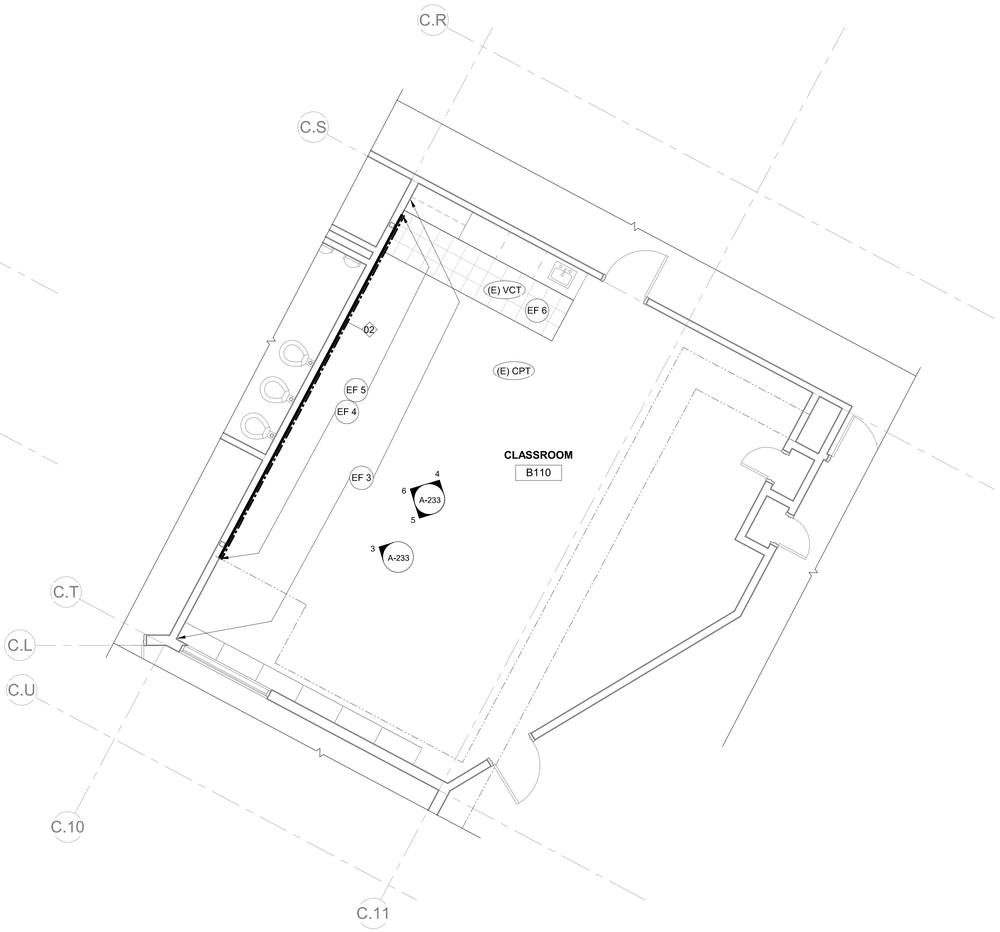
PERMIT / BID SET

12/4/2020 8:40:20 AM

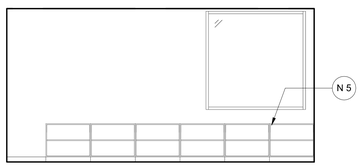
All ideas, designs, drawings, and plans set forth on these sheets are owned by and are the property of Oh planning+design, architecture. Any use, reuse, or disclosure of said plans, reproductions, ideas, designs, and/or arrangements without the written permission of Oh planning+design, architecture is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



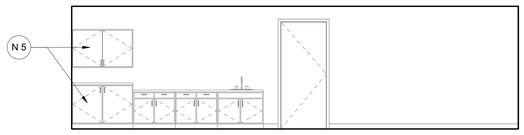
2 ENLARGED RCP - CLASSROOM B110
1/4" = 1'-0"



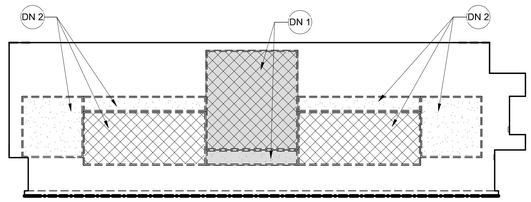
1 ENLARGED PLAN - CLASSROOM B110
1/4" = 1'-0"



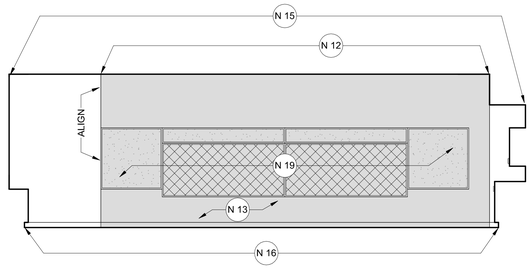
5 CLASSROOM B110 - SOUTH
1/4" = 1'-0"



4 CLASSROOM B110 - NORTH
1/4" = 1'-0"



3 CLASSROOM B110 - WEST_DEMOLITION
1/4" = 1'-0"



6 CLASSROOM B110 - WEST
1/4" = 1'-0"

SHEET NOTES - PLANS, RCP, & INTERIOR ELEVATIONS

A. All dimensions are to gridlines or face of finish, U.N.O.
B. All dimensions to be field verified.
C. Keynotes are not sheets specific.
D. Coordinate all work with other trades.

LEGEND - ENLARGED PLAN

- EXISTING WALL TO REMAIN
- SEISMIC BRACE WALL
- NEW SHEATHING ON EXISTING WALL
- EXISTING AIR TUNNELS
- 1 — WALL TAG, REFER TO SEE PARTITION TYPES SHEET
- NEW FLOORING, SEE FINISH FLOOR PLAN
- NEW CONCRETE FOOTING - PATCH AND REPAIR FLOORING
- X — FINISH TAG

LEGEND - ENLARGED RCP

- EXISTING 2X4 ACOUSTIC CEILING TILE TO REMAIN
- EXISTING GYPSUM BOARD CEILING TO REMAIN
- EXISTING 2X2 ACOUSTIC CEILING TILE TO REMAIN
- NEW 2X4 ACOUSTIC CEILING TILE, IN EXISTING GRID U.N.O.
- NEW GYPSUM BOARD CEILING
- NEW 2X2 ACOUSTIC CEILING TILE, IN EXISTING GRID U.N.O.
- EXISTING 2X2 FLUORESCENT
- EXISTING 1X4 FLUORESCENT
- REINSTALLED EXISTING 2X2 FLUORESCENT
- REINSTALLED EXISTING 1X4 FLUORESCENT

LEGEND - INTERIOR ELEVATIONS

- WALL PROTECTION
- NEW GYPSUM BOARD
- NEW ACOUSTIC PANEL
- TACK BOARD
- WHITE BOARD

KEYNOTES - ENLARGED PLANS & RCP

EF # EC #

EF 1 Install new Sureboard sheathing panels.
EF 2 Patch and repair slab at area of new footing work. Roll existing carpet back over floor with new adhesive.
EF 3 Reinstall all salvaged wall-mounted equipment and devices.
EF 4 Install new 5/8" gypsum board over new plywood sheathing - see Structural.
EF 5 Install new 1/2" plywood sheathing - see Structural.
EF 6 (E) VCT to remain; protect during construction.

EC 1 Install new ceiling tiles in existing ceiling grid. Provide gap and closure angle at perimeter. Modify grid for new seismic bracing per A-701 and along the perimeter as required at new shear wall improvements. Re-install salvaged light fixtures.

KEYNOTES - DEMOLITION INTERIOR ELEVATIONS

DN #

DN 1 Demolish center display and tack board.
DN 2 Remove display and tack surfaces; salvage and protect for reinstallation.

KEYNOTES - INTERIOR ELEVATION

N #

N 1 Reinstall salvaged (E) upper cabinets; repaint.
N 2 New plastic laminate countertop.
N 3 (E) base cabinets to remain; protect during construction. Paint to match adjacent new base cabinets.
N 4 New base cabinets and plumbing.
N 5 Protect (E) casework during construction.
N 6 Re-install all (E) salvaged wall mounted equipment and devices, surface mounted.
N 7 Reinstall (E) electrical panel - see Electrical.
N 8 Add trim piece at corner of tack board and wall protection
N 9 New wall protection, to match (E)
N 10 Paint wall to match (E), patch holes and sand for level 4 finish.
N 11 New tack board, to match (E).
N 12 Extents of new wall sheathing.
N 13 Reinstall all (E) salvaged wall mounted equipment and devices. All (E) surface mounted conduit and device boxes to be recessed in wall. Plugmold to remain surface mounted. Refer to general mounting height for placement.
N 14 Reinstall (E) salvaged tack board.
N 15 Patch, sand, and paint new and existing walls for consistent level 4 wall finish.
N 16 New rubber base.
N 17 (E) rubber base to remain.
N 18 24" x 30" sound absorptive panels - Add Alternate #1. Typical all panels in Music Room.
N 19 Re-install all (E) salvaged wall mounted display surfaces; re-position on wall. Reference elevations.

BEAVERTON SCHOOL DISTRICT

COOPER MOUNTAIN ELEMENTARY
7670 SW 170th AVE
BEAVERTON, OR 97007

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

Consultants:

COOPER MOUNTAIN ELEMENTARY SCHOOL
SRGP IMPROVEMENTS

PERMIT / BID SET

REGISTERED ARCHITECT
DEBORAH K. FRANCE
PORTLAND, OR
12/31/20
#5530
STATE OF OREGON

Date: 12/04/2020
Project Number: 90060
Drawn By: BPS
Checked By: CSM

Revision Schedule:

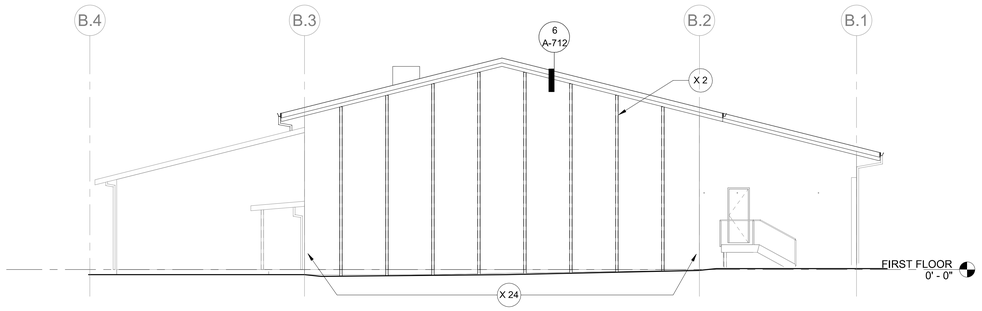
Sheet Title:
ENLARGED PLANS

Sheet Number:
A-233

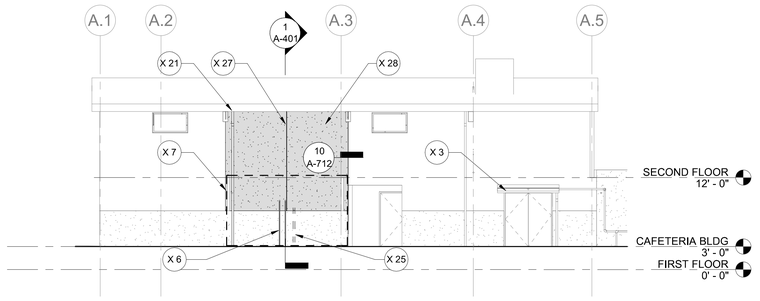
PERMIT / BID SET

12/4/2020 8:40:26 AM

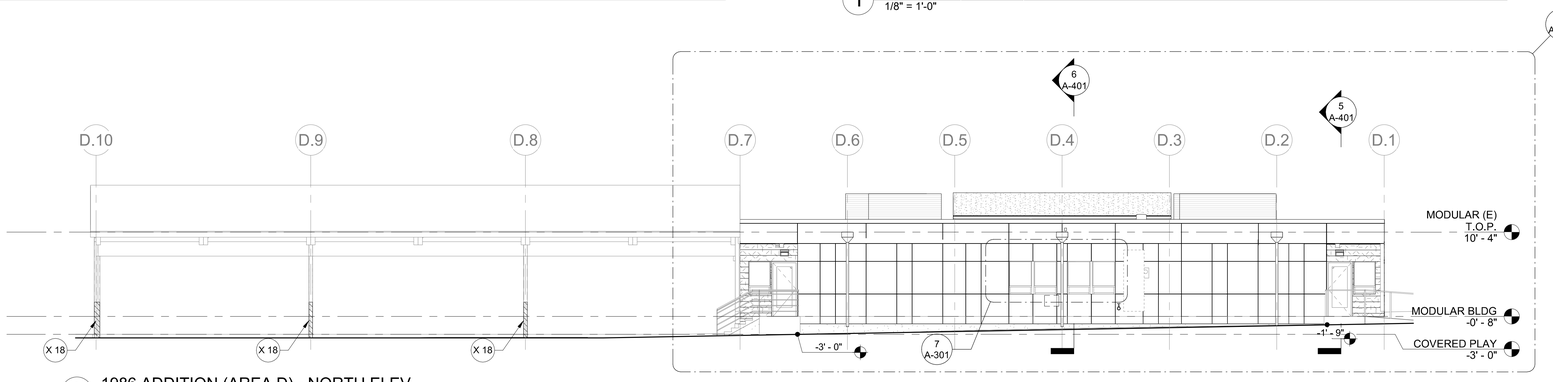
All ideas, designs, drawings, and plans set forth on these sheets are owned by and are the property of Oh planning+design, architecture. Any use, reuse, or disclosure of said plans, reproductions, ideas, designs, and/or arrangements without the written permission of Oh planning+design, architecture is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



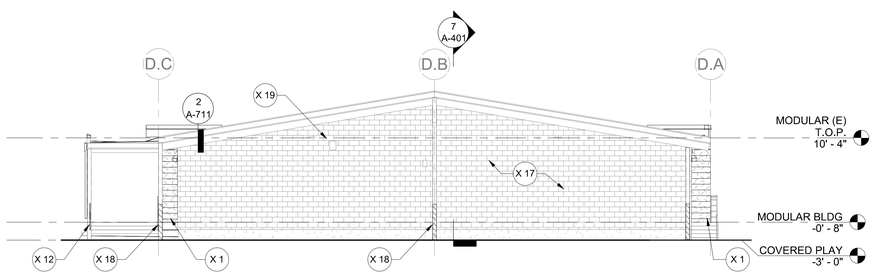
2 GYM (AREA B) - NORTH ELEV
1/8" = 1'-0"



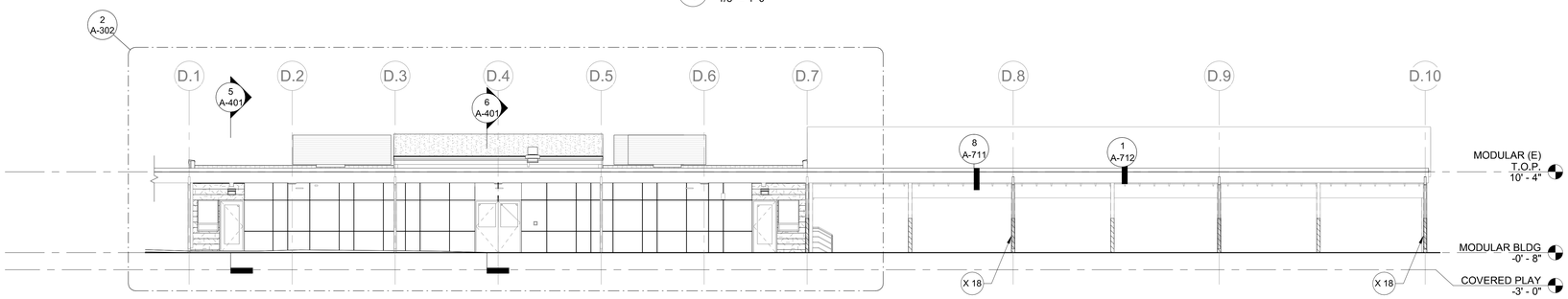
1 KITCHEN (AREA A) - SOUTH ELEV
1/8" = 1'-0"



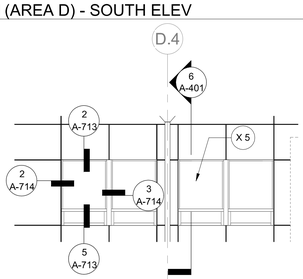
3 1986 ADDITION (AREA D) - NORTH ELEV
1/8" = 1'-0"



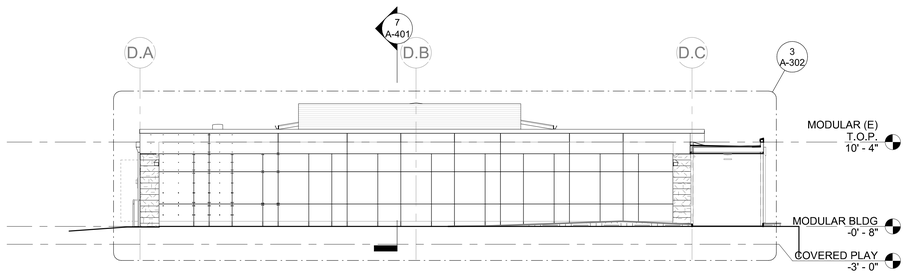
4 1986 ADDITION (AREA D) - EAST ELEV
1/8" = 1'-0"



5 1986 ADDITION (AREA D) - SOUTH ELEV
1/8" = 1'-0"



7 AREA D - ENLARGED WINDOW ELEVATION
1/4" = 1'-0"



6 1986 ADDITION (AREA D) - WEST ELEV
1/8" = 1'-0"

SHEET NOTES - EXTERIOR ELEVATION

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 Structural, Mechanical, Plumbing and Electrical drawings.
C. Refer to sheet A-302 for the Enlarged Exterior elevations, Fiber Cement Panel layout and dimensions at the 1986 Modular Addition.
D. Apply anti-graffiti coating to all new exterior wall finishes. Follow manufacturer's application and maintenance instructions.

KEYNOTES - EXTERIOR ELEVATION

X # — EXTERIOR ELEVATION

X 1	New fiber cement panel rainscreen siding over new plywood sheathing. Fill (E) wall cavities with new R-20 batt insulation.
X 2	New HSS strongbacks on exterior side of north wall. HSS to be full height and bolted to existing concrete tilt wall. Align strongbacks with existing roof joists - see Structural. Paint with high-performance coating to match existing exterior wall.
X 3	Install new blocking in (E) canopy framing; to match (E) - see Structural for details.
X 4	Reinstall salvaged speaker.
X 5	Reinstall salvaged windows.
X 6	(E) Refrigerant lines - see Mechanical.
X 7	(E) Fencing to remain. Protect during construction.
X 8	Provide new prefinished scupper, leaderhead, and downspout. Color to match P-4. Connect to (E) boot at grade.
X 9	Reinstall salvaged electrical service and metering equipment - see Electrical.
X 10	New hose bib.
X 11	Reinstall salvaged irrigation controllers.
X 12	New high-performance coating on (E) railings.
X 13	New wall pack light fixture - see Electrical.
X 14	Reinstall salvaged emergency strobe light.
X 15	New prefinished sheet metal fascia to match existing.
X 16	Paint interior and exterior side of door. Remove hardware for paint and reinstall hardware and door.
X 17	Paint CMU wall with paint color P-4 and apply anti-graffiti coating on surface.
X 18	Paint exposed surface of column to match (E). Paint base 48" AFF to be P-3.
X 19	(E) speaker to remain. Remove protective grill, protect speaker in place to paint CMU wall. Prepare grill to receive paint to match CMU wall and reinstall.
X 20	(E) conduit to be relocated within wall cavity.
X 21	New downspout; reconnect to existing pipe.
X 22	(E) J-Box to be flush mount. Provide new cover
X 23	Reinstall salvaged access control to be salvaged and reinstalled. All conduit to be within wall cavity; devices to be surface-mounted.
X 24	Paint exterior wall to match existing.
X 25	(E) electrical lines to remain; protect during construction - see Electrical.
X 26	Lap siding layout start point. Align bottom of lap siding edge with top of door/window frame.
X 27	Control joint.
X 28	Apply anti-graffiti coating to new stucco siding.

LEGEND - EXTERIOR ELEVATION

- NEW STUCCO SIDING TO MATCH (E)
- NEW FIBER CEMENT PANEL. RE: A-302 FOR SIDING PANEL INFORMATION
- PAINT EXTERIOR WALL. COLOR TO MATCH EXISTING

BEAVERTON SCHOOL DISTRICT

COOPER MOUNTAIN ELEMENTARY
7670 SW 170th AVE
BEAVERTON, OR 97007

Oh PLANNING+DESIGN, ARCHITECTURE
115 NW 1st Ave, Ste, 300
Portland, OR 97209

Consultants:

COOPER MOUNTAIN ELEMENTARY SCHOOL
SRGP IMPROVEMENTS

PERMIT / BID SET

REGISTERED ARCHITECT
DEBORAH K. FRANCE
PORTLAND OR
12/31/20
#5530
STATE OF OREGON

Date: 12/04/2020
Project Number: 90060
Drawn By: BPS
Checked By: CSM

Revision Schedule:

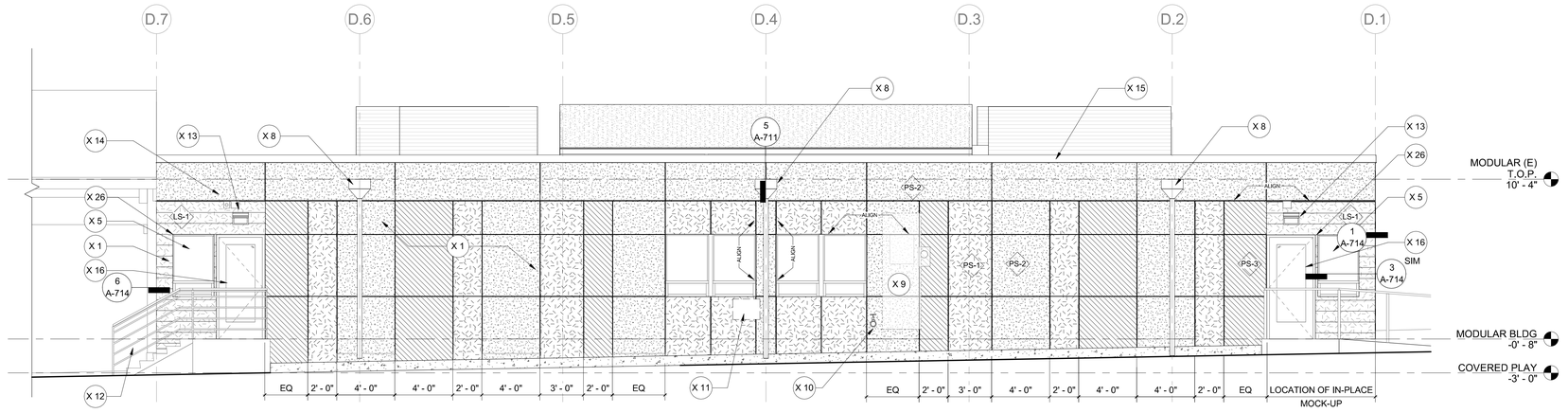
Sheet Title:
EXTERIOR ELEVATIONS

Sheet Number:
A-301

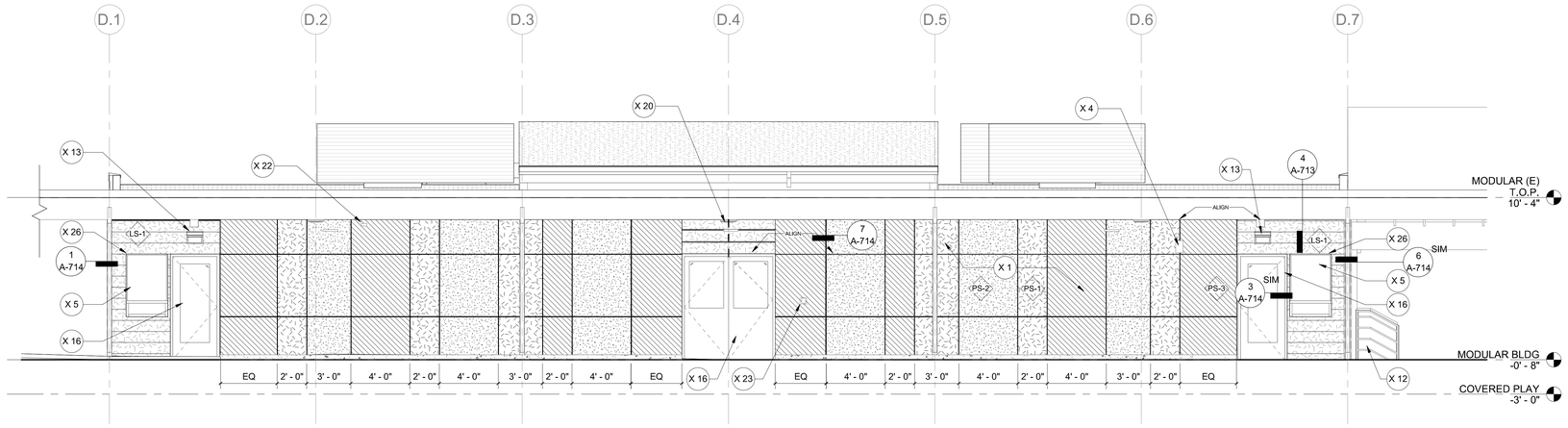
PERMIT / BID SET

12/4/2020 8:36:32 AM

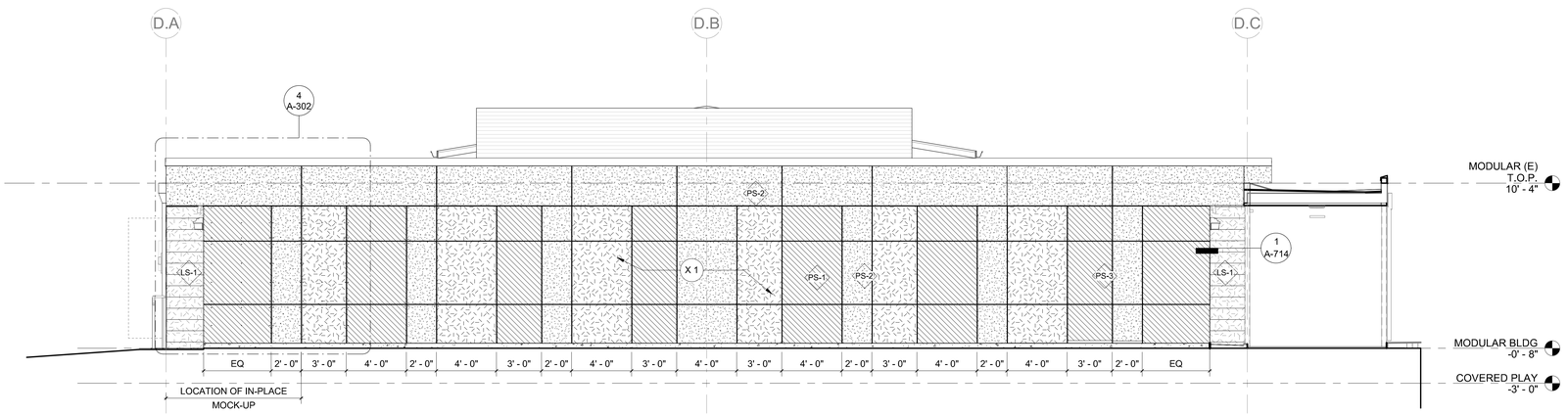
All ideas, designs, drawings, and plans set forth on these sheets are owned by and are the property of Oh planning+design, architecture. Any use, reuse, or disclosure of said plans, reproductions, ideas, designs, and/or arrangements without the written permission of Oh planning+design, architecture is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



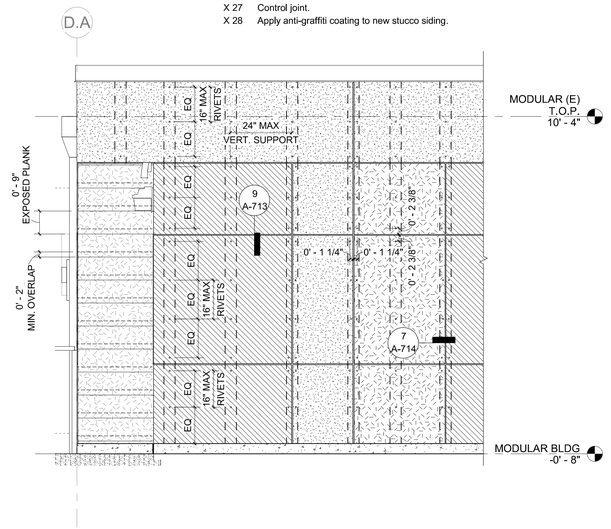
1 1986 ADDITION (AREA D) - NORTH ELEV - SIDING
1/4" = 1'-0"



2 1986 ADDITION (AREA D) - SOUTH ELEV - SIDING
1/4" = 1'-0"



3 1986 ADDITION (AREA D) - WEST ELEV - SIDING
1/4" = 1'-0"



4 TYPICAL SIDING ATTACHMENT LAYOUT
1/2" = 1'-0"

SIDING LAYOUT ELEVATION SHEET NOTES

A. Siding Layout Elevation Keynotes (X#) are consistent across all Exterior Elevation sheets. Not all keynotes are used on each sheet.
B. Coordinate all work with other disciplines - see Structural, Mechanical, Plumbing, Electrical, and other drawings for additional scope.
C. Fiber cement siding to have factory applied anti-graffiti coating.
D. Coordinate with (E) window and door openings
E. All dimensions to be field verified.
F. The minimum panel joints between panels is 5/16". The minimum air space required is 3/4" behind all panels.
G. Min air flow at base and top of walls is required to have at least 60% unobstructed ventilation with ventilated profiles and bug screen. Horizontal profiles should allow min. of 75% air flow.

EXTERIOR ELEVATIONS LEGEND

LS-1 — **LS-1: 5/16" INTEGRALLY - COLORED FIBER CEMENT PANEL SIDING**
9" EXPOSED FACE; SMOOTH TEXTURE
BASIS OF DESIGN COLOR: ONYX 7091

PS-1 — **PS-2: 5/16" INTEGRALLY - COLORED FIBER CEMENT PANEL SIDING**
VARIOUS SIZE PANELS; SMOOTH TEXTURE + REVEALS
BASIS OF DESIGN COLOR: ONYX 7091

PS-2 — **PS-2: 5/16" INTEGRALLY - COLORED FIBER CEMENT PANEL SIDING**
VARIOUS SIZE PANELS; SMOOTH TEXTURE + REVEALS
BASIS OF DESIGN COLOR: ONYX 7090

PS-3 — **PS-3: 5/16" INTEGRALLY - COLORED FIBER CEMENT PANEL SIDING**
VARIOUS SIZE PANELS; SMOOTH TEXTURE + REVEALS
BASIS OF DESIGN COLOR: AZURITE 7041

KEYNOTES - EXTERIOR ELEVATION (X #)

X 1 New fiber cement panel rainscreen siding over new plywood sheathing. Fill (E) wall cavities with new R-20 batt insulation.
X 2 New HSS strongbacks on exterior side of north wall. HSS to be full height and bolted to existing concrete tilt wall. Align strongbacks with existing roof joists - see Structural. Paint with high-performance coating to match existing exterior wall.
X 3 Install new blocking in (E) canopy framing; to match (E) - see Structural for details.
X 4 Reinstall salvaged speaker.
X 5 Reinstall salvaged windows.
X 6 (E) Refrigerant lines - see Mechanical.
X 7 (E) Fencing to remain. Protect during construction.
X 8 Provide new prefinished scupper, leaderhead, and downspout. Color to match P-4. Connect to (E) boot at grade.
X 9 Reinstall salvaged electrical service and metering equipment - see Electrical.
X 10 New hose bib.
X 11 Reinstall salvaged irrigation controllers.
X 12 New high-performance coating on (E) railings.
X 13 New wall pack light fixture - see Electrical.
X 14 Reinstall salvaged emergency strobe light.
X 15 New prefinished sheet metal fascia to match existing.
X 16 Paint interior and exterior side of door. Remove hardware for paint and reinstall hardware and door.
X 17 Paint CMU wall with paint color P-4 and apply anti-graffiti coating on surface.
X 18 Paint exposed surface of column to match (E). Paint base 48" AFF to be P-3.
X 19 (E) speaker to remain. Remove protective grill, protect speaker in place to paint CMU wall. Prepare grill to receive paint to match CMU wall and reinstall.
X 20 (E) conduit to be relocated within wall cavity.
X 21 New downspout; reconnect to existing pipe.
X 22 (E) J-Box to be flush mount. Provide new cover
X 23 Reinstall salvaged access control to be salvaged and reinstalled. All conduit to be within wall cavity; devices to be surface-mounted.
X 24 Paint exterior wall to match existing.
X 25 (E) electrical lines to remain; protect during construction - see Electrical.
X 26 Lap siding layout start point. Align bottom of lap siding edge with top of door/window frame.
X 27 Control joint.
X 28 Apply anti-graffiti coating to new stucco siding.

BEAVERTON SCHOOL DISTRICT

COOPER MOUNTAIN ELEMENTARY
7670 SW 170th AVE
BEAVERTON, OR 97007

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

Consultants:

COOPER MOUNTAIN ELEMENTARY SCHOOL
SRGP IMPROVEMENTS

PERMIT / BID SET

REGISTERED ARCHITECT
DEBORAH K. FRANCE
PORTLAND, OR
12/31/20
#5530
STATE OF OREGON

Date: 12/04/2020
Project Number: 90060
Drawn By: SKB
Checked By: CDM

Revision Schedule:

Sheet Title:
ENLARGED EXTERIOR ELEVATIONS - AREA D

Sheet Number:
A-302

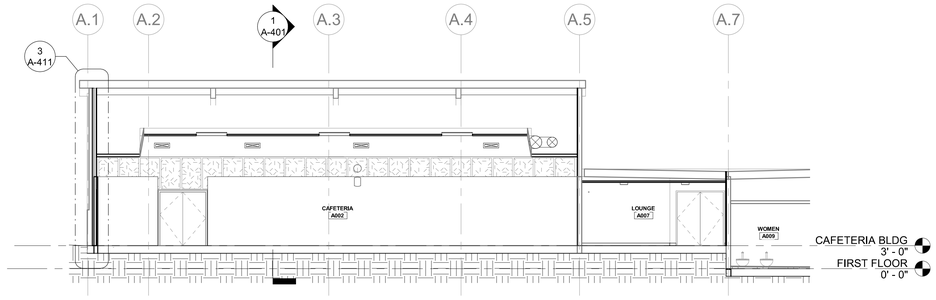
PERMIT / BID SET

12/4/2020 8:40:02 AM

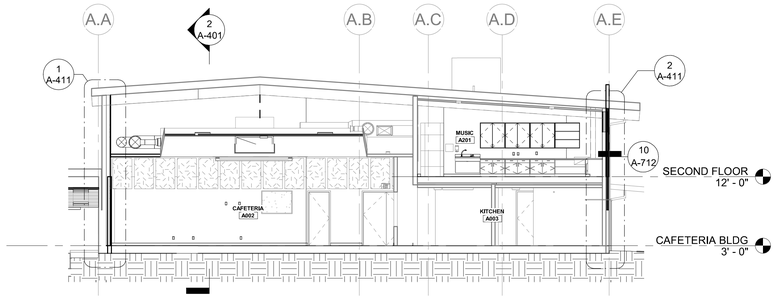
All ideas, designs, drawings, and plans set forth on these sheets are owned by and are the property of Oh planning+design, architecture. Any use, reuse, or disclosure of said plans, reproductions, ideas, designs, and/or arrangements without the written permission of Oh planning+design, architecture is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

SHEET NOTES - BUILDING SECTION

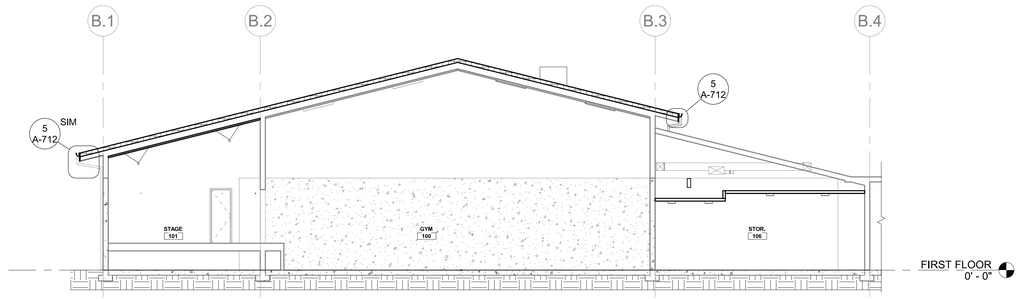
A. Sections are shown for reference only and are not intended to display scope of work.
B. For additional information, see Structural, Mechanical, Plumbing, and Electrical drawings.



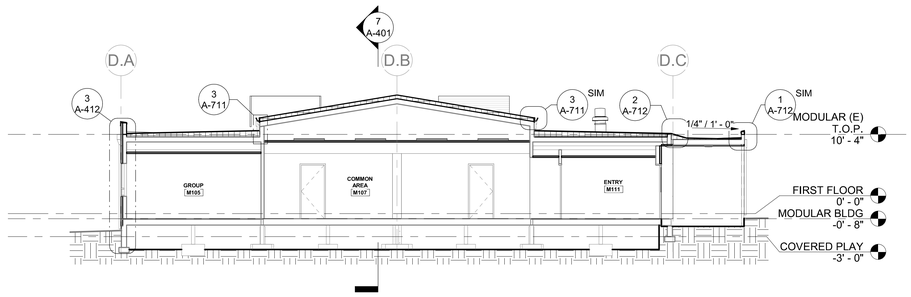
2 E-W SECTION - AREA A CAFETERIA
1/8" = 1'-0"



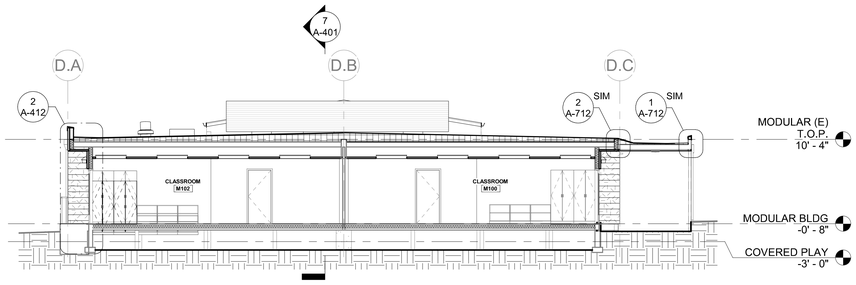
1 N-S SECTION - AREA A CAFETERIA
1/8" = 1'-0"



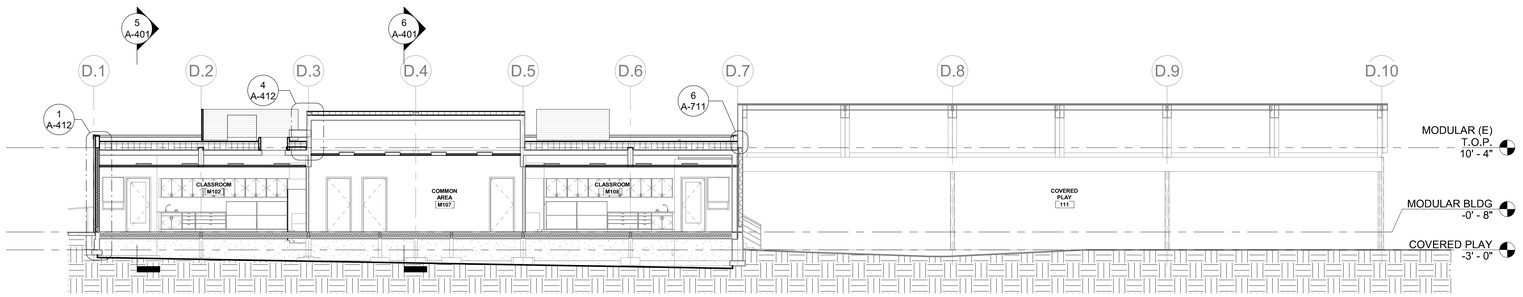
3 E-W SECTION - AREA B GYM
1/8" = 1'-0"



6 N-S SECTION - AREA D MODULAR POP-UP
1/8" = 1'-0"



5 N-S SECTION - AREA D MODULAR
1/8" = 1'-0"



7 E-W SECTION - AREA D MODULAR
1/8" = 1'-0"

12/4/2020 8:36:38 AM

BEAVERTON SCHOOL DISTRICT

COOPER MOUNTAIN ELEMENTARY
7670 SW 170th AVE
BEAVERTON, OR 97007

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

Consultants:

COOPER MOUNTAIN ELEMENTARY SCHOOL
SRGP IMPROVEMENTS

PERMIT / BID SET

REGISTERED ARCHITECT
DEBORAH K. KRAUSE
OREGON
12/31/20
#5530
STATE OF OREGON

Date: 12/04/2020
Project Number: 90060
Drawn By: SKB, CDM
Checked By: CSM

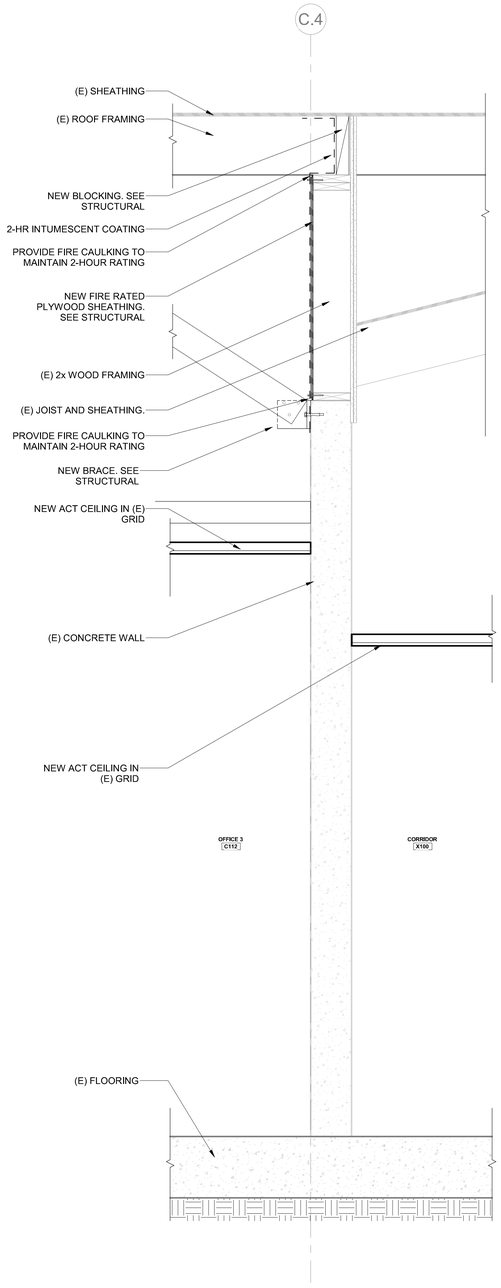
Revision Schedule:

Sheet Title:
BUILDING SECTIONS

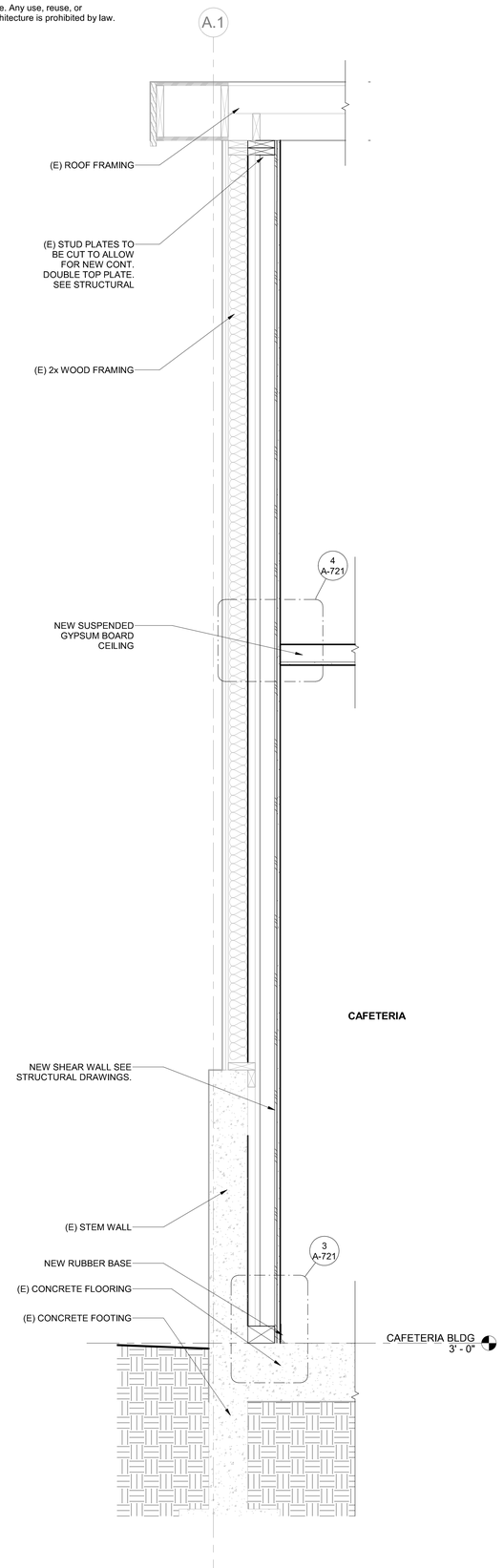
Sheet Number:
A-401

PERMIT / BID SET

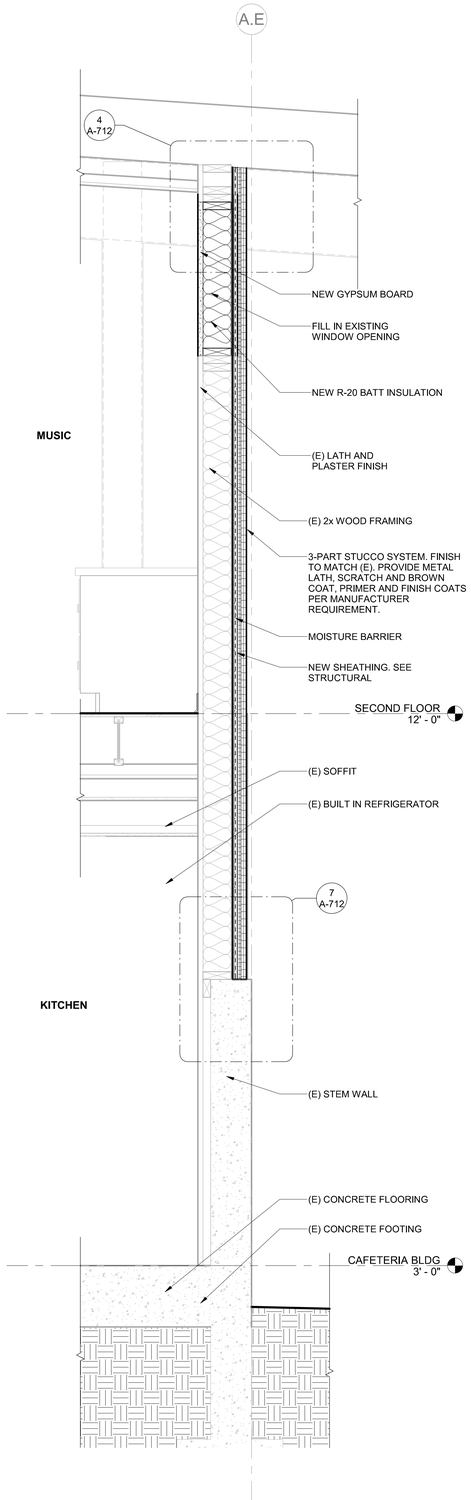
All ideas, designs, drawings, and plans set forth on these sheets are owned by and are the property of Oh planning+design, architecture. Any use, reuse, or disclosure of said plans, reproductions, ideas, designs, and/or arrangements without the written permission of Oh planning+design, architecture is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



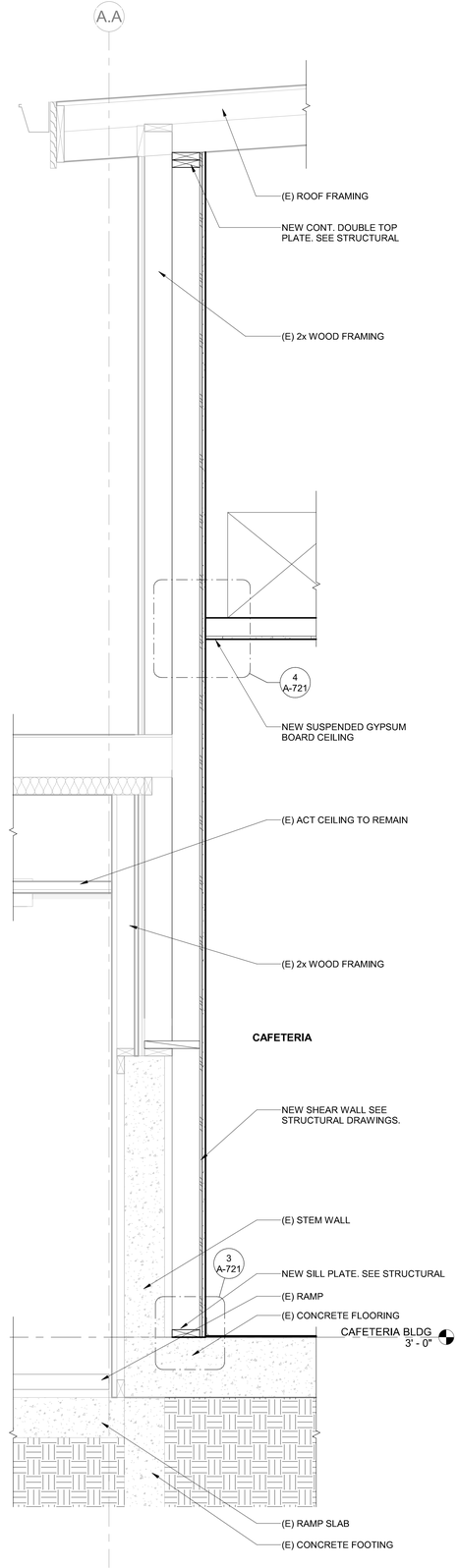
4 WALL SECTION - AREA C TILT WALL BRACING
1" = 1'-0"



3 WALL SECTION - AREA A WEST WALL
1" = 1'-0"



2 WALL SECTION - AREA A SOUTH WALL
1" = 1'-0"



1 WALL SECTION - AREA A NORTH WALL
1" = 1'-0"

12/4/2020 8:38:13 AM

BEAVERTON SCHOOL DISTRICT

COOPER MOUNTAIN ELEMENTARY
7670 SW 170th AVE
BEAVERTON, OR 97007

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

Consultants:

COOPER MOUNTAIN ELEMENTARY SCHOOL
SRGP IMPROVEMENTS

PERMIT / BID SET

REGISTERED ARCHITECT
DEBORAH K. FRANCE
PORTLAND, OR
12/31/20
#5530
STATE OF OREGON

Date: 12/04/2020
Project Number: 90060
Drawn By: SKB
Checked By: CSM

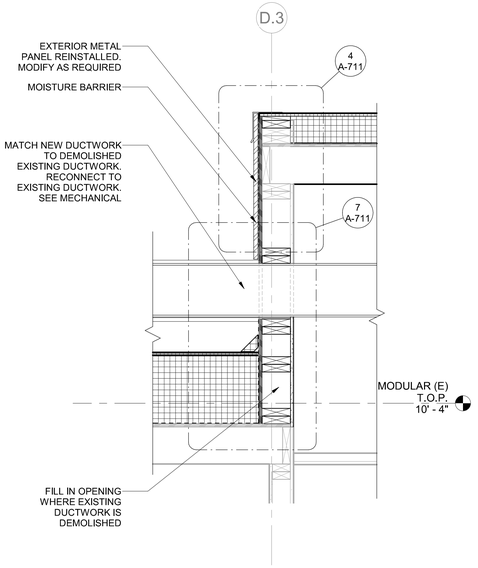
Revision Schedule:

Sheet Title:
WALL SECTIONS

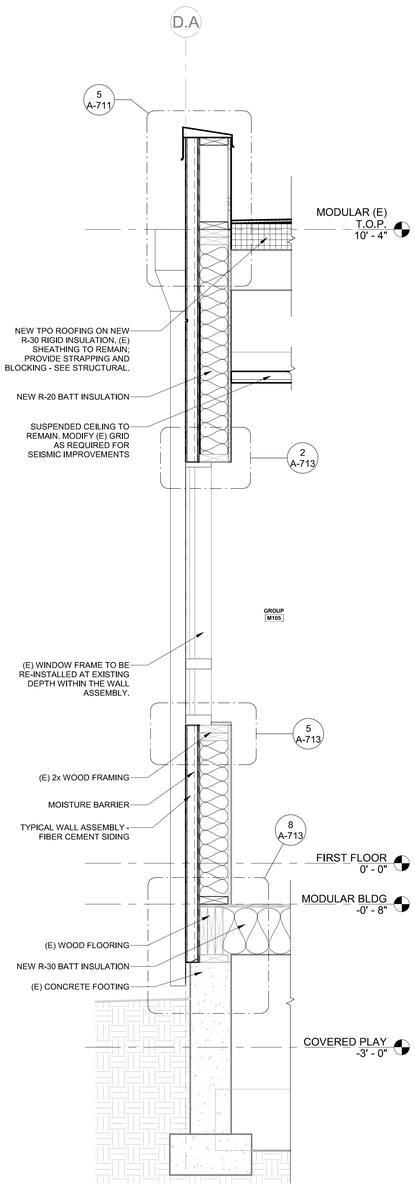
Sheet Number:
A-411

PERMIT / BID SET

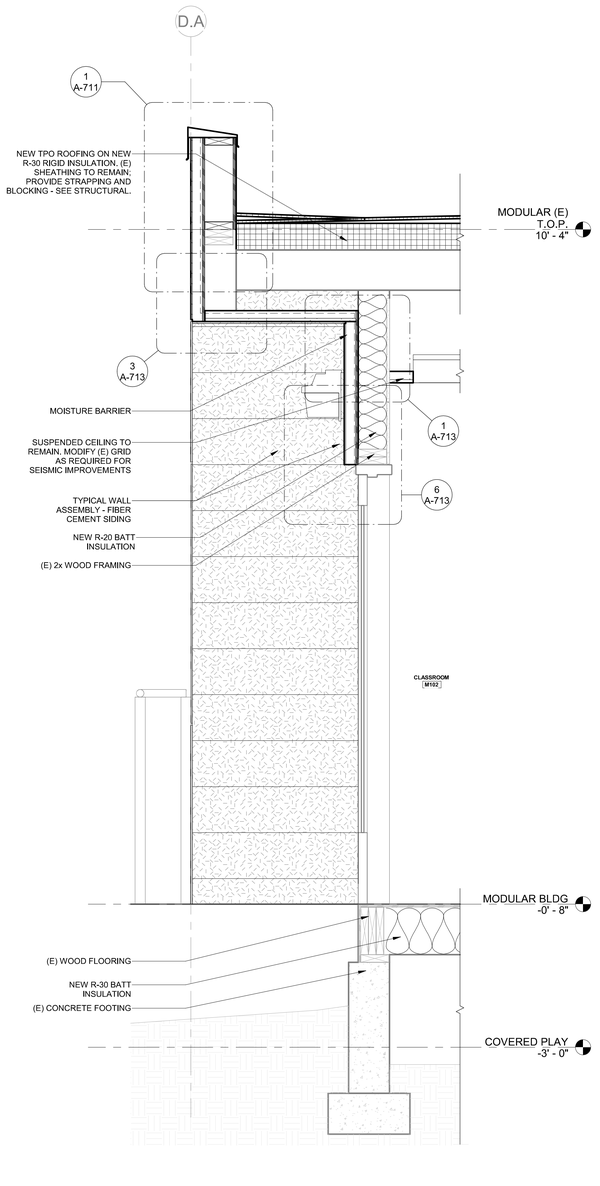
All ideas, designs, drawings, and plans set forth on these sheets are owned by and are the property of Oh planning+design, architecture. Any use, reuse, or disclosure of said plans, reproductions, ideas, designs, and/or arrangements without the written permission of Oh planning+design, architecture is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



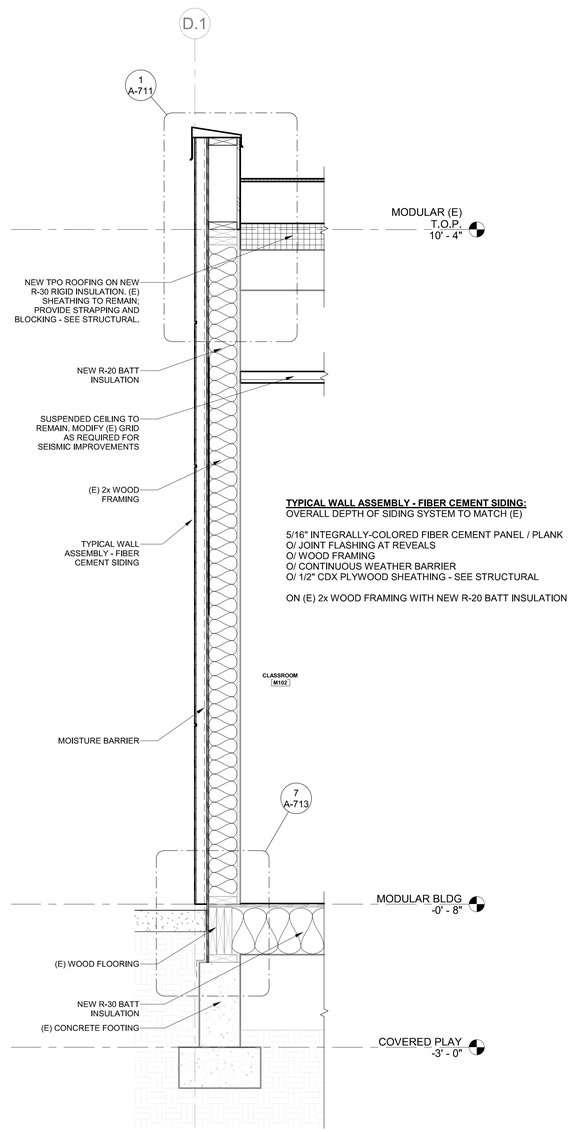
4 AREA D MODULAR - POP UP SIDE WALL
1" = 1'-0"



3 WALL SECTION- AREA D AT WINDOWS
1" = 1'-0"



2 WALL SECTION - AREA D ALCOVE
1" = 1'-0"



TYPICAL WALL ASSEMBLY - FIBER CEMENT SIDING:
OVERALL DEPTH OF SIDING SYSTEM TO MATCH (E)

5/16" INTEGRALLY-COLORED FIBER CEMENT PANEL / PLANK
O/ JOINT FLASHING AT REVEALS
O/ WOOD FRAMING
O/ CONTINUOUS WEATHER BARRIER
O/ 1/2" CDX PLYWOOD SHEATHING - SEE STRUCTURAL

ON (E) 2x WOOD FRAMING WITH NEW R-20 BATT INSULATION

1 WALL SECTION - AREA D TYP. WALL
1" = 1'-0"

BEAVERTON SCHOOL DISTRICT

COOPER MOUNTAIN ELEMENTARY
7670 SW 170th AVE
BEAVERTON, OR 97007

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

Consultants:

COOPER MOUNTAIN ELEMENTARY SCHOOL
SRGP IMPROVEMENTS

PERMIT / BID SET

REGISTERED ARCHITECT
DEBORAH K. FRANCE
PORTLAND, OR
12/31/20
#5530
STATE OF OREGON

Date: 12/04/2020
Project Number: 90060
Drawn By: SKB, CDM
Checked By: CSM

Revision Schedule:

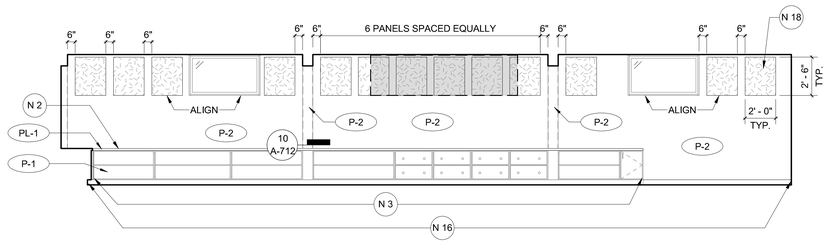
Sheet Title:
WALL SECTIONS

Sheet Number:
A-412

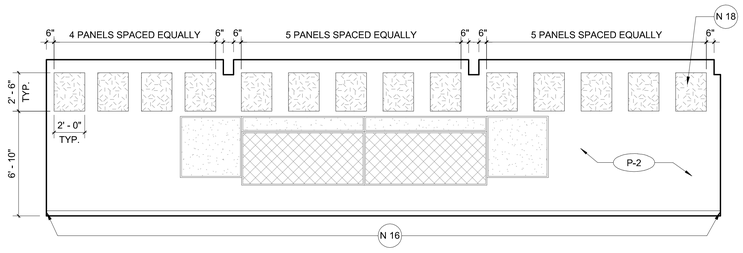
PERMIT / BID SET

12/4/2020 8:40:30 AM

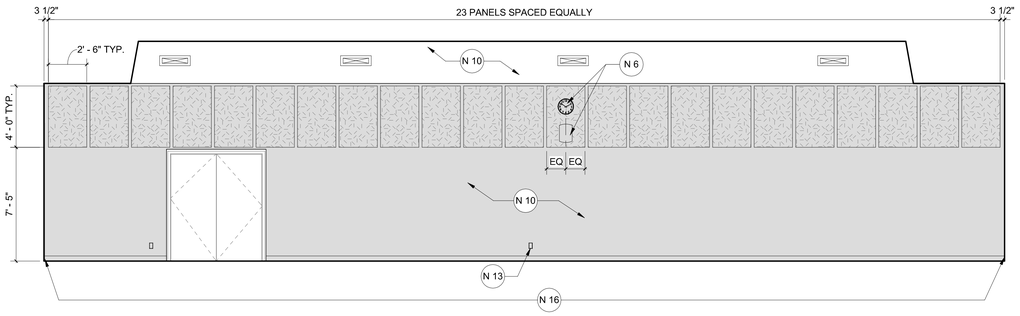
All ideas, designs, drawings, and plans set forth on these sheets are owned by and are the property of Oh planning+design, architecture. Any use, reuse, or disclosure of said plans, reproductions, ideas, designs, and/or arrangements without the written permission of Oh planning+design, architecture is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



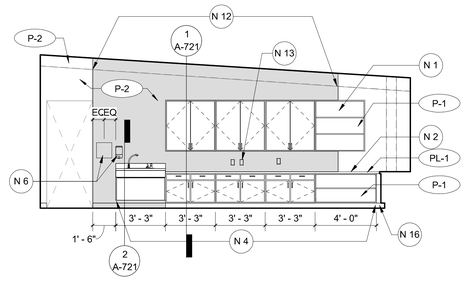
2 MUSIC ROOM - A201 SOUTH
1/4" = 1'-0"



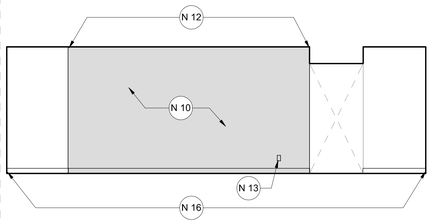
1 MUSIC ROOM - A201 NORTH
1/4" = 1'-0"



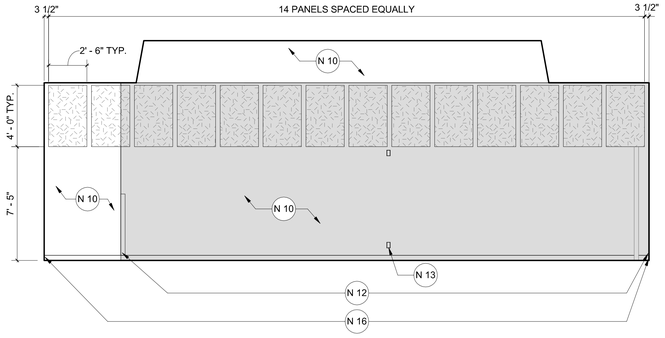
4 CAFETERIA - NORTH
1/4" = 1'-0"



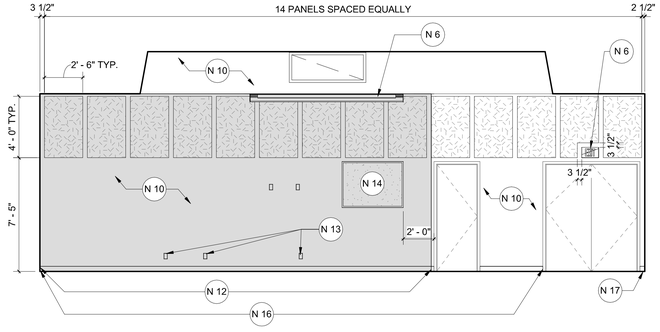
3 MUSIC ROOM - A201 EAST
1/4" = 1'-0"



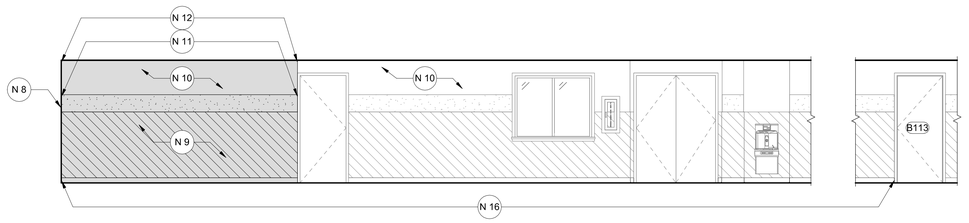
7 LOUNGE - EAST
1/4" = 1'-0"



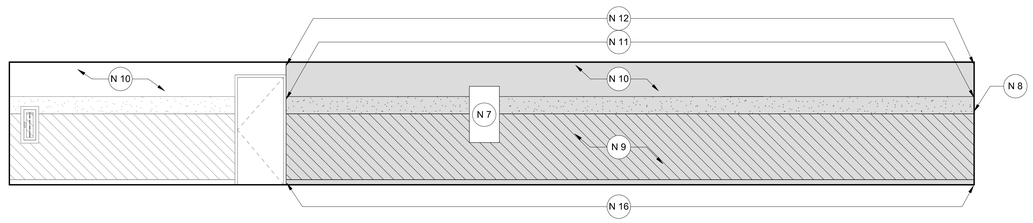
6 CAFETERIA - WEST
1/4" = 1'-0"



5 CAFETERIA - EAST
1/4" = 1'-0"



8 CORRIDOR X100 - EAST
1/4" = 1'-0"



9 A HALL - SOUTH
1/4" = 1'-0"

SHEET NOTES - INTERIOR ELEVATION

A. Keynotes are not sheet specific.
B. All dimensions shown are to face of finish U.N.O. Do not measure drawings to determine dimensions. Large scale details take precedence over smaller scale drawings.
C. Contractor shall field verify all existing construction and related conditions prior to starting demolition or new construction.
D. Contractor to inform architect of any discrepancies within drawings or between drawings and field conditions before commencement of affected work.
E. 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.
F. All interior patching and repair shall occur in the interior improvements scope of work. Contractor shall protect all existing exposed construction from damage resulting from or related to demolition and construction operations.
G. Contractor shall repair or replace any existing construction to remain that is damaged in the course of the work to its original condition.
H. 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.
I. Contractor is responsible for all waste removal and site clean up during performance of and at completion of the work.
J. Contractor to coordinate installation and scheduling of Owner or Owner's vendor provided or installed fixtures and equipment.
K. 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.
L. 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. Contractor must still provide carpentry, mechanical, electrical and/or plumbing work as necessary for Certificate of Occupancy.

LEGEND - INTERIOR ELEVATIONS

- WALL PROTECTION
- NEW GYPSUM BOARD
- NEW ACOUSTIC PANEL
- TACK BOARD
- WHITE BOARD

KEYNOTES - INTERIOR ELEVATION

(N #)

N 1 Reinstall salvaged (E) upper cabinets; repaint.
N 2 New plastic laminate countertop.
N 3 (E) base cabinets to remain; protect during construction. Paint to match adjacent new base cabinets.
N 4 New base cabinets and plumbing.
N 5 Protect (E) casework during construction.
N 6 Re-install all (E) salvaged wall mounted equipment and devices, surface mounted.
N 7 Reinstall (E) electrical panel - see Electrical.
N 8 Add trim piece at corner of tack board and wall protection
N 9 New wall protection, to match (E)
N 10 Paint wall to match (E), patch holes and sand for level 4 finish.
N 11 New tack board, to match (E).
N 12 Extents of new wall sheathing.
N 13 Reinstall all (E) salvaged wall mounted equipment and devices. All (E) surface mounted conduit and device boxes to be recessed in wall. Plugmold to remain surface mounted. Refer to general mounting height for placement.
N 14 Reinstall (E) salvaged tack board.
N 15 Patch, sand, and paint new and existing walls for consistent level 4 wall finish.
N 16 New rubber base.
N 17 (E) rubber base to remain.
N 18 24" x 30" sound absorptive panels - Add Alternate #1. Typical all panels in Music Room.
N 19 Re-install all (E) salvaged wall mounted display surfaces; re-position on wall. Reference elevations.

BEAVERTON SCHOOL DISTRICT

COOPER MOUNTAIN ELEMENTARY
7670 SW 170th AVE
BEAVERTON, OR 97007

Oh PLANNING+DESIGN, ARCHITECTURE
115 NW 1st Ave, Ste, 300
Portland, OR 97209

Consultants:

COOPER MOUNTAIN ELEMENTARY SCHOOL
SRGP IMPROVEMENTS

PERMIT / BID SET

REGISTERED ARCHITECT
DEBORAH K. FRANCE
PORTLAND OR
12/31/20
#5530
STATE OF OREGON

Date: 12/04/2020
Project Number: 90060
Drawn By: BPS
Checked By: CSM

Revision Schedule:

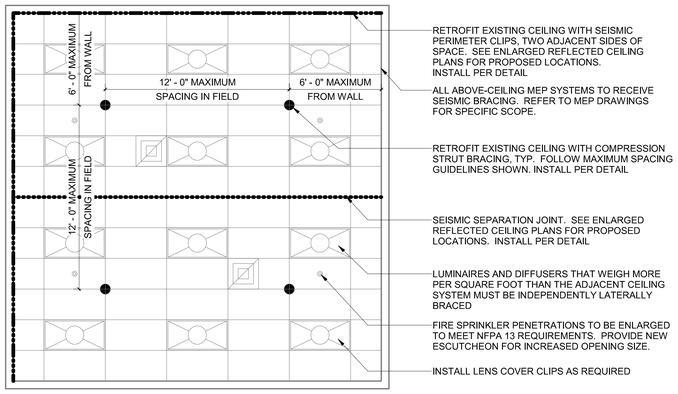
Sheet Title:
INTERIOR ELEVATIONS

Sheet Number:
A-601

PERMIT / BID SET

12/4/2020 8:38:44 AM

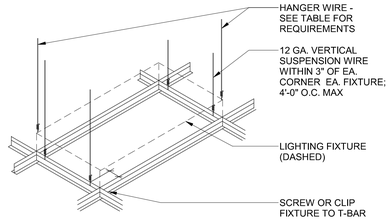
All ideas, designs, drawings, and plans set forth on these sheets are owned by and are the property of Oh planning+design, architecture. Any use, reuse, or disclosure of said plans, reproductions, ideas, designs, and/or arrangements without the written permission of Oh planning+design, architecture is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



4 TYPICAL BRACING - ACT CEILINGS AND CEILING ITEMS
1/4" = 1'-0"

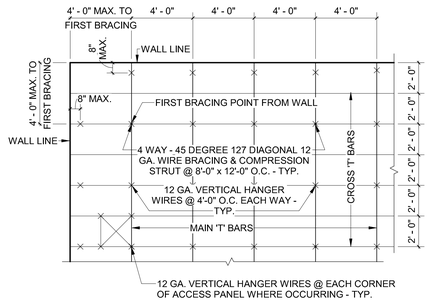
ELECTRICAL FIXTURE REQUIREMENTS		
<10 LBS.	1-12 GA WIRE	SLACK
>10 LBS. <56 LBS.	2-12 GA WIRE	SLACK
>56 LBS.	SUPPORT DIRECTLY FROM STRUCTURE	TAUT

NOTE: HANGER WIRE TO CHANGE NO MORE THAN 1 IN 6 OUT-OF-PLUMB



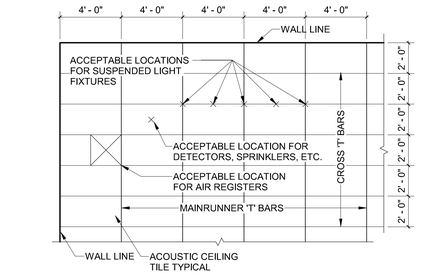
MEET CURRENT CODE

3 TYPICAL CEILING HANGER WIRE



NOTES:
1. THE ABOVE DIAGRAM SHOWS THE MAXIMUM SPACING OF SUPPORT AND BRACING ELEMENTS. COORDINATE WITH MECHANICAL AND ELECTRICAL ABOVE CEILING ELEMENTS WHILE MAINTAINING MAXIMUM SPACING SHOWN.

2 ACT CEILING BRACING LAYOUT
1/4" = 1'-0"



NOTES:
1. SUSPENDED CEILINGS SHALL BE DESIGNED TO COMPLY WITH THE NORTHWEST WALL & CEILING BUREAU'S CURRENT FIELD TECHNICAL INFORMATION BULLETIN 401-SUSPENSION SYSTEMS FOR ACOUSTICAL LAY-IN CEILINGS, SEISMIC DESIGN CATEGORIES D,E,& F.
2. COORDINATE WITH MECHANICAL AND ELECTRICAL ABOVE CEILING ELEMENTS.
3. COORDINATE WITH STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION. STRUCTURAL DETAILS WILL SUPERCEDE INFORMATION SHOWN ON THIS SHEET.

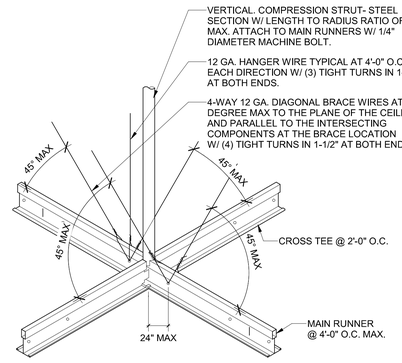
1 ACT CEILING TYPICAL MOUNTING LOCATIONS
1/4" = 1'-0"

NOTE:
CONTRACTOR TO CONFIRM COMPATIBILITY OF SEISMIC EXPANSION JOINT CLIP SYSTEM WITH EXISTING CEILING GRID
- REFER TO MANUFACTURER'S INSTALLATION REQUIREMENTS

7 ACT SEISMIC EXPANSION JOINT

NOTE:
CONTRACTOR TO CONFIRM COMPATIBILITY OF SEISMIC PERIMETER SEPARATION CLIP SYSTEM WITH EXISTING CEILING GRID
- REFER TO MANUFACTURER'S INSTALLATION REQUIREMENTS

6 ACT SEISMIC PERIMETER SEPARATION



5 ACT CEILING SEISMIC BRACING

BEAVERTON SCHOOL DISTRICT

COOPER MOUNTAIN ELEMENTARY
7670 SW 170th AVE
BEAVERTON, OR 97007

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

Consultants:

COOPER MOUNTAIN ELEMENTARY SCHOOL
SRGP IMPROVEMENTS

PERMIT / BID SET

REGISTERED ARCHITECT
DEBORAH K. FRANCE
PORTLAND OR
12/31/20
#5539
STATE OF OREGON

Date: 12/04/2020
Project Number: 90060
Drawn By: SKB
Checked By: CSM

Revision Schedule:

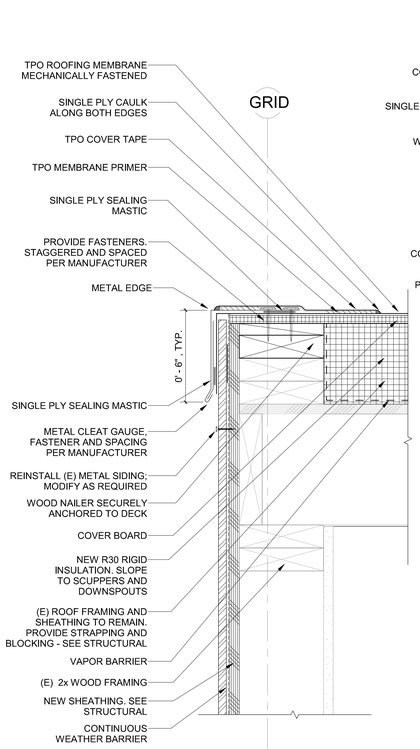
Sheet Title:
CEILING DETAILS

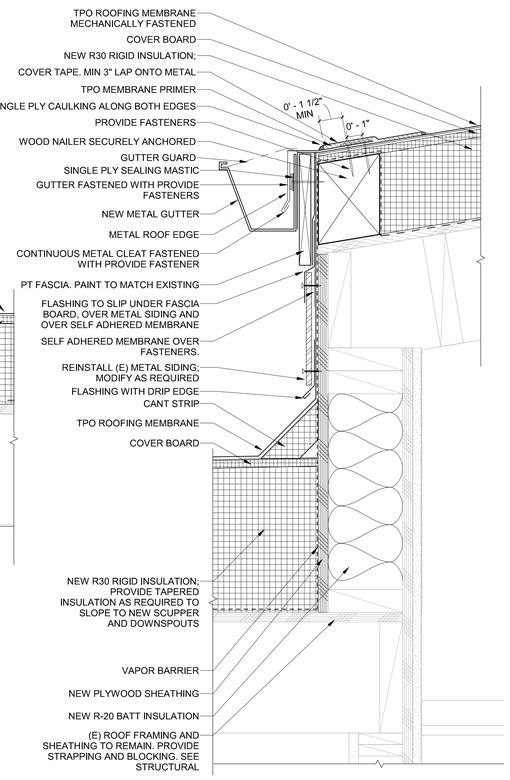
Sheet Number:
A-701

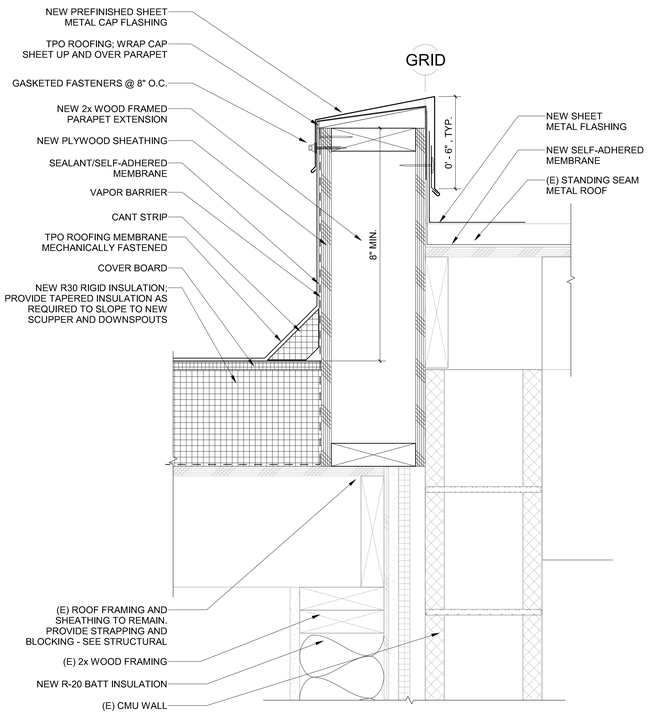
PERMIT / BID SET

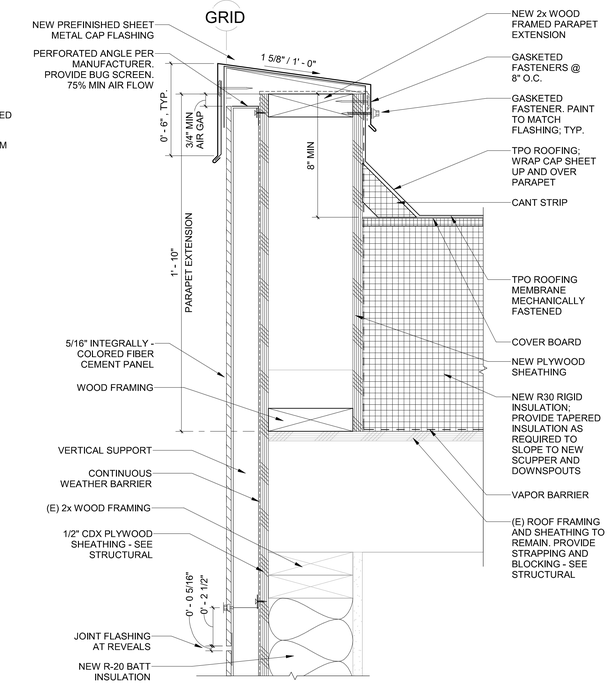
12/4/2020 8:40:11 AM

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.

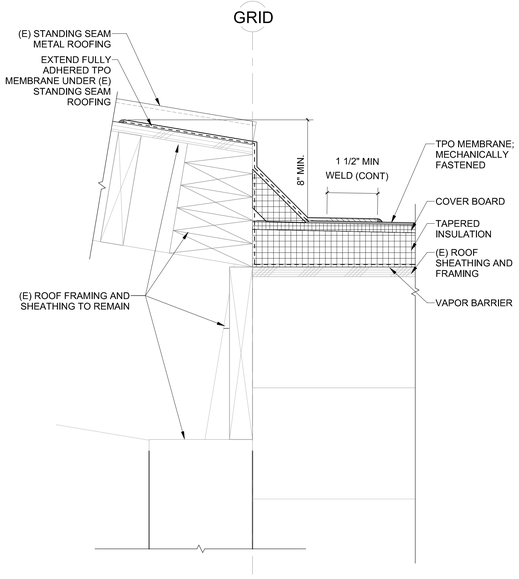




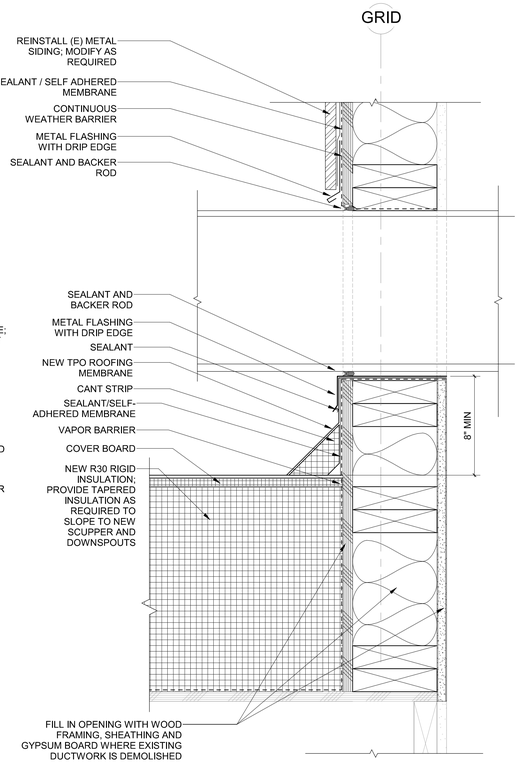




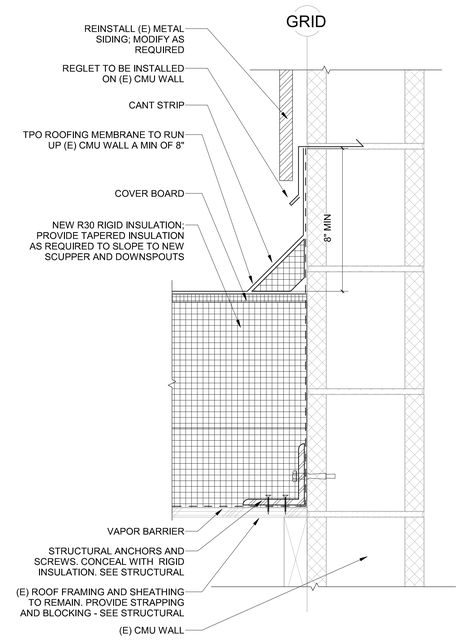
4 AREA D - ROOF DETAIL @ POP UP
3" = 1'-0"



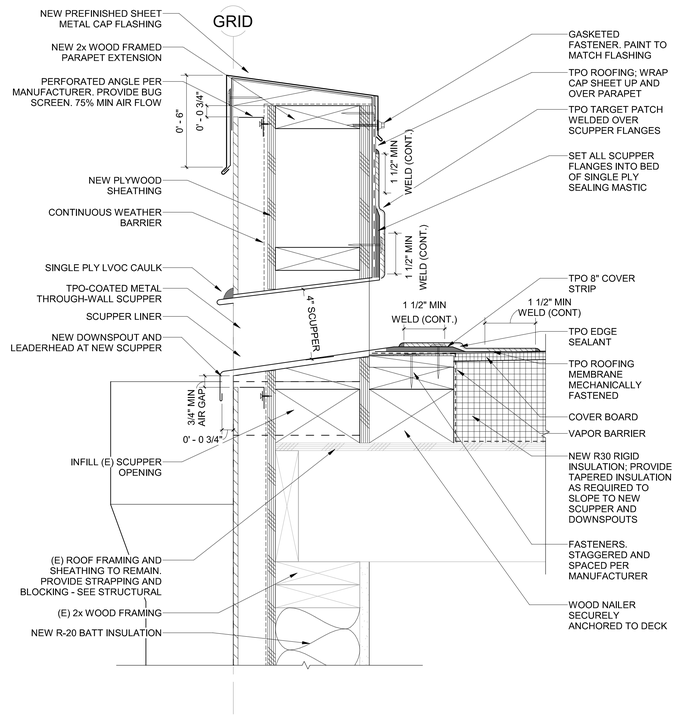
3 AREA D - ROOF EDGE @ POP UP
3" = 1'-0"



2 AREA D - NEW PARAPET AT ROOF INTERSECTION
3" = 1'-0"



1 AREA D - TYP. PARAPET EXTENSION DETAIL
3" = 1'-0"



8 AREA D - INTERSECTION @ CORRUGATED METAL ROOFING
3" = 1'-0"

7 AREA D - ROOF DETAIL @ POP UP INTERSECTION
3" = 1'-0"

6 AREA D - ROOF AT CMU WALL
3" = 1'-0"

5 AREA D - TYP. NEW PARAPET AT SCUPPER
3" = 1'-0"

12/4/2020 8:38:03 AM

BEAVERTON SCHOOL DISTRICT

COOPER MOUNTAIN ELEMENTARY

7670 SW 170th AVE
BEAVERTON, OR 97007

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

Consultants:

COOPER MOUNTAIN ELEMENTARY SCHOOL
SRGP IMPROVEMENTS

PERMIT / BID SET

REGISTERED ARCHITECT
DEBORAH K. FRANCE
PORTLAND OR
12/31/20
#5539
STATE OF OREGON

Date: 12/04/2020
Project Number: 90060
Drawn By: SKB
Checked By: CSM

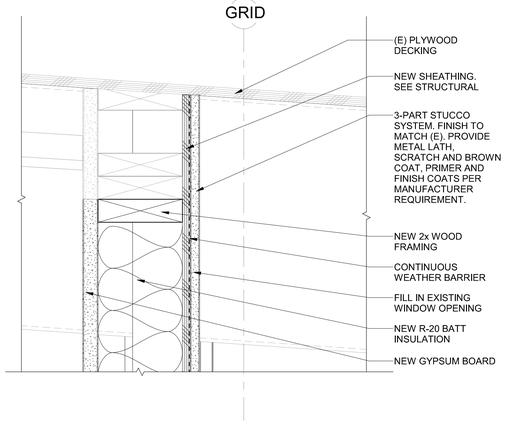
Revision Schedule:

Sheet Title:
EXTERIOR DETAILS

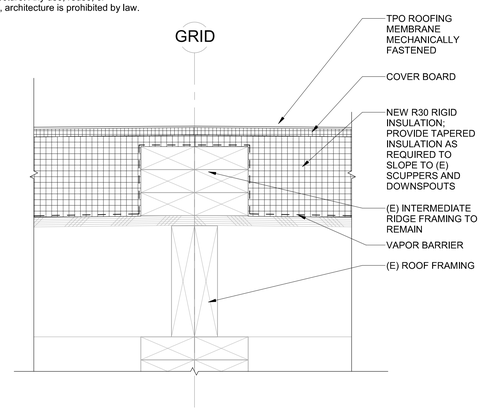
Sheet Number:
A-711

PERMIT / BID SET

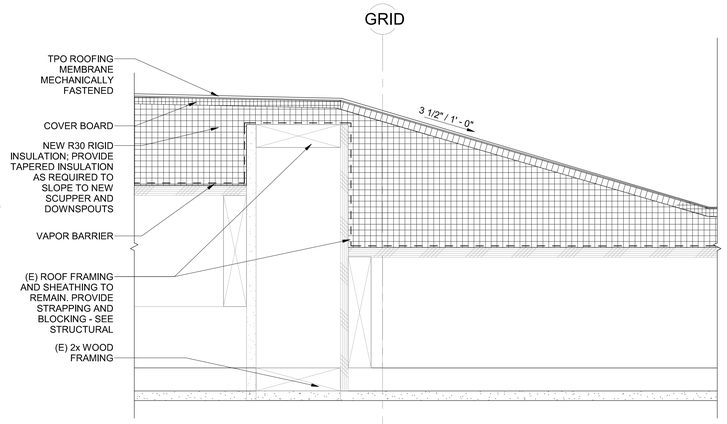
All ideas, designs, drawings, and plans set forth on these sheets are owned by and are the property of Oh planning+design, architecture. Any use, reuse, or disclosure of said plans, reproductions, ideas, designs, and/or arrangements without the written permission of Oh planning+design, architecture is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



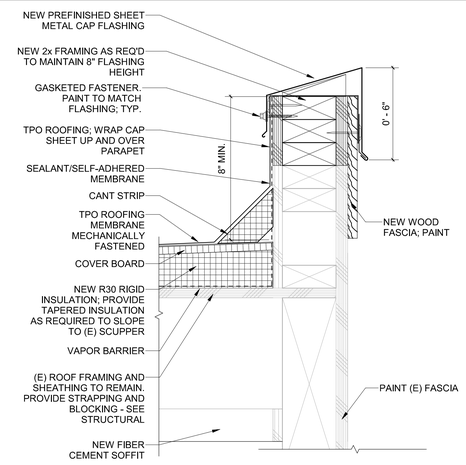
4 AREA A - WALL TO ROOF DETAIL
3" = 1'-0"



3 AREA D - TYP. RIDGE DETAIL
3" = 1'-0"



2 AREA D - ROOF INTERSECTION @ WALKWAY
3" = 1'-0"

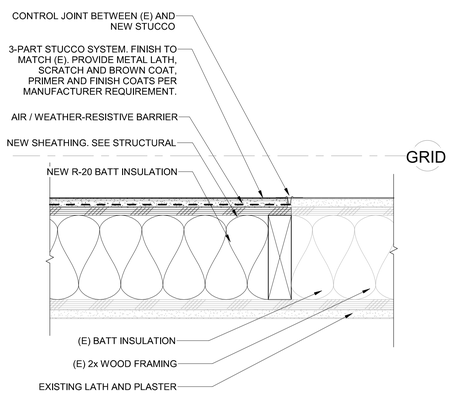


1 AREA D - COVERED WALK PARAPET
3" = 1'-0"

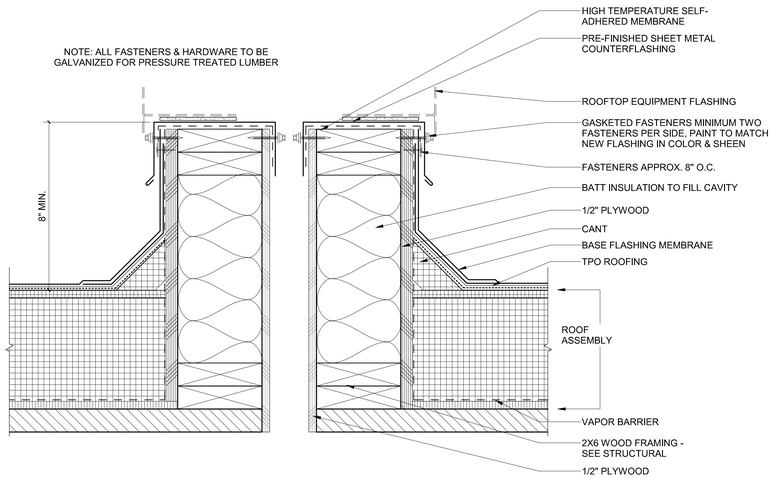
7 AREA A - WALL TO CONCRETE DETAIL
3" = 1'-0"

6 AREA A - RAKE DETAIL
3" = 1'-0"

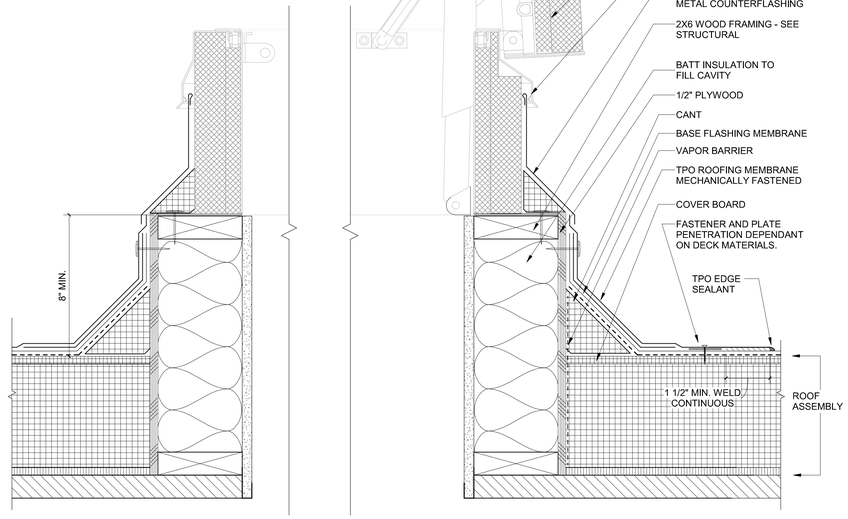
5 AREA A - TYPICAL GUTTER DETAIL
3" = 1'-0"



10 AREA A - TRANSITION DETAIL
3" = 1'-0"



9 TYPICAL CURB AT MECHANICAL EQUIPMENT
3" = 1'-0"



8 TYPICAL CURB AT ROOF HATCH
3" = 1'-0"

12/4/2020 8:40:14 AM

BEAVERTON SCHOOL DISTRICT

COOPER MOUNTAIN ELEMENTARY

7670 SW 170th AVE
BEAVERTON, OR 97007

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

Consultants:

COOPER MOUNTAIN ELEMENTARY SCHOOL
SRGP IMPROVEMENTS

PERMIT / BID SET

REGISTERED ARCHITECT
DEBORAH K. KRANTZ
PORTLAND OR
12/31/20
#5539
STATE OF OREGON

Date:	12/04/2020
Project Number:	90060
Drawn By:	SKB, CDM
Checked By:	CSM

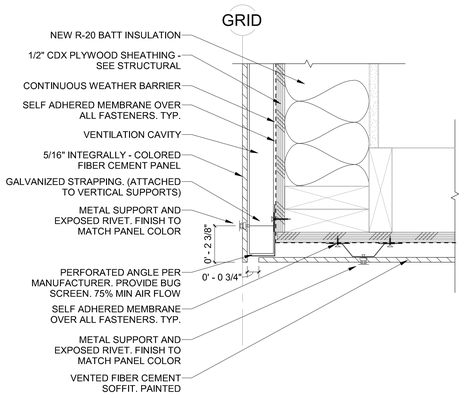
Revision Schedule:

Sheet Title:
EXTERIOR DETAILS

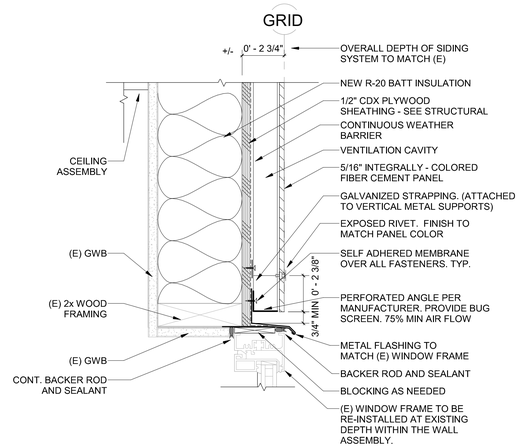
Sheet Number:
A-712

PERMIT / BID SET

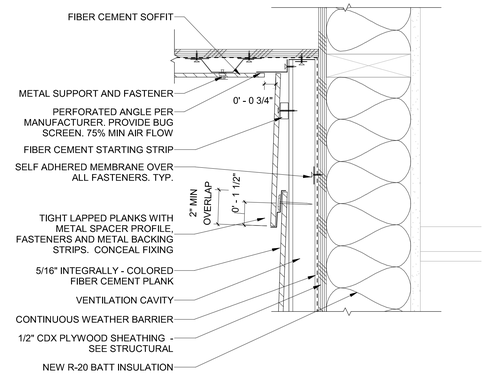
All ideas, designs, drawings, and plans set forth on these sheets are owned by and are the property of Oh planning+design, architecture. Any use, reuse, or disclosure of said plans, reproductions, ideas, designs, and/or arrangements without the written permission of Oh planning+design, architecture is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



3 AREA D - SOFFIT TO PARAPET DETAIL
3" = 1'-0"



2 AREA D - SIDING DETAIL AT WINDOW HEAD
3" = 1'-0"

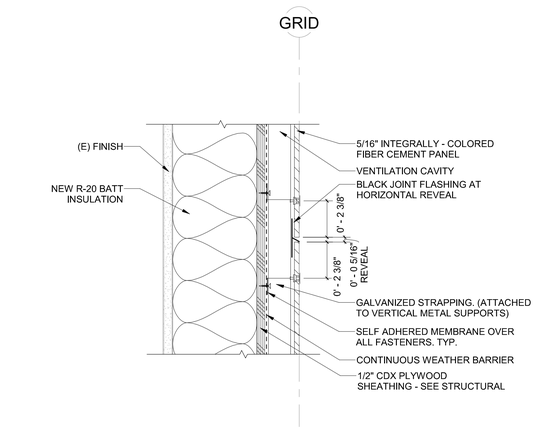


1 AREA D - SOFFIT TO WALL DETAIL
3" = 1'-0"

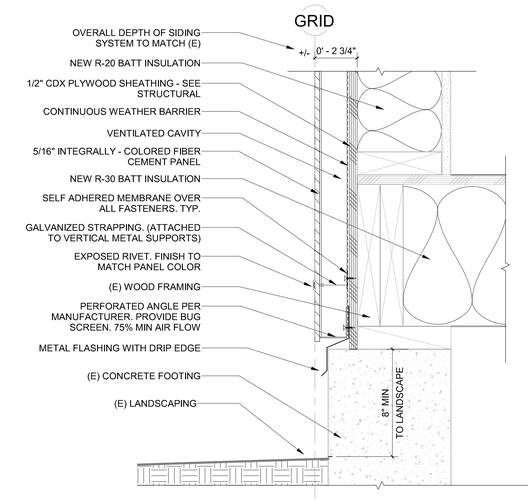
6 AREA D - SIDING DETAIL AT DOOR HEAD
3" = 1'-0"

5 AREA D - SIDING DETAIL AT WINDOW SILL
3" = 1'-0"

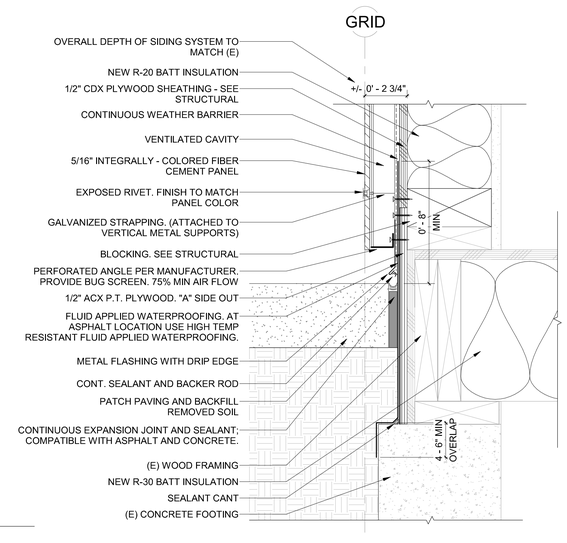
4 TYPICAL LINEAR SIDING DETAIL
3" = 1'-0"



9 TYPICAL HORIZONTAL REVEAL
3" = 1'-0"



8 STEM WALL BASE DETAIL - NORTH WALL
3" = 1'-0"



7 CONCRETE AND GRADE WALL BASE DETAIL
3" = 1'-0"

BEAVERTON SCHOOL DISTRICT

COOPER MOUNTAIN ELEMENTARY
7670 SW 170th AVE
BEAVERTON, OR 97007

Oh PLANNING+DESIGN, ARCHITECTURE
115 NW 1st Ave, Ste, 300
Portland, OR 97209

Consultants:

COOPER MOUNTAIN ELEMENTARY SCHOOL
SRGP IMPROVEMENTS

PERMIT / BID SET

REGISTERED ARCHITECT
DEBORAH K. FRASIER
PORTLAND, OR
12/31/20
#5530
STATE OF OREGON

Date: 12/04/2020
Project Number: 90060
Drawn By: SKB
Checked By: CSM

Revision Schedule:

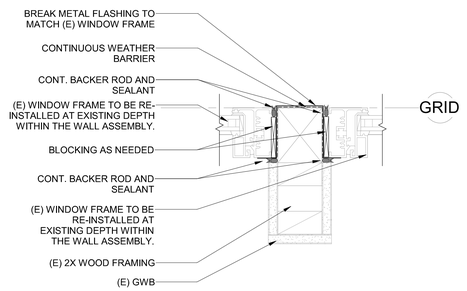
Sheet Title:
SIDING SECTION DETAILS

Sheet Number:
A-713

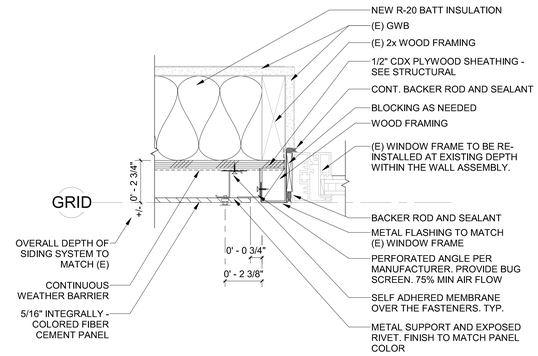
PERMIT / BID SET

12/4/2020 9:02:48 AM

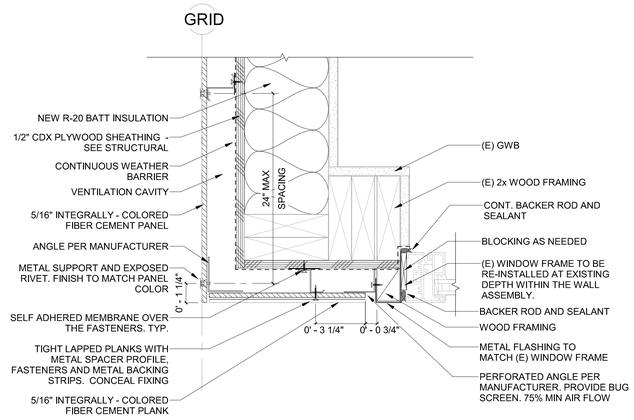
All ideas, designs, drawings, and plans set forth on these sheets are owned by and are the property of Oh planning+design, architecture. Any use, reuse, or disclosure of said plans, reproductions, ideas, designs, and/or arrangements without the written permission of Oh planning+design, architecture is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



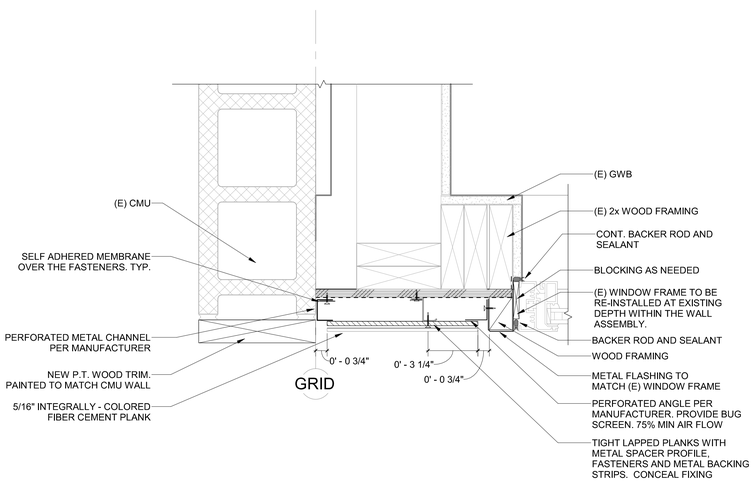
3 TYPICAL WINDOW DETAIL
3" = 1'-0"



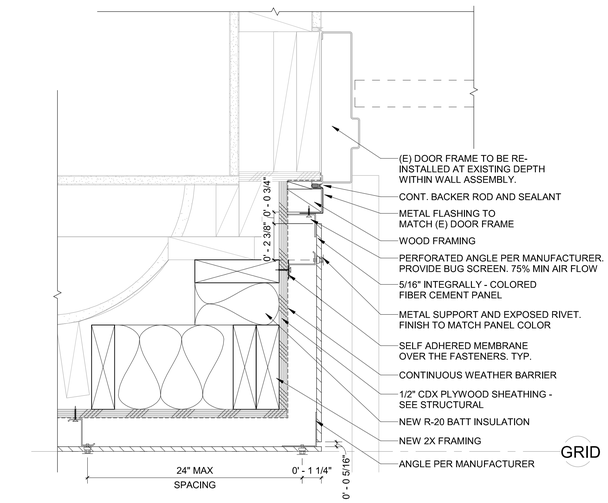
2 AREA D - SIDING DETAIL AT WINDOW JAMB
3" = 1'-0"



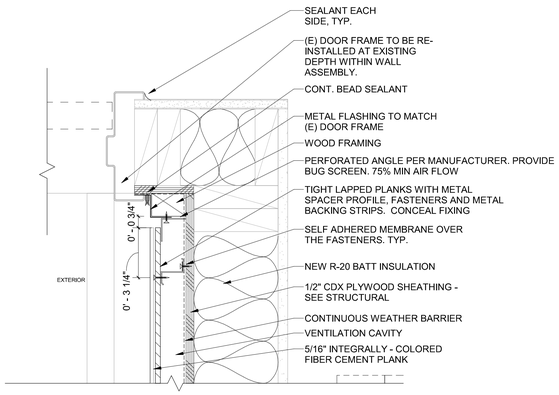
1 OUTSIDE CORNER AT FIBER CEMENT LAP SIDING
3" = 1'-0"



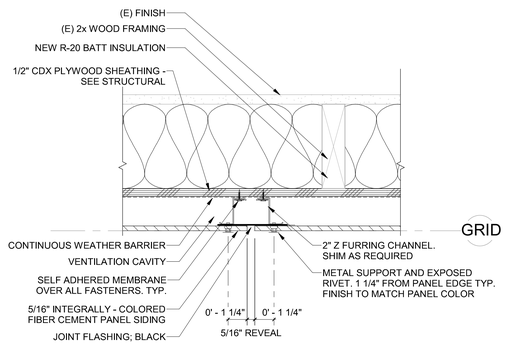
6 OUTSIDE CORNER AT FIBER CEMENT AND CMU
3" = 1'-0"



5 OUTSIDE CORNER AT ENTRY DOOR
3" = 1'-0"



4 OUTSIDE CORNER AT FIBER CEMENT LAP SIDING DOOR
3" = 1'-0"



7 TYPICAL VERTICAL REVEAL
3" = 1'-0"

12/4/2020 8:40:33 AM

BEAVERTON SCHOOL DISTRICT

COOPER MOUNTAIN ELEMENTARY
7670 SW 170th AVE
BEAVERTON, OR 97007

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

Consultants:

COOPER MOUNTAIN ELEMENTARY SCHOOL
SRGP IMPROVEMENTS

PERMIT / BID SET

REGISTERED ARCHITECT
DEBORAH K. FRANCE
PORTLAND, OR
12/31/20
#5530
STATE OF OREGON

Date:	12/04/2020
Project Number:	90060
Drawn By:	SKB
Checked By:	CDM

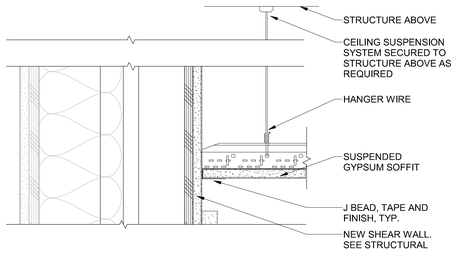
Revision Schedule:

Sheet Title:
SIDING PLAN DETAILS

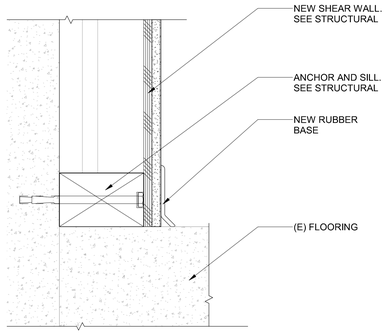
Sheet Number:
A-714

PERMIT / BID SET

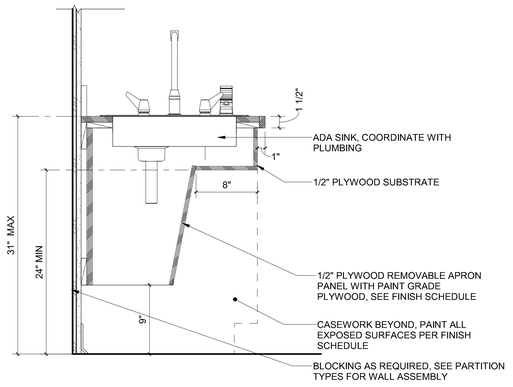
All ideas, designs, drawings, and plans set forth on these sheets are owned by and are the property of Oh planning+design, architecture. Any use, reuse, or disclosure of said plans, reproductions, ideas, designs, and/or arrangements without the written permission of Oh planning+design, architecture is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



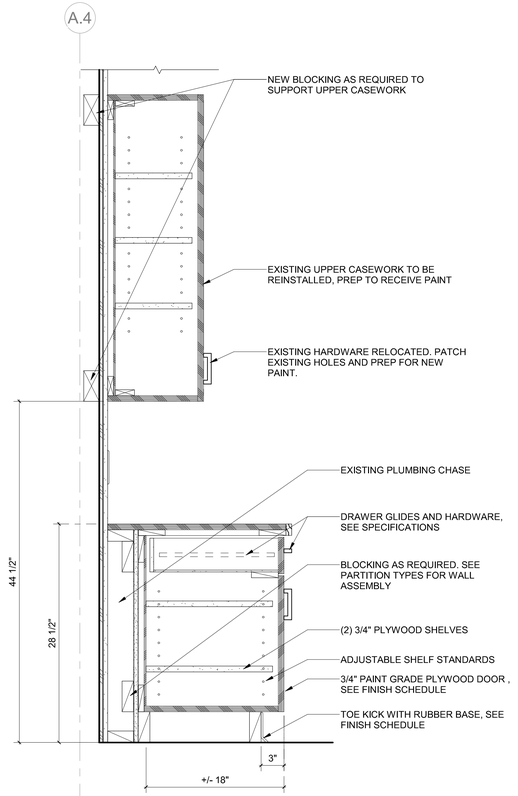
4 AREA A - CEILING @ CAFETERIA
3" = 1'-0"



3 AREA A - WALL BASE @ CAFETERIA
3" = 1'-0"



2 TYP. CASEWORK AT ADA SINK
1 1/2" = 1'-0"



1 TYP. CASEWORK AT MUSIC ROOM
1 1/2" = 1'-0"

12/4/2020 8:36:47 AM

BEAVERTON SCHOOL DISTRICT

COOPER MOUNTAIN ELEMENTARY
7670 SW 170th AVE
BEAVERTON, OR 97007

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

Consultants:

COOPER MOUNTAIN ELEMENTARY SCHOOL
SRGP IMPROVEMENTS

PERMIT / BID SET

REGISTERED ARCHITECT
DEBORAH K. FRANCE
PORTLAND, OR
12/31/20
#5530
STATE OF OREGON

Date: 12/04/2020
Project Number: 90060
Drawn By: BPS
Checked By: CSM

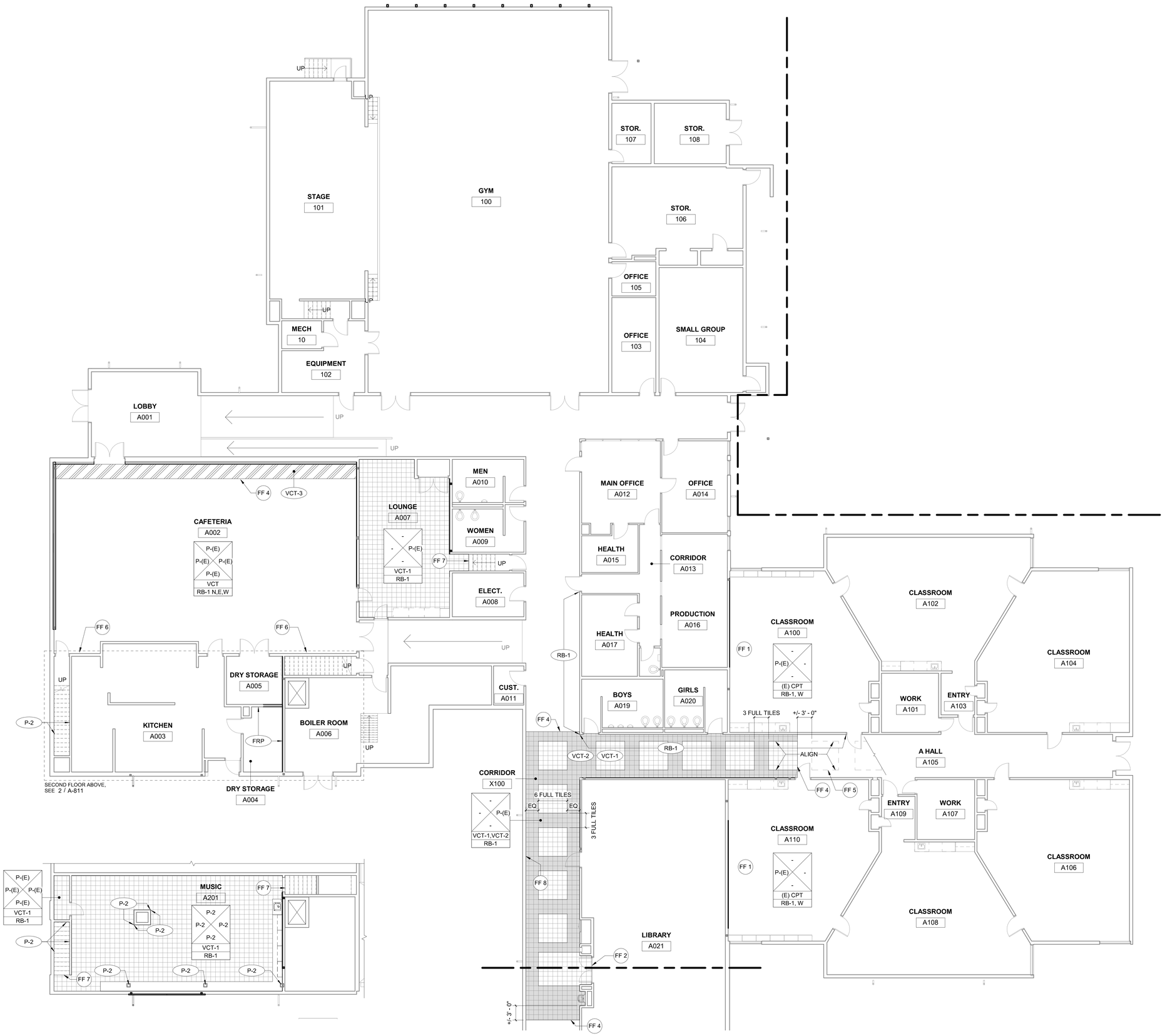
Revision Schedule:

Sheet Title:
INTERIOR 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.



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

1 FIRST FLOOR FINISH PLAN - AREA A, B, C NORTH
1/8" = 1'-0"

SHEET NOTES - FINISH PLAN

A. Keynotes are not sheet specific.
B. All interior patching and repair shall occur in the interior improvements scope of work.
C. Visual requirements: Do not cut and patch construction exposed on the exterior or in occupied spaces in a manner that would, in the architect's opinion, reduce the building's aesthetic qualities. Do not cut and patch construction in a manner that would result in visual evidence of cutting and patching. Remove and replace construction cut and patched in a visually unsatisfactory manner.
D. Protection: Contractor shall protect all existing construction from damage resulting from or related to demolition, construction operations, and cutting and patching. Provide protection from adverse weather conditions for portions of the project that might be exposed during cutting and patching operations. Avoid cutting existing pipe, conduit, or ductwork serving the building but scheduled to be remodeled or relocated until provisions have been made to bypass them.
E. General: Employ skilled workmen to perform cutting and patching. Proceed with cutting and patching at the earliest feasible time and complete without delay.
F. Contractor shall repair or replace any existing construction to remain that is damaged in the course of the work to its original condition.
G. Patching: Restore exposed finishes of patched areas and extend finish restoration into retained adjoining construction in a manner that will eliminate evidence of patching and refinishing.
H. Where removing walls or partitions extends one finished area into another, patch and repair floor and wall surfaces in the new space. Provide an even surface of uniform color and appearance. Remove existing floor and wall coverings and replace with new materials, if necessary, to achieve uniform color and appearance.
I. Where patching occurs in a smooth painted surface, extend final paint coat over entire unbroken surface containing the patch after the area has received primer and second coat.
J. For specific requirements and instructions see all drawings and specifications.
K. Contractor to refer to Reflected Ceiling Plans for ceiling type and height.
L. Contractor to refer to Finish Floor Plans and Elevations for additional information regarding finish location.
M. Where "P-(E)" is indicated on finish floor plan, paint wall to match existing.

LEGEND - FINISH PLAN

- EXISTING FLOORING (PROTECTED DURING CONSTRUCTION)
- CARPET, CPT-1
- 12x12 VINYL TILE, VCT-1
- 12x12 VINYL TILE, VCT-2
- 12x12 VINYL TILE, VCT-3

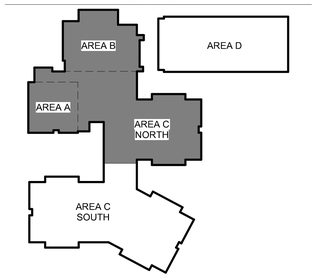
North / West / East / South
Floor Finish
Base Finish

KEYNOTES - FINISH PLAN

FF #

FF 1 (E) carpet to be protected; reinstall where required to be pulled back for seismic work.
FF 2 New mechanically fastened aluminum transition strip.
FF 3 (E) VCT flooring to remain. Protect during construction.
FF 4 New flooring to start at (E) tile joint.
FF 5 (E) flooring pattern; VIF.
FF 6 Paint top (+/- 4'-6") of gypsum wall above protective wall covering to underside of gypsum soffit.
FF 7 New stair nosing to match (E).
FF 8 New wall base on West wall of Corridor X100 to extend from door frame of Cust. A011 to door frame of Stor. C111.
FF 9 New floor mounted receptacle box; see specifications.

KEY PLAN



BEAVERTON SCHOOL DISTRICT

COOPER MOUNTAIN ELEMENTARY
7670 SW 170th AVE
BEAVERTON, OR 97007

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

Consultants:

COOPER MOUNTAIN ELEMENTARY SCHOOL
SRGP IMPROVEMENTS
PERMIT / BID SET

REGISTERED ARCHITECT
DEBORAH K. FRANCE
PORTLAND, OR
12/31/20
#5530
STATE OF OREGON

Date: 12/04/2020
Project Number: 90060
Drawn By: BPS
Checked By: CSM

Revision Schedule:

Sheet Title:
FINISH FLOOR PLANS - AREA A, B, C NORTH

Sheet Number:
A-811

PERMIT / BID SET

12/4/2020 8:37:12 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.

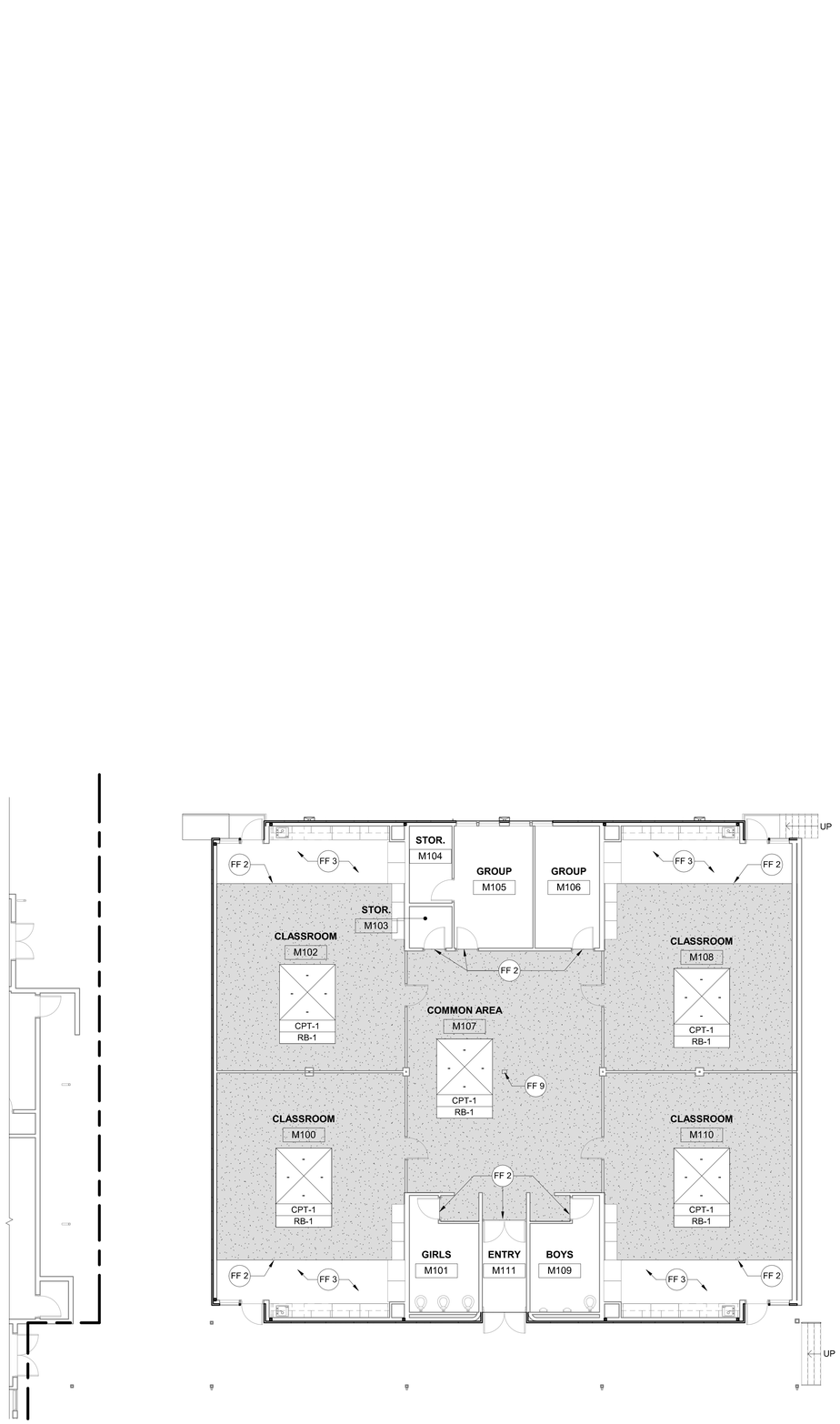
SHEET NOTES - FINISH PLAN

A. Keynotes are not sheet specific.
B. All interior patching and repair shall occur in the interior improvements scope of work.
C. Visual requirements: Do not cut and patch construction exposed on the exterior or in occupied spaces in a manner that would, in the architect's opinion, reduce the building's aesthetic qualities. Do not cut and patch construction in a manner that would result in visual evidence of cutting and patching. Remove and replace construction cut and patched in a visually unsatisfactory manner.
D. Protection: Contractor shall protect all existing construction from damage resulting from or related to demolition, construction operations, and cutting and patching. Provide protection from adverse weather conditions for portions of the project that might be exposed during cutting and patching operations. Avoid cutting existing pipe, conduit, or ductwork serving the building but scheduled to be remodeled or relocated until provisions have been made to bypass them.
E. General: Employ skilled workmen to perform cutting and patching. Proceed with cutting and patching at the earliest feasible time and complete without delay.
F. Contractor shall repair or replace any existing construction to remain that is damaged in the course of the work to its original condition.
G. Patching: Restore exposed finishes of patched areas and extend finish restoration into retained adjoining construction in a manner that will eliminate evidence of patching and refinishing.
H. Where removing walls or partitions extends one finished area into another, patch and repair floor and wall surfaces in the new space. Provide an even surface of uniform color and appearance. Remove existing floor and wall coverings and replace with new materials, if necessary, to achieve uniform color and appearance.
I. Where patching occurs in a smooth painted surface, extend final paint coat over entire unbroken surface containing the patch after the area has received primer and second coat.
J. For specific requirements and instructions see all drawings and specifications.
K. Contractor to refer to Reflected Ceiling Plans for ceiling type and height.
L. Contractor to refer to Finish Floor Plans and Elevations for additional information regarding finish location.
M. Where "P-(E)" is indicated on finish floor plan, paint wall to match existing.

LEGEND - FINISH PLAN

- EXISTING FLOORING (PROTECTED DURING CONSTRUCTION)
- CARPET, CPT-1
- 12x12 VINYL TILE, VCT-1
- 12x12 VINYL TILE, VCT-2
- 12x12 VINYL TILE, VCT-3

North / West / East / South
Floor Finish
Base Finish

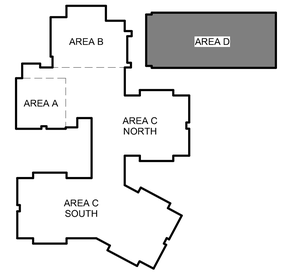


1 FIRST FLOOR FINISH PLAN - AREA D
1/8" = 1'-0"

FF# KEYNOTES - FINISH PLAN

FF 1 (E) carpet to be protected; reinstall where required to be pulled back for seismic work.
FF 2 New mechanically fastened aluminum transition strip.
FF 3 (E) VCT flooring to remain. Protect during construction.
FF 4 New flooring to start at (E) tile joint.
FF 5 (E) flooring pattern; VIF.
FF 6 Paint top (+/- 4'-6") of gypsum wall above protective wall covering to underside of gypsum soffit.
FF 7 New stair nosing to match (E).
FF 8 New wall base on West wall of Corridor X100 to extend from door frame of Cust. A011 to door frame of Stor. C111.
FF 9 New floor mounted receptacle box; see specifications.

KEY PLAN



BEAVERTON SCHOOL DISTRICT

COOPER MOUNTAIN ELEMENTARY

7670 SW 170th AVE
BEAVERTON, OR 97007

OHPLANNING+DESIGN, ARCHITECTURE
115 NW 1st Ave, Ste, 300
Portland, OR 97209

Consultants:

COOPER MOUNTAIN ELEMENTARY SCHOOL
SRGP IMPROVEMENTS

PERMIT / BID SET

REGISTERED ARCHITECT
DEBORAH K. FRANCE
PORTLAND, OR
12/31/20
#5530
STATE OF OREGON

Date: 12/04/2020
Project Number: 90060
Drawn By: BPS
Checked By: CSM

Revision Schedule:

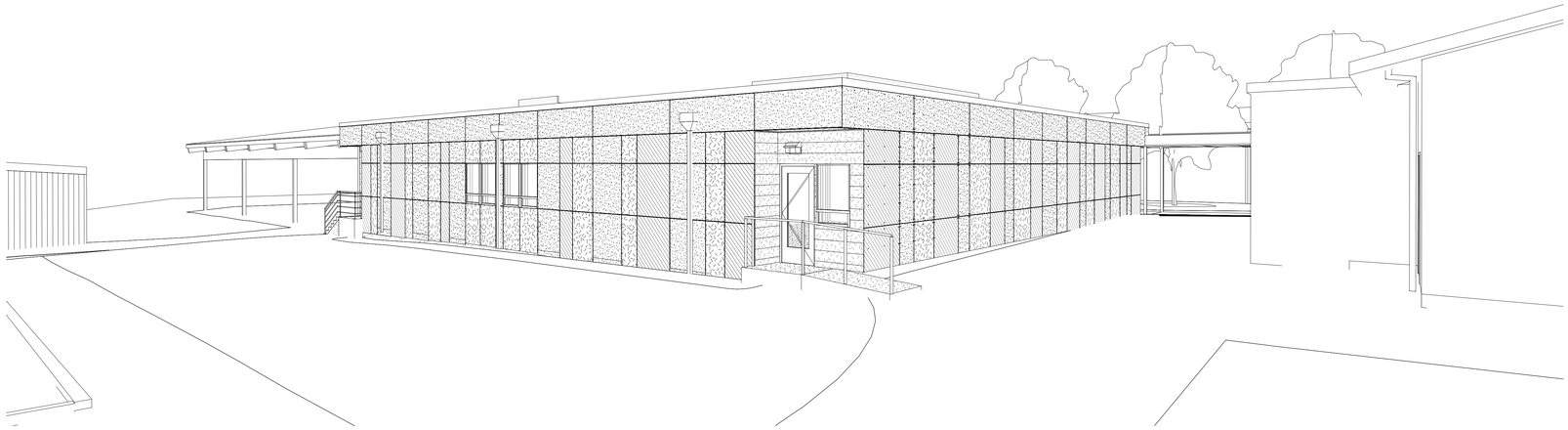
Sheet Title:
FINISH FLOOR PLANS - AREA D

Sheet Number:
A-813

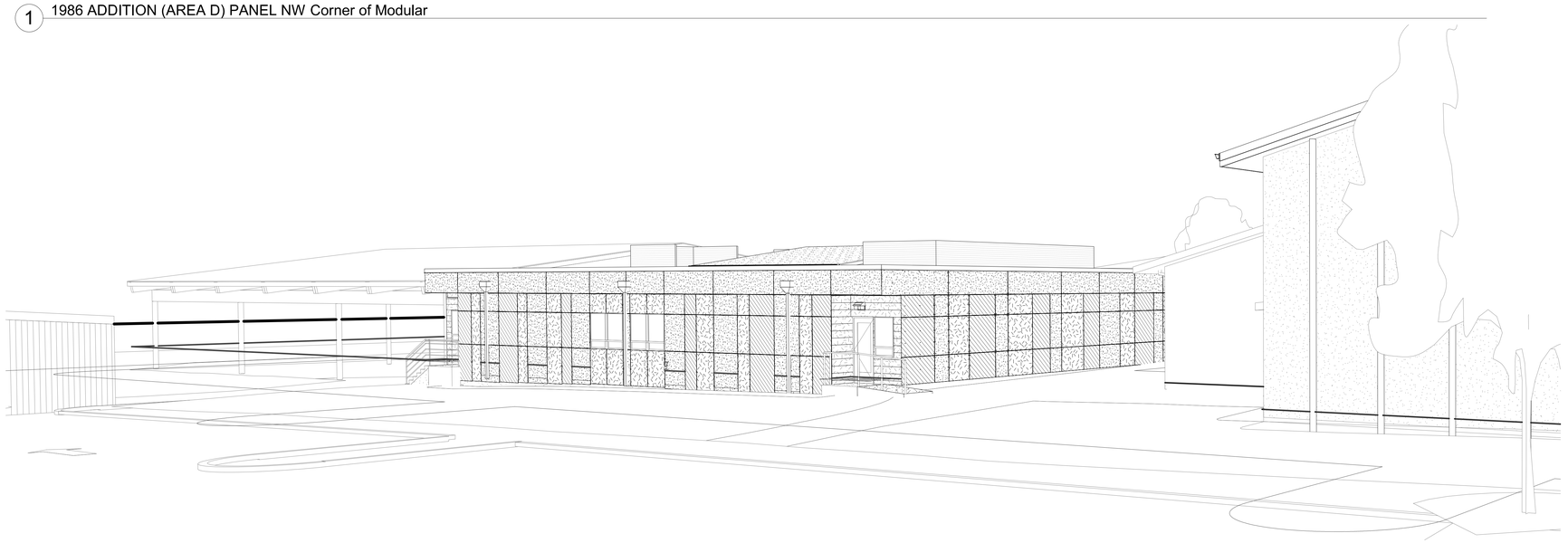
PERMIT / BID SET

12/4/2020 8:39:48 AM

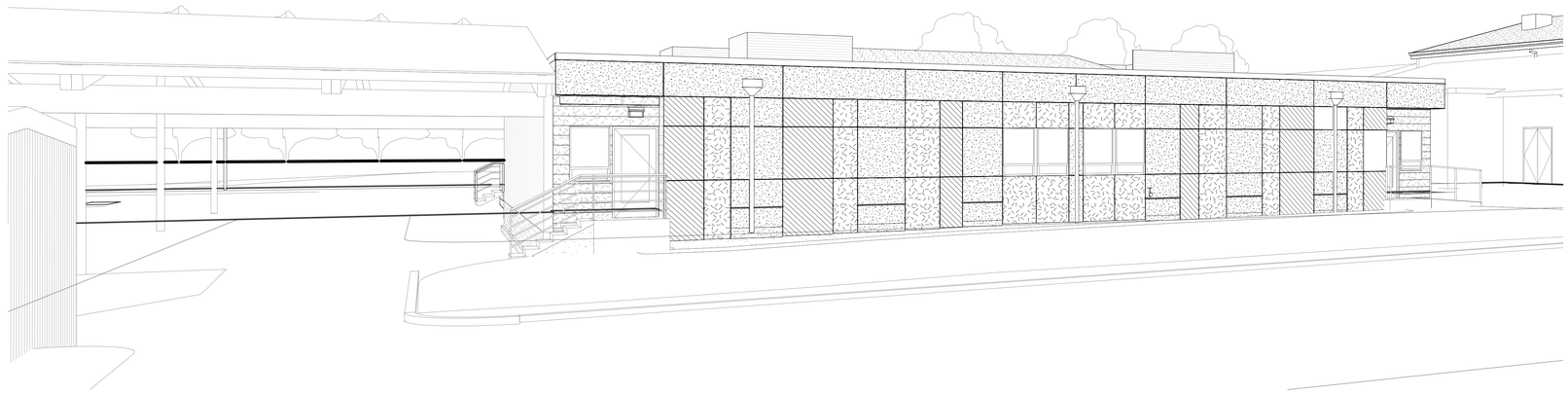
All ideas, designs, drawings, and plans set forth on these sheets are owned by and are the property of Oh planning+design, architecture. Any use, reuse, or disclosure of said plans, reproductions, ideas, designs, and/or arrangements without the written permission of Oh planning+design, architecture is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



1 1986 ADDITION (AREA D) PANEL NW Corner of Modular



2 1986 ADDITION (AREA D) PANEL View at Bus Drop-off



3 1986 ADDITION (AREA D) PANEL View at Covered Play

EXTERIOR ELEVATIONS LEGEND

LS-1 — **LS-1: 5/16" INTEGRALLY - COLORED FIBER CEMENT PANEL SIDING**
9" EXPOSED FACE; SMOOTH TEXTURE
BASIS OF DESIGN COLOR: ONYX 7091

PS-1 — **PS-2: 5/16" INTEGRALLY - COLORED FIBER CEMENT PANEL SIDING**
VARIOUS SIZE PANELS; SMOOTH TEXTURE + REVEALS
BASIS OF DESIGN COLOR: ONYX 7091

PS-2 — **PS-2: 5/16" INTEGRALLY - COLORED FIBER CEMENT PANEL SIDING**
VARIOUS SIZE PANELS; SMOOTH TEXTURE + REVEALS
BASIS OF DESIGN COLOR: ONYX 7090

PS-3 — **PS-3: 5/16" INTEGRALLY - COLORED FIBER CEMENT PANEL SIDING**
VARIOUS SIZE PANELS; SMOOTH TEXTURE + REVEALS
BASIS OF DESIGN COLOR: AZURITE 7041

BEAVERTON SCHOOL DISTRICT

COOPER MOUNTAIN ELEMENTARY
7670 SW 170th AVE
BEAVERTON, OR 97007

OhPLANNING+DESIGN, ARCHITECTURE
115 NW 1st Ave, Ste, 300
Portland, OR 97209

Consultants:

COOPER MOUNTAIN ELEMENTARY SCHOOL
SRGP IMPROVEMENTS

PERMIT / BID SET

REGISTERED ARCHITECT
DEBORAH K. FRANCE
PORTLAND OR
12/31/20
#5539
STATE OF OREGON

Date: 12/04/2020
Project Number: 90060
Drawn By: SKB
Checked By: CSM

Revision Schedule:

Sheet Title:
3D IMAGES AND ISOMETRICS

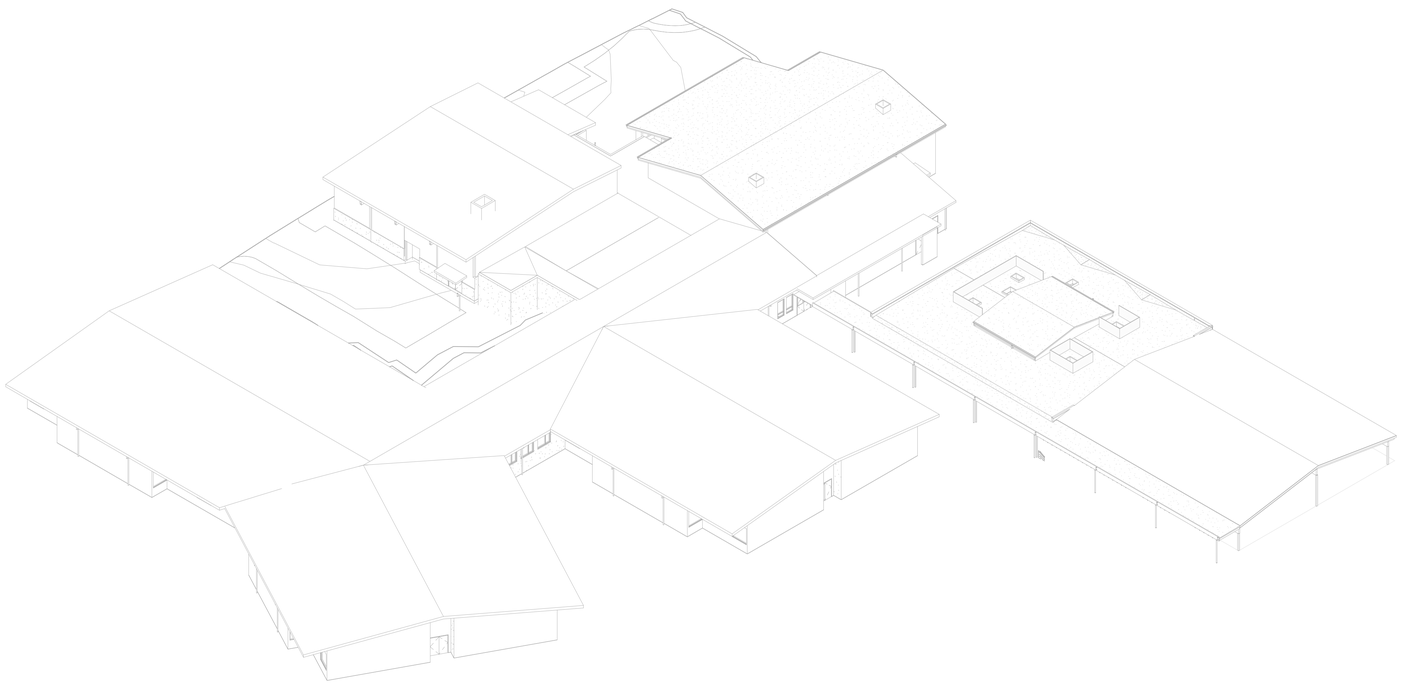
Sheet Number:
A-901

PERMIT / BID SET

12/4/2020 8:37:07 AM

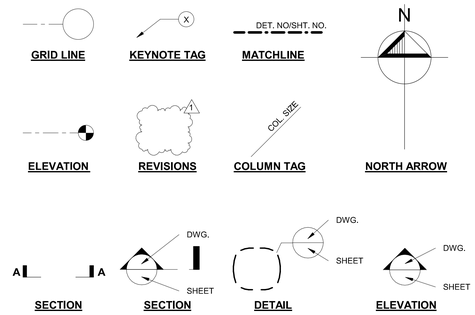
Holmes

Holmes Structures Portland



OVERALL ISOMETRIC

Sheet List	
Sheet Number	Sheet Name
S-001	COVER SHEET
S-002	GENERAL NOTES
S-003	GENERAL NOTES
S-004	SPECIAL INSPECTIONS
S-101	BUILDING YEAR PLAN
S-201	FLOOR PLAN - AREA A, B, C NORTH
S-202	FLOOR PLAN - AREA C SOUTH
S-203	FLOOR PLAN - AREA D
S-221	ROOF PLAN - AREA A, B, C NORTH
S-222	ROOF PLAN - AREA C SOUTH
S-223	ROOF PLAN - AREA D
S-501	DETAILS
S-601	WOOD DETAILS
S-602	WOOD DETAILS
S-603	WOOD DETAILS
S-701	STEEL DETAILS



GRID LINE | KEYNOTE TAG | MATCHLINE | ELEVATION | REVISIONS | COLUMN TAG | NORTH ARROW | SECTION | SECTION | DETAIL | ELEVATION

GENERAL SYMBOLS

1/4" = 1'-0"

(A)	ABOVE
A.B.	ANCHOR BOLT
ADD'L	ADDITIONAL
ADJ.	ADJACENT
A.F.F.	ARCHITECTURAL FINISHED FLOOR
APPROX.	APPROXIMATE
ARCH.	ARCHITECT
A.T.R.	ALL THREAD ROD
(B)	BELOW
BLDG.	BUILDING
BLKG.	BLOCKING
BM.	BEAM
B.N.	BOUNDARY NAILING
B.O.	BOTTOM OF
BOT.	BOTTOM
BTWN.	BETWEEN
℄	CENTERLINE
C.F.	CUBIC FEET
C.I.P.	CAST IN PLACE
C.J.	CONSTRUCTION JOINT
CLR.	CLEAR
CMU	CONCRETE MASONRY UNIT
CNTR.	CENTER
COL.	COLUMN
CNTRSNK.	COUNTER SUNK
COLL.	COLLECTOR
COMP.	COMPACTED
CONC.	CONCRETE
COND.	CONDITION
CONN.	CONNECTION
CONT.	CONTINUOUS
DBL.	DOUBLE
DET.	DETAIL
DIA. Ø	DIAMETER
DIAPH.	DIAPHRAGM
DIM.	DIMENSION
DN.	DOWN
DWG.	DRAWING
(E)	EXISTING
EA.	EACH
E/E	EACH END
E/F	EACH FACE
EL.	ELEVATION
EMB.	EMBEDMENT
E.N.	EDGE NAILING
EQ.	EQUAL
EQUIV.	EQUIVALENT
E/S	EACH SIDE
E/W	EACH WAY
EXT.	EXTERIOR
FDN.	FOUNDATION
FIN.	FINISH
FLR.	FLOOR
F.N.	FIELD NAILING
F.S.	FAR SIDE
FT.	FEET
FTG.	FOOTING
GA.	GAUGE
GALV.	GALVANIZED
G.L.	GRID LINE
GLB	GLUED LAMINATED BEAM
HD	HOLDOWN
H.D.G.	HOT DIP GALVANIZED
HDR.	HEADER
HORIZ.	HORIZONTAL
HT.	HEIGHT
HSS	HOLLOW STRUCTURAL STEEL
I.D.	INSIDE DIAMETER
IN.	INCH
INT.	INTERIOR
LB	POUND
LONG.	LONGITUDINAL
LLV	LONG LEG VERTICAL
LV.	LEVEL
L.S.	LAG SCREW
LVL	LAMINATED VENEER LUMBER
L.W.	LIGHT WEIGHT
MAX.	MAXIMUM
M.B.	MACHINE BOLT
MECH.	MECHANICAL
MIN.	MINIMUM
MISC.	MISCELLANEOUS
ML.	MICROLLAM
MTL.	METAL
(N)	NEW
N.I.C.	NOT IN CONTRACT
N.S.	NEAR SIDE
N.T.S	NOT TO SCALE
N.W.	NORMAL WEIGHT
O.C.	ON CENTER
O.D.	OUTSIDE DIAMETER
OPNG.	OPENING
OPP.	OPPOSITE
PAR.	PARALLEL
PERP.	PERPENDICULAR
PL	PLATE
PSL	PARALLEL STRAND LUMBER
PLYWD.	PLYWOOD
P.T.	PRESSURE TREATED
P/T	POST TENSIONED
REF.	REFERENCE
R.C.	RELATIVE COMPACTION
REINF.	REINFORCING
REQ'D	REQUIRED
REV.	REVISION
S.A.D.	SEE ARCHITECTURAL DRAWINGS
S.C.D.	SEE CIVIL DRAWINGS
S.L.D.	SEE LANDSCAPE DRAWINGS
S.M.D	SEE MECHANICAL DRAWINGS
SCH.	SCHEDULE
SHT.	SHEET
SHTG.	SHEATHING
SIMP.	SIMPSON
SIM.	SIMILAR
S.O.G.	SLAB ON GRADE
SPEC.	SPECIFICATIONS
SQ.	SQUARE
STAG.	STAGGERED
STD.	STANDARD
STIFF.	STIFFENER
STL.	STEEL
S.W.	SHEAR WALL
SYM.	SYMMETRIC
T&B	TOP AND BOTTOM
T&G	TONGUE AND GROOVE
THK.	THICK
THR'D.	THREADED
THRU	THROUGH
T.O.	TOP OF
T.O.C	TOP OF CONCRETE
T.O.S.	TOP OF SLAB/STEEL
TRNSV.	TRANSVERSE
TS	TUBE STEEL
TYP.	TYPICAL
U.O.N	UNLESS OTHERWISE NOTED
VERT.	VERTICAL
V.I.F.	VERIFY IN FIELD
V.W.A.	VERIFY WITH ARCHITECT
W/	WITH
WD.	WOOD
W/O	WITHOUT
W.P.	WORKING POINT
WT.	WEIGHT

ABBREVIATIONS

N.T.S.

12/1/2020 6:59:47 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.

BEAVERTON SCHOOL DISTRICT

Cooper Mtn SRGP

7670 SW 170th Ave
Beaverton, OR 97007

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

Consultants:

Holmes
Holmes Structures
555 SE MLK Jr Blvd. Suite 602
Portland, OR 97214 USA
t 503.672.5323 holmesstructures.com

COOPER MOUNTAIN ELEMENTARY SCHOOL
SEISMIC SRGP IMPROVEMENTS

PERMIT/BID SET

STRUCTURAL REGISTERED PROFESSIONAL ENGINEER OREGON MARCH 11, 2014 JENNIFER B. GOLDEN
EXP. 12/31/2021

Date:	12-04-2020
Project Number:	20138.10
Drawn By:	IK
Checked By:	JE

Revision Schedule:

Sheet Title:

COVER SHEET

Sheet Number:

S-001

PERMIT/BID SET

GENERAL STRUCTURAL NOTES

THE FOLLOWING IS INTENDED AS A SUMMARY SPECIFICATION. REFER TO THE PROJECT SPECIFICATION FOR FULL DETAILS. NOTIFY THE ARCHITECT WHERE THERE IS A CONFLICT BETWEEN THE PROJECT SPECIFICATION AND THE STRUCTURAL GENERAL NOTES.

SCOPE OF WORK: VOLUNTARY SEISMIC RETROFIT OF EXISTING BUILDINGS.

GOVERNING CODE: THE STRUCTURAL DESIGN OF BUILDING COMPONENTS DESCRIBED ON THESE DRAWINGS IS IN ACCORDANCE WITH ASCE 41-17 AS NOTED IN SECTION 5 AND THE 2019 OREGON STRUCTURAL SPECIALTY CODE (OSSC).

LIMITATIONS: THE LATERAL FORCE RESISTING SYSTEM SHOWN ON THESE DRAWINGS IS DESIGNED TO ACHIEVE MINIMUM REQUIRED STANDARDS FOR STRUCTURAL SEISMIC RESISTANCE, AND IS INTENDED TO REDUCE THE RISK OF LIFE LOSS OR INJURY. THIS WORK WILL NOT NECESSARILY PREVENT LOSS OF LIFE OR INJURY, NOR PREVENT EARTHQUAKE DAMAGE TO NEW OR REHABILITATED BUILDINGS.

1. GENERAL

MATERIALS AND WORKMANSHIP TO CONFORM TO THE BUILDING CODE DEFINED ABOVE AND THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.

A. THESE NOTES APPLY TO ALL DRAWINGS AND GOVERN UNLESS OTHERWISE NOTED OR SPECIFIED. WHENEVER THERE APPEARS TO BE A CONFLICT BETWEEN THE NOTES, DRAWINGS, OR SPECIFICATIONS, CONTACT THE ENGINEER FOR CLARIFICATION.

B. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND PROPOSED DIMENSIONS AT JOB SITE. COMPARE STRUCTURAL DRAWINGS WITH ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS BEFORE COMMENCING WORK. NOTIFY ENGINEER OF ANY DISCREPANCIES AND DO NOT PROCEED WITH AFFECTED WORK UNTIL THEY ARE RESOLVED. DO NOT SCALE DRAWINGS.

C. DRAWINGS INDICATE GENERAL AND TYPICAL DETAILS OF CONSTRUCTION. WHERE CONDITIONS ARE NOT SPECIFICALLY INDICATED BUT ARE OF SIMILAR CHARACTER TO DETAILS SHOWN, USE SIMILAR DETAILS OF CONSTRUCTION, SUBJECT TO REVIEW AND APPROVAL BY THE ENGINEER.

D. DETAILS NOTED AS "TYPICAL" IN THEIR TITLE OR ON SHEETS TITLED "TYPICAL DETAILS" APPLY TO SITUATIONS OCCURRING ON THE PROJECT THAT ARE THE SAME OR SIMILAR TO THOSE SPECIFICALLY REFERENCED. SUCH DETAILS ARE NOT NOTED AT EACH LOCATION THAT THEY OCCUR.

E. ALL ELEMENTS INDICATED ON THE DRAWINGS SHALL BE ASSUMED "NEW" UNLESS OTHERWISE NOTED.

F. SAFETY MEASURES: AT ALL TIMES THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR THE CONDITIONS OF THE JOB SITE INCLUDING, BUT NOT LIMITED TO:
a) SAFETY OF THE PERSONS AND PROPERTY,
b) MEANS AND METHODS OF CONSTRUCTION,
c) COMPLIANCE WITH APPLICABLE CAL/OSHA REQUIREMENTS AND GUIDELINES.
d) ALL NECESSARY INDEPENDENT ENGINEERING REVIEWS OF THESE CONDITIONS.

THE CONTRACTOR SHALL BRACE OR SHORE THE CONSTRUCTION AS REQUIRED TO PROVIDE A SAFE AND TRUE STRUCTURE. WHERE BRACING OR SHORING IS INDICATED IN THE DRAWINGS, IT IS DONE SO ONLY AS A COURTESY TO THE CONTRACTOR AND SHALL NOT RELIEVE THE CONTRACTOR OF THEIR RESPONSIBILITY TO COORDINATE THE WORK WITH THE AFOREMENTIONED PROVISIONS. THE ARCHITECT'S OR ENGINEER'S JOB SITE REVIEW IS NOT INTENDED TO INCLUDE REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES.

2. SUBMITTALS

A. SUBMIT IN ACCORDANCE WITH DIVISION 1 OF THE SPECIFICATIONS.

B. SUBSTITUTION REQUESTS SHALL DEMONSTRATE THE REQUESTED SUBSTITUTION'S ABILITY TO MEET OR EXCEED THE REQUIREMENTS OF THE ORIGINALLY SPECIFIED ITEM. THE REQUEST SHALL ALSO INCLUDE A ROUGH COST SAVINGS ESTIMATE TO THE OWNER, REFERENCES TO DETAILS WHERE SUBSTITUTION IS PROPOSED TO BE APPLIED, AND ALL SUPPORTING DOCUMENTATION REQUIRED FOR THE ITEM BY THIS SECTION OF THE NOTES.

C. SHOP DRAWINGS, MILL CERTIFICATES, AND/OR OTHER RELEVANT CERTIFICATIONS SHALL BE SUBMITTED FOR REVIEW AND APPROVAL BEFORE FABRICATION, FOR THE FOLLOWING ITEMS:

NOTE: SUBMITTING COPIES OF THE STRUCTURAL DRAWINGS IS UNACCEPTABLE AND WILL BE REJECTED FOR COMPLETE REVISION.

1) STRUCTURAL AND MISCELLANEOUS STEEL
   a. MILL CERTIFICATIONS FOR ALL STEEL AND ALL FASTENERS.
   b. SHOP DRAWINGS INCLUDING AT A MINIMUM ASTM MATERIAL DESIGNATIONS, MEMBER SIZES, SIZES AND TYPES OF WELDS, SIZES AND TYPES OF BOLTS, AND DIMENSIONS.
   c. WELD PROCEDURE SPECIFICATIONS FOR EACH TYPE OF WELD TO BE USED AND PRODUCT DATA FOR WELDING FILLER METAL.
   d. MANUFACTURER'S PRODUCT DATA FOR PRIMER AND FINISH PAINT, INCLUDING COLOR CHARTS.
   e. CONTRACTOR SHALL ESTABLISH AND VERIFY REQUIRED TOP OF STEEL (T.O.S.) ELEVATIONS, WHETHER INDICATED ON THE DRAWINGS OR NOT, AGAINST ARCHITECTURAL FINISHED FLOOR AND ROOF ELEVATIONS, AND THE STRUCTURAL DETAILS, INCLUDING ANY SPECIFIED OFFSET OR PRE-CAMBER. NOTIFY THE ARCHITECT/ENGINEER OF ANY DISCREPANCIES.

2) REINFORCING STEEL
   a. MATERIAL CERTIFICATES FOR REINFORCING STEEL.
   b. DRAWINGS FOR FABRICATION, BENDING, AND PLACEMENT OF REINFORCING STEEL IN ACCORDANCE WITH ACI 315.

3) CAST-IN-PLACE CONCRETE AND SHOTCRETE
   a. MIX DESIGNS FOR EACH TYPE OF CONCRETE ON THE PROJECT INCLUDING RESULTS OF SLUMP, COMPRESSION, AND SHRINKAGE TESTS AND OTHER PROJECT SPECIFIC CRITERIA
   b. MATERIAL CERTIFICATES
   c. PROPOSED CONSTRUCTION AND CONTROL JOINT LOCATIONS
   d. CURING MATERIALS AND METHODS
   e. PRODUCT DATA FOR NON-SHRINK GROUT
   f. FORMWORK TYPE, FORMWORK, JOINT LOCATIONS, CHAIRS, FORM TIES, ETC.
   g. PROPOSED ROUGHENING METHODS AND TECHNIQUES TO PREPARE EXISTING SURFACES TO RECEIVE NEW CONCRETE, IN ACCORDANCE WITH AMPLITUDE NOTED IN THE CONCRETE SECTION OF THESE NOTES.

4) MECHANICAL ANCHORS AND EPOXY ANCHORS
   a. PRODUCT DATA FOR EACH TYPE OF SYSTEM INCLUDING ANCHOR TESTING IN ACCORDANCE WITH ACI 355.2 FOR MECHANICAL ANCHORS AND ACI 355.4 FOR EPOXY ANCHORS.
   b. CERTIFICATION OF ANCHOR INSTALLERS PER ACI/CRSI WHERE ANCHORS ARE INSTALLED IN HORIZONTAL OR VERTICAL CONDITIONS WITH SUSTAINED TENSION.

D. DEFERRED SUBMITTALS: DESIGN DRAWINGS, SHOP DRAWINGS, AND CALCULATINS FOR THE DESIGN AND FABRICATION OF ITEMS THAT ARE DESIGNED BY OTHERS SHALL BEAR THE SEAL AND SIGNATURE OF A STRUCTURAL ENGINEER REGISTERED IN THE STATE OF OREGON, AND SHALL BE SUBMITTED TO THE ARCHITECT PRIOR TO FABRICATION. CALCULATIONS SHALL BE INCLUDED FOR ALL CONNECTIONS TO THE STRUCTURE CONSIDERING LOCALIZED EFFECTS ON STRUCTURAL ELEMENTS INDUCED BY THE CONNECTION LOADS. DESIGN SHALL BE BASED ON THE REQUIREMENTS OF THE OSSC AND AS NOTED UNDER "DESIGN BASIS." REF. ARCHITECTURAL DRAWINGS FOR FULL LIST OF DEFERRED SUBMITTALS. DEFERRED SUBMITTALS SHALL INCLUDE:

1) LADDERS
2) SEISMIC RESTRAINT OF MEP EQUIPMENT, MACHINERY, AND ASSOCIATED PIPING. CONNECTIONS TO STRUCTURE SHALL CONFORM TO ASCE 7-16 CHAPTER 13, SHALL BE DESIGNED BY AN ENGINEER REGISTERED IN THE STATE OF OREGON, AND SHALL BE SUBMITTED TO THE ARCHITECT PRIOR TO FABRICATION.

3. SPECIAL INSPECTION REQUIREMENTS AND TESTING

A. PROVIDE SPECIAL INSPECTIONS AND TESTING FOR ALL ITEMS AS REQUIRED BY THE GOVERNING JURISDICTION. JURISDICTION SPECIFIC SPECIAL INSPECTION FORM SHALL SUPPLEMENT SPECIAL INSPECTION REQUIREMENTS NOTED IN THIS SECTION AND SHEET S-004.

B. THE OWNER SHALL BE RESPONSIBLE FOR RETAINING AN INDEPENDENT, QUALIFIED INSPECTOR AND/OR TESTING LAB TO PERFORM ALL REQUIRED TESTING AND SPECIAL INSPECTIONS.

C. IF INITIAL TESTS OR INSPECTIONS MADE BY THE OWNER'S TESTING AGENCY REVEAL THAT ANY PORTION OF THE WORK DOES NOT COMPLY WITH THE CONTRACT DOCUMENTS, ADDITIONAL TESTS, INSPECTIONS, AND NECESSARY REPAIRS WILL BE MADE AT THE CONTRACTOR'S EXPENSE. CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER AND OWNER OF NON-CONFORMING WORK. THIS NOTIFICATION SHALL SPECIFICALLY ADDRESS THE NON-CONFORMING WORK AND SHALL BE SEPARATE FROM THE SPECIAL INSPECTION REPORTS.

D. SPECIAL INSPECTION REPORTS SHALL BE SENT TO THE ENGINEER AT THE TIME OF COMPLETION FOR REVIEW OF CONFORMANCE WITH THE REQUIREMENTS OF THE STRUCTURAL DRAWINGS.

E. THE CONTRACTOR SHALL NOTIFY THE TESTING LAB A MINIMUM OF 48 HOURS PRIOR TO TIME OF INSPECTION.

F. THE FOLLOWING SPECIFIC ITEMS SHALL BE INSPECTED AND/OR TESTED BY THE TESTING LAB:

1) CONCRETE:
   a. SAMPLE AND TEST CONCRETE AS FOLLOWS:
      1 FABRICATE SPECIMENS FOR STRENGTH TESTS PER ACI 318.
      2 PERFORM SLUMP AND AIR CONTENT TESTS.
      3 DETERMINE TEMPERATURE OF THE CONCRETE.
   b. REINFORCING STEEL AND WELDED WIRE MESH (INCLUDING PRE STRESSING TENDONS).
      1 PLACEMENT (CONTINUOUS INSPECTION FOR SPECIAL MOMENT FRAMES)
      2 OBTAIN AND REVIEW MILL TEST REPORTS.
      3 WELDING.
   c. CONCRETE PLACEMENT (CONTINUOUS INSPECTION).
   d. CAST-IN-PLACE ANCHOR BOLTS.
   e. CURING TEMPERATURE AND TECHNIQUES AND DURATION.
   f. REVIEW MIX DESIGN FOR EACH CLASS OF CONCRETE.
   g. REVIEW THE TICKET OF EACH BATCH OF CONCRETE DELIVERED.

   NOTE: TESTING DURING CONSTRUCTION IS NOT REQUIRED FOR FOUNDATION CONCRETE, EXCLUDING CAST-IN-PLACE DRILLED PILES OR CAISSONS, WHERE THE STRUCTURAL DESIGN IS BASED ON F'C NO GREATER THAN 2500 PSI AND NON-STRUCTURAL SLABS-ON-GRADE.

2) NON-SHRINK GROUT
   a. PLACEMENT
   b. CAST AND TEST SPECIMENS FOR COMPRESSION STRENGTH

3) ALL STRUCTURAL WELDING INCLUDING, BUT NOT LIMITED TO THE FOLLOWING:
   a. CONTINUOUS INSPECTION FOR ALL BUTT WELDS, COMPLETE AND PARTIAL PENETRATION WELDS, GROOVE WELDS AND PLUG WELDS, INCLUDING WELDING OF REINFORCEMENT.
   b. CONTINUOUS INSPECTION AND 100% ULTRASONIC TESTING FOR ALL COMPLETE PENETRATION WELDS BETWEEN THE PRIMARY MEMBERS OF MOMENT-RESISTING FRAMES, EXCEPT WHEN THE THICKNESS OF THE MATERIALS TO BE WELDED IS LESS THAN 5/16". IN ADDITION, MAGNETIC PARTICLE TESTING SHALL BE PERFORMED ON 25% OF ALL BEAM-TO-COLUMN COMPLETE PENETRATION WELDS.
   c. CONTINUOUS INSPECTION OF ALL FILLET WELDS EXCEEDING 5/16".
   d. PERIODIC VISUAL INSPECTION OF THE FOLLOWING ITEMS:
      1) SINGLE-PASS FILLET WELDS NOT EXCEEDING 5/16".
      2) FLOOR AND ROOF DECK WELDING.
      3) WELDED STUDS WHEN USED FOR THE STRUCTURAL DIAPHRAGM OR COMPOSITE CONNECTIONS.
      4) WELDED SHEET METAL STEEL FOR COLD-FORMED STUDS AND JOISTS.
      5) WELDING OF STAIRS AND RAILING SYSTEMS.

4) POST INSTALLED ANCHORS. WHERE ANCHORS ARE LOADED IN SUSTAINED TENSION, INSPECTION SHALL BE CONTINUOUS. REFER TO THE DRAWINGS FOR LOCATIONS.
   a. BRICK MASONRY
      1) EPOXY THREADED RODS SHALL BE TESTED PER TESTING SCHEDULE IN TYPICAL DETAILS.
   b. CONCRETE
      1) EPOXY REBAR AND THREADED RODS
      2) MECHANICAL ANCHORS

5) STRUCTURAL WOOD
   a. PERIODIC SPECIAL INSPECTION FOR NAILING, BOLTING, ANCHORING AND OTHER FASTENING OF COMPONENTS WITHIN THE SEISMIC FORCE RESISTING SYSTEM, INCLUDING WOOD SHEAR WALLS, WOOD DIAPHRAGMS DRAG STRUTS, BRACES, SHEAR PANELS AND HOLD-DOWNS.

6) ALL EXCAVATIONS AND EARTH FORMS SHALL BE INSPECTED BY THE LOCAL BUILDING INSPECTOR AND INSPECTED BY THE ENGINEER PRIOR TO PLACING CONCRETE.

4. STRUCTURAL OBSERVATIONS

A. STRUCTURAL OBSERVATIONS WILL BE UNDERTAKEN BY PERSONNEL UNDER THE SUPERVISION OF THE ENGINEER OF RECORD. STRUCTURAL OBSERVATIONS ARE SEPARATE FROM THE SPECIAL INSPECTION REQUIREMENTS OUTLINED ABOVE.

B. THE PURPOSE OF STRUCTURAL OBSERVATIONS IS TO REVIEW THE OVERALL PROGRESS OF CONSTRUCTION AND ASCERTAIN ITS GENERAL COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS, THESE GENERAL NOTES, AND OTHER SPECIFICATIONS, WHERE APPLICABLE. OBSERVATIONS WILL BE NOTED IN REGULAR SITE REPORTS ISSUED TO THE OWNER'S REPRESENTATIVE.

C. UNLESS OTHERWISE AGREED UPON, THE ENGINEER OF RECORD SHALL BE ENGAGED TO PROVIDE, AT MINIMUM, A LEVEL OF CONSTRUCTION INVOLVEMENT NEEDED TO OBSERVE THE FOLLOWING AT SIGNIFICANT MILESTONES DURING THE CONSTRUCTION PROCESS:

1) FOUNDATION REINFORCEMENT AND CONSTRUCTION
2) MASONRY/CONCRETE WALL/SLAB REINFORCEMENT AND CONSTRUCTION
3) STRUCTURAL STEEL FRAMING
4) LATERAL FORCE RESISTING ELEMENTS
5) WOOD FRAMING

ADDITIONAL ENGINEER INVOLVEMENT MAY BE DESIRED. ANY AGREEMENT TO THAT EFFECT SHALL BE MADE PRIOR TO THE START OF CONSTRUCTION.

D. THE CONTRACTOR SHALL NOTIFY THE ENGINEER A MINIMUM OF 3 DAYS PRIOR TO TIME OF OBSERVATION AND PROVIDE ACCESS FOR THE OBSERVATIONS.

E. AN OWNER'S REPRESENTATIVE MAY BE DESIGNATED, BY THE OWNER'S SPECIFIC AUTHORIZATION PRIOR TO THE START OF CONSTRUCTION, WHO WILL HAVE THE AUTHORITY TO REQUEST ADDITIONAL ENGINEER INVOLVEMENT OUTSIDE OF THE NORMAL DUTIES ASSOCIATED WITH STRUCTURAL OBSERVATION.

5. DESIGN BASIS

A. CONSTRUCT IN CONFORMANCE WITH THE BUILDING CODE NOTED ABOVE.

B. DESIGN LIVE LOADS (PSF):

ROOF 20

C. DESIGN DEAD LOADS

1) SUPERIMPOSED DEAD LOADS PER STRUCTURAL CALCULATIONS

D. EARTHQUAKE DESIGN DATA

1) SEISMIC IMPORTANCE FACTOR, AREA A-C: 1.5 AREA D: 1.0

2) RISK CATEGORY: AREA A-C: IV AREA D: III

3) ASCE 41 PERFORMANCE OBJECTIVE: BPOE

4) USGS MCEr SPECTRAL RESPONSE ACCELERATIONS:
   i. Ss = 0.864 g
   ii. S1 = 0.404 g

5) SITE CLASS: D

6) ASCE 41 BSE-2E SPECTRAL RESPONSE ACCELERATIONS:
   i. SXS = 0.809 g
   ii. SX1 = 0.579 g

7) ASCE 41 BSE-1E SPECTRAL RESPONSE ACCELERATIONS:
   i. SXS = 0.376 g
   ii. SX1 = 0.204 g

8) BASIC SESIMIC-FORCE RESISTING SYSTEM: LIGHT FRAME (WOOD) SHEAR WALLS SHEATHED WITH WOOD STRUCTURAL PANELS OR STEEL SHEETS

9) ASCE 41 BASE SHEAR COEFFICIENT @ BSE-2E: 1.13

10) ASCE 41 BASE SHEAR COEFFICIENT @ BSE-1E: 0.53

11) ANALYSIS PROCEDURE USED: LSP

12) DESIGN STORY DRIFT: 2.5%

E. WIND:

1) RISK CATEGORY: IV
2) BASIC WIND SPEED: 107 MPH
3) WIND DIRECTIONALITY FACTOR, Kd: 0.85
4) EXPOSURE CATEGORY TYPE: B
5) TOPOGRAPHIC FACTOR, Kzt: 1.00
6) ENCLOSURE CLASSIFICATION: ENCLOSED

F. FOUNDATIONS: MODIFY AS REQ'D

1) SPREAD FOOTING: 2500 PSF
2) PASSIVE PRESSURE: 350 PCF

G. DESIGN SNOW LOADS

1) GROUND SNOW LOAD, Pg: 25 PSF

6. FOUNDATION, FILL, AND SITE WORK

FOUNDATION DESIGN IS BASED ON A GEOTECHNICAL REPORT PREPARED BY:
DATED:

A. EXCEPT WHERE OTHERWISE SHOWN, EXCAVATIONS SHALL BE MADE AS NEAR AS POSSIBLE TO THE NEAT LINES REQUIRED BY THE SIZE AND SHAPE OF THE STRUCTURE. ALL FOUNDATIONS SHALL BE POURED WITHOUT THE USE OF SIDE FORMS WHEREVER POSSIBLE. IF THE TRENCHES CANNOT STAND, FULLY FORM SIDES TO DIMENSIONS SHOWN.

B. DO NOT ALLOW WATER TO STAND IN TRENCHES. IF BOTTOMS OF TRENCHES BECOME SOFTENED DUE TO RAIN OR SLURRY OR OTHER WATER BEFORE CONCRETE IS CAST, EXCAVATE SOFTENED MATERIAL AND REPLACE WITH PROPERLY COMPACTED BACKFILL OR CONCRETE AT NO COST TO OWNER.

C. WHERE SITEWORK IS REQUIRED, COMPLY WITH THE FOLLOWING:

1) STRIP THE AREA TO BE BUILT OVER OF ALL ORGANIC MATERIAL AND TOP SOIL.
2) SCARIFY THE TOP 6 INCHES OF STRIPPED SURFACE; BRING TO CORRECT MOISTURE CONTENT; THEN RE-COMPACT TO AT LEAST 95% UNDER FOOTINGS AND 90% ELSEWHERE.
3) FILL MATERIAL TO BE PLACED IN 6 INCH LAYERS AND COMPACTED.
4) FILL MATERIAL SHALL BE FREE OF PLASTIC CLAYS, VEGETATION, AND OTHER DELETERIOUS MATERIAL; IT SHALL BE OF SUFFICIENT QUALITY THAT IT WILL COMPACT THOROUGHLY WHEN WATERED AND ROLLED. THE FILL SHALL NOT CONTAIN ROCKS OR LUMPS OVER 2 INCHES IN GREATEST DIMENSION.

D. PLACE BACKFILL BEHIND RETAINING WALLS AFTER CONCRETE HAS ATTAINED FULL DESIGN STRENGTH. BRACE BUILDING AND PIT WALLS BELOW GRADE FROM LATERAL LOADS UNTIL ATTACHED FLOORS AND SLABS ON GRADE HAVE ATTAINED FULL DESIGN STRENGTH.

E. FOR SHALLOW FOUNDATIONS, THE TOP SURFACE OF FOOTINGS SHALL BE LEVEL. THE BOTTOM SURFACE OF FOOTINGS SHALL BE PERMITTED TO HAVE A SLOPE NOT EXCEEDING ONE UNIT VERTICAL IN 10 UNITS HORIZONTAL (10-PERCENT SLOPE). FOOTINGS SHALL BE STEPPED WHERE IT IS NECESSARY TO CHANGE THE ELEVATION OF THE TOP SURFACE OF THE FOOTING OR WHERE THE SURFACE OF THE GROUND SLOPES MORE THAN ONE UNIT VERTICAL IN 10 UNITS HORIZONTAL.

7. CONCRETE

A. EXCEPT WHERE NOTED OTHERWISE ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF ACI 301 - SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS. UNLESS OTHERWISE NOTED, COMPLY WITH CONSTRUCTION TOLERANCES AS SPECIFIED IN ACI 117 "SPECIFICATION FOR TOLERANCES FOR CONCRETE CONSTRUCTION AND MATERIALS".

B. REINFORCE ALL CONCRETE. INSTALL ALL INSERTS, BOLTS, ANCHORS, AND REINFORCING AND SECURELY TIE PRIOR TO PLACING CONCRETE.

C. PORTLAND CEMENT SHALL CONFORM TO ASTM C-150 TYPE I OR II.

D. CONCRETE SHALL BE HARDROCK CONCRETE AND CONFORM TO ALL REQUIREMENTS OF ASTM C-33, UNLESS OTHERWISE NOTED. WHERE LIGHTWEIGHT CONCRETE IS SPECIFIED, IT SHALL CONFORM TO ASTM C-330. FLY ASH SHALL COMPLY WITH ASTM C618; SLAG SHALL COMPLY WITH ASTM C989. PROPORTION CONCRETE IN ACCORDANCE WITH ACI 211.1, INCLUDING ANY REQUIRED ADMIXTURES. CONCRETE SHALL SATISFY THE FOLLOWING PROPERTIES:

DELETE ANY OF THESE VALUES THAT ARE NOT APPLICABLE OR ARE CONTAINED IN THE TABLE

ADMIXTURES WITH CHLORIDE IONS:	NOT PERMITTED
MIN. SLUMP:	2½"
MAX. SLUMP:	7"
MAX. AGGREGATE SIZE:	1"
MAX. WATER/CEMENTITIOUS (W/CM) RATIO:	0.50
MIN. FLY ASH OR SLAG REPLACEMENT:	20%

LOCATION	MIN. STRENGTH AT 28 DAYS (PSI)	MAX. AGGREGATE SIZE (INCHES)	MAX. SLUMP (INCHES)
FOUNDATION	4000	1 1/2	4
SLAB ON GRADE	4000	1 1/2	4

E. THE ACTUAL SLUMP AND TOLERANCE SHALL BE ESTABLISHED BY THE CONTRACTOR AND CONCRETE SUPPLIER, AS REQUIRED TO SATISFY THE CONTRACTOR'S MEANS AND METHODS FOR PLACEMENT, FIELD AND INSTALLATION CONDITIONS (INCLUDING REINFORCING CONGESTION), FINISH REQUIREMENTS, AND AS REQUIRED TO SATISFY THE PERFORMANCE CRITERIA SPECIFIED ABOVE.

F. IN AREAS OF HEAVY REINFORCING AND CONGESTION, CONTRACTOR SHALL PROVIDE ADEQUATE MEANS AND METHODS TO PROPERLY INSTALL CONCRETE (I.E., HIGH-RANGE WATER-REDUCING ADMIXTURE, FORM VIBRATORS, ETC.) AT SUCH LOCATIONS, THE CONTRACTOR MAY USE 3/8" MINIMUM CRUSHED ROCK OF NOT LESS THAN 1500 POUNDS/CU. YD. NO WATER SHALL BE ADDED AT THE TIME OF INSTALLATION WITHOUT WRITTEN APPROVAL OF THE ENGINEER OF RECORD.ALL CONCRETE WITH EXPOSED SURFACES SHALL HAVE HIGH-RANGE WATER-REDUCING ADMIXTURE (SUPERPLASTICIZER): ASTM C494, TYPE F OR TYPE G. PRODUCTS INCLUDE THE FOLLOWING:
1) EUCON 37/1037 OR PLASTOLSERIES, EUCLID CHEMICAL COMPANY,
2) DARACEM, W.R. GRACE COMPANY, OR
3) SIKAMENT 300, SIKA CORP.

G. WHEN PLACING NEW CONCRETE OR SHOTCRETE AGAINST EXISTING CONCRETE, AND/OR CONCRETE MASONRY, ROUGHEN EXISTING MATERIAL TO 1/4" AMPLITUDE. REMOVE ALL LOOSE CEMENTITIOUS MATERIALS AND AGGREGATES. PRESSURE WASH SURFACE AND REMOVE STANDING WATER IMMEDIATELY PRIOR TO PLACING NEW CONCRETE. AT EXISTING BRICK, ROUGHENING IS NOT REQUIRED IF EXISTING BRICK HAS A NATURAL ROUGH SURFACE (APPROXIMATELY 1/4" AMPLITUDE). THE ROUGHENED SURFACE IS SUBJECT TO REVIEW AND APPROVAL BY THE ENGINEER.

I. CONTRACTOR SHALL CONSTRUCT CONCRETE FLOORS AND SLABS PER RECOMMENDATIONS OF ACI 302.1R. CONTRACTOR SHALL SUBMIT LOCATIONS OF PROPOSED CONSTRUCTION JOINTS FOR ENGINEERS REVIEW AND APPROVAL.

J. FINISH SCHEDULE: COORDINATE WITH ARCHITECT.

9. FORMWORK

A. DESIGN AND CONSTRUCT FORMWORK IN ACCORDANCE WITH ACI 347 "RECOMMENDED PRACTICE FOR CONCRETE FORMWORK" AND ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE", UNLESS OTHERWISE NOTED.

B. AS REQUIRED, PROVIDE POUR POCKETS IN FORMS AND UNDER EXISTING MEMBERS TO PREVENT AIR POCKETS OR "HONEYCOMBS". CONCRETE CAST WITH AIR POCKETS OR HONEYCOMBS IS NOT ACCEPTABLE.

C. PROVIDE 3/4" BY 3/4" CHAMFER STRIPS ON ALL EXTERNAL CORNERS OF BEAMS, COLUMNS, AND WALLS, UNLESS OTHERWISE NOTED.

D. REMOVE FORMS AND SHORES IN ACCORDANCE WITH THE FOLLOWING:

1) FOOTINGS, PILE CAPS, AND GRADE BEAMS – REMOVE FORMS AND SHORES NO SOONER THAN 48 HOURS.

E. CONCRETE SHALL BE CONTINUOUSLY CURED FOR 10 DAYS AFTER PLACING IN ANY APPROVED MANNER IN ACCORDANCE WITH ACI 301, INCLUDING CURING COMPOUND, CURING PAPER, WATER SPRAY, FLOODING WITH WATER (FOR SLABS), ETC. PROVIDE CURING WHERE FORMS ARE REMOVED IN LESS THAN 7 DAYS.

NOTE: FOOTINGS ARE EXEMPTED FROM THIS REQUIREMENT.

10. REINFORCING STEEL

A. ALL REINFORCING STEEL BARS, UNLESS OTHERWISE NOTED, SHALL CONFORM WITH THE LATEST STANDARD SPECIFICATIONS FOR DEFORMED BILLET STEEL FOR CONCRETE REINFORCEMENT, ASTM DESIGNATION A615 AND SHALL BE MINIMUM GRADE 60.
HEADED SHEAR STUD REINFORCING SHALL COMPLY WITH ASTM A1044

B. ALL REINFORCING STEEL THAT IS TO BE WELDED, OR USED IN SEISMIC FRAME MEMBERS AND SHEARWALL BOUNDARY ELEMENTS, SHALL CONFORM TO THE LATEST STANDARD FOR LOW-ALLOY STEEL DEFORMED BARS FOR CONCRETE REINFORCEMENT ASTM A706 (GRADE 60 ONLY). BILLET STEEL ASTM A615 REINFORCEMENT MAY BE SUBSTITUTED FOR LOW ALLOY ASTM A706 IF (1) THE ACTUAL YIELD STRENGTH BASED ON MILL TESTS DOES NOT EXCEED THE SPECIFIED YIELD STRENGTH BY MORE THAN 18,000 PSI, (2) THE RATIO OF THE ACTUAL ULTIMATE TENSILE STRESS TO THE ACTUAL YIELD STRENGTH IS NOT LESS THAN 1.25, AND (3) MINIMUM ELONGATION IN 8" SHALL BE AT LEAST 14 PERCENT FOR BAR SIZES #3 THROUGH #6, AT LEAST 12 PERCENT FOR BAR SIZES #7 THROUGH #11, AND AT LEAST 10 PERCENT FOR BAR SIZES #14 AND #18.

C. WELDED WIRE MESH SHALL CONFORM TO LATEST EDITION OF ASTM A1064.

D. SUITABLE DEVICES (DOBIES, CHAIRS, ETC.) OF SOME STANDARD MANUFACTURE SHALL BE USED TO HOLD REINFORCEMENTS IN ITS TRUE HORIZONTAL AND VERTICAL POSITIONS. THESE DEVICES SHALL BE SUFFICIENTLY RIGID AND NUMEROUS TO PREVENT DISPLACEMENT OF THE REINFORCING DURING PLACING OF CONCRETE. ALL SUCH DEVICES HAVE PRIOR APPROVAL FROM THE ARCHITECT AND ENGINEER.

E. LAP SPLICE ALL BARS IN CONCRETE PER STANDARD DETAILS SCHEDULE, USING LAP TYPE "TOP" UNLESS OTHERWISE NOTED. WHEN LAPPING BARS OF DIFFERENT SIZES, USE THE LAP LENGTH OF THE LARGER BAR.

F. UNLESS OTHERWISE DEMONSTRATED BY SUCCESSFUL PLACEMENT OF A REPRESENTATIVE TEST PANEL, LAP SPLICES FOR SHOTCRETE WALLS SHALL BE PER NON-CONTACT SPLICE METHOD. THE LAPPED BARS SHALL BE SPACED A MINIMUM OF 2" BETWEEN THEM AND THE LAP LENGTH SHALL BE PER THE SCHEDULE USING LAP CLASS B, "TOP".

G. IN LIEU OF LAP SPLICES, REBAR COUPLERS MAY BE USED. ERICO'S AND/OR ERICO'S CADWELD LENTON. DAYTON BAR-LOCKS AND SIMILAR DEVICES MAY BE USED ONLY IF REINFORCING DETAILER ACCOUNTS FOR COUPLER SIZE, 24 INCH STAGGERING OF COUPLERS AND REINFORCING BAR SPACING. ALTERNATES WILL BE CONSIDERED UPON SUBMITTAL OF MANUFACTURER'S TESTING REPORT. FOR APPLICATIONS IN SEISMIC FRAME MEMBERS AND BOUNDARY ELEMENTS OF SHEAR WALLS, THE COUPLERS SHALL DEVELOP THE LARGER OF 100% OF THE ULTIMATE TENSILE STRENGTH OR 125% OF THE SPECIFIED YIELD STRENGTH OF THE REBAR. FOR ALL OTHER APPLICATIONS, THE COUPLERS SHALL DEVELOP 125% OF THE SPECIFIED YIELD STRENGTH OF THE REBAR.

H. IN LIEU OF COUPLERS, MAIN LONGITUDINAL REINFORCING BARS OF ASTM A706 STEEL MAY BE WELDED PER AWS D1.4. WELDED SPLICES SHALL NOT BE USED WITHIN A JOINT OF THE SEISMIC FRAME, OR WITHIN A DISTANCE OF ONE BEAM/COLUMN DEPTH FROM A JOINT.

I. SPIRAL REINFORCEMENT

1) LAP SPLICES FOR SPIRAL REINFORCEMENT ARE NOT PERMITTED WITHOUT SPECIFIC AUTHORIZATION FROM ENGINEER.
2) SPIRALS SHALL BE TERMINATED WITH A MINIMUM OF (3) TIGHT TIES AND A 135° HOOK UNLESS OTHERWISE NOTED.

J. HOOK DISCONTINUOUS ENDS OF REINFORCING STEEL PER TYPICAL DETAIL, UNLESS OTHERWISE NOTED. WHERE SPECIFIED OR WHERE REINFORCING IS IN A CONGESTED ZONE SO AS NOT TO PERMIT HOOK BARS, PROVED A "T-HEAD" TERMINATOR: LENTON "D6" OR "D16" TERMINATOR OR APPROVED EQUAL.

K. DETAIL ACCORDING TO THE LATEST ACI STANDARD 315, MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES. PLACE REINFORCEMENT PER ACI 301, "SPECIFICATION FOR STRUCTURAL CONCRETE", UNLESS OTHERWISE NOTED.

L. REBAR PARTIALLY EMBEDDED IN CONCRETE SHALL NOT BE FIELD BENT.

M. REBAR SHALL ONLY BE BENT ONCE. REBAR SHALL NOT BE BENT AND STRAIGHTENED FOR CONSTRUCTION UNLESS EXPLICITLY NOTED ON THE CONSTRUCTION DOCUMENTS.

N. MAINTAIN COVERAGE TO FACE OF BARS, INCLUDING SLEEVES AND PENETRATIONS, AS FOLLOWS, UNLESS OTHERWISE NOTED:

1) CAST-IN-PLACE CONCRETE
   a. 3" WHERE CONCRETE IS DEPOSITED AGAINST EARTH EXCEPT SLAB-ON-GRADE.
   b. 2 1/2" FOR CAST-IN-PLACE DEEP FOUNDATION ELEMENTS NOT ENCLOSED BY A STEEL PIPE, TUBE OR PERMANENT CASING.
   c. 2" FOR FORMED CONCRETE WHICH IS EXPOSED TO EARTH OR WEATHER FOR #6 BAR THROUGH #18 BAR. REDUCED TO 1 1/2" FOR #5 BAR, W31 OR D31 WIRE AND SMALLER.
   d. 1 1/2" FOR INTERIOR BEAMS AND COLUMNS.
   e. 1 1/2" FOR INTERIOR SLABS AND WALLS FOR #14 AND #18 BAR. REDUCED TO 3/4"

11. NON-SHRINK GROUT

A. NON-SHRINK GROUT SHALL ACHIEVE A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS (F'c) OF 7,000 PSI.

B. NON-SHRINK GROUT SHALL COMPLY WITH ONE OF THE FOLLOWING.

1) DRY PACK NON-SHRINK GROUT SHALL BE EUCLID CHEMICAL COMPANY'S "EUCO-NS", L&M CRYSTEX, MASTER BUILDERS' "MASTERFLOW 713", SIMPSON'S "FX-228", OR FIVE STAR GROUT.
2) WHERE HIGH FLUIDITY OR INCREASED PLACING TIME IS REQUIRED, USE EUCLID CHEMICAL COMPANY'S "EUCO HI-FLOW GROUT" OR MASTER BUILDERS' "MASTERFLOW 928".

C. COMPLY WITH MANUFACTURER'S INSTALLATION RECOMMENDATIONS AND REQUIREMENTS.

12. PATCHING OF CONCRETE

A. ALL INSERT HOLES, SHE-BOLTS, ETC., AND OTHER IMPERFECTIONS ON THE SURFACES OF THE CONCRETE SHALL BE FILLED WITH GROUT, BRUSHED AND SACKED TO A UNIFORM FINISH. ALL HOLES THROUGH TO THE OUTSIDE OF THE BUILDING MUST BE MADE WATERTIGHT.

B. MATERIALS AND METHODS USED FOR PATCHING OF CONCRETE IN THE EVENT OF SPALLING, HONEYCOMBING, LARGE CRACKS, ETC., SHALL BE BY MASTER BUILDERS, SIKA, OR EQUIVALENT. FINAL FINISHED APPEARANCE SUBJECT TO APPROVAL. SUBSTITUTES WILL BE CONSIDERED UPON SUBMITTAL OF MANUFACTURER'S TESTING REPORT.

13. FRAMING LUMBER

A. ALL FRAMING LUMBER SHALL BE GRADED PER WCLIB GRADING RULES NO. 17.

B. ALL FRAMING LUMBER SHALL HAVE A MAXIMUM MOISTURE CONTENT OF 19% AT TIME OF INSTALLATION.

C. ALL POSTS AND BEAMS SHALL BE DOUGLAS FIR, #1.

D. ALL FLOOR AND ROOF JOISTS SHALL BE DOUGLAS FIR, #1.

E. ALL STUDS, PLATES, ETC., SHALL BE DOUGLAS FIR, CONSTRUCTION GRADE.

F. ENGINEERED WOOD PRODUCTS MAY BE USED AS SUBSTITUTES FOR SAWN LUMBER UPON REQUEST BY THE CONTRACTOR AND APPROVAL FROM THE ARCHITECT AND ENGINEER OF RECORD. CONTRACTOR SHALL SUBMIT MANUFACTURER'S TESTING REPORTS FOR APPROVAL.

14. PLYWOOD (PW) OR ORIENTED STRAND BOARD (OSB)

A. EACH PANEL SHALL BE IDENTIFIED WITH THE APPROPRIATE GRADE, TRADEMARK OF THE AMERICAN PLYWOOD ASSOCIATION, AND SHALL MEET THE REQUIREMENTS OF THE LATEST EDITION OF THE U.S. PRODUCT STANDARD PS-1. PLYWOOD GRADE SHALL CONFORM TO CD-X FOR PLYWOOD OR TYPE 2-M-W FOR ORIENTED STRAND BOARD, UNLESS OTHERWISE NOTED.

B. WHERE PLYWOOD IS PERMANENTLY EXPOSED TO WEATHER, IT SHALL BE EXTERIOR TYPE. OTHERWISE, PANEL SHEATHING SHALL BE EXPOSURE 1, PLYWOOD TO BE CC GRADE AT LOCATIONS EXPOSED TO WEATHER; CC OR CD GRADE ELSEWHERE.

C. PANELS TO BE 5-PLY MINIMUM, EXCEPT 3/8" PANELS TO BE 3-PLY MINIMUM.

D. PLYWOOD SHEETS AT FLOORS AND ROOFS SHALL BE LAID WITH FACE GRAIN PERPENDICULAR TO JOISTS AND RAFTERS. PLYWOOD AT FLOORS SHALL BE GLUED TO FRAMING BELOW (USE SOLVENT BASED GLUE COMPLYING WITH ASTM D3498 AND VOLATILE ORGANIC COMPOUND (VOC) LIMITS PER CALGREEN), LN-950 BY LIQUID NAILS OR APPROVED EQUIVALENT, UNLESS OTHERWISE SPECIFIED BY THE ARCHTIECT. PROVIDE RING-SHANK NAILS AT FLOOR AND ROOF SHEATHING.

E. PLYWOOD SHEETS ON WALLS SHALL BE LAID WITH LONG DIMENSION VERTICAL. BLOCK ALL EDGES WITH A MINIMUM OF 3X BLOCK AND/MEMBERS. ALL NAILING SHALL HAVE 3/8" EDGE DISTANCE FOR FRAMING, BLOCKING AND PLYWOOD EDGES. USE SMOOTH-SHANK NAILS FOR PLYWOOD WALL SHEATHING.

F. STAPLES FOR PLYWOOD DIAPHRAGMS SHALL BE 14 GAGE ROUND SEMI-FLATTENED OR FLATTENED, PLAIN OR ZINC-COATED STEEL WIRE, WITH A NOMINAL CROWN WIDTH OF 7/16", DRIVEN BY PNEUMATIC OR MECHANICAL DEVICE.

G. PROVIDE 1/8" GAP BETWEEN PANELS UNLESS OTHERWISE NOTED.

H. PANELS SHALL HAVE THE FOLLOWING PROPERTIES UNLESS OTHERWISE NOTED.

1) 3/8" NOMINAL SHALL BE 3/8" ACTUAL THICKNESS WITH 24/0 SPAN RATING.
2) 1/2" NOMINAL SHALL BE 15/32" ACTUAL THICKNESS WITH 32/16 SPAN RATING.
3) 5/8" NOMINAL SHALL BE 19/32" ACTUAL THICKNESS WITH 40/20 SPAN RATING.
4) 3/4" NOMINAL SHALL BE 23/32" ACTUAL THICKNESS WITH 48/24 SPAN RATING.
5) 1 1/8" NOMINAL SHALL BE 1 1/8" ACTUAL THICKNESS WITH 48" O.C. FLOOR SPAN RATING.

I. ALL GRAVITY SUPERSTRUCTURE PRIMARY LOAD BEARING EXTERIOR WALL ASSEMBLIES AS NOTED ON ARCHITECTURAL DRAWINGS SHALL BE TREATED WITH PYRO-GUARD. STRUCTURAL DESIGN OF FIRE-RETARDANT-TREATED (FRT) SHALL ACCOMMODATE THE FOLLOWING STRENGTH REDUCTION FACTORS:
Fc = 1.00
Fv = 0.96
Ft = 0.95
E = 0.96
Fb = 0.97
FASTENERS AND CONNECTORS = 0.9
ALL FRT WOOD SHALL BE LABELED AS SPECIFIED IN IBC SECTION 2303.2.4 AND SHALL BEAR THE IDENTIFICATION MARK OF AN APPROVED AGENCY IN ACCORDANCE WITH SECTION 1703.5. ALL FASTENERS AND CONNECTORS CONNECTING OR CONNECTED TO FIRE RETARDANT TREATED WOOD SHALL BE HOT-DIPPED GALVANIZED OR STAINLESS STEEL.

15. ROUGH CARPENTRY

A. FOR SCHEDULE OF MINIMUM NAILING TABLE 2304.10.1 OF THE **2019 CBC/2018 IBC** 16d VINYL COATED SINKERS MAY BE SUBSTITUTED FOR 16d BOX OR COMMON NAILS FOR ROUGH FRAMING. SINKERS SHALL NOT BE USED WITH METAL CONNECTORS.

B. SILLS AND LEDGERS ON CONCRETE OR MASONRY SHALL BE PRESSURE-TREATED DOUGLAS FIR. SILLS AND LEDGERS SHALL BE FASTENED TO THE CONCRETE WITH A MINIMUM OF TWO FASTENERS PER PIECE AND A FASTENER NO FURTHER THAN 9"ES FROM END OF EACH PIECE, UNLESS OTHERWISE NOTED.

C. PLACE JOISTS WITH CROWN UP.

D. RE-TIGHTEN ALL BOLTS PRIOR TO CLOSING IN WALLS.

E. WHEN METAL CONNECTORS, ANCHORS OR FASTENERS ITEMS ARE EXPOSED TO WEATHER AND/OR PRESSURE TREATED LUMBER THE METAL ITEMS ARE TO BE OF HOT DIPPED ZINC-COATED GALVANIZED STEEL, STAINLESS STEEL, SILICON BRONZE OR COPPER. THE COATING WEIGHTS FOR ZINC-COATED FASTENERS SHALL BE IN ACCORDANCE WITH ASTM A153. SEE ADDITIONAL COATING REQUIREMENTS AS NOTED IN THE PRESSURE TREATMENT SECTION.

F. DOUBLE ALL JOISTS UNDER ALL PARALLEL PARTITIONS UNLESS NOTED OTHERWISE.

G. BLOCK ALL JOISTS AT SUPPORTS AND UNDER ALL PARTITIONS WITH MINIMUM 2x SOLID BLOCKING. BLOCK AND BRIDGE ROOF JOISTS AT 10 FEET AND FLOOR JOISTS AT 8 FEET UNLESS OTHERWISE NOTED.

H. 2x JOISTS SHALL BE SISTERED (VERTICAL NAIL LAMINATED) WITH SDWS 0.220x3 MIN. LENGTH AT 6" O.C. IN (2) ROWS STAGGERED UNLESS OTHERWISE NOTED.

I. ALL POSTS LOCATED OVER WOOD WALLS SHALL HAVE A POST OF EQUAL OR GREATER SIZE LOCATED IN THE WALL DIRECTLY BELOW UNLESS OTHERWISE NOTED.

J. THE STRUCTURAL DESIGN ASSUMES THAT ALL FLOORS AND ROOFS ARE CONSTRUCTED AND LOADED WITH FINISHES (OR EQUIVALENT WEIGHT) FOR A MINIMUM OF SEVEN (7) DAY PRIOR TO THE TIME OF DOOR AND WINDOW INSTALLATION.

K. ALL TIMBER FASTENERS NOT SPECIFICALLY DETAILED ON THE DRAWINGS SHALL BE SIMPSON STRONG-TIE'S STANDARD FASTENERS OR APPROVED EQUIVALENT INSTALLER PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. USP LUMBER CONNECTORS WITH REFERENCE NUMBERS FOR SUBSTITUTION MAY BE USED IN LIEU OF SIMPSON HARDWARE. ENGINEER MAY APPROVE OF OTHER SUBSTITUTIONS UPON THE FOLLOWING:

1) WRITTEN REQUEST FOR OTHER BRANDS
2) SUBMISSION OF MANUFACTURER'S TESTING REPORTS
3) REFERENCES TO PERTINENT DETAILS WHERE SUBSTITUTIONS ARE TO BE APPLIED.

L. ALL STRUCTURAL WOOD WALLS SHALL BE FRAMED WITH 2x4 MINIMUM STUDS AT 16" ON CENTER UNLESS OTHERWISE NOTED.

M. PRE-DRILL HOLES AS REQUIRED TO PREVENT SPLITTING OF WOOD.

16. PRESSURE TREATMENT

A. ALL LUMBER EXPOSED TO WEATHER SHALL BE PRESSURE TREATED IN ACCORDANCE WITH A.W.P.A. STANDARD U1, WITH A PRESERVATIVE AND RETENTION SUITABLE FOR THE APPLICATION (SEE BELOW). ALL CUT ENDS SHALL ALSO BE FIELD TREATED WITH A PRESERVATIVE. AS AN ALTERNATE, CONTRACTOR MAY USE REDWOOD OF EQUIVALENT STRENGTH PROPERTIES AS THOSE SHOWN ABOVE, AND AN APPROVED PRIMER.
THE FOLLOWING USE CATEGORIES SHALL BE REQUIRED BASED ON THE APPLICATION:
1) UC1 – INTERIOR DRY
2) UC2 – INTERIOR DAMP
3) UC3A – EXTERIOR ABOVE GROUND – PROTECTED
4) UC3B – EXTERIOR ABOVE GROUND - UNPROTECTED
5) UC4A – GROUND CONTACT, GENERAL USE
6) UC4B – GROUND CONTACT, HEAVY DUTY USE
7) UC4C – GROUND CONTACT, EXTREME DUTY
8) UC5A – MARINE USE, NORTHERN WATERS

B. ALL EXTERIOR GLUED LAMINATED BEAMS EXPOSED TO WEATHER SHALL BE PRESSURE TREATED WITH A PRESERVATIVE, PENTACHLOROPHENOL WITH A MINIMUM NET RETENTION OF 0.40#/CU. FT. FOR BOTH GROUND USE. ALL CUT ENDS SHALL ALSO BE TREATED WITH A PRESERVATIVE. AS AN ALTERNATE, GLU-LAM BEAMS MAY BE FABRICATED OF ALASKAN, OR PORT ORFORD CEDAR, AND FIELD PAINTED WITH AN APPROVED PRIMER.

C. ALL PLYWOOD EXPOSED TO WEATHER SHALL BE PRESSURE TREATED.

D. WHEN METAL CONNECTOR, ANCHOR OR FASTENER ITEMS ARE IN CONTACT WITH PRESSURE TREATED LUMBER AND/OR CORROSIVE ENVIRONMENTS THE CONTRACTOR SHALL USE CORROSION RESISTANT METAL ITEMS AS NOTED:

1) WHEN LUMBER IS TREATED WITH CHROMATED COPPER ARSENATE (CCA-C) OR DOT SODIUM ARSENATE (SBX) THE METAL ITEMS SHALL HAVE A MINIMUM G90 (0.90 OZ/SQFT) ZINC COATING OR ENGINEER APPROVED EQUIVALENT.
2) WHEN LUMBER IS TREATED WITH ALKALINE COPPER QUAT (ACQ-C OR ACQ-D), COPPER AZOLE (CBA-A OR CA-B) OR OTHER BORATE (NON-DOT) TREATMENT THE METAL ITEMS SHALL HAVE A MINIMUM G185 (1.85 OZ/SQFT) ZINC COATING OR ENGINEER APPROVED EQUIVALENT.
3) WHEN LUMBER IS TREATED WITH OTHER TREATMENTS (NOT AMMONIACAL COPPER ZINC ARSENATE (ACZA) SEE 4 BELOW) OR IS EXPOSED TO CORROSIVE ENVIRONMENTS NOT LIST ABOVE THE METAL ITEMS SHALL BE TYPE 316L STAINLESS STEEL OR ENGINEER APPROVED EQUIVALENT.
4) AMMONIACAL COPPER ZINC ARSENATE (ACZA) IS NOT PERMITTED UNLESS APPROVED BY THE ENGINEER.
5) CONTRACTOR IS TO CONFIRM LUMBER PRESSURE TREATMENT TYPE PRIOR TO PURCHASE OF METAL ITEMS.
6) AS AN ALTERNATIVE, FOR THE SITUATION WHEN THE BASE OF A HOLDOWN IS IN CONTACT WITH A PRESSURE TREATED SILL PLATE THE CONTRACTOR CAN PROVIDE A PRESSURE TREATMENT BARRIER BETWEEN THE BASE OF THE HOLDOWN AND THE SILL PLATE.

17. STRUCTURAL STEEL

A. STRUCTURAL STEEL SHALL CONFORM TO FOLLOWING ASTM DESIGNATIONS, UNLESS OTHERWISE NOTED:

1) PLATES AND BARS, INCLUDING DOUBLER PLATES, CONTINUITY PLATES, BASE PLATES, GUSSET PLATES, AND SHEAR TABS: ASTM A572 GRADE 50.
2) WIDE FLANGES (W): ASTM A992 (Fy = 50 KSI).
3) MISCELLANEOUS (M), AMERICAN STANDARD (S), CHANNEL (C), MISCELLANEOUS CHANNEL (MC), AND ANGLES (L): ASTM A36 (Fy = 36 KSI).
4) BEARING PILES (HP): ASTM A572 GRADE 50 (Fy = 50 KSI).
5) RECTANGULAR AND ROUND HSS (HSS): ASTM A1085 (Fy = 50 KSI).
6) PIPE (P): ASTM A53 GRADE B (Fy = 35 KSI)
7) STRUCTURAL TEES (WT, MT, AND ST) SHALL CONFORM TO THE ASTM SPECIFICATION OF THE CORRESPONDING FULL DEPTH SHAPE (WT SHALL CONFORM TO ASTM SPECIFICATION FOR W, ETC.)

B. STRUCTURAL FASTENERS INCLUDING BOLTS, THREADED RODS, AND ANCHOR RODS SHALL CONFORM TO THE FOLLOWING ASTM DESIGNATIONS, UNLESS OTHERWISE NOTED.

1) ERECTION, GROUTED, AND TIMBER CONNECTION BOLTS: ASTM A307 WITH WELDABILITY SUPPLEMENT S1 GRADE A.
2) HIGH STRENGTH BOLTS: ASTM F3125 A325; WHERE TWIST-OFF TYPE BOLTS ARE SPECIFIED, PROVIDE ASTM F3125 F1852.
3) THREADED RODS: ASTM A36.
4) HIGH STRENGTH THREADED RODS: ASTM A193 GRADE B7.
5) STEEL HEADED STUD ANCHORS: ASTM A108.
6) ANCHOR RODS AND ANCHOR BOLTS: ASTM F1554 WITH WELDABILITY SUPPLEMENT S1 GRADE 55.

C. WHEN PRETENSIONED ASTM F3125 A490 BOLTS ARE SPECIFIED F436 WASHERS SHALL BE USED UNDER BOTH THE BOLT HEAD AND NUT.

D. ALL BOLTS FOR EXTERIOR USE SHALL BE ZINC-COATED BY THE BOLT MANUFACTURER BY EITHER THE HOT-DIP PROCESS IN ACCORDANCE WITH ASTM A153, CLASS C OR THE MECHANICAL DEPOSIT PROCESS IN ACCORDANCE WITH ASTM B695, CLASS 50.

E. ALL STRUCTURAL STEEL MEMBERS EXPOSED TO WEATHER OR CALLED OUT AS HOT DIP GALVANIZED (HDG) ON PLAN OR STRUCTURAL STEEL MEMBERS LOCATED IN EXTERIOR ENVIRONMENTS SHALL BE HDG IN ACCORDANCE WITH ASTM A 123. ANY MEMBER THAT HAS HAD ITS HDG COATING DAMAGED OR REMOVED DURING TRANSPORT OR ERECTION SHALL HAVE ITS COATING REPAIRED USING ZRC GALVILITE REPAIR COMPOUND OR EQUAL. REPAIR GALVANIZING AFTER WELDING IN ACCORDANCE WITH ASTM A780.

F. PAINT STEEL (EXCEPT GALVANIZED STEEL AND PORTIONS TO BE ENCASED IN CONCRETE) WITH ONE COAT OF PRIMER STANDARD TNEMEC P10-99 OR EQUIVALENT SUBJECT TO ENGINEER'S APPROVAL. ALTERNATES WILL BE CONSIDERED UPON REQUEST AND SUBMISSION OF THE MANUFACTURER'S SPECIFICATIONS.

G. ALL CONCRETE ENCASED STEEL SHALL BE CLEAN OF GREASE, PAINT AND OTHER CONTAMINANTS.

H. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST AISC 'SPECIFICATIONS' FOR DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS.

I. WELDING SHALL CONFORM TO THE LATEST EDITION OF THE ANSI/AWS D1.1 STRUCTURAL WELDING CODE. USE E70XX ELECTRODES. WELDING OF METAL DECK AND OTHER SHEET METAL SHALL CONFORM TO THE LATEST EDITION OF AWS D1.3, USE E70XX ELECTRODES.

J. ALL STAIR STRINGERS SHALL BE EITHER A CHANNEL OR MISCELLANEOUS CHANNEL SECTION OR BENT PLATE WITH TOP AND BOTTOM FLANGES OF MINIMUM WIDTH OF 3/4 INCH. THE DESIGN AND USE OF STAIR STRINGERS, TREADS, GUARDRAILS, AND THEIR ATTACHMENTS TO THE BASE BUILDING STRUCTURE SHALL BE DOCUMENTED AND SUPPORTED WITH CALCULATIONS AND DRAWINGS THAT ARE STAMPED AND SIGNED BY A CIVIL/STRUCTURAL ENGINEER LICENSED IN THE STATE OF CONSTRUCTION.

K. LOCATE AND INSTALL ALL ANCHOR BOLTS, EPOXY ANCHORS, AND MECHANICAL ANCHORS BEFORE FABRICATING STEEL CONNECTION ELEMENTS.

L. STRUCTURAL STEEL AND CONNECTIONS EXPOSED TO VIEW IN THE COMPLETED BUILDING ARE DESIGNATED ARCHITECTURALLY EXPOSED STRUCTURAL STEEL (AESS) AND ARE SUBJECT TO THE AISC AESS REQUIREMENTS.

18. MECHANICAL ANCHORS

A. EXPANSION ANCHORS INTO CONCRETE SHALL BE
a. HILTI KB-TZ
b. SIMPSON STRONG-BOLT 2
c. DeWalt POWER-STUD+ SD2
INSTALL ANCHORS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

B. SCREW ANCHORS INTO CONCRETE SHALL BE:
a. HILTI KH-EZ
b. SIMPSON TITEN HD
c. DeWalt SCREWBOLT+
INSTALL SCREWS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

C. PRIOR TO INSTALLING MECHANICAL ANCHORS IN POST TENSIONED CONCRETE ELEMENTS THE CONTRACTOR SHALL SCAN THE STRUCTURE AND LOCATE THE TENDONS. THE CONTRACTOR SHALL AVOID TENDON LOCATIONS.

D. PROVIDE STAINLESS (AISI 316) STEEL FASTENERS FOR EXTERIOR USE OR WHEN EXPOSED TO WEATHER OR IN CHEMICALLY CORROSIVE ENVIRONMENTS. PROVIDE ZINC COATED OR GALVANIZED CARBON STEEL ANCHORS AT OTHER LOCATIONS, UNLESS OTHERWISE NOTED. WHERE STAINLESS STEEL FASTENERS ARE USED IN CONJUNCTION WITH GALVANIZED OR OTHER DISSIMILAR BASE METALS, PROVIDE ELECTRICAL ISOLATION AS NOTED ON THE DRAWINGS. NOTIFY THE ENGINEER FOR CLARIFICATION IF NO ELECTRICAL ISOLATION IS SPECIFIED.

E. IF REINFORCEMENT IS ENCOUNTERED DURING DRILLING, ABANDON AND SHIFT THE HOLE LOCATION TO AVOID THE REINFORCEMENT. PROVIDE A MINIMUM OF 2 ANCHOR DIAMETERS OR 1 INCH, WHICHEVER IS LARGER, OF SOUND CONCRETE BETWEEN THE DOWEL AND THE ABANDONED HOLE. FILL THE ABANDONED HOLE WITH NON-SHRINK GROUT. DO NOT CUT EXISTING REINFORCEMENT. IF THE ANCHOR OR DOWEL MAY NOT BE SHIFTED AS NOTED ABOVE, THE ENGINEER WILL DETERMINE A NEW LOCATION.

F. LOCATE REINFORCEMENT AND CONFIRM FINAL ANCHOR LOCATIONS PRIOR TO FABRICATING PLATES, MEMBERS, OR OTHER STEEL ASSEMBLIES ATTACHED WITH MECHANICAL ANCHORS.

19. EPOXY GROUTING OF DOWELS, REBAR AND ANCHOR BOLTS

A. INSTALLATION OF POST-INSTALLED DOWELS, REBAR AND ANCHOR BOLTS (EPOXY ANCHORS) SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS (MPII). WHERE THERE IS A CONFLICT BETWEEN THESE NOTES AND THE MPII, SEE MPII FOR CLARIFICATION.

B. EPOXY ANCHORS SHALL MEET THE REQUIREMENTS OF ACI 355.4 AND THE FOLLOWING INSTALLATION REQUIREMENTS, UNLESS OTHERWISE NOTED.

1) MINIMUM AGE OF CONCRETE: 21 DAYS
2) CONCRETE TEMPERATURE RANGE: 50-80 DEGREES FAHRENHEIT
3) MOISTURE CONDITION OF CONCRETE: DRY

C. EPOXY GROUTING WILL BE USED IN ALL LOCATIONS WHERE EITHER ALL-THREAD ROD OR REBAR ARE BEING EMBEDDED INTO EXISTING CONCRETE, CMU, OR BRICK.

D. IN CONCRETE, HOLES SHALL BE DRILLED WITH ROTARY HAMMER UNLESS NOTED OTHERWISE.

E. IN BRICK, HOLES SHALL BE DRILLED WITH NON-IMPACT TOOLS, NO ROTARY HAMMERS.

F. EPOXY GROUT FOR DOWNWARD HOLES SHALL BE EITHER NON-SAG OR LIQUID TYPE, NORMAL SET. HORIZONTAL OR OVERHEAD HOLES SHALL BE NON-SAG TYPE. FOR OVERHEAD APPLICATIONS A PISTON PLUG SHALL BE USED.

G. UNLESS OTHERWISE NOTED, EPOXY TYPES SHALL BE AS FOLLOWS:
FOR DOWELS AND REBAR IN CONCRETE, EPOXY SHALL BE:
a. HILTI HIT-RE 500 V3

FOR ANCHOR BOLTS IN CONCRETE, EPOXY SHALL BE
a. SIMPSON SET-XP
b. HILTI HIT-HY 200
c. DeWalt PURE 110+

FOR UNREINFORCED MASONRY (URM), EPOXY SHALL BE:
a. SIMPSON SET
b. HILTI HIT-HY 70
c. DeWalt AC100+ GOLD

FOR CONCRETE MASONRY UNITS (CMU), EPOXY SHALL BE SIMPSON SET OR POWERS PURE 100+.ALTERNATES WILL BE CONSIDERED UPON REQUEST AND SUBMISSION OF PRODUCT EVALUATION REPORT IN ACCORDANCE WITH ACI 355.4.

1) WHEN INSTALLING ANCHORS, USE CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE EXISTING REINFORCING BARS OR POST TENSIONING TENDONS. IN POST TENSION ELEMENTS THE CONTRACTOR SHALL SCAN PRIOR TO LOCATE THE EXISTING TENDONS PRIOR TO INSTALLING THE ANCHOR.
2) IF REINFORCEMENT IS ENCOUNTERED DURING DRILLING, ABANDON AND SHIFT THE HOLE LOCATION TO AVOID THE REINFORCEMENT. PROVIDE A MINIMUM OF 2 ANCHOR DIAMETERS OR 1 INCH, WHICHEVER IS LARGER, OF SOUND CONCRETE BETWEEN THE DOWEL AND THE ABANDONED HOLE. FILL THE ABANDONED HOLE WITH NON-SHRINK GROUT. IF THE ANCHOR OR DOWEL MAY NOT BE SHIFTED AS NOTED, THE ENGINEER WILL DETERMINE A NEW LOCATION.
3) LOCATE EXISTING REINFORCEMENT AND CONFIRM FINAL ANCHOR LOCATIONS PRIOR TO FABRICATING PLATES, MEMBERS, OR OTHER STEEL ASSEMBLIES ATTACHED WITH ANCHORS.

20. FINISHES - FOR WORK ON EXISTING BUILDINGS

A. REPLACE ALL DAMAGED FINISH MATERIALS WITH NEW MATERIALS OF EQUIVALENT QUALITY AND KIND. SUBMIT SAMPLES AND/OR PRESENT SAMPLE INSTALLATION TO OWNER FOR APPROVAL PRIOR TO INSTALLATION.

12/1/2020 6:59:47 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.

BEAVERTON SCHOOL DISTRICT

Cooper Mtn SRGP

7670 SW 170th Ave
Beaverton, OR 97007

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

Consultants:

Holmes Structures
555 SE MLK Jr Blvd. Suite 602
Portland, OR 97214 USA
t 503.675.1323 holmesstructures.com

COOPER MOUNTAIN ELEMENTARY SCHOOL
SEISMIC SRGP IMPROVEMENTS

PERMIT/BID SET

STRUCTURAL
REGISTERED PROFESSIONAL ENGINEER
OREGON
JANUARY 11, 2011
JONATHAN B. GOINS
EXP. 12/31/2021

Date: 12-04-2020
Project Number: 20138.10
Drawn By: IK
Checked By: JE

Revision Schedule:

Sheet Title:
GENERAL NOTES

Sheet Number:
S-003

PERMIT/BID SET

REQUIRED VERIFICATION AND INSPECTION OF STEEL CONSTRUCTION (2014 OSSC SECTION 1705.2.1 AND AISC 360-10 CHAPTER N)[a]

VERIFICATION AND INSPECTION	PERFORM[b]	OBSERVE[c]	REF. STANDARD
1. FABRICATOR AND ERECTOR DOCUMENTS: VERIFY REPORTS, CERTIFICATIONS, SPECIFICATIONS AND QUALIFICATIONS LISTED IN AISC 360-10 SECTION N3 FOR COMPLIANCE WITH CONSTRUCTION DOCUMENTS.	-	X	AISC 360 N3
2. MATERIAL VERIFICATION OF STRUCTURAL STEEL.	-	X	
3. VERIFY MEMBER LOCATIONS, BRACES, STIFFENERS, AND APPLICATION OF JOINT DETAILS AT EACH CONNECTION COMPLY WITH CONSTRUCTION DOCUMENTS.	-	X	AISC 360 N5.7
4. WELDING			AISC 360 N5.4
A. INSPECTION TASKS PRIOR TO WELDING			AISC TABLE N5.4-1
1. WELDING PROCEDURE SPECIFICATIONS (WPSs) AVAILABLE.	X	-	
2. MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE.	X	-	
3. MATERIAL IDENTIFICATION (TYPE/GRADE).	-	X	
4. WELDER IDENTIFICATION SYSTEM (FABRICATOR SHALL BE ABLE TO IDENTIFY WELDERS PERFORMING WELDING OF JOINTS OR MEMBERS).	-	X	
5. FIT-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY): JOINT PREPARATION, DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL), CLEANLINESS (CONDITION OF STEEL SURFACES), TACKING (TACK WELD QUALITY AND LOCATION), AND BACKING TYPE AND FIT (IF APPLICABLE).	-	X	
6. CONFIGURATION AND FINISH OF ACCESS HOLES.	-	X	
7. FIT-UP OF FILLET WELDS: DIMENSIONS (ALIGNMENT, GAPS AT ROOT), CLEANLINESS (CONDITION OF STEEL SURFACES), AND TACKING (TACK WELD QUALITY AND LOCATION).	-	X	
8. CHECK WELDING EQUIPMENT.	N/A	N/A	
B. INSPECTION TASKS DURING WELDING			AISC TABLE N5.4-2
1. USE OF QUALIFIED WELDERS.	-	X	
2. CONTROL AND HANDLING OF WELDING CONSUMABLES: PACKAGING, AND EXPOSURE CONTROL.	-	X	
3. NO WELDING OVER CRACKED TACK WELDS.	-	X	
4. ENVIRONMENTAL CONDITIONS: WIND SPEED WITHIN LIMITS, AND PRECIPITATION AND TEMPERATURE.	-	X	
5. WPS FOLLOWED: SETTINGS ON WELDING EQUIPMENT, TRAVEL SPEED, SELECTED WELDING MATERIALS, SHIELDING GAS TYPE/FLOW RATE, PREHEAT APPLIED, INTERPASS TEMPERATURE MAINTAINED (MIN/MAX), AND PROPER POSITION (F,V,H,OH).	-	X	
6. WELDING TECHNIQUES: INTERPASS AND FINAL CLEANING, EACH PASS WITHIN PROFILE LIMITATIONS, AND EACH PASS MEETS QUALITY REQUIREMENTS.	-	X	
C. INSPECTION TASKS AFTER WELDING			AISC TABLE N5.4-3
1. WELDS CLEANED.	-	X	
2. SIZE, LENGTH, AND LOCATION OF WELDS.	X	-	
3. WELDS MEET VISUAL ACCEPTANCE CRITERIA: CRACK PROHIBITION, WELD/BASE-METAL FUSION, CRATER CROSS SECTION, WELD PROFILES, WELD SIZE, UNDERCUT, AND POROSITY.	X	-	
4. ARC STRIKES.	X	-	
5. k-AREA (WHEN WELDING OF DOUBLER PLATES, CONTINUITY PLATES, OR STIFFENERS HAS BEEN PERFORMED IN THE k-AREA, VISUALLY INSPECT THE WEB k-AREA FOR CRACKS WITHIN 3" OF THE WELD).	X	-	
6. BACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED).	X	-	
7. REPAIR ACTIVITIES.	X	-	
8. DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER.	X	-	
D. NONDESTRUCTIVE TESTING OF WELDED JOINTS (EXCEPTION NDT OF WELDS COMPLETED IN AN APPROVED FABRICATOR'S SHOP. SEE AISC 360-10 N7):			AISC 360 N5.5
1. COMPLETE PENETRATION GROOVE WELDS 5/16" OR GREATER IN RISK CATEGORY III OR IV. UT ON 100% MAY BE REDUCED TO 25% PER AISC 360-10 N5e.	X	-	
2. COMPLETE PENETRATION GROOVE WELDS 5/16" OR GREATER IN RISK CATEGORY II. UT ON 10%, MAY INCREASE TO 100% PER AISC 360-10 N5f.	X	-	
3. THERMALLY CUT SURFACES OF ACCESS HOLES WHEN MATERIAL t>2".	X	-	
4. WELDED JOINTS SUBJECT TO FATIGUE WHEN REQUIRED BY AISC 360, APPENDIX 3, TABLE A-3.1.	X	-	
5. FABRICATOR'S NDT REPORTS WHEN FABRICATOR PERFORMS NDT.	X	-	

4 S-004 **MINIMUM TESTS AND SPECIAL INSPECTION OF STEEL CONSTRUCTION** N.T.S.

VERIFICATION AND INSPECTION	PERFORM[b]	OBSERVE[c]	REF. STANDARD
5. BOLTING			AISC 360 N5.6
A. INSPECTION TASKS BEFORE BOLTING			AISC TABLE N5.6-1
1. MANUFACTURER'S CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS.	X	-	
2. FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS.	-	X	
3. PROPER FASTENERS SELECTED FOR THE JOINT DETAIL (GRADE, TYPE, BOLT LENGTH IF THREADS ARE TO BE EXCLUDED FROM SHEAR PLANE).	-	X	
4. PROPER BOLTING PROCEDURE SELECTED FOR JOINT DETAIL.	-	X	
5. CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS.	-	X	
6. PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCUMENT FOR FASTENER ASSEMBLIES AND METHODS USED.	-	X	
7. PROPER STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS, AND OTHER FASTENER COMPONENTS.	-	X	
B. INSPECTION TASKS DURING BOLTING			AISC TABLE N5.6-2
1. FASTENER ASSEMBLIES, OF SUITABLE CONDITION, PLACED IN ALL HOLES AND WASHERS (IF REQUIRED) ARE POSITIONED AS REQUIRED.	-	X	
2. JOINT BROUGHT TO THE SNUG-TIGHT CONDITION PRIOR TO THE PRETENSIONING OPERATION.	-	X	
3. FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING.	-	X	
4. FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH THE RCSC SPECIFICATION, PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARD THE FREE EDGES.	-	X	
C. INSPECTION TASKS AFTER BOLTING: DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS.	X	-	AISC TABLE N5.6-3
6. PLACEMENT OF ANCHOR RODS AND OTHER EMBEDMENTS SUPPORTING STRUCTURAL STEEL. VERIFY AS A MINIMUM DIAMETER, GRADE, TYPE, AND LENGTH OF THE ANCHOR ROD OR EMBEDDED ITEM, AND THE EXTENT OR DEPTH OF EMBEDMENT INTO THE CONCRETE.	X	-	AISC 360 N5.7

a. SEE AISC 360-10 CHAPTER N FOR ADDITIONAL INFORMATION NOT SHOWN HEREIN.

b. "PERFORM" INDICATES PERFORMANCE OF THE TASK FOR EACH STEEL ELEMENT, MEMBER, WELDED JOINT, OR BOLTED CONNECTION.

c. "OBSERVE" INDICATES OBSERVATION OF ITEM ON A RANDOM BASIS. OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS, THIS REQUIRES PURPOSEFUL, REGULAR, RANDOM INSPECTION WITH FREQUENCY THAT IS APPROPRIATE TO ASSURE THAT THE PROCESS IS BEING PERFORMED CORRECTLY.

REQUIRED VERIFICATION AND INSPECTION FOR SEISMIC RESISTANCE (2014 OSSC SECTION 1705.12)

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC[a]	REFERENCED STANDARD
1. STRUCTURAL WOOD SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE:			OSSC SEC. 1705.12.2
a. INSPECTION OF FIELD GLUING OPERATIONS OF ELEMENTS OF THE SEISMIC-FORCE RESISTING SYSTEM.	X	-	
b. INSPECTION OF NAILING, BOLTING, ANCHORING AND OTHER FASTENING OF COMPONENTS WITHIN THE SEISMIC-FORCE RESISTING SYSTEM, INCLUDING WOOD SHEAR WALLS*, WOOD SHEAR PANELS*, WOOD DIAPHRAGMS*, DRAG STRUTS, AND HOLD-DOWNS.	-	X	* NOT REQUIRED WHERE FASTENER SPACING OF SHEATHING IS MORE THAN 4" O.C.
2. DESIGNATED SEISMIC SYSTEMS VERIFICATIONS: INSPECT AND VERIFY THAT THE COMPONENT LABEL, ANCHORAGE OR MOUNTING CONFORMS TO THE CERTIFICATE OF COMPLIANCE IN ACCORDANCE WITH SECTION 1705.12.4.	-	X	OSSC SEC. 1705.12.4
3. ARCHITECTURAL COMPONENTS SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE:			OSSC SEC. 1705.12.5
a. INSPECTION DURING ERECTION AND FASTENING OF EXTERIOR CLADDING.	-	X	
b. INSPECTION DURING ERECTION AND FASTENING OF INTERIOR AND EXTERIOR VENEER.	-	X	
c. INSPECTION DURING THE ERECTION AND FASTENING OF INTERIOR AND EXTERIOR NONBEARING WALLS.	-	X	
d. INSPECTION DURING ANCHORAGE OF ACCESS FLOORS.	-	X	
4. PLUMBING, MECHANICAL AND ELECTRICAL COMPONENTS SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE:			OSSC SEC. 1705.12.6
a. INSPECTION DURING THE ANCHORAGE OF ELECTRICAL EQUIPMENT FOR EMERGENCY OR STANDBY POWER SYSTEMS.	-	X	
b. INSPECTION DURING THE ANCHORAGE OF OTHER ELECTRICAL EQUIPMENT.	-	X	
c. INSPECTION DURING INSTALLATION AND ANCHORAGE OF PIPING SYSTEMS DESIGNED TO CARRY HAZARDOUS MATERIALS, AND THEIR ASSOCIATED MECHANICAL UNITS.	-	X	
d. INSPECTION DURING THE INSTALLATION AND ANCHORAGE OF HVAC DUCTWORK THAT WILL CONTAIN HAZARDOUS MATERIALS.	-	X	
e. INSPECTION DURING THE INSTALLATION AND ANCHORAGE OF VIBRATION ISOLATION SYSTEMS.	-	X	

a. "O" INDICATES AN ACTIVITY THAT IS EITHER A ONE-TIME ACTIVITY OR ONE WHOSE FREQUENCY IS ON A RANDOM BASIS OR IS DEFINED IN SOME OTHER MANNER (SEE REFERENCED CODE SECTION).

3 S-004 **MINIMUM INSPECTION FOR SEISMIC RESISTANCE** N.T.S.

REQUIRED SPECIAL INSPECTIONS AND TESTS OF CONCRETE CONSTRUCTION (2014 OSSC TABLE 1705.3)

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REFERENCED STANDARD	OSSC REFERENCE
1. INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS, AND PLACEMENT.	-	X	ACI 318: CH. 20, 25.2, 25.3, 26.5.1-26.5.3	1908.4
2. REINFORCING BAR WELDING:				
a. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706.	-	X	AWS D1.4 ACI 318: 26.5.4	-
b. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16".	-	X		
c. INSPECT ALL OTHER WELDS.	X	-		
3. INSPECT ANCHORS CAST IN CONCRETE.	-	X	ACI 318: 17.8.2	-
4. INSPECTION OF ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS[a].				
a. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS.	X	-	ACI 318: 17.8.2.4	-
b. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4.a.	-	X	ACI 318: 17.8.2	-
5. VERIFY USE OF REQUIRED MIX DESIGN.	-	X	ACI 318: CH.19, 26.4.3, 26.4.4	1904.1, 1904.2, 1908.2, 1908.3
6. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	X	-	ASTM C172, ASTM C31, ACI 318: 26.4.5, 26.12	1908.10
7. INSPECTION OF CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	X	-	ACI 318: 26.4.5	1908.6, 1908.7, 1908.8
8. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	-	X	ACI 318: 26.4.7-26.4.9	1908.0
9. INSPECT FORMWORK FOR SHAPE LOCATION, AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	-	X	ACI 318: 26.10.1(b)	-

a. WHERE APPLICABLE, SEE ALSO SECTION 1705.12 (SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE).
b. SPECIFIC REQUIREMENTS FOR SPECIAL INSPECTION SHALL BE INCLUDED IN THE RESEARCH REPORT FOR THE ANCHOR ISSUED BY AN APPROVED SOURCE IN ACCORDANCE WITH ACI 318-14 SECTION 17.8.2, OR OTHER QUALIFICATION PROCEDURES. WHERE SPECIFIC REQUIREMENTS ARE NOT PROVIDED, SPECIAL INSPECTION REQUIREMENTS SHALL BE SPECIFIED BY THE REGISTERED DESIGN PROFESSIONAL AND SHALL BE APPROVED BY THE BUILDING OFFICIAL PRIOR TO THE COMMENCEMENT OF THE WORK. SPECIAL INSPECTIONS FOR EPOXY ADHESIVE ANCHORS SHALL BE CONTINUOUS UNLESS NOTED OTHERWISE.

2 S-004 **MINIMUM TEST AND SPECIAL INSPECTIONS OF CONCRETE CONSTRUCTION** N.T.S.

STATEMENT OF SPECIAL INSPECTIONS

1. SPECIAL INSPECTIONS AND TESTS SHALL BE PERFORMED BY AN INDEPENDENT QUALIFIED INSPECTION AND/OR TESTING AGENCY APPROVED BY THE JURISDICTION FOR SUCH WORK.AND IN ACCORDANCE WITH CHAPTER 17 OF THE CODE. THESE SPECIAL INSPECTIONS AND TESTS ARE IN ADDITION TO THE INSPECTIONS PERFORMED BY THE BUILDING OFFICIAL.
2. THE OWNER SHALL BE RESPONSIBLE FOR RETAINING THE SPECIAL INSPECTION AND/OR TESTING AGENCY.
3. THE SPECIAL INSPECTION AND/OR TESTING AGENCY SHALL KEEP RECORDS AND SUBMIT SPECIAL INSPECTION AND TEST REPORTS TO THE BUILDING OFFICIAL AND THE STRUCTURAL ENGINEER OF RECORD IN ACCORDANCE WITH SECTIONS 1704.2.4 AND 1704.5 OF THE CODE AND JURISDICTION-SPECIFIC REQUIREMENTS.
4. THE CONTRACTOR SHALL NOTIFY THE TESTING LAB A MINIMUM OF 48 HOURS PRIOR TO TIME OF INSPECTION.
5. THE CONSTRUCTION OR WORK FOR WHICH SPECIAL INSPECTION OR TESTING IS REQUIRED SHALL REMAIN ACCESSIBLE AND EXPOSED FOR SPECIAL INSPECTION OR TESTING PURPOSES UNTIL COMPLETION OF THE REQUIRED SPECIAL INSPECTIONS OR TESTS.
6. IF INITIAL TESTS OR INSPECTIONS MADE BY THE OWNER'S TESTING OR INSPECTION AGENCY REVEAL THAT ANY PORTION OF THE WORK DOES NOT COMPLY WITH THE CONTRACT DOCUMENTS, ADDITIONAL TESTS, INSPECTIONS, AND NECESSARY REPAIRS SHALL BE MADE AT THE CONTRACTOR'S EXPENSE. CONTRACTOR SHALL NOTIFY THE ENGINEER AND OWNER IMMEDIATELY OF NON-CONFORMING WORK. THIS NOTIFICATION SHALL SPECIFICALLY ADDRESS THE NON-CONFORMING WORK AND SHALL BE SEPARATE FROM THE SPECIAL INSPECTION REPORTS.
7. SPECIAL INSPECTION REPORTS SHALL BE SENT TO THE ENGINEER AT THE TIME OF COMPLETION FOR REVIEW OF CONFORMANCE WITH THE REQUIREMENTS OF THE STRUCTURAL DRAWINGS.
8. SPECIAL INSPECTIONS AND TESTS FOR SEISMIC RESISTANCE SHALL BE PERFORMED FOR THE DESIGNATED SEISMIC SYSTEM/SEISMIC FORCE RESISTING COMPONENT WHEN APPLICABLE AND AS PER SECTIONS 1705.12 & 1705.13 OF THE CODE.
   a. DESIGNATED SEISMIC SYSTEM/SEISMIC FORCE RESISTING SYSTEM: N/A
      SEE THE ABOVE-REFERENCED CODE SECTIONS FOR ADDITIONAL SPECIAL INSPECTION AND TEST REQUIREMENTS FOR STRUCTURAL STEEL, STRUCTURAL WOOD, COLD-FORMED STEEL LIGHT-FRAME CONSTRUCTION, DESIGNATED SEISMIC SYSTEMS, ARCHITECTURAL COMPONENTS, MEP COMPONENTS, STORAGE RACKS, SEISMIC ISOLATIONS SYSTEMS, AND COLD-FORMED STEEL SPECIAL BOLTED MOMENT FRAMES.
9. SPECIAL INSPECTIONS FOR WIND RESISTANCE SHALL BE PERFORMED FOR THE MAIN WIND FORCE RESISTING SYSTEM AND WIND RESISTING COMPONENTS WHEN APPLICABLE AND AS PER SECTION 1705.11 OF THE CODE.
   a. MAIN WIND FORCE RESISTING SYSTEM/WIND RESISTING COMPONENT: N/A
      SEE THE ABOVE-REFERENCED CODE SECTIONS FOR ADDITIONAL SPECIAL INSPECTION REQUIREMENTS FOR STRUCTURAL WOOD, COLD-FORMED STEEL LIGHT-FRAME CONSTRUCTION, AND WIND-RESISTING COMPONENTS.
10. EACH CONTRACTOR RESPONSIBLE FOR THE CONSTRUCTION OF A MAIN WIND OR SEISMIC FORCE RESISTING SYSTEM, DESIGNATED SEISMIC SYSTEM, OR A WIND OR SEISMIC RESISTING COMPONENT LISTED ABOVE SHALL SUBMIT A WRITTEN STATEMENT OF RESPONSIBILITY TO THE BUILDING OFFICIAL AND THE OWNER PRIOR TO THE COMMENCEMENT OF WORK ON THE SYSTEM OR COMPONENT. THE CONTRACTOR'S STATEMENT OF RESPONSIBILITY SHALL CONTAIN ACKNOWLEDGMENT OF AWARENESS OF THE SPECIAL REQUIREMENTS CONTAINED IN THIS STATEMENT OF SPECIAL INSPECTIONS.
11. STEEL CONSTRUCTION: SPECIAL INSPECTIONS FOR STEEL ELEMENTS OF BUILDINGS AND STRUCTURES SHALL BE AS REQUIRED BY SECTION 1705.2 OF THE CODE AND IN ACCORDANCE WITH THE QUALITY ASSURANCE INSPECTION REQUIREMENTS OF AISC 360-10, INCLUDING THE SPECIAL INSPECTION TABLE SHOWN HEREIN. SEE ALSO REQUIREMENTS NOTED FOR SEISMIC AND WIND RESISTANCE OF INSPECTION NOTES #8 AND #9.
12. CONCRETE CONSTRUCTION: SPECIAL INSPECTIONS AND VERIFICATIONS FOR CONCRETE CONSTRUCTION SHALL BE AS REQUIRED BY SECTION 1705.3 OF THE CODE, INCLUDING THE SPECIAL INSPECTION TABLE SHOWN HEREIN.
    CONCRETE SPECIAL INSPECTIONS AND TESTS ARE NOT REQUIRED FOR:
    a. ISOLATED SPREAD FOOTINGS OF BUILDINGS 3 STORIES OR LESS ABOVE GRADE PLANE THAT ARE FULLY SUPPORTED ON EARTH OR ROCK.
    b. NONSTRUCTURAL CONCRETE SLABS SUPPORTED DIRECTLY ON THE GROUND, INCLUDING PRESTRESSED SLABS ON GRADE WHERE THE EFFECTIVE PRESTRESS IN THE CONCRETE IS LESS THAN 150 PSI.
    c. CONCRETE PATIOS, DRIVEWAYS AND SIDEWALKS, ON GRADE.
13. MASONRY CONSTRUCTION: SPECIAL INSPECTIONS AND VERIFICATIONS FOR MASONRY CONSTRUCTION SHALL BE AS REQUIRED BY SECTION 1705.4 OF THE CODE AND IN ACCORDANCE WITH TMS 402/ACI 530/ASCE 5 AND TMS 602/ACI 530.1/ASCE 6 QUALITY ASSURANCE REQUIREMENTS, INCLUDING THE SPECIAL INSPECTION TABLES SHOWN HEREIN.
14. WOOD CONSTRUCTION: SPECIAL INSPECTIONS FOR WOOD CONSTRUCTION SHALL BE AS REQUIRED BY SECTION 1705.5 OF THE CODE. SEE ALSO REQUIREMENTS NOTED FOR SEISMIC AND WIND RESISTANCE OF INSPECTION NOTES #8 AND #9.
15. SOILS: SPECIAL INSPECTIONS FOR EXISTING SOIL CONDITIONS, FILL PLACEMENT, AND LOAD BEARING REQUIREMENTS SHALL BE AS REQUIRED BY SECTIONS 1705.6 THROUGH 1705.9 OF THE CODE, INCLUDING THE SPECIAL INSPECTION TABLES SHOWN HEREIN.

1 S-004 **STATEMENT OF SPECIAL INSPECTIONS** N.T.S.

12/1/2020 6:59:48 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.

BEAVERTON SCHOOL DISTRICT

Cooper Mtn SRGP

7670 SW 170th Ave
Beaverton, OR 97007

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

Consultants:

Holmes
Holmes Structures
555 SE MLK Jr Blvd. Suite 602
Portland, OR 97214 USA
t 503.672.0323 holmesstructures.com

COOPER MOUNTAIN ELEMENTARY SCHOOL
SEISMIC SRGP IMPROVEMENTS

PERMIT/BID SET

STRUCTURAL REGISTERED PROFESSIONAL ENGINEER OREGON JASON B. JESS EXPIRES: 12/31/2021

EXP. 12/31/2021

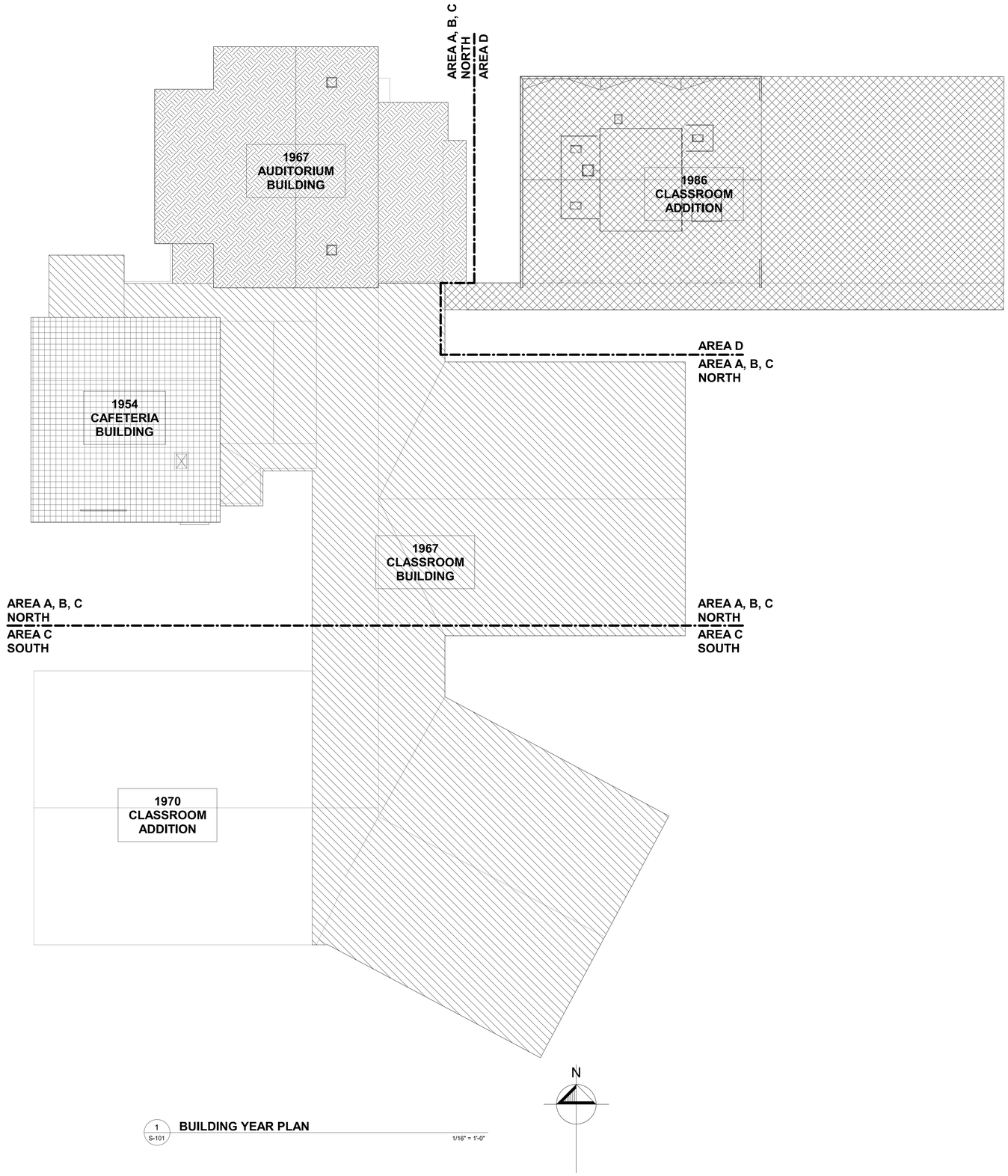
Date: 12-04-2020
Project Number: 20138.10
Drawn By: IK
Checked By: JE

Revision Schedule:

Sheet Title:
SPECIAL INSPECTIONS

Sheet Number:
S-004

PERMIT/BID SET



1 S-101 **BUILDING YEAR PLAN**

1/16" = 1'-0"

12/1/2020 6:59:48 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.

BEAVERTON SCHOOL DISTRICT

Cooper Mtn SRGP

7670 SW 170th Ave
Beaverton, OR 97007

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

Consultants:

Holmes Structures
555 SE MLK Jr Blvd. Suite 602
Portland, OR 97214 USA
t 503.672.1323 holmesstr.stu-ec.com

COOPER MOUNTAIN ELEMENTARY SCHOOL
SEISMIC SRGP IMPROVEMENTS

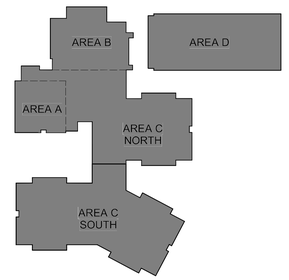
PERMIT/BID SET

STRUCTURAL REGISTERED PROFESSIONAL ENGINEER OREGON MARCH 11, 2014 JENNIFER B. EDGES
EXP. 12/31/2021

Date:	12-04-2020
Project Number:	20138.10
Drawn By:	IK
Checked By:	JE

Revision Schedule:

KEY PLAN



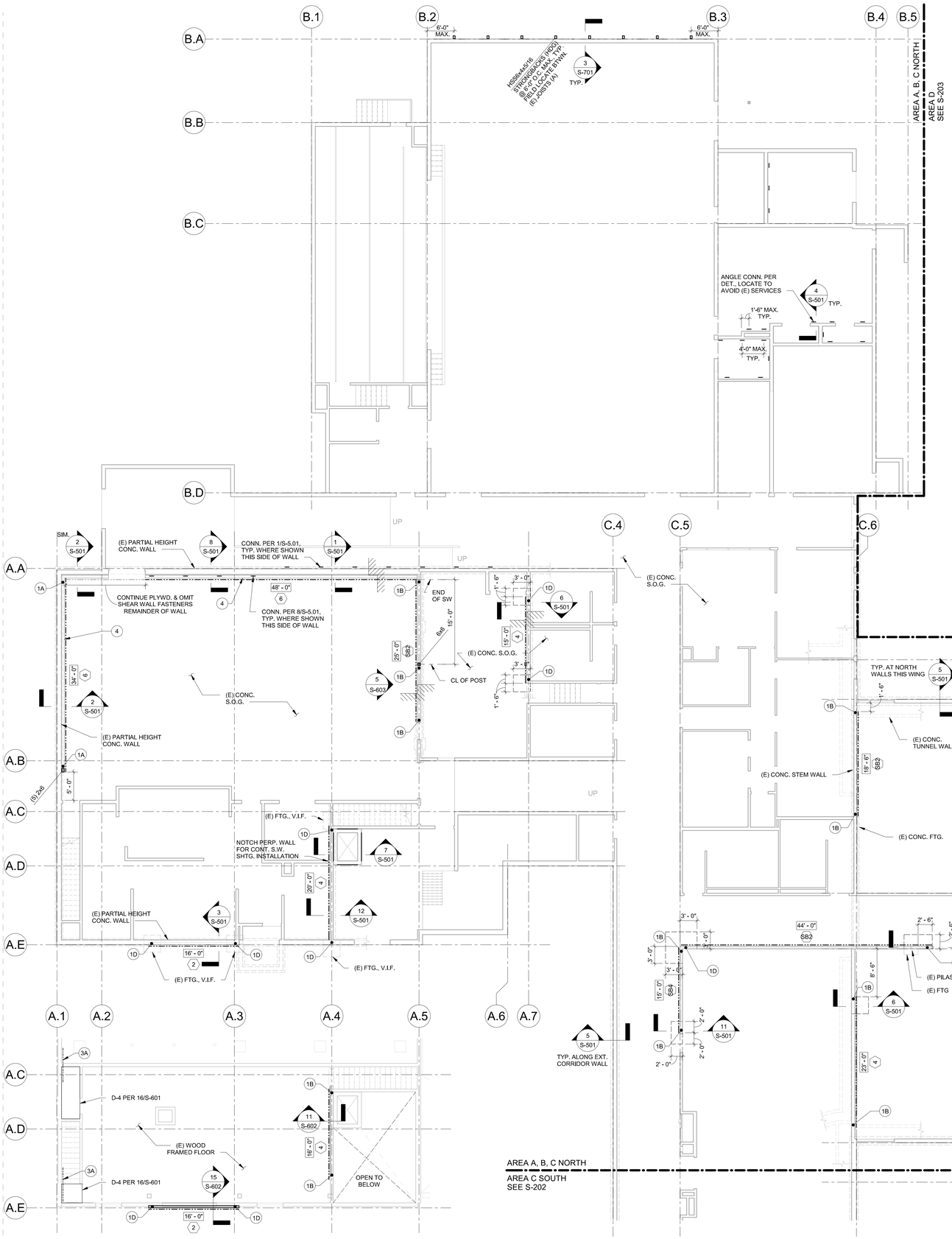
Sheet Title:

BUILDING YEAR PLAN

Sheet Number:

S-101

PERMIT/BID SET



2 S-201 **SECOND FLOOR PLAN - AREA A** 1/8" = 1'-0"

1 S-201 **FIRST FLOOR PLAN - AREA A, B, C NORTH** 1/8" = 1'-0"

SHEET NOTES:

1. SEE ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS AND INFORMATION NOT SHOWN.
2. SEE MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR RELATED NON-STRUCTURAL ELEMENTS EMBEDDED OR CONNECTED TO THE STRUCTURE.
3. FIELD VERIFY ALL EXISTING STRUCTURAL CONDITIONS.
4. FIELD VERIFY ALL FINISHES AND SERVICES TO BE RELOCATED OR REPLACED FOR CONSTRUCTION.
5. REFER TO ARCHITECTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR NON-STRUCTURAL ITEMS REQUIRING RETROFIT.
6. (x) INDICATES SHEAR WALL, SEE LEGEND BELOW FOR SHEAR WALL SCHEDULE INFORMATION.

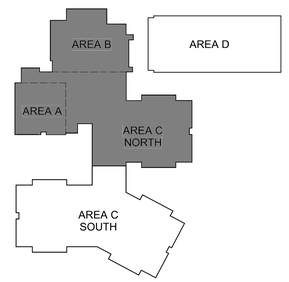
KEY NOTES:

1. HOLDOWN REQUIRED AT EA. END OF SHEAR WALL, HOLDOWN POST TO RECEIVE EDGE NAIL. PROVIDE SISTERED STUDS OR (N) TO MEET MIN. POST SIZE PER SCHEDULE, U.O.N. PER PLAN
   - 1A. HDU2 W/ 4X4 POST
   - 1B. HDU5 W/ 4X4 POST
   - 1C. HDU8 W/ 4X4 POST
   - 1D. HDU11 W/ 4X6 POST
   - 1E. HDU14 W/ 4X6 POST
2. BOLT (E) WOOD POST TO (E) FOUNDATION AND PROVIDE BRACING WHERE NOT PROVIDED. ACCESS TO AREA IS LIMITED, REMOVE FLOORING AS REQUIRED.
3. SIMPSON STRAP, BLOCK UNDER STRAPS WHERE NO FRAMING MEMBER EXISTS
   - 3A. CMST14 W/ (33) 10d NAILS, 30" MIN. LENGTH
   - 3B. LMST
4. (N) FULL HEIGHT STUD WALL W/ (2) 2x6 @ 16" O.C., FASTEN TO PARTIAL HEIGHT CONCRETE WALL BEHIND.
9. EXISTING SCREEN WALLS TO REMAIN, REPLACE IN KIND AFTER ROOF RETROFIT

LEGEND:

- (E) CONC. WALL
- (E) CMU WALL
- (E) STUD WALL
- (E) WALL (B)
- (N) STUD WALL
- (N) WALL (B)
- (N) 1/2" CDX PLYWOOD SHTG. OVER (E) WOOD WALL, SEE 1 & 9/S-601
  - X-XX" MIN. LENGTH
  - X S.W. MARK
- SUREBOARD SHTG. OVER (E) WOOD WALL, SEE 1 & 5/S-601
  - X-XX" MIN. LENGTH
  - 6BX S.W. MARK
- (E) WD. COLUMN
- (E) TS COLUMN
- (E) COLUMN (B)
- HSS COLUMN
- 1x HOLDOWN & POST AT SHEAR WALL END. EPOXY DOWEL AT (E) FOOTINGS PER KEY NOTE (1)
- 3X DIAPHRAGM STRAP, PER KEY NOTE (3)
- PLYWOOD
- (N) 3'-0" SQ. x 18" THK. CONC. FOOTING
- (E) DIAPHRAGM STRENGTHENING

KEY PLAN



BEAVERTON SCHOOL DISTRICT

Cooper Mtn SRGP

7670 SW 170th Ave
Beaverton, OR 97007

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

Consultants:

Holmes
Holmes Structures
555 SE MLK Jr Blvd. Suite 602
Portland, OR 97214 USA
t 503.672.5323 holmesstructures.com

COOPER MOUNTAIN ELEMENTARY SCHOOL SEISMIC SRGP IMPROVEMENTS

PERMIT/BID SET

STRUCTURAL REGISTERED PROFESSIONAL ENGINEER OREGON JANUARY 11, 2011 JENNIFER B. GOLDEN

EXP. 12/31/2021

Date:	12-04-2020
Project Number:	20138.10
Drawn By:	IK
Checked By:	JE

Revision Schedule:

Sheet Title:

FLOOR PLAN - AREA A, B, C NORTH

Sheet Number:

S-201

PERMIT/BID SET

12/1/2020 6:59:50 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.

SHEET NOTES:

1. SEE ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS AND INFORMATION NOT SHOWN.
2. SEE MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR RELATED NON-STRUCTURAL ELEMENTS EMBEDDED OR CONNECTED TO THE STRUCTURE.
3. FIELD VERIFY ALL EXISTING STRUCTURAL CONDITIONS.
4. FIELD VERIFY ALL FINISHES AND SERVICES TO BE RELOCATED OR REPLACED FOR CONSTRUCTION.
5. REFER TO ARCHITECTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR NON-STRUCTURAL ITEMS REQUIRING RETROFIT.
6. (x) INDICATES SHEAR WALL, SEE LEGEND BELOW FOR SHEAR WALL SCHEDULE INFORMATION.

KEY NOTES:

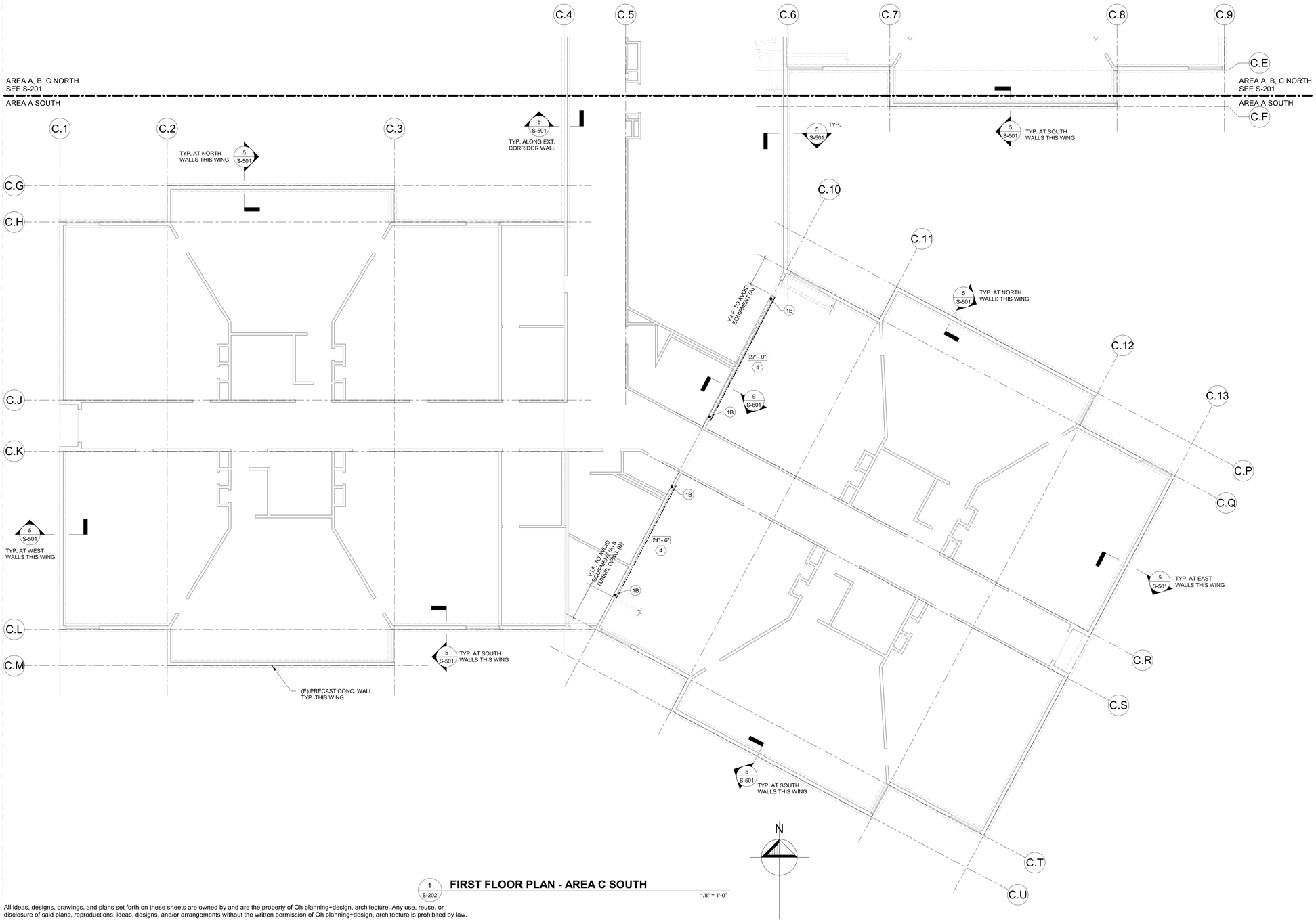
(1) HOLDOWN REQUIRED AT EA. END OF SHEAR WALL, HOLDOWN POST TO RECEIVE EDGE NAIL. PROVIDE SISTERED STUDS OR (N) TO MEET MIN. POST SIZE PER SCHEDULE, U.O.N. PER PLAN
- (1A) HDU2 W/ 4X4 POST
- (1B) HDU5 W/ 4X4 POST
- (1C) HDU8 W/ 4X4 POST
- (1D) HDU11 W/ 4X6 POST
- (1E) HDU14 W/ 4X6 POST

(2) BOLT (E) WOOD POST TO (E) FOUNDATION AND PROVIDE BRACING WHERE NOT PROVIDED. ACCESS TO AREA IS LIMITED, REMOVE FLOORING AS REQUIRED.

(3) SIMPSON STRAP, BLOCK UNDER STRAPS WHERE NO FRAMING MEMBER EXISTS
- (3A) CMST14 W/ (33) 10d NAILS, 30" MIN. LENGTH
- (3B) LMST

(4) (N) FULL HEIGHT STUD WALL W/ (2) 2x6 @ 16" O.C., FASTEN TO PARTIAL HEIGHT CONCRETE WALL BEHIND.

(9) EXISTING SCREEN WALLS TO REMAIN, REPLACE IN KIND AFTER ROOF RETROFIT



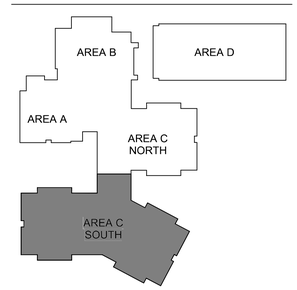
1 S-202 **FIRST FLOOR PLAN - AREA C SOUTH**

1/8" = 1'-0"

LEGEND:

- (E) CONC. WALL
- (E) CMU WALL
- (E) STUD WALL
- (E) WALL (B)
- (N) STUD WALL
- (N) WALL (B)
- (N) 1/2" CDX PLYWOOD SHTG. OVER (E) WOOD WALL, SEE 1 & 9/S-601
  - SW — S.W. MARK
  - X'-XX" — MIN. LENGTH
- SUREBOARD SHTG. OVER (E) WOOD WALL, SEE 1 & 5/S-601
  - SBSW — S.W. MARK
  - X'-XX" — MIN. LENGTH
- (E) WD. COLUMN
- (E) TS COLUMN
- (E) COLUMN (B)
- HSS COLUMN
- 1x — HOLDOWN & POST AT SHEAR WALL END, EPOXY DOWEL AT (E) FOOTINGS PER KEY NOTE (1)
- X — WALL TO DIAPHRAGM CONN. PER KEY NOTE (X)
- PLYWOOD
- (N) 3'-0" SQ. x 18" THK. CONC. FOOTING
- (N) D-2 PER 16/S-601 STRENGTHENING AT (E) DIAPHRAGM
- SIMP. STRAP

KEY PLAN



BEAVERTON SCHOOL DISTRICT

Cooper Mtn SRGP

7670 SW 170th Ave
Beaverton, OR 97007

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

Consultants:

Holmes Structures
555 SE MLK Jr Blvd. Suite 602
Portland, OR 97214 USA
t 503.672.5323 holmesstructures.com

COOPER MOUNTAIN ELEMENTARY SCHOOL
SEISMIC SRGP IMPROVEMENTS

PERMIT/BID SET

STRUCTURAL REGISTERED PROFESSIONAL ENGINEER — OREGON — JANUARY 11, 2013 — JONATHAN B. ERICKS — EXP. 12/31/2021

Date: 12-04-2020
Project Number: 20138.10
Drawn By: IK
Checked By: JE

Revision Schedule:

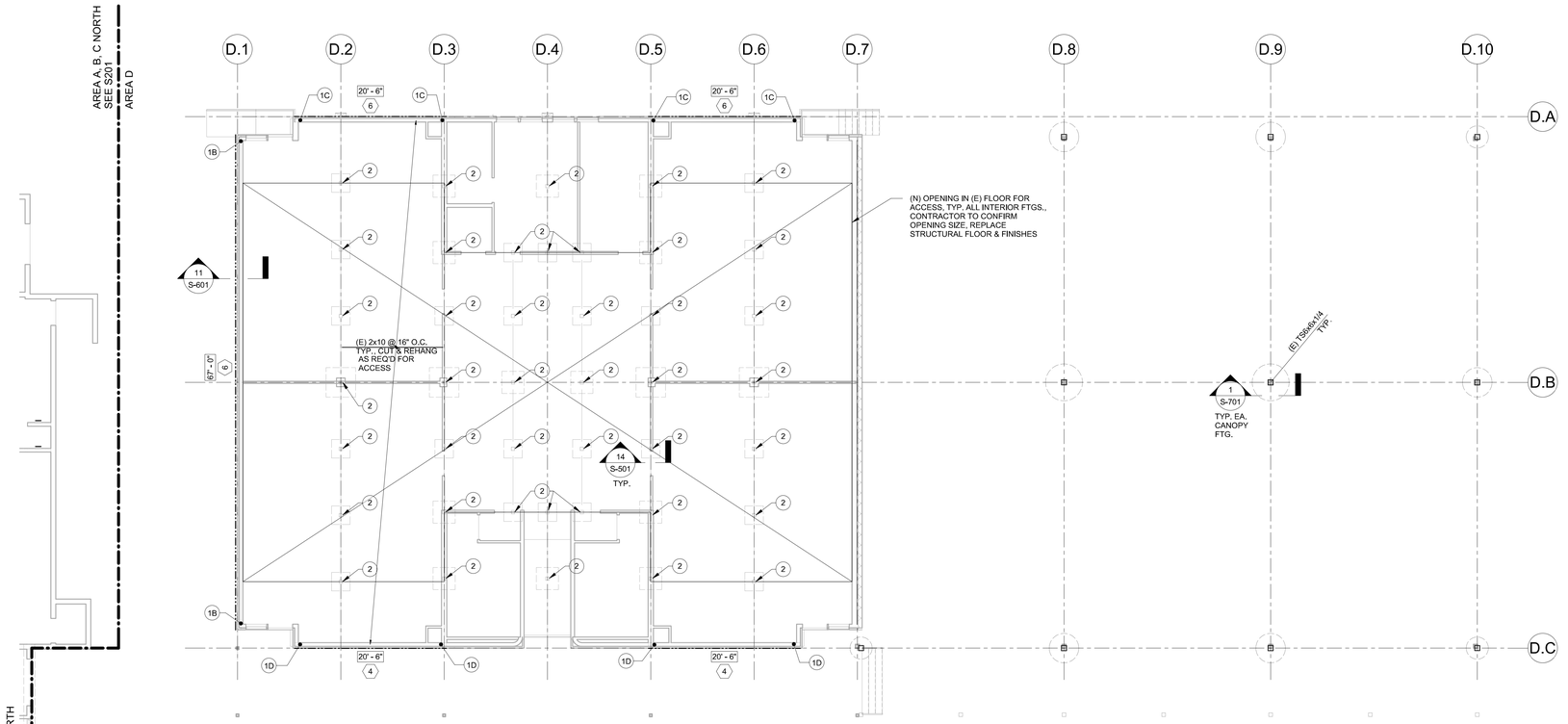
Sheet Title:
FLOOR PLAN - AREA C SOUTH

Sheet Number:
S-202

PERMIT/BID SET

12/1/2020 6:59:51 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.



SHEET NOTES:

1. SEE ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS AND INFORMATION NOT SHOWN.
2. SEE MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR RELATED NON-STRUCTURAL ELEMENTS EMBEDDED OR CONNECTED TO THE STRUCTURE.
3. FIELD VERIFY ALL EXISTING STRUCTURAL CONDITIONS.
4. FIELD VERIFY ALL FINISHES AND SERVICES TO BE RELOCATED OR REPLACED FOR CONSTRUCTION.
5. REFER TO ARCHITECTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR NON-STRUCTURAL ITEMS REQUIRING RETROFIT.
6. (x) INDICATES SHEAR WALL, SEE LEGEND BELOW FOR SHEAR WALL SCHEDULE INFORMATION.

KEY NOTES:

1. HOLDOWN REQUIRED AT EA. END OF SHEAR WALL, HOLDOWN POST TO RECEIVE EDGE NAIL. PROVIDE SISTERED STUDS OR (N) TO MEET MIN. POST SIZE PER SCHEDULE, U.O.N. PER PLAN
   - 1A HDU2 W/ 4X4 POST
   - 1B HDU5 W/ 4X4 POST
   - 1C HDU8 W/ 4X4 POST
   - 1D HDU11 W/ 4X6 POST
   - 1E HDU14 W/ 4X6 POST
2. BOLT (E) WOOD POST TO (E) FOUNDATION AND PROVIDE BRACING WHERE NOT PROVIDED. ACCESS TO AREA IS LIMITED, REMOVE FLOORING AS REQUIRED.
3. SIMPSON STRAP, BLOCK UNDER STRAPS WHERE NO FRAMING MEMBER EXISTS
   - 3A CMST14 W/ (33) 10d NAILS, 30" MIN. LENGTH
   - 3B LMST
4. (N) FULL HEIGHT STUD WALL W/ (2) 2x6 @ 16" O.C., FASTEN TO PARTIAL HEIGHT CONCRETE WALL BEHIND.
9. EXISTING SCREEN WALLS TO REMAIN, REPLACE IN KIND AFTER ROOF RETROFIT

LEGEND:

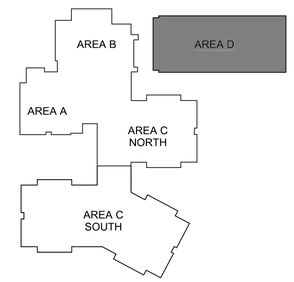
- (E) CONC. WALL
- (E) CMU WALL
- (E) STUD WALL
- (E) WALL (B)
- (N) STUD WALL
- (N) WALL (B)
- (N) 1/2" CDX PLYWOOD SHTG. OVER (E) WOOD WALL, SEE 1 & 9/S-601
  - SW S.W. MARK
  - X'-XX" MIN. LENGTH
- SUREBOARD SHTG. OVER (E) WOOD WALL, SEE 1 & 5/S-601
  - SBSW S.W. MARK
  - X'-XX" MIN. LENGTH
- (E) WD. COLUMN
- (E) TS COLUMN
- (E) COLUMN (B)
- HSS HSS COLUMN
- 1x HOLDOWN & POST AT SHEAR WALL END, EPOXY DOWEL AT (E) FOOTINGS PER KEY NOTE 1
- X WALL TO DIAPHRAGM CONN. PER KEY NOTE X
- PLYWOOD
- (N) 3'-0" SQ. x 18" THK. CONC. FOOTING
- (N) D-2 PER 16/S-601 STRENGTHENING AT (E) DIAPHRAGM
- SIMP. STRAP

1 S-203 **FLOOR PLAN - AREA D**

1/8" = 1'-0"

N

KEY PLAN



BEAVERTON SCHOOL DISTRICT

Cooper Mtn SRGP

7670 SW 170th Ave
Beaverton, OR 97007

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

Consultants:

Holmes
Holmes Structures
555 SE MLK Jr Blvd. Suite 602
Portland, OR 97214 USA
t 503.675.1323 holmesstructures.com

COOPER MOUNTAIN ELEMENTARY SCHOOL
SEISMIC SRGP IMPROVEMENTS

PERMIT/BID SET

STRUCTURAL REGISTERED PROFESSIONAL ENGINEER OREGON MARCH 11, 2014 JENNIFER B. EDGERS
EXP. 12/31/2021

Date:	12-04-2020
Project Number:	20138.10
Drawn By:	IK
Checked By:	JE

Revision Schedule:

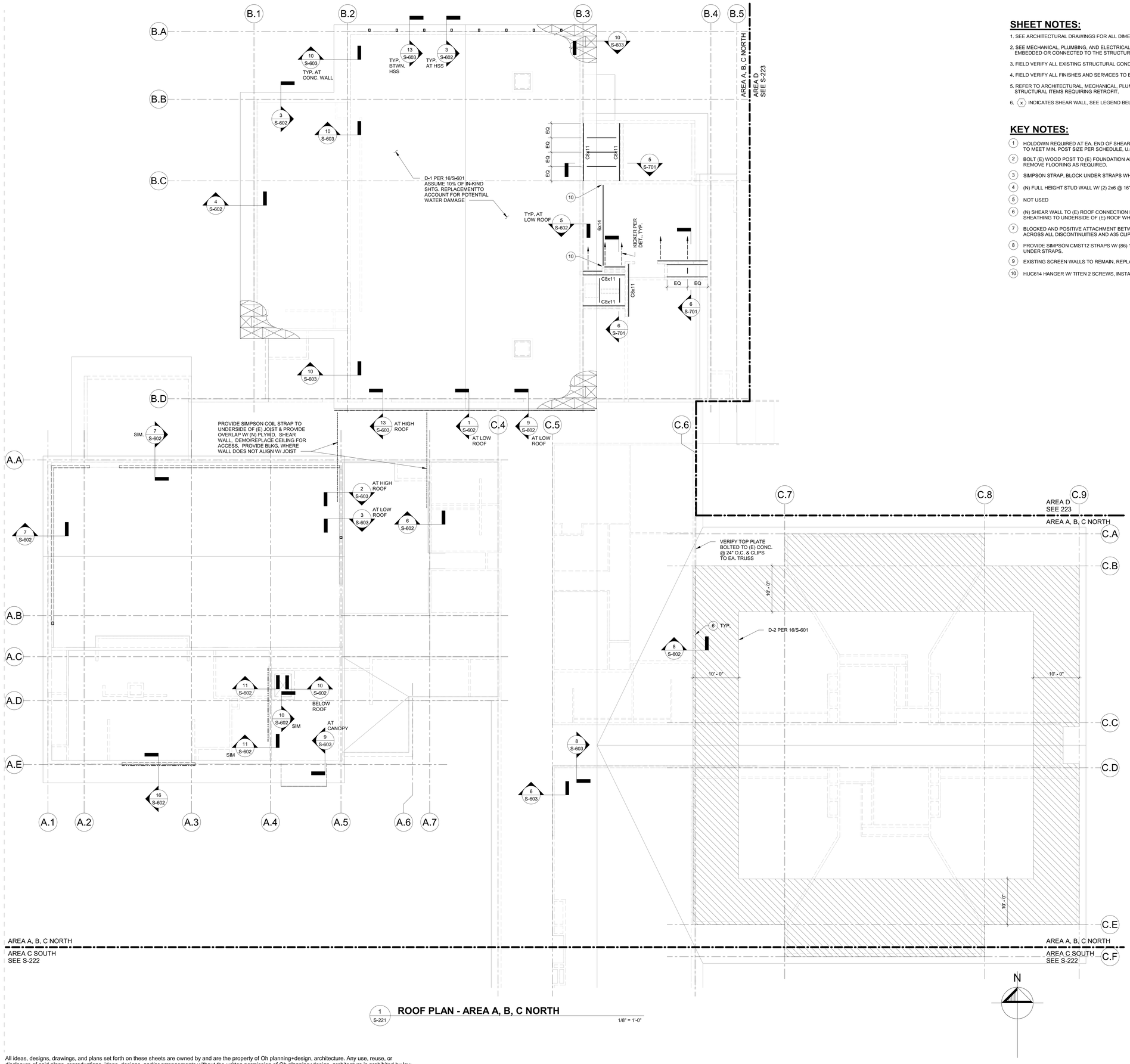
Sheet Title:
FLOOR PLAN - AREA D

Sheet Number:
S-203

PERMIT/BID SET

12/1/2020 6:59:53 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 S-221 **ROOF PLAN - AREA A, B, C NORTH**

1/8" = 1'-0"

SHEET NOTES:

1. SEE ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS AND INFORMATION NOT SHOWN.
2. SEE MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR RELATED NON-STRUCTURAL ELEMENTS EMBEDDED OR CONNECTED TO THE STRUCTURE.
3. FIELD VERIFY ALL EXISTING STRUCTURAL CONDITIONS.
4. FIELD VERIFY ALL FINISHES AND SERVICES TO BE RELOCATED OR REPLACED FOR CONSTRUCTION.
5. REFER TO ARCHITECTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR NON-STRUCTURAL ITEMS REQUIRING RETROFIT.
6. (X) INDICATES SHEAR WALL, SEE LEGEND BELOW FOR SHEAR WALL SCHEDULE INFORMATION.

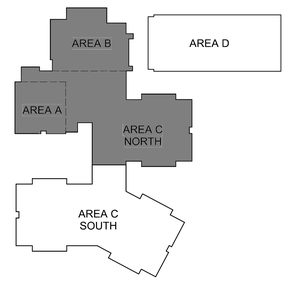
KEY NOTES:

1. HOLDOWN REQUIRED AT EA. END OF SHEAR WALL. HOLDOWN POST TO RECEIVE EDGE NAIL. PROVIDE SISTERED STUDS OR (N) TO MEET MIN. POST SIZE PER SCHEDULE, U.O.N. PER PLAN
2. BOLT (E) WOOD POST TO (E) FOUNDATION AND PROVIDE BRACING WHERE NOT PROVIDED. ACCESS TO AREA IS LIMITED, REMOVE FLOORING AS REQUIRED.
3. SIMPSON STRAP, BLOCK UNDER STRAPS WHERE NO FRAMING MEMBER EXISTS
4. (N) FULL HEIGHT STUD WALL W/ (2) 2x6 @ 16" O.C., FASTEN TO PARTIAL HEIGHT CONCRETE WALL BEHIND.
5. NOT USED
6. (N) SHEAR WALL TO (E) ROOF CONNECTION FROM BELOW. CUT (E) RAFTER NON-LOAD-BEARING TAILS TO ALLOW FOR CONT. SHEATHING TO UNDERSIDE OF (E) ROOF WHERE OCCURS.
7. BLOCKED AND POSITIVE ATTACHMENT BETWEEN STACKED ROOF MEMBERS. INCLUDE CMST14 STRAPPING W/ (66) 10d NAILS ACROSS ALL DISCONTINUITIES AND A35 CLIPS TO UNDERSIDE OF (E) SHEATHING.
8. PROVIDE SIMPSON CMST12 STRAPS W/ (86) 16d NAILS AT ALL DIAPHRAGM DISCONTINUITIES (MODULE BOUNDARIES). BLOCK UNDER STRAPS.
9. EXISTING SCREEN WALLS TO REMAIN, REPLACE IN KIND AFTER ROOF RETROFIT
10. HUC614 HANGER W/ TITEN 2 SCREWS, INSTALL PER MANUFACTURER'S RECOMMENDATIONS

LEGEND:

- (E) CONC. WALL
- (E) CMU WALL
- (E) STUD WALL
- (E) WALL (B)
- (N) STUD WALL
- (N) WALL (B)
- (N) 1/2" CDX PLYWOOD SHTG. OVER (E) WOOD WALL, SEE 1 & 9/S-601
  - SW — S.W. MARK
  - X'-XX" — MIN. LENGTH
- SUREBOARD SHTG. OVER (E) WOOD WALL, SEE 1 & 5/S-601
  - SBSW — S.W. MARK
  - X'-XX" — MIN. LENGTH
- (E) WD. COLUMN
- (E) TS COLUMN
- (E) COLUMN (B)
- HSS COLUMN
- 1x — HOLDOWN & POST AT SHEAR WALL END, EPOXY DOWEL AT (E) FOOTINGS PER KEY NOTE 1
- X — WALL TO DIAPHRAGM CONN. PER KEY NOTE X
- PLYWOOD
- (N) 3'-0" SQ. x 18" THK. CONC. FOOTING
- (N) D-2 PER 16/S-601 STRENGTHENING AT (E) DIAPHRAGM
- SIMP. STRAP

KEY PLAN



BEAVERTON SCHOOL DISTRICT

Cooper Mtn SRGP

7670 SW 170th Ave
Beaverton, OR 97007

OHPLANNING+DESIGN, ARCHITECTURE
115 NW 1st Ave, Ste. 300
Portland, OR 97209

Consultants:

Holmes Structures
555 SE MLK Jr Blvd. Suite 602
Portland, OR 97214 USA
t 503.672.5323 holmesstructures.com

COOPER MOUNTAIN ELEMENTARY SCHOOL
SEISMIC SRGP IMPROVEMENTS

PERMIT/BID SET

STRUCTURAL REGISTERED PROFESSIONAL ENGINEER OREGON MARCH 11, 2014 JENNIFER B. GOLDS
EXP. 12/31/2021

Date:	12-04-2020
Project Number:	20138.10
Drawn By:	IK
Checked By:	JE

Revision Schedule:

Sheet Title:
ROOF PLAN - AREA A, B, C NORTH

Sheet Number:
S-221

PERMIT/BID SET

12/1/2020 6:59:54 PM

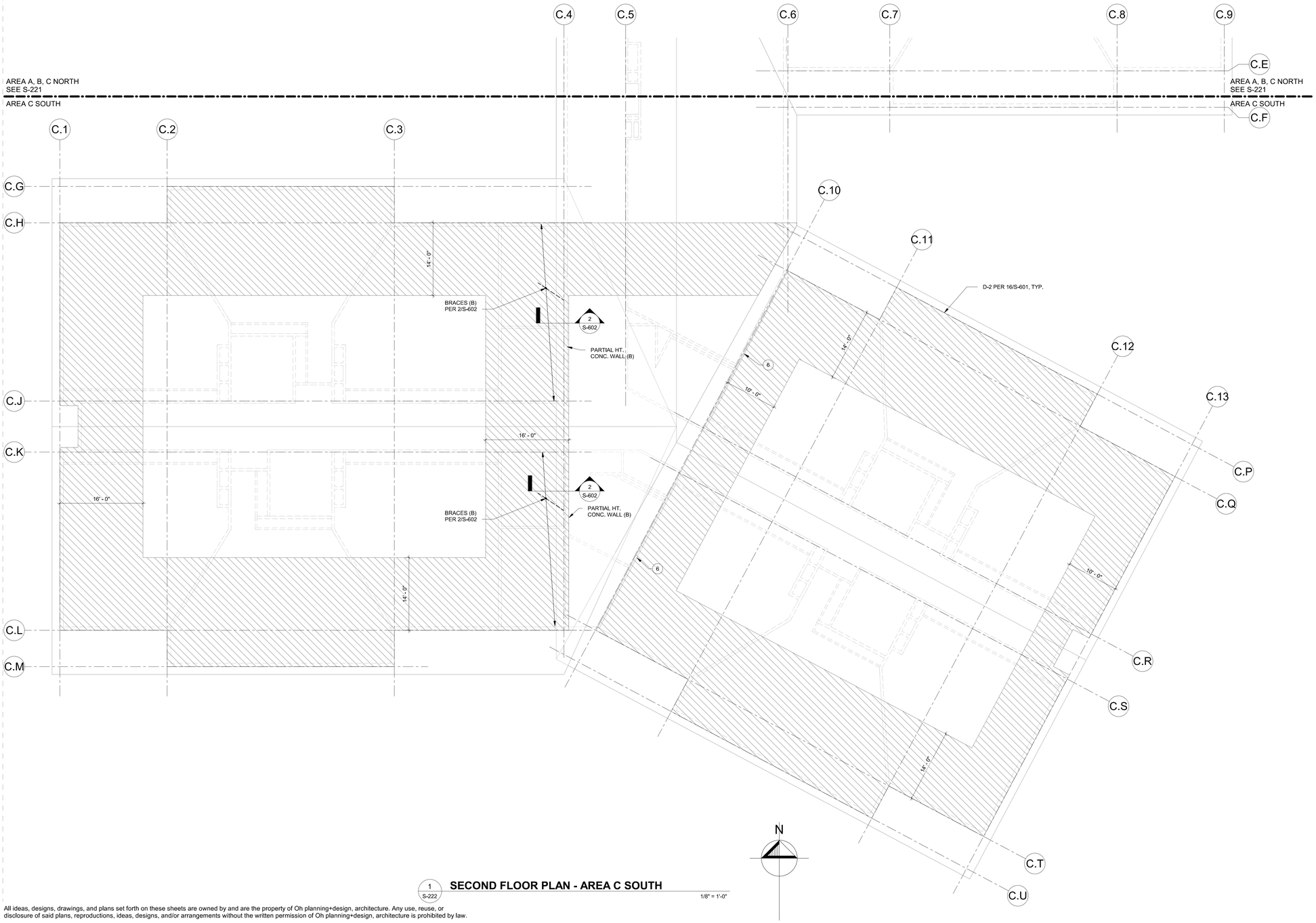
All ideas, designs, drawings, and plans set forth on these sheets are owned by and are the property of Oh planning+design, architecture. Any use, reuse, or disclosure of said plans, reproductions, ideas, designs, and/or arrangements without the written permission of Oh planning+design, architecture is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

SHEET NOTES:

1. SEE ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS AND INFORMATION NOT SHOWN.
2. SEE MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR RELATED NON-STRUCTURAL ELEMENTS EMBEDDED OR CONNECTED TO THE STRUCTURE.
3. FIELD VERIFY ALL EXISTING STRUCTURAL CONDITIONS.
4. FIELD VERIFY ALL FINISHES AND SERVICES TO BE RELOCATED OR REPLACED FOR CONSTRUCTION.
5. REFER TO ARCHITECTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR NON-STRUCTURAL ITEMS REQUIRING RETROFIT.
6. (x) INDICATES SHEAR WALL, SEE LEGEND BELOW FOR SHEAR WALL SCHEDULE INFORMATION.

KEY NOTES:

1. HOLDOWN REQUIRED AT EA. END OF SHEAR WALL. HOLDOWN POST TO RECEIVE EDGE NAIL. PROVIDE SISTERED STUDS OR (N) TO MEET MIN. POST SIZE PER SCHEDULE, U.O.N. PER PLAN
2. BOLT (E) WOOD POST TO (E) FOUNDATION AND PROVIDE BRACING WHERE NOT PROVIDED. ACCESS TO AREA IS LIMITED, REMOVE FLOORING AS REQUIRED.
3. SIMPSON STRAP, BLOCK UNDER STRAPS WHERE NO FRAMING MEMBER EXISTS
4. (N) FULL HEIGHT STUD WALL W/ (2) 2x6 @ 16" O.C., FASTEN TO PARTIAL HEIGHT CONCRETE WALL BEHIND.
5. NOT USED
6. (N) SHEAR WALL TO (E) ROOF CONNECTION FROM BELOW. CUT (E) RAFTER NON-LOAD-BEARING TAILS TO ALLOW FOR CONT. SHEATHING TO UNDERSIDE OF (E) ROOF WHERE OCCURS.
7. BLOCKED AND POSITIVE ATTACHMENT BETWEEN STACKED ROOF MEMBERS. INCLUDE CMST14 STRAPPING W/ (66) 10d NAILS ACROSS ALL DISCONTINUITIES AND A35 CLIPS TO UNDERSIDE OF (E) SHEATHING.
8. PROVIDE SIMPSON CMST12 STRAPS W/ (86) 16d NAILS AT ALL DIAPHRAGM DISCONTINUITIES (MODULE BOUNDARIES), BLOCK UNDER STRAPS.
9. EXISTING SCREEN WALLS TO REMAIN, REPLACE IN KIND AFTER ROOF RETROFIT
10. HUC614 HANGER W/ TITEN 2 SCREWS, INSTALL PER MANUFACTURER'S RECOMMENDATIONS



LEGEND:

- (E) CONC. WALL
- (E) CMU WALL
- (E) STUD WALL
- (E) WALL (B)
- (N) STUD WALL
- (N) WALL (B)
- (N) 1/2" CDX PLYWOOD SHTG. OVER (E) WOOD WALL, SEE 1 & 9/S-601
  - SW — S.W. MARK
  - X'-XX" — MIN. LENGTH
- SUREBOARD SHTG. OVER (E) WOOD WALL, SEE 1 & 5/S-601
  - SBSW — S.W. MARK
  - X'-XX" — MIN. LENGTH
- (E) WD. COLUMN
- (E) TS COLUMN
- (E) COLUMN (B)
- HSS — HSS COLUMN
- 1x — HOLDOWN & POST AT SHEAR WALL END, EPOXY DOWEL AT (E) FOOTINGS PER KEY NOTE (1)
- X — WALL TO DIAPHRAGM CONN. PER KEY NOTE (X)
- PLYWOOD
- (N) 3'-0" SQ. x 18" THK. CONC. FOOTING
- (N) D-2 PER 16/S-601 STRENGTHENING AT (E) DIAPHRAGM
- SIMP. STRAP

N

1 S-222 **SECOND FLOOR PLAN - AREA C SOUTH**

1/8" = 1'-0"

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.

12/1/2020 6:59:54 PM

BEAVERTON SCHOOL DISTRICT

Cooper Mtn SRGP

7670 SW 170th Ave
Beaverton, OR 97007

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

Consultants:

Holmes Structures
555 SE MLK Jr Blvd. Suite 602
Portland, OR 97214 USA
t 503.670.1323 holmesstructures.com

COOPER MOUNTAIN ELEMENTARY SCHOOL
SEISMIC SRGP IMPROVEMENTS

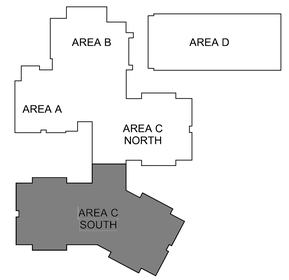
PERMIT/BID SET

STRUCTURAL — REGISTERED PROFESSIONAL ENGINEER — OREGON — JANUARY 11, 2014 — JENNIFER B. EDWARDS — EXP. 12/31/2021

Date:	12-04-2020
Project Number:	20138.10
Drawn By:	IK
Checked By:	JE

Revision Schedule:

KEY PLAN



Sheet Title:

ROOF PLAN - AREA C SOUTH

Sheet Number:

S-222

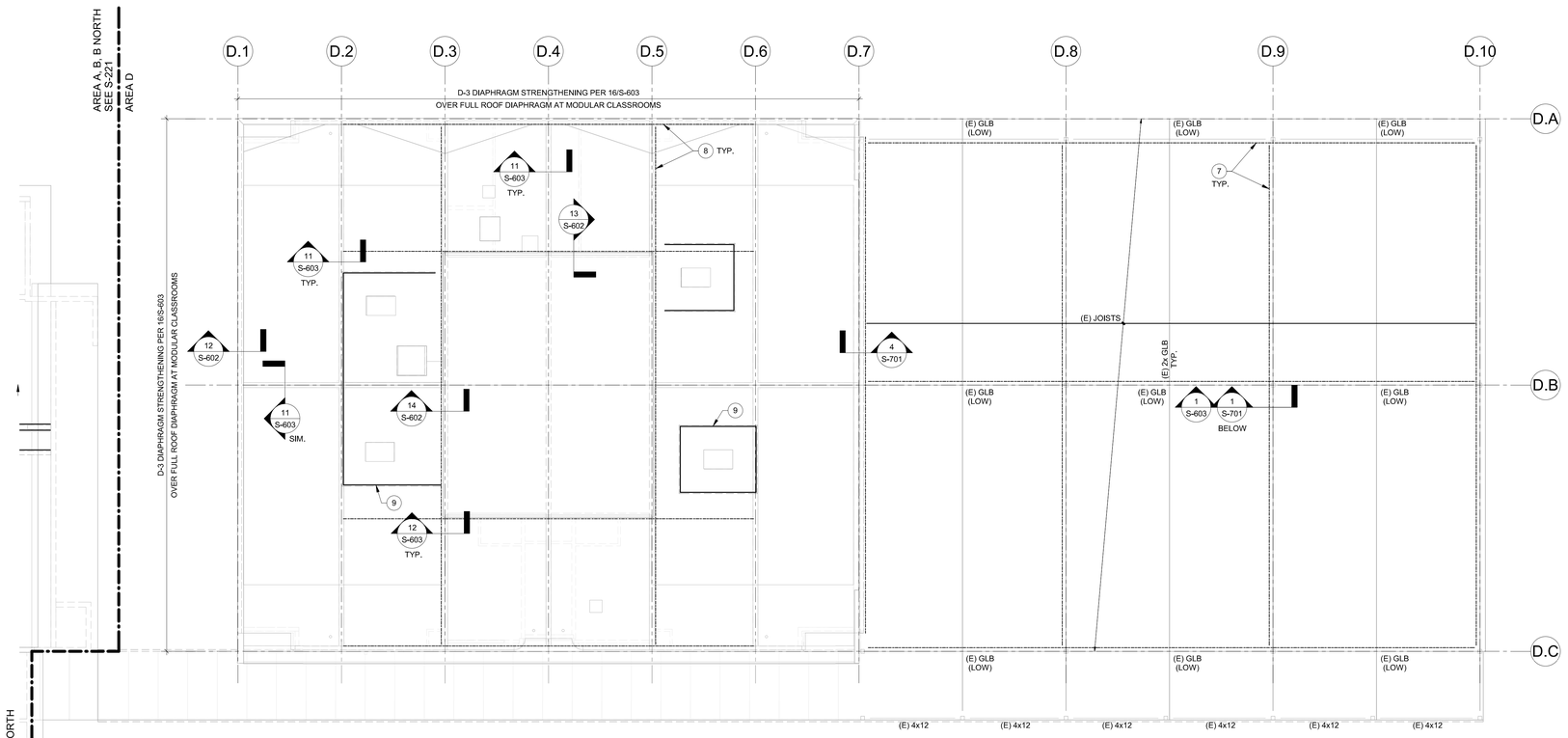
PERMIT/BID SET

SHEET NOTES:

1. SEE ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS AND INFORMATION NOT SHOWN.
2. SEE MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR RELATED NON-STRUCTURAL ELEMENTS EMBEDDED OR CONNECTED TO THE STRUCTURE.
3. FIELD VERIFY ALL EXISTING STRUCTURAL CONDITIONS.
4. FIELD VERIFY ALL FINISHES AND SERVICES TO BE RELOCATED OR REPLACED FOR CONSTRUCTION.
5. REFER TO ARCHITECTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR NON-STRUCTURAL ITEMS REQUIRING RETROFIT.
6. (x) INDICATES SHEAR WALL, SEE LEGEND BELOW FOR SHEAR WALL SCHEDULE INFORMATION.

KEY NOTES:

1. HOLDOWN REQUIRED AT EA. END OF SHEAR WALL. HOLDOWN POST TO RECEIVE EDGE NAIL. PROVIDE SISTERED STUDS OR (N) TO MEET MIN. POST SIZE PER SCHEDULE, U.O.N. PER PLAN
2. BOLT (E) WOOD POST TO (E) FOUNDATION AND PROVIDE BRACING WHERE NOT PROVIDED. ACCESS TO AREA IS LIMITED, REMOVE FLOORING AS REQUIRED.
3. SIMPSON STRAP, BLOCK UNDER STRAPS WHERE NO FRAMING MEMBER EXISTS
4. (N) FULL HEIGHT STUD WALL W/ (2) 2x6 @ 16" O.C., FASTEN TO PARTIAL HEIGHT CONCRETE WALL BEHIND.
5. NOT USED
6. (N) SHEAR WALL TO (E) ROOF CONNECTION FROM BELOW. CUT (E) RAFTER NON-LOAD-BEARING TAILS TO ALLOW FOR CONT. SHEATHING TO UNDERSIDE OF (E) ROOF WHERE OCCURS.
7. BLOCKED AND POSITIVE ATTACHMENT BETWEEN STACKED ROOF MEMBERS. INCLUDE CMST14 STRAPPING W/ (66) 10d NAILS ACROSS ALL DISCONTINUITIES AND A35 CLIPS TO UNDERSIDE OF (E) SHEATHING.
8. PROVIDE SIMPSON CMST12 STRAPS W/ (86) 16d NAILS AT ALL DIAPHRAGM DISCONTINUITIES (MODULE BOUNDARIES), BLOCK UNDER STRAPS.
9. EXISTING SCREEN WALLS TO REMAIN, REPLACE IN KIND AFTER ROOF RETROFIT
10. HUC614 HANGER W/ TITEN 2 SCREWS, INSTALL PER MANUFACTURER'S RECOMMENDATIONS



LEGEND:

- (E) CONC. WALL
- (E) CMU WALL
- (E) STUD WALL
- (E) WALL (B)
- (N) STUD WALL
- (N) WALL (B)
- (N) 1/2" CDX PLYWOOD SHTG. OVER (E) WOOD WALL, SEE 1 & 9/S-601
  - SW = S.W. MARK
  - X'-XX" = MIN. LENGTH
- SUREBOARD SHTG. OVER (E) WOOD WALL, SEE 1 & 5/S-601
  - SBSW = S.W. MARK
  - X'-XX" = MIN. LENGTH
- (E) WD. COLUMN
- (E) TS COLUMN
- (E) COLUMN (B)
- HSS = HSS COLUMN
- 1x = HOLDOWN & POST AT SHEAR WALL END, EPOXY DOWEL AT (E) FOOTINGS PER KEY NOTE 1
- X = WALL TO DIAPHRAGM CONN. PER KEY NOTE X
- PLYWOOD
- (N) 3'-0" SQ. x 18" THK. CONC. FOOTING
- (N) D-2 PER 16/S-601 STRENGTHENING AT (E) DIAPHRAGM
- SIMP. STRAP

1 S-223 **ROOF PLAN - AREA D**

1/8" = 1'-0"

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.

12/1/2020 6:59:55 PM

BEAVERTON SCHOOL DISTRICT

Cooper Mtn SRGP

7670 SW 170th Ave
Beaverton, OR 97007

OHPLANNING+DESIGN, ARCHITECTURE
115 NW 1st Ave, Ste. 300
Portland, OR 97209

Consultants:

Holmes Structures
555 SE MLK Jr Blvd. Suite 602
Portland, OR 97214 USA
t 503.672.5323 holmesstructures.com

COOPER MOUNTAIN ELEMENTARY SCHOOL
SEISMIC SRGP IMPROVEMENTS

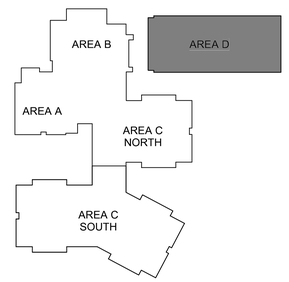
PERMIT/BID SET

STRUCTURAL REGISTERED PROFESSIONAL ENGINEER OREGON JANUARY 11, 2014 JENNIFER B. EDKINS
EXP. 12/31/2021

Date:	12-04-2020
Project Number:	20138.10
Drawn By:	IK
Checked By:	JE

Revision Schedule:

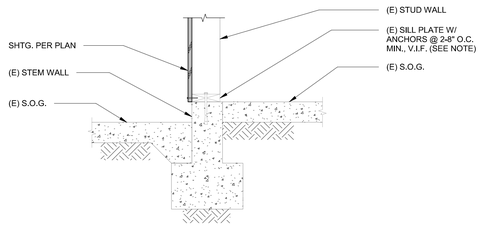
KEY PLAN



Sheet Title:
ROOF PLAN - AREA D

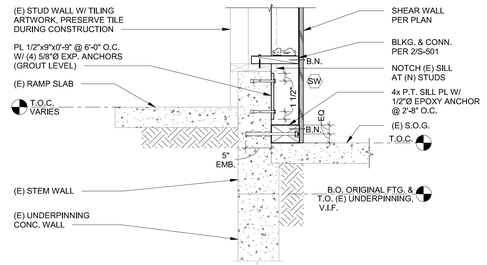
Sheet Number:
S-223

PERMIT/BID SET

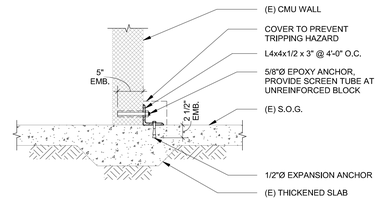


NOTE:
PROVIDE EPOXY DOWEL SILL ANCHORS WHERE NO (E) ANCHORS PRESENT

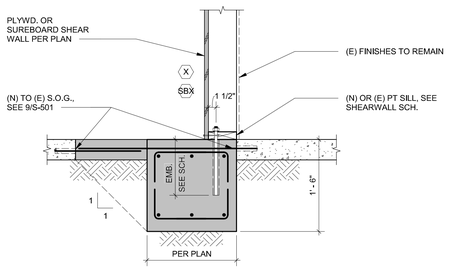
12 S-501 **WALL TO (E) FOUNDATION (AREA A)**
1" = 1'-0"



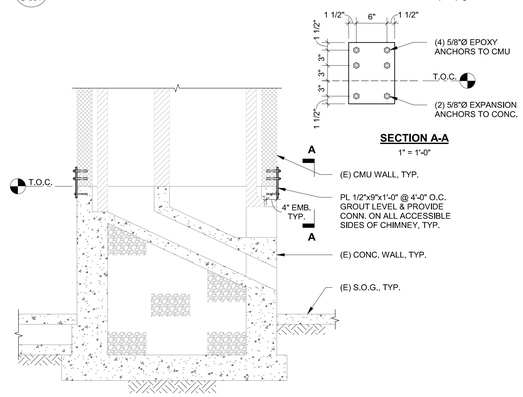
8 S-501 **SECTION AT RAMP - HIGH (AREA A)**
1" = 1'-0"



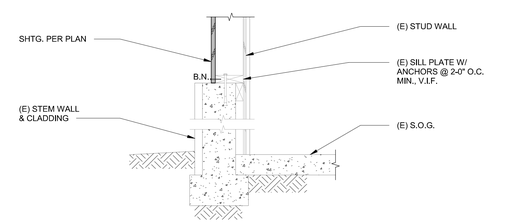
4 S-501 **CMU WALL ANCHORAGE - SLAB ON GRADE**
1" = 1'-0"



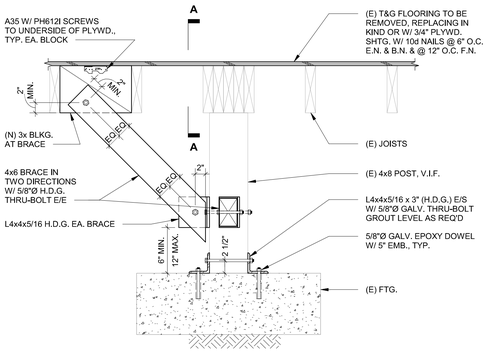
11 S-501 **SHEARWALL AT (N) FTG**
1" = 1'-0"

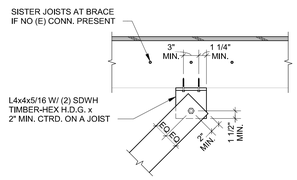


7 S-501 **CHIMNEY CONNECTIONS**
1/2" = 1'-0"



3 S-501 **SECTION AT SOUTH WALL (AREA A)**
1" = 1'-0"

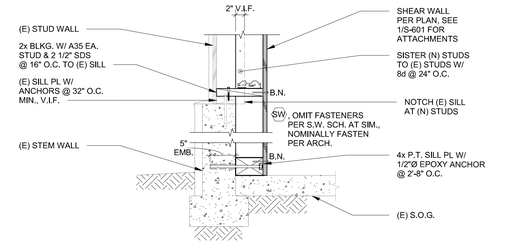




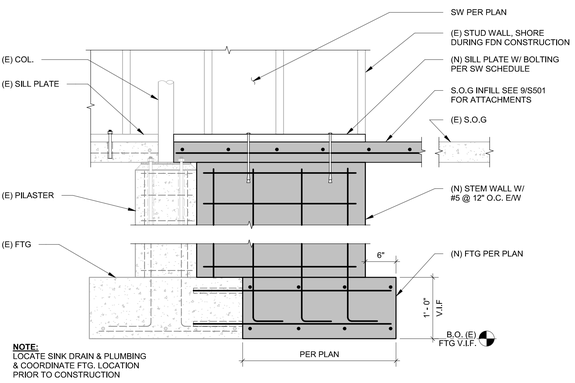
SECTION A-A

14 S-501 **POST CONNECTION AT (E) FTG. (AREA D)**
1" = 1'-0"

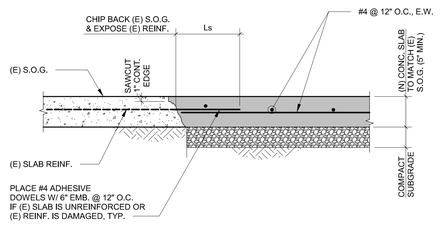
6 S-501 **NEW TO FOOTING AT (E) RETAINING WALL**
1" = 1'-0"



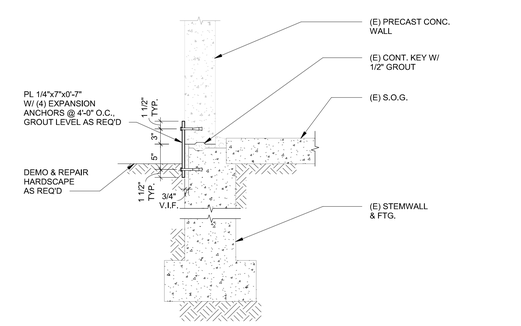
2 S-501 **SECTION AT WEST WALL (AREA A)**
1" = 1'-0"



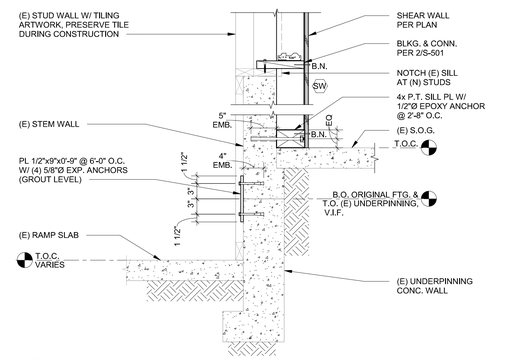
13 S-501 **SHEARWALL FTG AT (E) COL.**
1" = 1'-0"



9 S-501 **NEW SLAB ON GRADE TO EXISTING SLAB ON GRADE**
1" = 1'-0"



5 S-501 **WALL TO FOUNDATION (AREA C)**
1" = 1'-0"



1 S-501 **SECTION AT RAMP - LOW (AREA A)**
1" = 1'-0"

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.

12/1/2020 6:59:56 PM

BEAVERTON SCHOOL DISTRICT

Cooper Mtn SRGP

7670 SW 170th Ave
Beaverton, OR 97007

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

Consultants:

Holmes Structures
555 SE MLK Jr Blvd. Suite 602
Portland, OR 97214 USA
t (503) 672-5323 holmesstructures.com

COOPER MOUNTAIN ELEMENTARY SCHOOL
SEISMIC SRGP IMPROVEMENTS

PERMIT/BID SET

OREGON STRUCTURAL REGISTERED PROFESSIONAL ENGINEER
JENNIFER B. GOLDEN
RENEWAL 11/30/2014
EXP. 12/31/2021

Date: 12-04-2020
Project Number: 20138.10
Drawn By: IK
Checked By: JE

Revision Schedule:

Sheet Title:
DETAILS

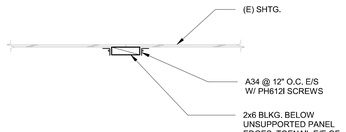
Sheet Number:
S-501

PERMIT/BID SET

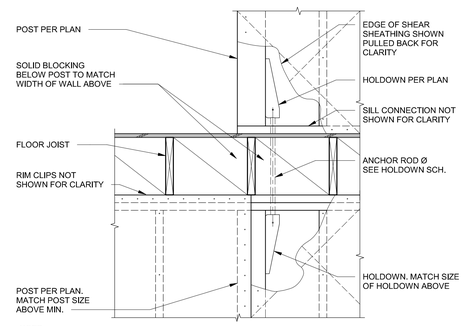
WOOD DIAPHRAGM SCHEDULE				
TAG	WOOD STRUCTURAL PANEL	EDGE NAILING	FIELD NAILING	BLKG. & ATTACHMENTS
D-1	(E) 1/2" PLYWD.	10d @ 4" O.C., STAG. W/ (E) NAILS	10d @ 6" O.C., STAG. W/ (E) NAILS	14GA STAPLES @ 2" O.C. E/S OF JOINT IN 24GA x 3" MTL. STRAP, ALL PANEL EDGES & SIMP. COLLECTOR STRAPS @ 48" O.C. BOTH DIRECTIONS
D-2	(E) 15/32" PLYWD.	(E) 8d @ 4" (NEED NOT BE VERIFIED)	(E) 8d @ 12" (NEED NOT BE VERIFIED)	2x6 BLKG. AT ALL UNSUPPORTED PANEL EDGES, CONNECT BLKG. W/ A34 E/S E/E PER 12/S-601
D-3	(E) 1/2" PLYWD., V.I.F.	10d @ 4" O.C., STAG. W/ (E) NAILS	10d @ 6" O.C., STAG. W/ (E) NAILS	16GA STAPLES @ 2" O.C. E/S OF JOINT IN 24GA x 3" MTL. STRAP, ALL PANEL EDGES
D-4	(E) 3/8" PLYWD.	(E) 8d @ 6" O.C., V.I.F.	(E) 8d @ 6" O.C., V.I.F.	16GA STAPLES @ 1" O.C. E/S OF JOINT IN 26GA x 3" MTL. STRAP, ALL PANEL EDGES

NOTES:
1. PROVIDE MINIMUM FASTENER PENETRATION TO MAIN FRAMING MEMBERS PER GENERAL NOTES.
2. USE ZINC COATED RING-SHANK GUN NAILS AT EXTERIOR DECKS.
3. SEE DETAIL 15 / S-601 FOR MORE INFORMAITON.

16 S-601 **WOOD DIAPHRAGM SCHEDULE** N.T.S.

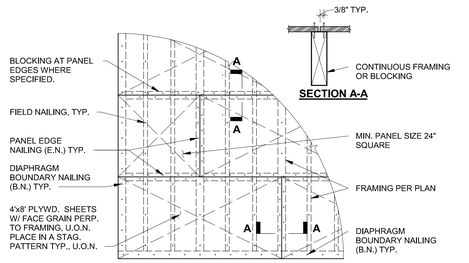


12 S-601 **PANEL EDGE CONNECTION (AREA C)** 1" = 1'-0"

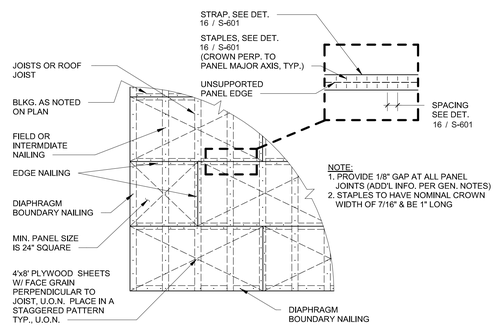


NOTE:
1.CONDITION SHOWN IS FOR JOIST PERPENDICULAR TO WALL. FOR JOIST PARALLEL TO WALL CONDITION PROVIDE SQUASH BLOCK TO MATCH SIZE OF POST ABOVE.

8 S-601 **HOLDOWN BETWEEN FLOORS** 1" = 1'-0"

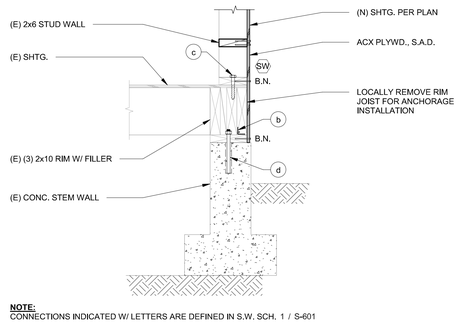


4 S-601 **TYP. DIAPHRAGM** N.T.S.



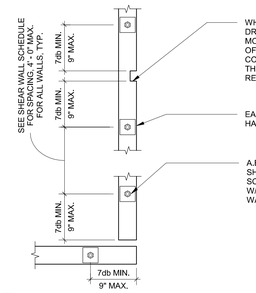
NOTE:
1. PROVIDE 1/8" GAP AT ALL PANEL JOINTS (ADD'L INFO. PER GEN. NOTES)
2. STAPLES TO HAVE NOMINAL CROWN WIDTH OF 7/16" & BE 1" LONG

15 S-601 **TYP PLYWD. DIAPHRAGM NAILING WITH STRAP BLOCKING** N.T.S.



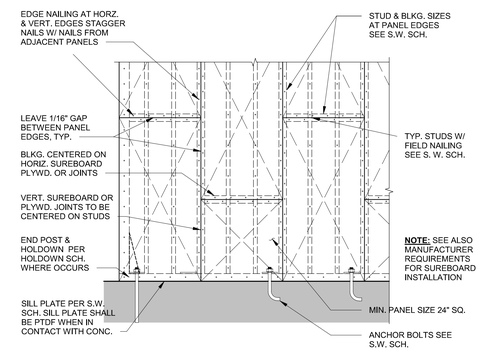
NOTE:
CONNECTIONS INDICATED W/ LETTERS ARE DEFINED IN S.W. SCH. 1 / S-601

11 S-601 **SHEAR WALL (AREA D)** 1" = 1'-0"

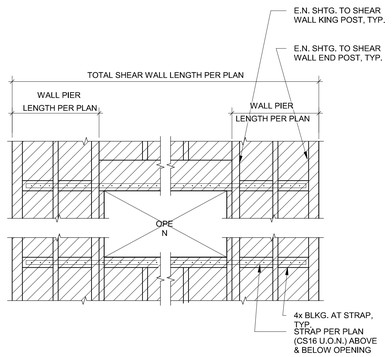


NOTES:
1. -db REFERS TO A.B. Ø.
2. SILL PLATES IN CONTACT W/ CONCRETE SHALL BE P.T.D.F. OR FOUNDATION GRADE REDWOOD.
3. IF 7db MIN./12" MAX. DIM. W/ HD THEN MEASURE FROM CENTERLINE HD A.B.
4. SILL BOLTS SHALL BE 5/8"Ø L-BOLTS W/ 7" EMB. INTO FTG. (BELOW SLAB WHERE OCCURS) AT 4'-0" MAX. SPACING.

7 S-601 **TYP. SILL BOLTING LAYOUT** 1" = 1'-0"



3 S-601 **TYPICAL PLYWD. OR SUREBOARD SHEAR WALL ELEV.** N.T.S.



6 S-601 **OPENING AT RECESSED ELECTRICAL PANEL (AREA C)** 1" = 1'-0"

MARK	a EDGE NAILING (E.N.) SEE NOTE 2	ALLOWABLE CAPACITY (PLF)	b RIM CONN. SPACING (SIMP. A35, LTP4 OR LS50)	c SILL PL CONN. SPACING (SIMP. SDWS 0.220 x 6) SEE NOTE 5	d FDN. ANCHOR SPACING. SEE NOTES 4 & 6	
					STEMWALLS	S.O.G.
4	10d @ 4" O.C.	583	16" O.C.	12" O.C.	48" O.C.	16" O.C.
2 NOTE 7	10d @ 2" O.C.	950	8" O.C.	8" O.C.	24" O.C.	8" O.C.

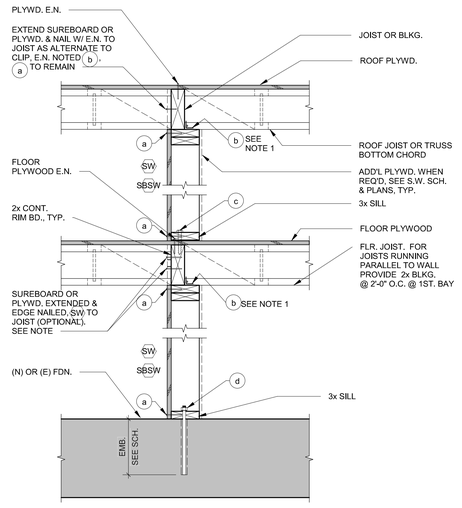
NOTES:
1. USE SUREBOARD 200W OR EQUIVALENT ASSEMBLY.
2. E.N. ACROSS ALL PANEL EDGES, FIELD NAILING IS 6" O.C. ALL NAILS ARE SMOOTH SHANK 10d MIN. 2 1/4" LONG x 0.148" SHANK DIAMETER.
3. ALL MEMBERS RECEIVING E.N. INCLUDING SILL PLATE SHALL BE 3x AS A MIN. NAILING SHALL BE STAGGERED. ALL PANEL EDGES SHALL BE BLOCKED. PANELS MAY BE INSTALLED HORIZONTALLY OR VERTICALLY.
4. PROVIDE A 3" SQ. x 3 GA. PLATE WASHER AT THE SILL. CONTRACTOR MAY USE BP⅝-3 OR BP5⅛-3 SIMPSON WASHERS. PLATE WASHER SHALL EXTEND TO WITHIN 1/2" OF THE EDGE OF THE BOTTOM PLATE ON THE SIDE(S) WITH SHEATHING. WHERE WALL IS GREATER THAN 2x4 AND SHEATHING OCCURS ON BOTH SIDES, ANCHOR BOLTS SHALL BE STAGGERED. A.B. & WASHER SHALL BE HOT DIPPED GALVANIZED.
5. SILL CONNECTION IS FOR WOOD TO WOOD CONNECTION ONLY, TYP. BTWN. FLOORS. WHERE SPACING IS CLOSER THAN 8" O.C. RIM OR RIM BLOCKING SHALL BE 3 1/2" MIN. WIDTH AND FASTENERS SHALL BE STAGGERED. SDS 1/4 x 6 MAY BE USED IN LIEU OF SDWS 0.220 x 6 AT CONTRACTOR'S DISCRETION.
6. 3/8"Ø SIMPSON TITEN HD W/ 2 1/2" EMB. AT SLAB ON GRADE CONNECTIONS. WHEN SHEAR WALLS ARE LOCATED ON (E) CONCRETE STEMWALLS, 5/8"Ø ALL THREAD ROD WITH SIMPSON SET-XP EPOXY MAY BE USED. ANCHORS SHALL HAVE A MIN. EMBEDMENT OF 7" AND A MIN. EDGE DISTANCE OF 1 3/4".
7. AT ALL MEMBERS TO RECEIVE 2" O.C. NAILING, SISTER (E) 2x STUDS W/ (N) 2x W/ 1/4"Ø x3" SDS SCREWS @ 5" O.C. STAGGERED.

5 S-601 **SUREBOARD SHEAR WALL SCHEDULE** N.T.S.

MARK	a EDGE NAILING (E.N.) SEE NOTE 2	CAPACITY (PLF)	b RIM CONN. SPACING (SIMP. A35, LTP4 OR LS50)	c SILL PL CONN. SPACING (SIMP. SDWS 0.220 x 6) SEE NOTE 5	d FDN. ANCHOR SPACING, SEE NOTE 4
6	10d @ 6" O.C.	310	24" O.C.	16" O.C.	48" O.C.
4	10d @ 4" O.C.	460	16" O.C.	12" O.C.	48" O.C.
3	10d @ 3" O.C.	600	12" O.C.	8" O.C.	32" O.C.
2 NOTE 3	10d @ 2" O.C.	770	8" O.C.	8" O.C.	24" O.C.

NOTES:
1. USE 1/2" CDX PLYWD.
2. E.N. ACROSS ALL PANEL EDGES, FIELD NAILING IS 12" O.C. ALL NAILS ARE COMMON WIRE NAILS, MAY USE 10d SHORTS (2 1/8" MIN. LENGTH) W/ FULL HEADS.
3. AT ALL MEMBERS TO RECEIVE 2" O.C. NAILING, SISTER (E) 2x STUDS W/ (N) 2x W/ 1/4"Ø x3" SDS SCREWS @ 5" O.C. STAGGERED.
4. ALL FDN. ANCHOR BOLTS ARE ⅝"Ø L-BOLTS W/ A 2" HOOK OR ALL THREAD ROD WITH A NUT, WASHER AND NUT ON THE EMBEDDED END. WHEN SHEAR WALLS ARE LOCATED ON (E) CONCRETE ¾"Ø ALL THREAD ROD WITH SIMPSON SET-XP EPOXY MAY BE USED. ANCHORS SHALL HAVE A MIN. EMBEDMENT OF 7", A MIN. EDGE DISTANCE OF 1¾" AND SHALL HAVE A 3" SQ. x 3 GA. PLATE WASHER AT THE SILL. CONTRACTOR MAY USE BP⅝-3 OR BP5⅛-3 SIMPSON WASHERS. PLATE WASHER SHALL EXTEND TO WITHIN 1/2" OF THE EDGE OF THE BOTTOM PLATE ON THE SIDE(S) WITH SHEATHING. WHERE WALL IS GREATER THAN 2x4 AND SHEATHING OCCURS ON BOTH SIDES, ANCHOR BOLTS SHALL BE STAGGERED. A.B. & WASHER SHALL BE HOT DIPPED GALVANIZED.
5. SILL CONNECTION IS FOR WOOD TO WOOD CONNECTION ONLY, TYP. BTWN. FLOORS. WHERE SPACING IS CLOSER THAN 8" O.C. RIM OR RIM BLOCKING SHALL BE 3½" MIN. WIDTH AND FASTENERS SHALL BE STAGGERED. SDS 1/4 x 6 MAY BE USED IN LIEU OF SDWS 0.220 x 6 AT CONTRACTOR'S DISCRETION.

1 S-601 **SHEAR WALL SCHEDULE** N.T.S.



NOTES:
1. THIS CONN. MAY BE OMITTED AT FLR. (NOT AT ROOF) IF JOISTS ARE PARALLEL TO WALL & PLYWD. IS EXTENDED UP & EDGE NAILED,TO JOISTS. DOES NOT APPLY TO WALLS W/ PLYWD. ON BOTH SIDES.
2. CONNECTIONS INDICATED W/ LETTERS ARE DEFINED IN S.W. SCH.

9 S-601 **TYPICAL INTERIOR SHEAR WALL** 1" = 1'-0"

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.

12/1/2020 6:59:57 PM

BEAVERTON SCHOOL DISTRICT

Cooper Mtn SRGP

7670 SW 170th Ave
Beaverton, OR 97007

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

Consultants:

Holmes Structures
555 SE MLK Jr Blvd. Suite 602
Portland, OR 97214 USA
t 503.672.1323 holmesstructures.com

COOPER MOUNTAIN ELEMENTARY SCHOOL
SEISMIC SRGP IMPROVEMENTS

PERMIT/BID SET

STRUCTURAL REGISTERED PROFESSIONAL ENGINEER OREGON MARCH 11, 2014 JENNIFER B. EDGES
EXP. 12/31/2021

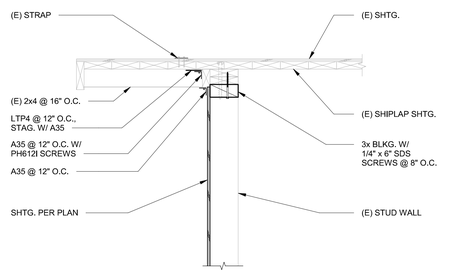
Date: 12-04-2020
Project Number: 20138.10
Drawn By: IK
Checked By: JE

Revision Schedule:

Sheet Title:
WOOD DETAILS

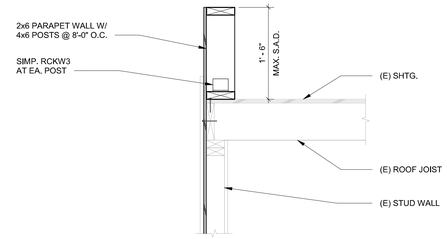
Sheet Number:
S-601

PERMIT/BID SET



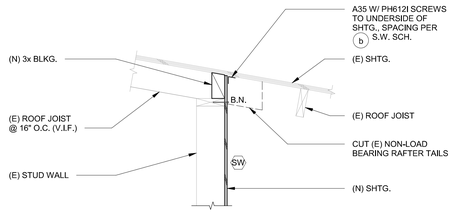
16 S-602 **(E) ROOF FRAMING TO SHEAR WALL**

1" = 1'-0"



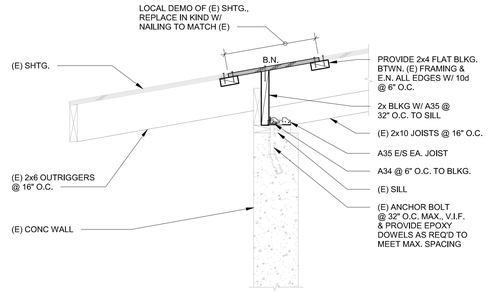
12 S-602 **SECTION AT WEST WALL (ZONE D)**

1" = 1'-0"



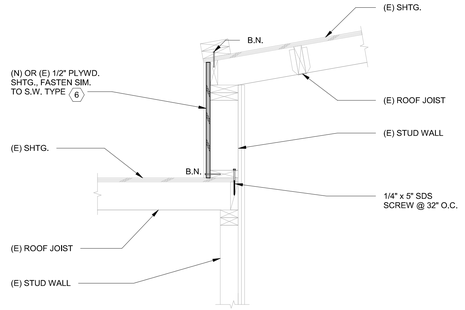
8 S-602 **SHEAR WALLS AT (E) ROOF (AREA C)**

1" = 1'-0"



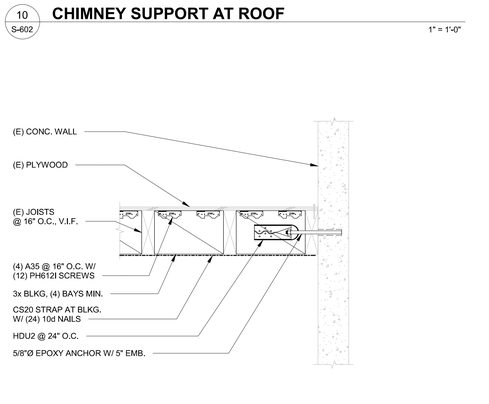
4 S-602 **(E) CONCRETE WALL AT DIAPHRAGM (AREA B)**

1" = 1'-0"



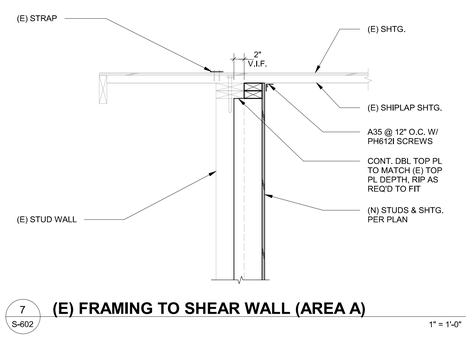
15 S-602 **(E) SECOND FLOOR FRAMING AT (N) SHEAR WALL**

1" = 1'-0"



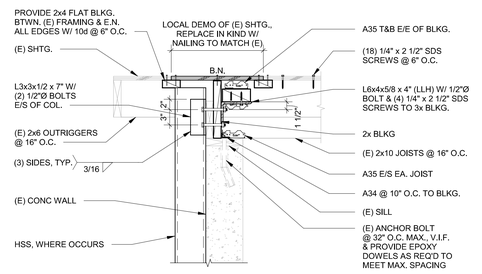
11 S-602 **SECTION AT MUSIC ROOM (AREA A)**

1" = 1'-0"



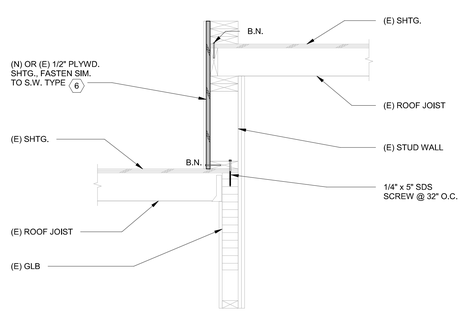
7 S-602 **(E) FRAMING TO SHEAR WALL (AREA A)**

1" = 1'-0"



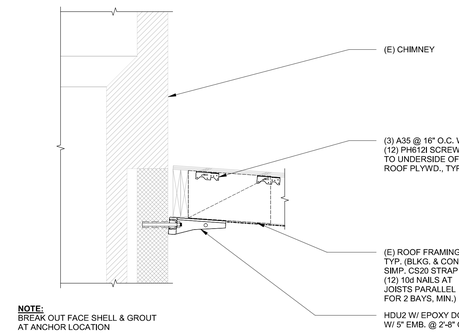
3 S-602 **(E) CONCRETE WALL AT DIAPHRAGM (AREA B)**

1" = 1'-0"



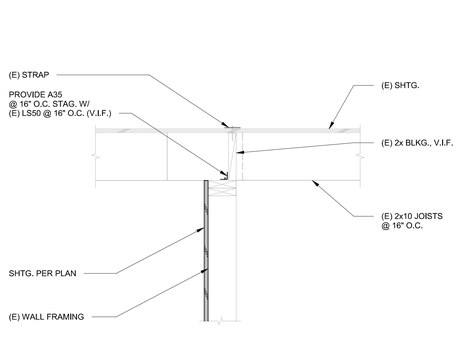
14 S-602 **SECTION AT ROOF POP-UP**

1" = 1'-0"



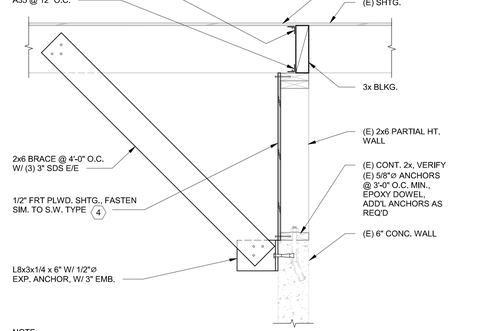
10 S-602 **CHIMNEY SUPPORT AT ROOF**

1" = 1'-0"



6 S-602 **(E) FRAMING TO SHEAR WALL (AREA A)**

1" = 1'-0"



2 S-602 **SUPPORT AT UNBRACED CONC. WALL (AREA C)**

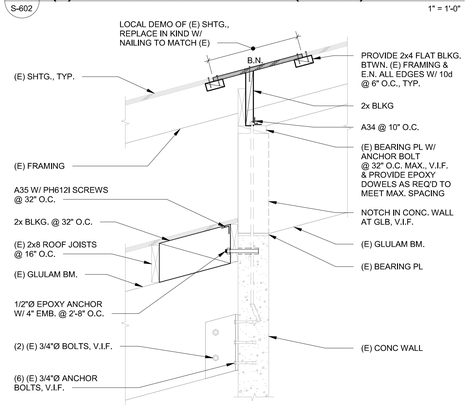
1" = 1'-0"

13 S-602 **SECTION AT ROOF POP-UP**

1" = 1'-0"

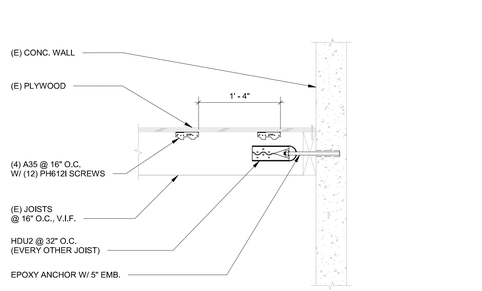
9 S-602 **CONCRETE WALL AT JOISTS PARALLEL (AREA A-B)**

1" = 1'-0"



5 S-602 **(E) FRAMING AT DIAPHRAGM (AREA B)**

1" = 1'-0"



1 S-602 **CONCRETE WALL AT JOISTS PERPENDICULAR (AREA A-B)**

1" = 1'-0"

BEAVERTON SCHOOL DISTRICT

Cooper Mtn SRGP

7670 SW 170th Ave
Beaverton, OR 97007

OHPLANNING+DESIGN, ARCHITECTURE

115 NW 1st Ave, Ste. 300
Portland, OR 97209

Consultants:

Holmes Structures
555 SE MLK Jr Blvd. Suite 602
Portland, OR 97214 USA
t 503.672.5323 holmesstructures.com

COOPER MOUNTAIN ELEMENTARY SCHOOL
SEISMIC SRGP IMPROVEMENTS

PERMIT/BID SET

STRUCTURAL REGISTERED PROFESSIONAL ENGINEER OREGON JANUARY 11, 2013 JENNIFER B. EDGES

EXP. 12/31/2021

Date: 12-04-2020
Project Number: 20138.10
Drawn By: IK
Checked By: JE

Revision Schedule:

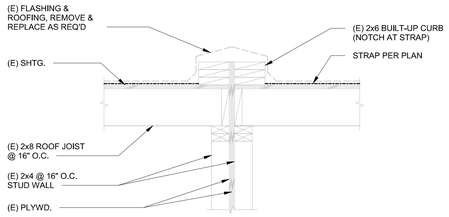
Sheet Title:
WOOD DETAILS

Sheet Number:
S-602

PERMIT/BID SET

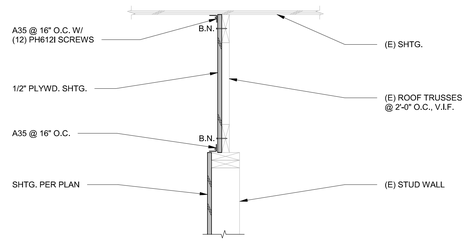
12/1/2020 6:59:58 PM

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.



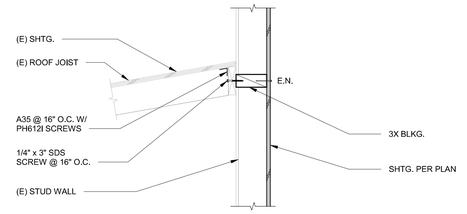
12 S-603 **ROOF BUMP-UP (AREA D)**

1" = 1'-0"



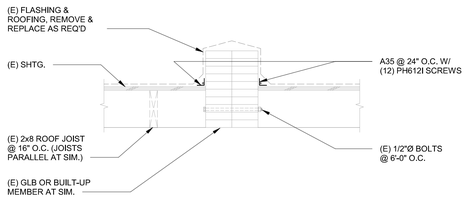
8 S-603 **(E) FRAMING TO SHEAR WALL (AREA C)**

1" = 1'-0"



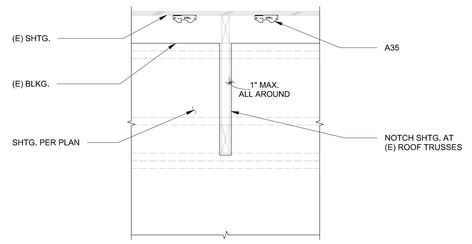
3 S-603 **(E) FRAMING TO SHEAR WALL (AREA A)**

1" = 1'-0"

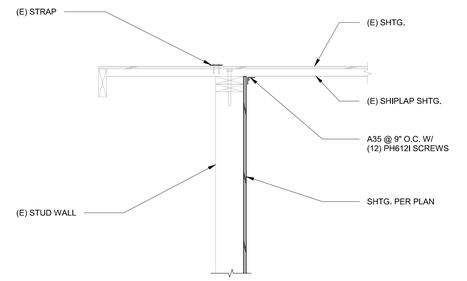


11 S-603 **ROOF BUMP-UP (AREA D)**

1" = 1'-0"

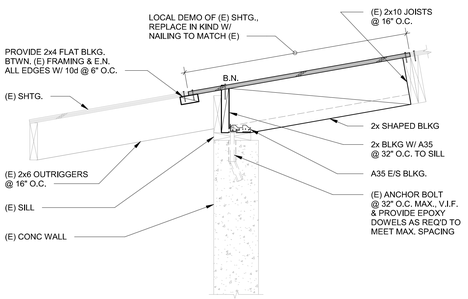


SECTION A-A



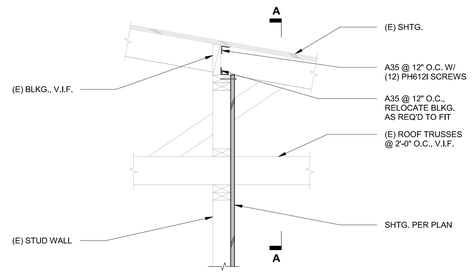
2 S-603 **(E) FRAMING TO SHEAR WALL (AREA A)**

1" = 1'-0"



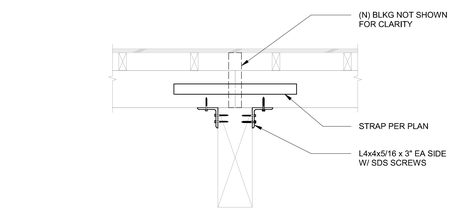
10 S-603 **(E) CONCRETE WALL AT DIAPHRAGM (AREA B)**

1" = 1'-0"

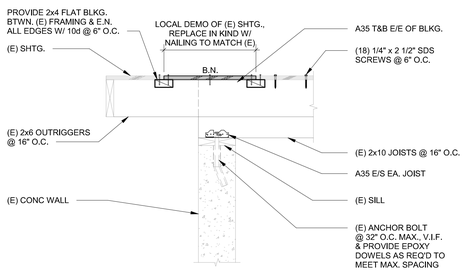


6 S-603 **(E) FRAMING TO SHEAR WALL (AREA C)**

1" = 1'-0"

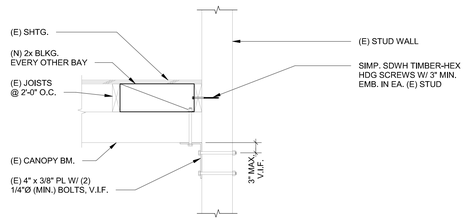


SECTION A-A



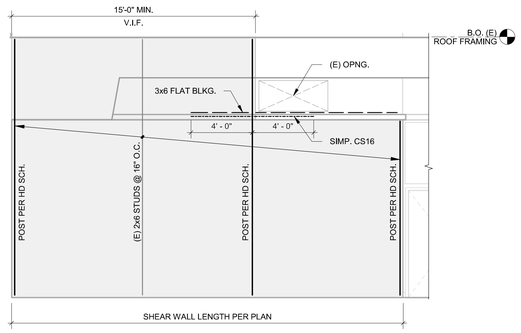
13 S-603 **(E) CONCRETE WALL AT DIAPHRAGM (AREA B)**

1" = 1'-0"



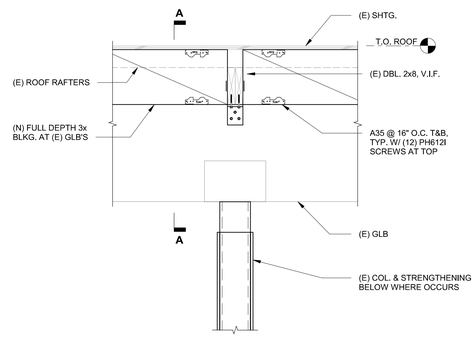
9 S-603 **(E) CANOPY DETAIL (AREA C)**

1" = 1'-0"



5 S-603 **CAFETERIA WALL EAST**

1/4" = 1'-0"



1 S-603 **ROOF STRENGTHENING (AREA D)**

1" = 1'-0"

12/1/2020 6:59:59 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.

BEAVERTON SCHOOL DISTRICT

Cooper Mtn SRGP

7670 SW 170th Ave
Beaverton, OR 97007

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

Consultants:

Holmes Structures
555 SE MLK Jr Blvd. Suite 602
Portland, OR 97214 USA
t 503.675.1323 holmesstructures.com

COOPER MOUNTAIN ELEMENTARY SCHOOL
SEISMIC SRGP IMPROVEMENTS

PERMIT/BID SET

STRUCTURAL REGISTERED PROFESSIONAL ENGINEER OREGON MARCH 11, 2014 JENNIFER B. GOLDEN
EXP. 12/31/2021

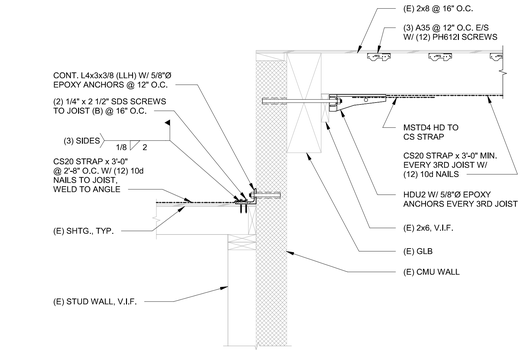
Date: 12-04-2020
Project Number: 20138.10
Drawn By: Author
Checked By: Checker

Revision Schedule:

Sheet Title:
WOOD DETAILS

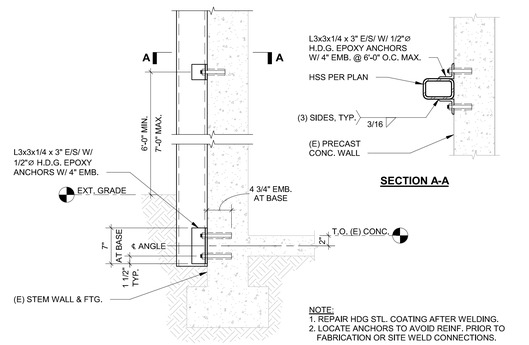
Sheet Number:
S-603

PERMIT/BID SET



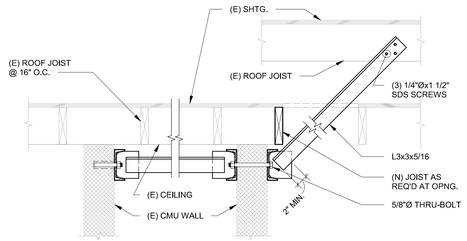
4 S-701 **(E) CMU AT (N) ROOF DIAPHRAGM**

1" = 1'-0"



3 S-701 **HSS TO (E) CONC. WALL**

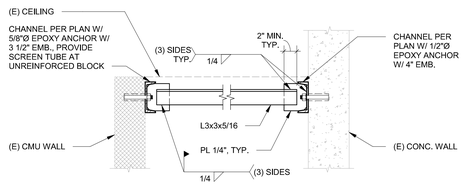
1" = 1'-0"



NOTE:
CHANNELS, ANGLE, PLATES & CONNECTIONS PER 5/S-701

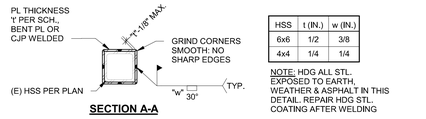
6 S-701 **SUPPORT AT UNBRACED CMU WALL**

1" = 1'-0"



5 S-701 **SUPPORT AT UNBRACED CMU WALL**

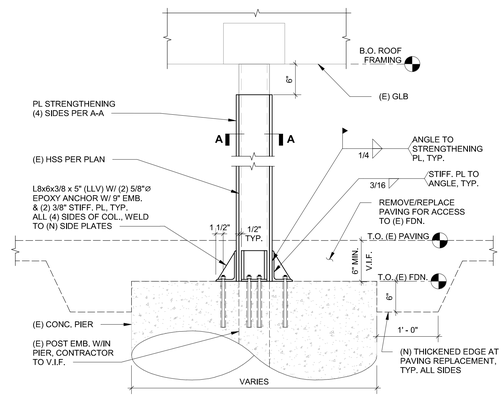
1" = 1'-0"



SECTION A-A

HSS	t (IN.)	w (IN.)
6x6	1/2	3/8
4x4	1/4	1/4

NOTE: HDG ALL STL. EXPOSED TO EARTH, WEATHER & ASPHALT IN THIS DETAIL. REPAIR HDG STL. COATING AFTER WELDING



1 S-701 **HSS STRENGTHENING**

1" = 1'-0"

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.

12/1/2020 7:00:00 PM

BEAVERTON SCHOOL DISTRICT

Cooper Mtn SRGP

7670 SW 170th Ave
Beaverton, OR 97007

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

Consultants:

Holmes Structures
555 SE MLK Jr Blvd. Suite 602
Portland, OR 97214 USA
t 503.672.5323 holmesstructures.com

COOPER MOUNTAIN ELEMENTARY SCHOOL
SEISMIC SRGP IMPROVEMENTS

PERMIT/BID SET

STRUCTURAL REGISTERED PROFESSIONAL ENGINEER OREGON JANUARY 11, 2014 JENNIFER B. GOARS
EXP. 12/31/2021

Date: 12-04-2020
Project Number: 20138.10
Drawn By: IK
Checked By: JE

Revision Schedule:

Sheet Title:
STEEL DETAILS

Sheet Number:
S-701

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.

MECHANICAL - GENERAL NOTES

1. COORDINATE LOCATION/INSTALLATION OF MECHANICAL AND ELECTRICAL WORK WITH ALL OTHER TRADES. NO ASPECT OF A SYSTEM INSTALLATION OR ITS ROUGH-IN SHALL COMMENCE UNTIL PROPER AND TIMELY COORDINATION WITH ALL TRADES ASSOCIATED WITH THE INSTALLATION HAS TRANSPIRED. ITEMS TO BE COORDINATED SHALL INCLUDE BUT NOT BE LIMITED TO: BUILDING STRUCTURE, SHEET METAL, ALL PIPING SYSTEMS, LIGHT FIXTURES, CONDUITS, CABLE TRAYS, ETC. REFER TO ALL GENERAL, MECHANICAL, AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT. ANY REWORK OF INSTALLED EQUIPMENT WILL BE AT CONTRACTORS EXPENSE.
2. INCORPORATE INTO INSTALLATION MECHANICAL SPECIFICATIONS, DRAWINGS, STATE AND LOCAL CODES, AND OTHER APPLICABLE REQUIREMENTS.
3. WARNING - CALL 48 HOURS BEFORE YOU DIG: LAW REQUIRES ANYONE DOING ANY EXCAVATION, FENCING, PLANTING OR DRILLING TO CALL 48 HOURS IN ADVANCE. HAND DIG WITHIN 18 INCHES OF ANY LOCATE MARK OR FLAG. ONE CALL 811.
4. REFER TO ARCHITECTURAL SPECIFICATIONS FOR FIRESTOPPING AND TO ARCHITECTURAL CODE PLAN FOR FIRE RATED WALLS AND FLOORS. EACH TRADE IS RESPONSIBLE TO FIRESTOP PENETRATIONS THROUGH RATED ASSEMBLIES.
5. EACH TRADE IS RESPONSIBLE TO MAKE PENETRATIONS WHERE REQUIRED IN EXISTING WALLS, FLOORS, AND CEILINGS. PENETRATIONS SHALL BE NEAT, ANY OVERCUT SHALL BE CONCEALED OR CAULKED.
6. ALL EXPOSED WALL PENETRATIONS SHALL BE COVERED BY ESCUTCHEONS OR SHEET METAL AS APPROPRIATE.
7. ALL CONCEALED AND EXPOSED PIPING AND DUCT WALL PENETRATIONS SHALL BE CAULKED TO PREVENT NOISE TRANSFER BETWEEN SPACES.
8. CONTRACTOR SHALL BE RESPONSIBLE TO CREATE NECESSARY OPENINGS TO THE BUILDING TO REMOVE EXISTING ITEMS AND TO BRING IN NEW EQUIPMENT. ALL OPENINGS CREATED SHALL BE PATCHED AND FINISHED WITH MATERIALS TO MATCH EXISTING CONDITIONS. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR THIS WORK.

HVAC - NOTES

1. CONTRACTOR TO COORDINATE INSTALLATION WITH ALL OTHER TRADES AS DESCRIBED IN MECHANICAL GENERAL NOTE #1.
2. MECHANICAL CONTRACTOR TO PROVIDE SUPPLY, RETURN, EXHAUST, AND VENTILATION DUCTWORK, SUPPORTS, HANGERS, DIFFUSERS, GRILLES, REGISTERS, AND ALL APPURTENANCES. INSTALL ALL EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS. INSTALL SYSTEM TO MEET ALL CITY AND STATE CODES AND REQUIREMENTS.
3. DRAWING PLANS, SCHEMATICS, AND DIAGRAMS INDICATE GENERAL LOCATION AND ARRANGEMENT OF DUCT SYSTEM. INDICATED DUCT LOCATIONS, CONFIGURATIONS, AND ARRANGEMENTS WERE USED TO SIZE DUCTWORK AND CALCULATE FRICTION LOSS FOR AIR-HANDLING EQUIPMENT SIZING AND FOR OTHER DESIGN CONSIDERATIONS.
4. ALL DUCT DIMENSIONS LISTED ARE INTERIOR FREE AREA DUCT DIMENSIONS AND DO NOT INCLUDE INSULATION REQUIREMENTS.
5. CONTRACTOR TO SEAL ALL WALL DUCT PENETRATIONS. PROVIDE FIRE CAULKING ASSEMBLIES FOR PENETRATIONS OF RATED WALLS. REFER TO ARCHITECTURAL DRAWINGS FOR WALL RATINGS. DUCT INSULATION TO CONTINUE THRU WALL PENETRATIONS UNBROKEN, EXCEPT WHERE FIRE OR FIRE/SMOKE DAMPERS ARE INSTALLED. SEAL AROUND DUCT INSULATION AT WALL PENETRATIONS.

PLUMBING - NOTES

1. CONTRACTOR TO COORDINATE INSTALLATION WITH ALL OTHER TRADES AS DESCRIBED IN MECHANICAL GENERAL NOTE #1.
2. CONTRACTOR TO PROVIDE PIPE, INSULATION, HANGERS, SUPPORTS, EQUIPMENT, WATER HEATERS, FIXTURES, MIXING VALVES, VALVES, AND ALL APPURTENANCES. INSTALL ALL EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS. SIZE AND INSTALL PLUMBING SYSTEM PER PLUMBING CODE. COMPLY WITH ALL LOCAL AND STATE CODES AND REQUIREMENTS.
3. DRAWING PLANS, SCHEMATICS, AND DIAGRAMS INDICATE GENERAL LOCATION AND ARRANGEMENT OF PLUMBING SYSTEM.
4. EXISTING PIPING AND EQUIPMENT LOCATIONS SHOWN ARE BASED ON ORIGINAL DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR LOCATING PIPING UNDER GROUND OR IN WALLS/CHASES WHERE WORK IS REQUIRED.
   CONTRACTOR TO SEAL ALL WALL PIPE PENETRATIONS. PROVIDE FIRE CAULKING ASSEMBLY FOR PENETRATIONS OF FIRE RATED WALLS. REFER TO ARCHITECTURAL DRAWINGS FOR WALL RATINGS. PIPE INSULATION TO CONTINUE THRU WALL PENETRATIONS UNBROKEN. SEAL AROUND PIPE INSULATION AT WALL PENETRATIONS.

MECHANICAL – DEMOLITION NOTES

1. MECHANICAL DEMOLITION DRAWINGS SHOWING EXISTING CONDITIONS HAVE BEEN PREPARED BASED ON FIELD OBSERVATION AND ORIGINAL DRAWINGS. ADDITIONAL COMPONENTS MAY EXIST, WHICH MAY NOT BE SHOWN, AND SUCH ITEMS SHALL BE DEALT WITH IN A MANNER SIMILAR TO THOSE ITEMS WHICH DO SHOW. CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH EXISTING CONDITIONS.
2. CONTRACTOR SHALL BE FAMILIAR WITH EXISTING MECHANICAL SYSTEMS WHICH WILL BE AFFECTED BY THE DEMOLITION WORK. CONTRACTOR SHALL OBTAIN PERMISSION FROM OWNER'S REPRESENTATIVE TO SHUT OFF SERVICES OR SYSTEMS WHICH MAY AFFECT OTHER AREAS BEYOND THE LIMITS OF THE IMMEDIATE DEMOLITION AREA. SUCH PERMISSION WILL BE GRANTED ONLY AFTER OWNER'S REPRESENTATIVE IS INFORMED OF THE REASON FOR AND DURATION OF THE SHUTDOWN AND IS SATISFIED THAT THE SHUTDOWN CAN BE MADE WITH AS LITTLE INCONVENIENCE TO OTHER AREAS AS POSSIBLE.
3. PIPING, HANGERS, DUCTWORK, GRILLES, REGISTERS, DIFFUSERS, ETC., SHOWN ON PLANS SHALL BE REMOVED UNLESS NOTED OTHERWISE. REMOVAL SHALL BE DONE IN A TIMELY MANNER IN ACCORDANCE WITH THE GENERAL DEMOLITION WORK. COORDINATE WITH THE OWNER AND OTHER CONTRACTORS.
4. EQUIPMENT AND/OR MATERIALS SCHEDULED FOR ABANDONMENT AND REMOVAL ARE TO BECOME CONTRACTOR'S SALVAGE AND SHALL BE HAULED AWAY FROM THE SITE PROMPTLY, EXCEPTION SHALL BE THE EQUIPMENT LISTED FOR DISTRICT SALVAGE.
5. REMOVE ALL ABANDONED PIPING AND DUCTWORK. REFER TO ARCH PLANS FOR CEILINGS TO BE REMOVED.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH REPAIR OR REPLACEMENT OF TELECOMMUNICATIONS FACILITIES OR EQUIPMENT FOUND TO BE DAMAGED OR NON-FUNCTIONAL AFTER SUBSTANTIAL COMPLETION.

MECHANICAL PIPING ACCESSORY LEGEND

	PIPE ANCHOR
	ALIGNMENT GUIDE
	FLEX CONNECTOR
	EXPANSION - LOOP
	EXPANSION - JOINT
	INLINE PUMP

MECHANICAL ABBREVIATIONS

AD	ACCESS DOOR OR AREA DRAIN	GC	GENERAL CONTRACTOR
AFF	ABOVE FINISHED FLOOR	GPM	GALLONS PER MINUTE
AHU	AIR HANDLING UNIT	HR	HOUR
BTU	BRITISH THERMAL UNIT	HTG	HEATING
BTUH	BTU PER HOUR	HB	HOSE BIBB
CFM	CUBIC FEET PER MINUTE	LAV	LAVATORY
CI	CAST IRON	MB	MOP BASIN
CL	CENTER LINE	MBH	1000 BTUH
COND	CONDENSATE	MC	MECHANICAL CONTRACTOR
CO	CLEAN OUT	MECH	MECHANICAL
CP	CONDENSATE PUMP/CIRC. PUMP	NTS	NOT TO SCALE
CUH	CABINET UNIT HEATER	OA	OUTSIDE AIR
DDC	DIRECT DIGITAL CONTROLS	OD	OVERFLOW ROOF DRAIN
DN	DOWN	PSI	POUNDS PER SQUARE INCH
DS	DOWNSPOUT	PVC	POLYVINYL CHLORIDE
EA	EXHAUST AIR	RA	RETURN AIR
EC	ELECTRICAL CONTRACTOR	RD	ROOF DRAIN
EEW	EMERGENCY EYE WASH	RTU	ROOF TOP UNIT
EF	EXHAUST FAN	RVT	ROOF VENT TERMINATION
EQUIP	EQUIPMENT	SK	SINK
ESE	EMERGENCY SHOWER/EYEWASH	SA	SUPPLY AIR
EST	EXTERNAL STATIC PRESSURE	SH	SHOWER
EWC	ELECTRIC WATER COOLER	SO	STORM OVERFLOW
EX	EXISTING	ST	STORM
EXH	EXHAUST	TCC	TEMPERATURE CONTROL CONTRACTOR
FCU	FAN COIL UNIT	TYP	TYPICAL
FD	FLOOR DRAIN	UH	UNIT HEATER
FDC	FIRE DEPARTMENT CONNECTION	UR	URINAL
FS	FLOOR SINK	VA	VENTILATION AIR
FTG	FOOTING	VTR	VENT THROUGH ROOF
GA	GAGE	WC	WATER CLOSET
GAL	GALLON	WH	WATER HEATER
GALV	GALVANIZED		

CALL OR1 BEFORE YOU DIG 811 SAFE DIGGING PARTNER

GENERAL NOTE:

UNDERGROUND FACILITIES, STRUCTURES, AND UTILITIES HAVE BEEN SHOWN BASED UPON INFORMATION OBTAINED FROM FIELD LOCATIONS BY UTILITY COMPANIES, AVAILABLE SURVEYS AND RECORDS. THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. IT IS ALSO POSSIBLE THAT THERE MAY BE OTHER UNDERGROUND FACILITIES, STRUCTURES, AND UTILITIES IN EXISTENCE THAT ARE NOT SHOWN. IT IS THE RESPONSIBILITY OF EACH INDIVIDUAL PARTY REFERENCING THIS PLAN TO DETERMINE THE EXACT LOCATION AND TYPE OF UNDERGROUND FACILITIES ON THE SITE. HAND EXCAVATE AT CRITICAL POINTS AS NECESSARY TO VERIFY LOCATIONS, SIZES, ELEVATIONS, FLOW LINES, ETC. IF A PROBLEM OR INTERFERENCE EXISTS, NOTIFY ARCHITECT/ENGINEER BEFORE PROCEEDING.

PIPING LEGEND - FIRE PROTECTION

FPW	FIRE PROTECTION WET

PLUMBING ACCESSORY LEGEND

HB	HOSE BIBB
RH	ROOF HYDRANT
CO	CLEAN OUT
FCO	FLOOR CLEAN OUT
FD	FLOOR DRAIN
VTR	VENT THRU ROOF (X DENOTES IDENTIFICATION)
RD	ROOF DRAIN
ORD	OVERFLOW ROOF DRAIN
	COMBO ROOF/OVERFLOW DRAIN
LT	LAMB TONGUE
	BACKFLOW PREVENTER

H.V.A.C. / DUCTWORK SYMBOLS

RECT.	RND.	OVAL	
			SUPPLY (SA), OUTSIDE (OA), VENTILATION (VA) AIR DUCT (UP / DOWN / SECTION)
			RETURN (RA) AIR DUCT (UP / DOWN / SECTION)
			EXHAUST (EA) AIR DUCT (UP / DOWN / SECTION)
10/6 SA			RECTANGULAR DUCT (WIDTH / HEIGHT / SYSTEM)
	10 Ø SA		ROUND DUCT (DIAMETER / SYSTEM)
		10/6 Ø SA	FLAT OVAL DUCT (WIDTH / HEIGHT / SYSTEM)
			SUPPLY DIFFUSER
			SUPPLY REGISTER OR GRILLE
			RETURN REGISTER OR GRILLE
			EXHAUST REGISTER OR GRILLE
AD			DUCT ACCESS DOOR
			DUCT END CAP
			TURNING VANES
			FLEXIBLE DUCTWORK
R			ELEVATION CHANGE (RISE OR DROP)
			HIGH EFF. TAKE OFF FITTING w/ VOLUME DAMPER
BD			BACKDRAFT DAMPER
			OPPOSED BLADE DAMPER
			PARALLEL BLADE DAMPER
			VOLUME CONTROL DAMPER
FD			FIRE DAMPER
SD			SMOKE DAMPER
FSD			FIRE/SMOKE DAMPER
M			MOTORIZED ACTUATOR
T			THERMOSTAT
C			CARBON DIOXIDE SENSOR
			SIDE WALL DIFFUSER
			ROUND DIFFUSER
			EXTERIOR LOUVER
X - #			FIXTURE IDENTIFICATION TAG
#x#/CFM			NECK SIZE / CFM

GENERAL SYMBOLS

	EXISTING = HALFTONE LINEWORK
	NEW = DARK LINEWORK
	DEMO = DASHED DARK LINEWORK
	BELOW GRADE = LONG DASHED DARK LINEWORK
	NEW CONNECTION POINT
	POINT OF DISCONNECT
#	KEYNOTE
XXX / X	EQUIPMENT IDENTIFICATION TAG
1 / A101 SIM	DETAIL DRAWING REFERENCE TAG, SIM-SIMILAR, TYP-TYPICAL, OPP-OPPOSITE / SHEET REFERENCE
1 / A101 SIM	SECTION CUT REFERENCE TAG, SIM-SIMILAR, TYP-TYPICAL, OPP-OPPOSITE / SHEET REFERENCE
A101 / 1 RIGHT	INTERIOR ELEVATION DRAWING REFERENCE TAG

PIPING LEGEND - MECHANICAL

CWR	CHILLED WATER RETURN
CWS	CHILLED WATER SUPPLY
CD	CONDENSATE DRAIN
PC	PUMPED CONDENSATE
HWR	HEATING WATER RETURN
HWS	HEATING WATER SUPPLY

PIPING LEGEND - PLUMBING

CW	DOMESTIC COLD WATER
HW	DOMESTIC HOT WATER
G	NATURAL GAS
GV	NATURAL GAS VENT
RHW	RECIRULATING HOT WATER
SAN	SANITARY
ST	STORM
SO	STORM OVERFLOW
P	TRAP PRIMER
V	VENT

FITTINGS

	ELBOW
	ELBOW - DOUBLE BRANCH
	ELBOW - OUTLET DOWN
	ELBOW - OUTLET UP
	ELBOW - LONG RADIUS
	ELBOW - SHORT RADIUS
	45° ELBOW
	TEE - VENT
	TEE - SANITARY
	TEE - OUTLET DOWN
	TEE - OUTLET UP
	TEE - SIDE OUTLET DOWN
	TEE - SIDE OUTLET UP
	CROSS - VENT
	CROSS - SANITARY
	LATERAL
	TEE - SINGLE SWEEP "COMBO WYE"
	REDUCER - CONCENTRIC
	REDUCER - ECCENTRIC
	CAPPED CONNECTION
	FLANGED CONNECTION

NOTE: NOT ALL SYMBOLS APPLY TO THIS PROJECT

12/1/2020 8:57:03 AM

BEAVERTON SCHOOL DISTRICT

COOPER MOUNTAIN ELEMENTARY
7670 SW 170th AVE
BEAVERTON, OR 97007

OHPLANNING+DESIGN, ARCHITECTURE
115 NW 1st Ave, Ste, 300
Portland, OR 97209

Consultants:

KCL ENGINEERING © 2020
KCL Engineering
2175 NW Raleigh Street, Suite 110
Portland, OR, 97210

COOPER MOUNTAIN ELEMENTARY SCHOOL
SRGP IMPROVEMENTS

PERMIT/BID SET

REGISTERED PROFESSIONAL ENGINEER — OREGON — 94126 — DEC. 13, 2016 — STORMY L. SHANKS
EXPIRES: 6/30/2022

Date: 12/04/2020
Project Number: 90060
Drawn By: MK
Checked By: SLS

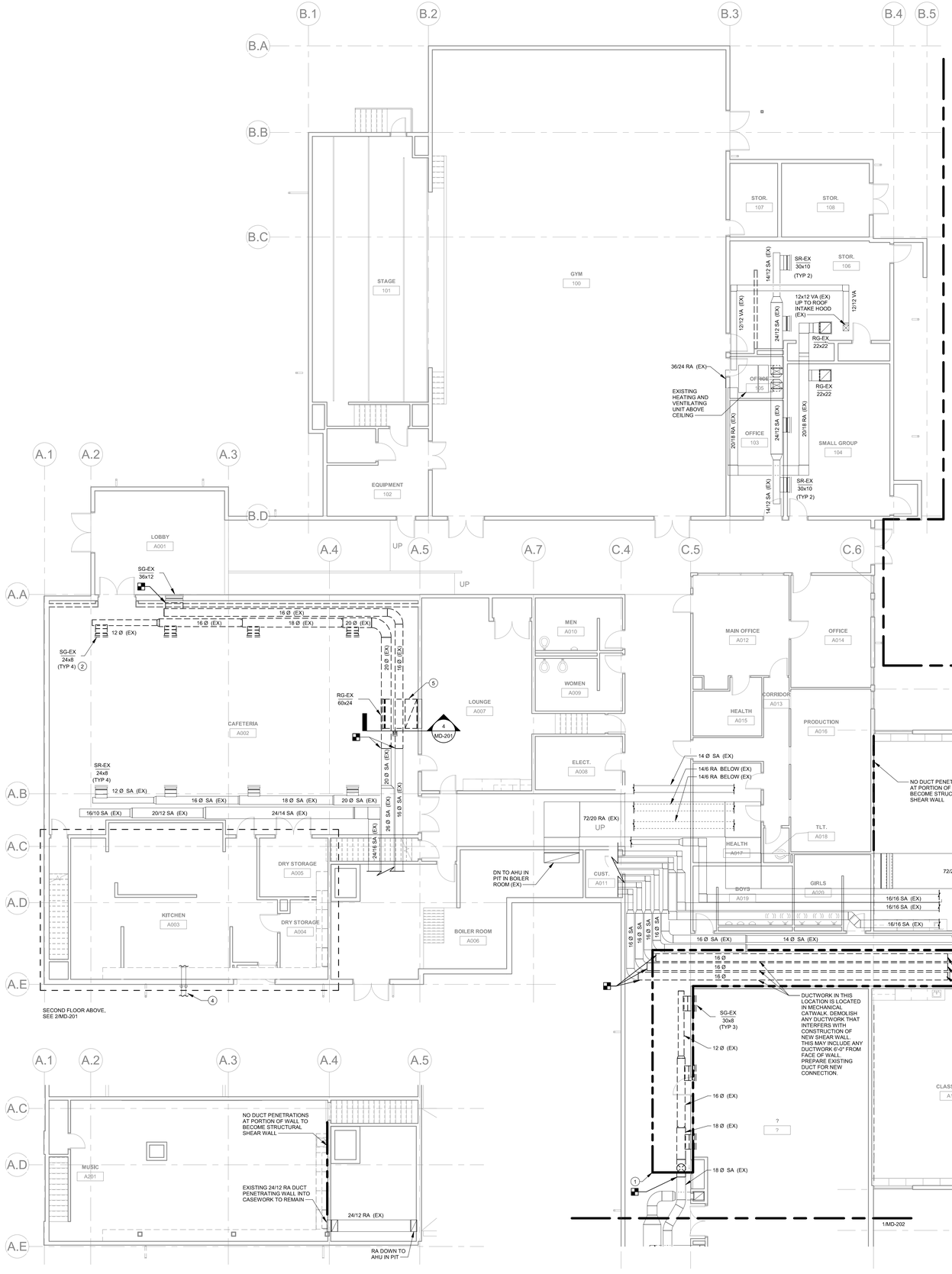
Revision Schedule:

Sheet Title:
MECHANICAL GENERAL NOTES AND SYMBOLS

Sheet Number:
M-000

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.



3 MECHANICAL DEMOLITION ROOF PLAN - AREA B
1/8" = 1'-0"

2 MECHANICAL DEMOLITION FLOOR PLAN - AREA A SECOND FLOOR
1/8" = 1'-0"

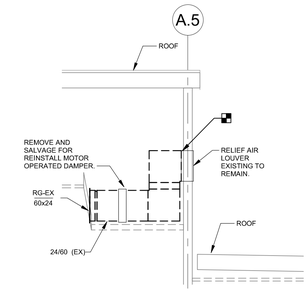
1 MECHANICAL DEMOLITION FLOOR PLAN - AREA A, B, C NORTH
1/8" = 1'-0"

GENERAL NOTES:

1. REFER TO M-000 FOR GENERAL NOTES & SYMBOLS.
2. PATCH WALLS, ROOFS, AND/OR FLOOR WHERE DUCTS, GRILLES, PIPES, OR EQUIPMENT ARE REMOVED. PAINT OR FINISH TO MATCH ORIGINAL CONSTRUCTION.
3. COORDINATE WITH OWNER AND ASBESTOS ABATEMENT CONTRACTOR FOR WORK IN AREAS CONTAINING ASBESTOS.
4. WHERE DUCTWORK IS REMOVED, REMOVE ALL ASSOCIATED SUPPORTS.
5. WHERE EQUIPMENT IS REMOVED, REMOVE ALL ASSOCIATED SUPPORTS, DUCTWORK, PIPING, AND CONTROLS.

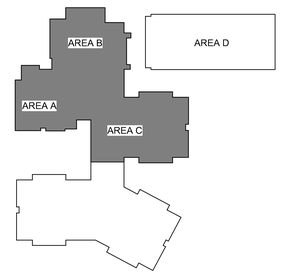
SHEET - KEYNOTES

1 DEMOLISH EXISTING DUCTWORK AND PIPING THAT WILL INTERFERE WITH CONSTRUCTION OF NEW SHEAR WALL. PREPARE TO REPLACE DEMOLISHED DUCTWORK WITH NEW TO MATCH EXISTING. FIELD VERIFY AND COORDINATE WITH STRUCTURAL IMPROVEMENTS TO DETERMINE EXTEND OF DEMO REQUIRED.
2 DEMOLISH FOUR 24x8 SUPPLY GRILLES FROM SOFFIT.
3 REMOVE AND SALVAGE FOR REINSTALLATION (2) GRAVITY RELIEF HOODS.
4 REMOVE EXISTING REFRIGERANT LINESETS FROM OUTDOOR CONDENSERS TO WALK IN COOLERS DURING CONSTRUCTION AND PREPARE FOR REINSTALLATION.
5 DEMOLISH EXISTING 60x24 RELIEF AIR GRILLE AND ASSOCIATED DUCTWORK PREPARE MOTOR OPERATED DAMPER FOR REINSTALLATION. SEE 4/MD201 FOR MORE DETAIL. PREPARE EXISTING LOUVER FOR CONNECTION TO NEW DUCTWORK.



4 EXISTING RELIEF AIR SECTION
1/4" = 1'-0"

KEY PLAN



BEAVERTON SCHOOL DISTRICT

COOPER MOUNTAIN ELEMENTARY
7670 SW 170th AVE
BEAVERTON, OR 97007

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

Consultants:

KCL ENGINEERING © 2020
KCL Engineering
2175 NW Raleigh Street, Suite 110
Portland, OR, 97210

COOPER MOUNTAIN ELEMENTARY SCHOOL
SRGP IMPROVEMENTS

PERMIT/BID SET

REGISTERED PROFESSIONAL ENGINEER
94026
OREGON
DEC. 13, 2016
STORMY L. SHANKS
EXPIRES: 6/30/2022

Date: 12/04/2020
Project Number: 90060
Drawn By: MK
Checked By: SLS

Revision Schedule:

Sheet Title:
MECHANICAL DEMOLITION PLANS - AREA A, B, C NORTH

Sheet Number:
MD-201

PERMIT/BID SET

12/1/2020 8:57:09 AM

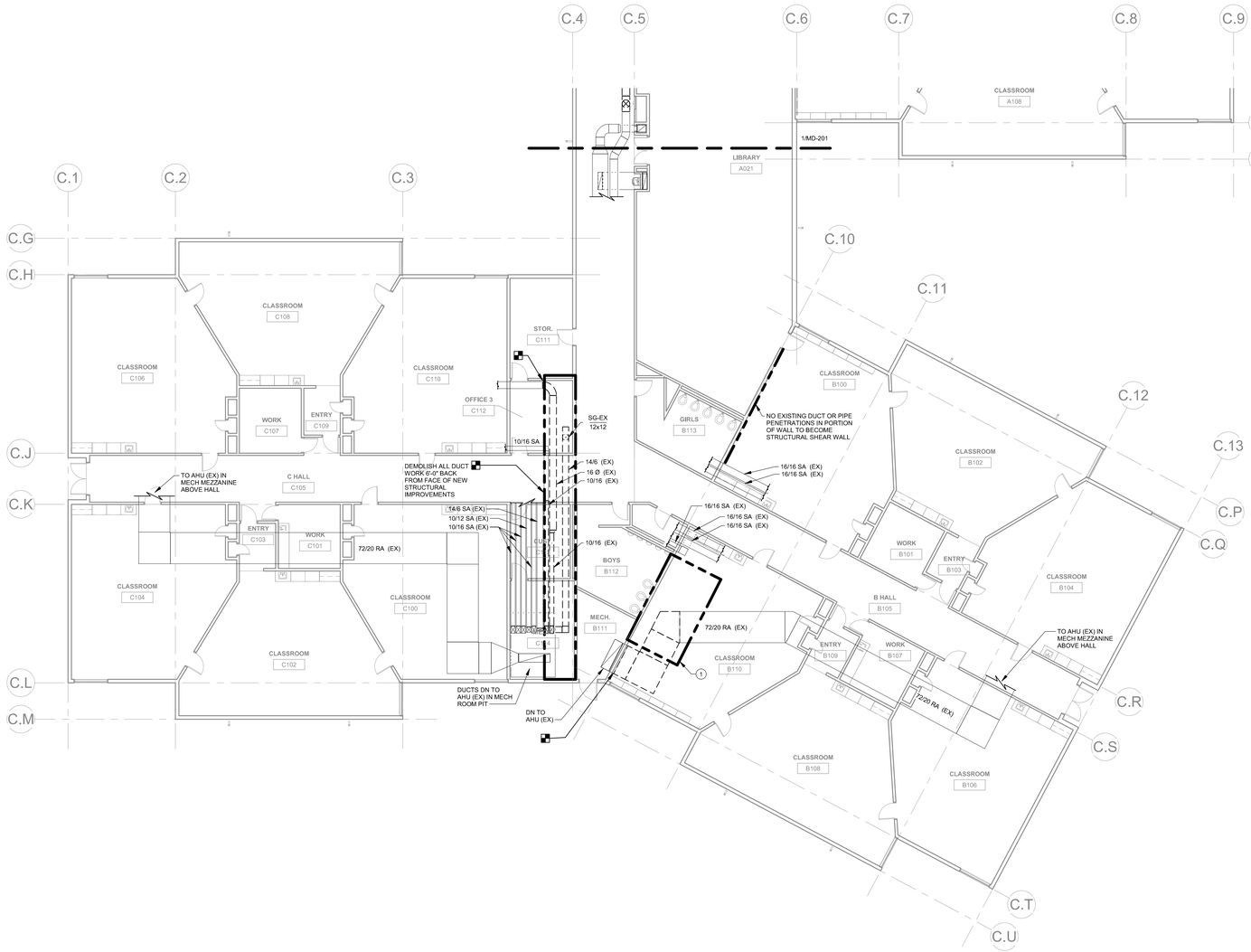
All ideas, designs, drawings, and plans set forth on these sheets are owned by and are the property of Oh planning+design, architecture. Any use, reuse, or disclosure of said plans, reproductions, ideas, designs, and/or arrangements without the written permission of Oh planning+design, architecture is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

GENERAL NOTES:

1. REFER TO M-000 FOR GENERAL NOTES & SYMBOLS.
2. PATCH WALLS, ROOFS, AND/OR FLOOR WHERE DUCTS, GRILLES, PIPES, OR EQUIPMENT ARE REMOVED. PAINT OR FINISH TO MATCH ORIGINAL CONSTRUCTION.
3. COORDINATE WITH OWNER AND ASBESTOS ABATEMENT CONTRACTOR FOR WORK IN AREAS CONTAINING ASBESTOS.
4. WHERE DUCTWORK IS REMOVED, REMOVE ALL ASSOCIATED SUPPORTS.
5. WHERE EQUIPMENT IS REMOVED, REMOVE ALL ASSOCIATED SUPPORTS, DUCTWORK, PIPING, AND CONTROLS.

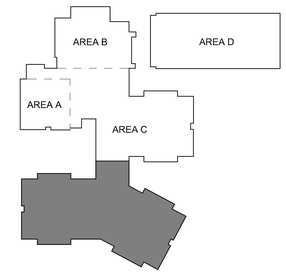
SHEET - KEYNOTES

1 DEMOLISH EXISTING DUCTWORK THAT WILL INTERFERE WITH INSTALLATION OF NEW 1/2" PLYWOOD SHEATHING. PREPARE TO REPLACE DEMOLISHED DUCTWORK WITH NEW TO MATCH EXISTING.



1 MECHANICAL DEMOLITION FLOOR PLAN - AREA C SOUTH
3/32" = 1'-0"

KEY PLAN



BEAVERTON SCHOOL DISTRICT

COOPER MOUNTAIN ELEMENTARY

7670 SW 170th AVE
BEAVERTON, OR 97007

OHPLANNING+DESIGN, ARCHITECTURE
115 NW 1st Ave, Ste, 300
Portland, OR 97209

Consultants:

KCL ENGINEERING © 2020
KCL Engineering
2175 NW Raleigh Street, Suite 110
Portland, OR, 97210

COOPER MOUNTAIN ELEMENTARY SCHOOL
SRGP IMPROVEMENTS

PERMIT/BID SET

REGISTERED PROFESSIONAL ENGINEER
94426
OREGON
DEC. 13, 2019
STORMY L. SHANKS
EXPIRES: 6/30/2022

Date:	12/04/2020
Project Number:	90060
Drawn By:	MK
Checked By:	SLS

Revision Schedule:

Sheet Title:
MECHANICAL DEMOLITION FLOOR PLAN - AREA C SOUTH

Sheet Number:
MD-202

PERMIT/BID SET

12/1/2020 8:57:11 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.

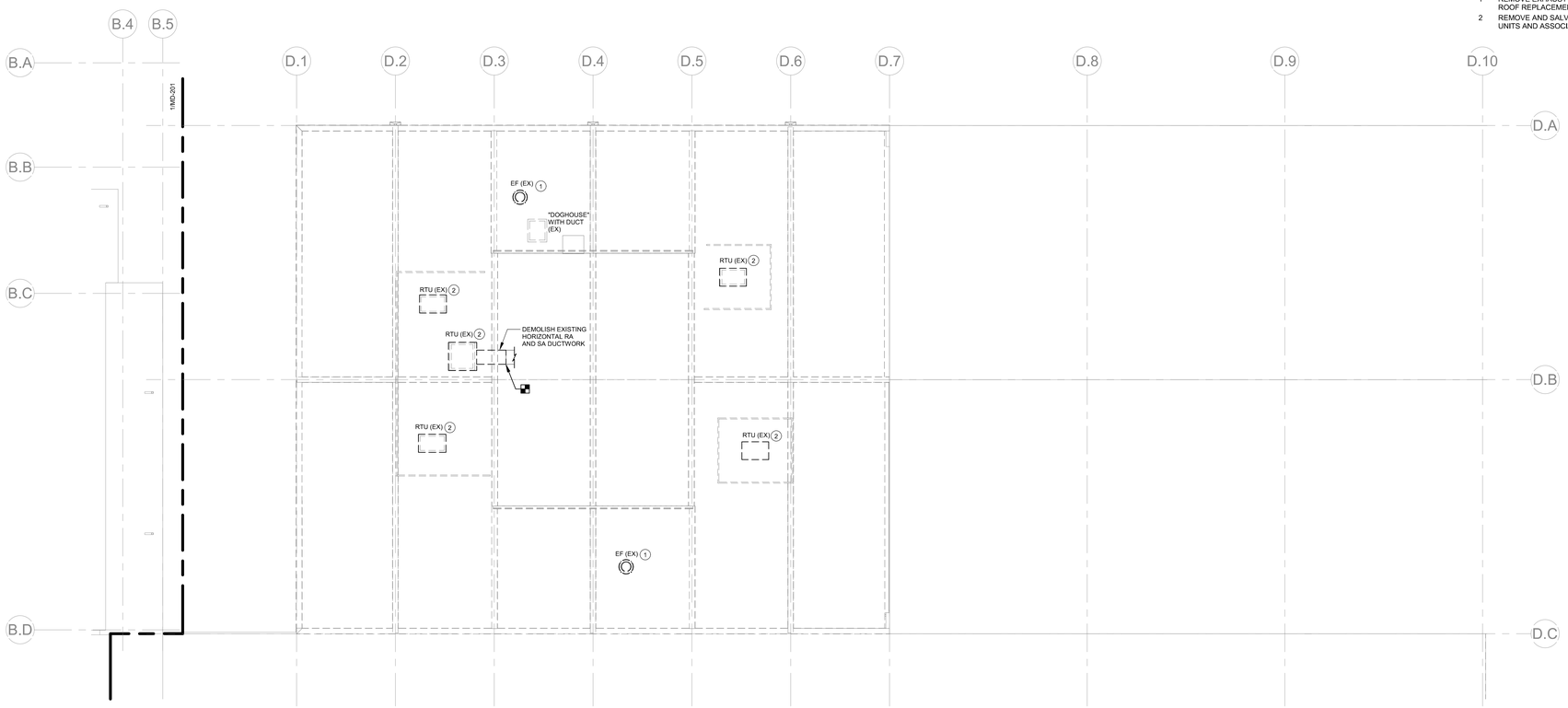
GENERAL NOTES:

1. REFER TO M-000 FOR GENERAL NOTES & SYMBOLS.
2. PATCH WALLS, ROOFS, AND/OR FLOOR WHERE DUCTS, GRILLES, PIPES, OR EQUIPMENT ARE REMOVED. PAINT OR FINISH TO MATCH ORIGINAL CONSTRUCTION.
3. COORDINATE WITH OWNER AND ASBESTOS ABATEMENT CONTRACTOR FOR WORK IN AREAS CONTAINING ASBESTOS.
4. WHERE DUCTWORK IS REMOVED, REMOVE ALL ASSOCIATED SUPPORTS.
5. WHERE EQUIPMENT IS REMOVED, REMOVE ALL ASSOCIATED SUPPORTS, DUCTWORK, PIPING, AND CONTROLS.

SHEET - KEYNOTES

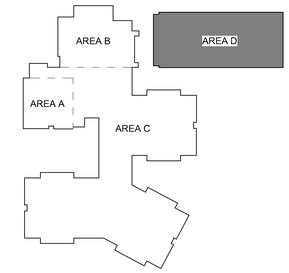
1 REMOVE EXHAUST FAN AND SALVAGE FOR REINSTALLATION FOLLOWING ROOF REPLACEMENT.

2 REMOVE AND SALVAGE FOR REINSTALLATION (5) ROOF TOP AIR HANDLING UNITS AND ASSOCIATED SCREENING.



2 MECHANICAL DEMOLITION ROOF PLAN - AREA D
1/8" = 1'-0"

KEY PLAN



BEAVERTON SCHOOL DISTRICT

COOPER MOUNTAIN ELEMENTARY
7670 SW 170th AVE
BEAVERTON, OR 97007

OHPLANNING+DESIGN, ARCHITECTURE
115 NW 1st Ave, Ste, 300
Portland, OR 97209

Consultants:

KCL ENGINEERING © 2020
KCL Engineering
2175 NW Raleigh Street, Suite 110
Portland, OR, 97210

COOPER MOUNTAIN ELEMENTARY SCHOOL
SRGP IMPROVEMENTS

PERMIT/BID SET

REGISTERED PROFESSIONAL ENGINEER 94126 OREGON DEC. 13, 2018 STORMY L. SHANKS
EXPIRES: 6/30/2022

Date: 12/04/2020
Project Number: 90060
Drawn By: MK
Checked By: SLS

Revision Schedule:

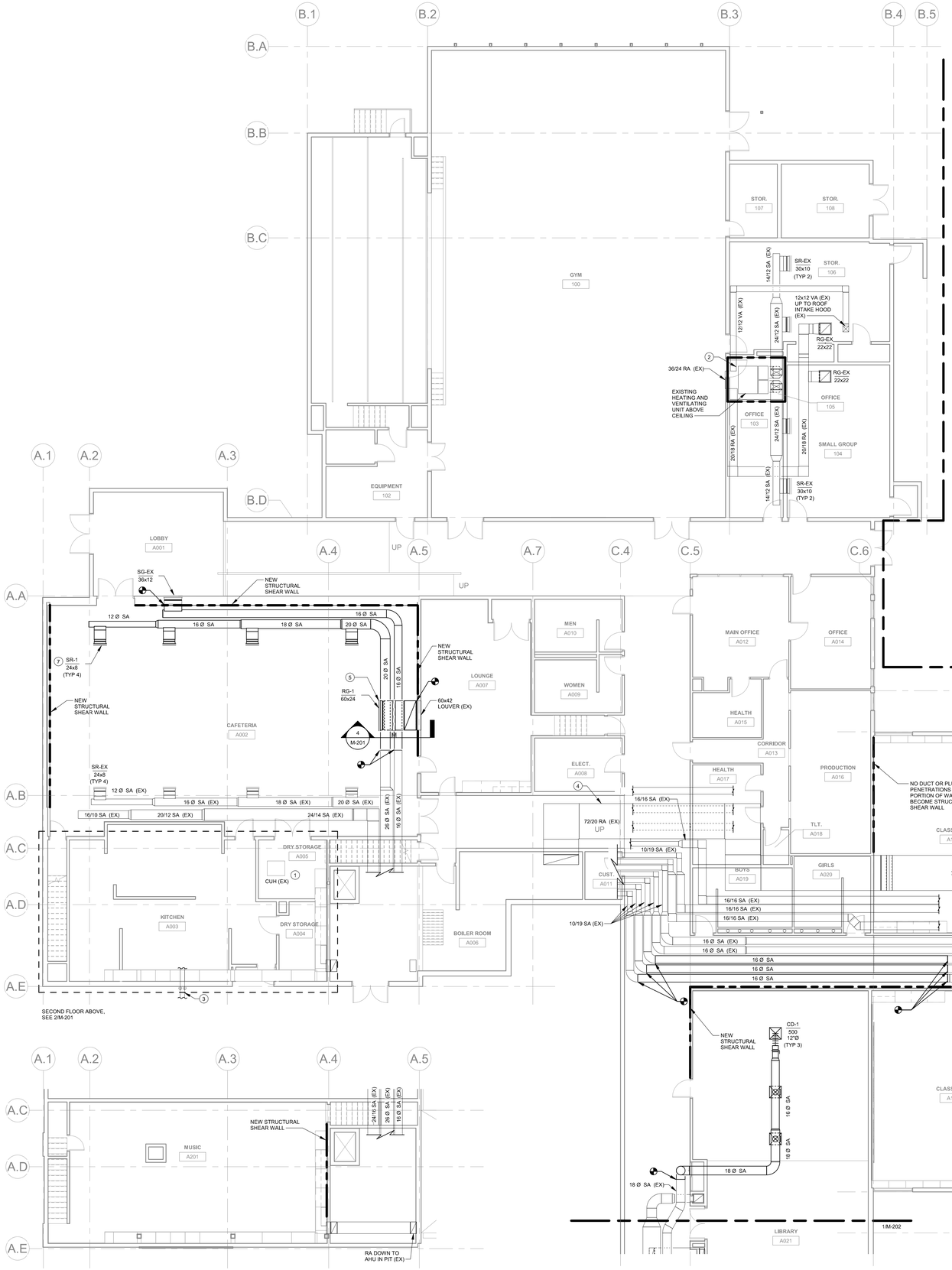
Sheet Title:
MECHANICAL DEMOLITION PLANS - AREA D

Sheet Number:
MD-203

PERMIT/BID SET

12/1/2020 8:57:11 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.



2 MECHANICAL FLOOR PLAN - AREA A SECOND FLOOR
1/8" = 1'-0"

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

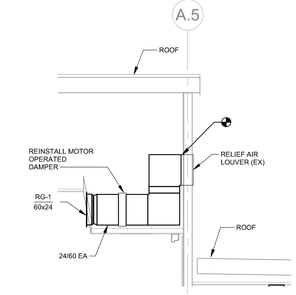
3 MECHANICAL ROOF PLAN - AREA B
1/8" = 1'-0"

GENERAL NOTES:

1. REFER TO M-000 FOR GENERAL NOTES & SYMBOLS.
2. REFER TO M-300 FOR MECHANICAL DETAILS.
3. REFER TO M-500 FOR MECHANICAL SCHEDULES.
4. BRANCH DUCTS TO AIR TERMINALS TO MATCH NECK SIZE OF GRILLE, REGISTER OR DIFFUSER UNLESS OTHERWISE NOTED.
5. MAXIMUM FLEXIBLE DUCT LENGTH TO DIFFUSER IS 60".

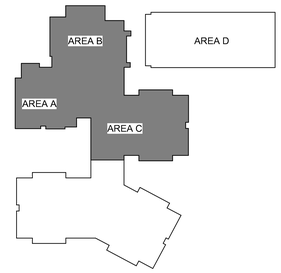
SHEET - KEYNOTES

1 INSTALL SEISMIC CONTROLS AT EXISTING SUSPENDED CABINET UNIT HEATER
2 ADD SEISMIC CONTROLS AT HEATING AND VENTILATING UNIT AND HEATING COILS SUSPENDED FROM ROOF STRUCTURE ABOVE THE OFFICE CEILING.
3 RECONNECT EXISTING REFRIGERANT LINESETS FROM OUTDOOR CONDENSERS TO WALK-IN COOLERS AFTER CONSTRUCTION.
4 INSTALL SEISMIC CONTROLS ON 72/20 RETURN AIR DUCT. ITS CROSS SECTIONAL AREA EXCEEDS 6 SQ. FT.
5 INSTALL NEW 60x24 RELIEF AIR GRILLE, 60x24 DUCTWORK. REINSTALL EXISTING MOTOR OPERATED DAMPER. CEILING ACCESS PANEL BY OTHERS FOR DAMPER ACTUATOR ACCESS. CONFIRM ACTUATOR LOCATION IN THE FIELD AND COORDINATE WITH ARCHITECT. SEE 4/M201 FOR MORE DETAIL.
6 REINSTALL EXISTING ROOF MOUNTED RELIEF HOOD ON NEW ROOF CURB.
7 INSTALL SUPPLY REGISTER IN SIDEWALL OF CEILING SOFFIT. INSTALL AT THE SAME ELEVATION AND DIRECTLY ACROSS FROM EXISTING REGISTERS TO REMAIN ON SOUTH WALL.



4 RELIEF AIR SECTION
1/4" = 1'-0"

KEY PLAN



12/1/2020 8:57:04 AM

BEAVERTON SCHOOL DISTRICT

COOPER MOUNTAIN ELEMENTARY
7670 SW 170th AVE
BEAVERTON, OR 97007

OHPLANNING+DESIGN, ARCHITECTURE
115 NW 1st Ave, Ste, 300
Portland, OR 97209

Consultants:

KCL ENGINEERING © 2020
KCL Engineering
2175 NW Raleigh Street, Suite 110
Portland, OR, 97210

COOPER MOUNTAIN ELEMENTARY SCHOOL
SRGP IMPROVEMENTS

PERMIT/BID SET

REGISTERED PROFESSIONAL ENGINEER
94126
OREGON
DEC. 13, 2016
STORMY L. SHANKS
EXPIRES: 6/30/2022

Date: 12/04/2020
Project Number: 90060
Drawn By: MK
Checked By: SLS

Revision Schedule:

Sheet Title:
MECHANICAL PLANS - AREA A, B, C NORTH

Sheet Number:
M-201

PERMIT/BID SET

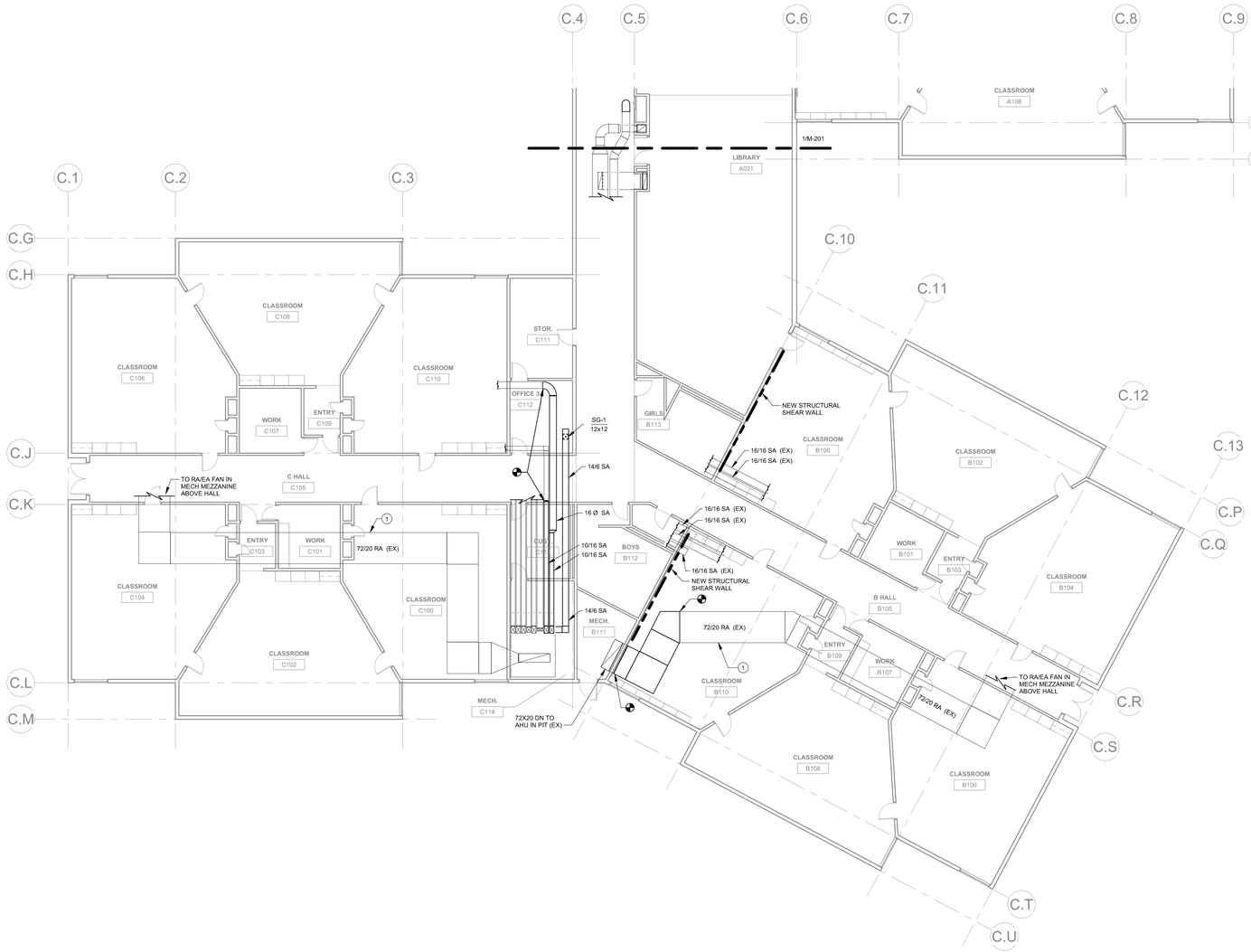
All ideas, designs, drawings, and plans set forth on these sheets are owned by and are the property of Oh planning+design, architecture. Any use, reuse, or disclosure of said plans, reproductions, ideas, designs, and/or arrangements without the written permission of Oh planning+design, architecture is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

GENERAL NOTES:

1. REFER TO M-000 FOR GENERAL NOTES & SYMBOLS.
2. REFER TO M-300 FOR MECHANICAL DETAILS.
3. REFER TO M-500 FOR MECHANICAL SCHEDULES.
4. BRANCH DUCTS TO AIR TERMINALS TO MATCH NECK SIZE OF GRILLE, REGISTER OR DIFFUSER UNLESS OTHERWISE NOTED.
5. MAXIMUM FLEXIBLE DUCT LENGTH TO DIFFUSER IS 60".

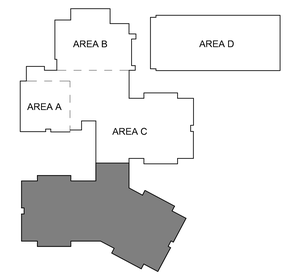
SHEET - KEYNOTES

1 INSTALL SEISMIC CONTROLS ON 72/20 RETURN AIR DUCT. ITS CROSS SECTIONAL AREA EXCEEDS 6 SQ. FT.



1 MECHANICAL FLOOR PLAN - AREA C SOUTH
3/32" = 1'-0"

KEY PLAN



BEAVERTON SCHOOL DISTRICT

COOPER MOUNTAIN ELEMENTARY

7670 SW 170th AVE
BEAVERTON, OR 97007

OHPLANNING+DESIGN, ARCHITECTURE
115 NW 1st Ave, Ste, 300
Portland, OR 97209

Consultants:

KCL ENGINEERING © 2020
KCL Engineering
2175 NW Raleigh Street, Suite 110
Portland, OR, 97210

COOPER MOUNTAIN ELEMENTARY SCHOOL
SRGP IMPROVEMENTS

PERMIT/BID SET

REGISTERED PROFESSIONAL ENGINEER
94026
OREGON
DEC. 13, 2018
STORMY L. SHANKS
EXPIRES: 6/30/2022

Date: 12/04/2020
Project Number: 90060
Drawn By: MK
Checked By: SLS

Revision Schedule:

Sheet Title:
MECHANICAL FLOOR PLAN - AREA C SOUTH

Sheet Number:
M-202

PERMIT/BID SET

12/1/2020 8:57:05 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.

GENERAL NOTES:

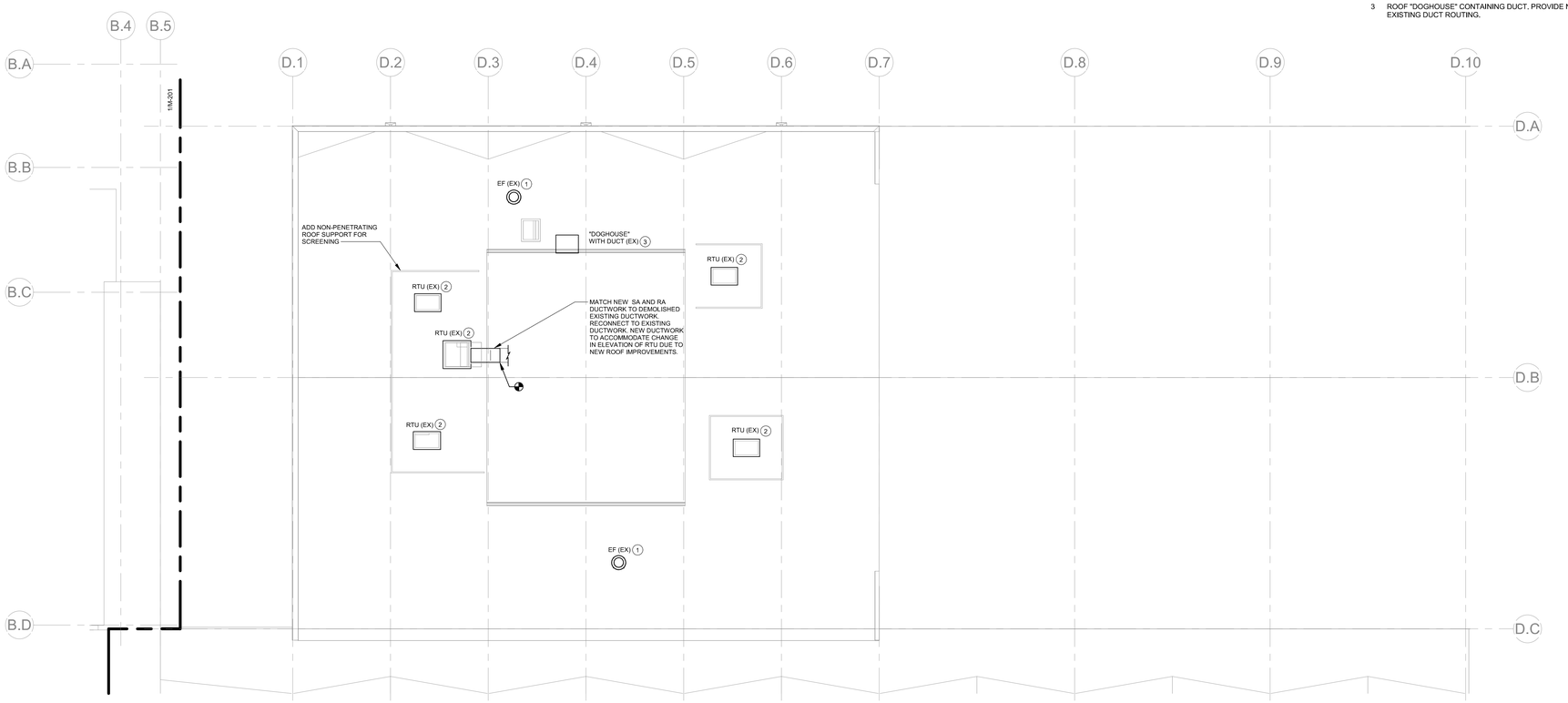
1. REFER TO M-000 FOR GENERAL NOTES & SYMBOLS.
2. REFER TO M-300 FOR MECHANICAL DETAILS.
3. REFER TO M-500 FOR MECHANICAL SCHEDULES.
4. BRANCH DUCTS TO AIR TERMINALS TO MATCH NECK SIZE OF GRILLE, REGISTER OR DIFFUSER UNLESS OTHERWISE NOTED.
5. MAXIMUM FLEXIBLE DUCT LENGTH TO DIFFUSER IS 60".

SHEET - KEYNOTES

1 REINSTALL EXHAUST FANS. PROVIDE NEW CURBS 12" HIGH ABOVE ROOF SURFACE.

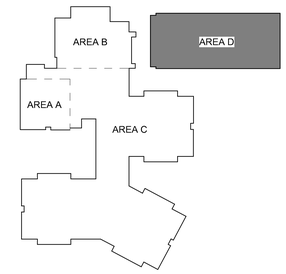
2 REINSTALL ROOFTOP HVAC UNITS AND SCREENING. PROVIDE NEW ROOF CURB 12" HIGH ABOVE ROOF SURFACE. RECONNECT DUCTWORK TO EXISTING. CLEAN AND COMB RTU CONDENSER FINS. CLEAN OUTDOOR AIR SCREENS. REPLACE CONDENSATE TRAPS. RECONNECT CONTROLS WIRING AND DUCTWORK.

3 ROOF "DOGHOUSE" CONTAINING DUCT. PROVIDE NEW CURB AND ENCLOSURE TO MAINTAIN EXISTING DUCT ROUTING.



② MECHANICAL ROOF PLAN - AREA D
1/8" = 1'-0"

KEY PLAN



BEAVERTON SCHOOL DISTRICT

COOPER MOUNTAIN ELEMENTARY
7670 SW 170th AVE
BEAVERTON, OR 97007

OHPLANNING+DESIGN, ARCHITECTURE
115 NW 1st Ave, Ste, 300
Portland, OR 97209

Consultants:

KCL ENGINEERING © 2020
KCL Engineering
2175 NW Raleigh Street, Suite 110
Portland, OR, 97210

COOPER MOUNTAIN ELEMENTARY SCHOOL
SRGP IMPROVEMENTS

PERMIT/BID SET

REGISTERED PROFESSIONAL ENGINEER 94126 OREGON DEC. 13, 2018 STORMY L. SHANKS
EXPIRES: 6/30/2022

Date:	12/04/2020
Project Number:	90060
Drawn By:	MK
Checked By:	SLS

Revision Schedule:

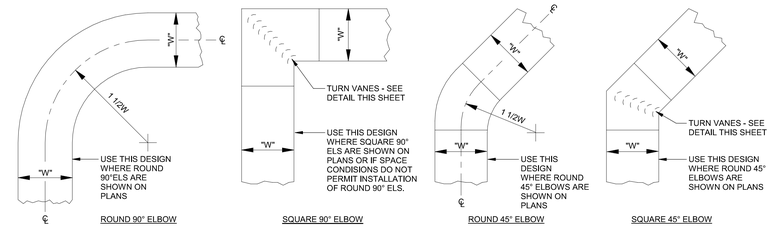
Sheet Title:
MECHANICAL PLANS - AREA D

Sheet Number:
M-203

PERMIT/BID SET

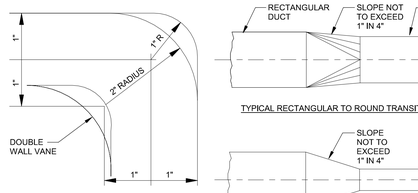
12/1/2020 8:57:05 AM

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.



CONSTRUCTION OF 90° ELBOWS

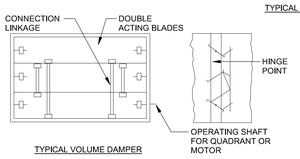
CONSTRUCTION OF 45° ELBOWS



DETAIL OF TURN VANES

TYPICAL RECTANGULAR TO ROUND TRANSITION

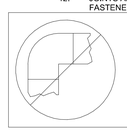
TYPICAL RECTANGULAR TRANSITION



TYPICAL VOLUME DAMPER

INSTALLATION NOTES:

1. ALL DUCTS SHALL BE CONSTRUCTED AND ERECTED IN A NEAT AND WORKMANLIKE MANNER.
2. DUCTS SHALL BE CONSTRUCTED OF THE WEIGHTS, GAGES AND MATERIAL AS SPECIFIED.
3. THE DIMENSION SHOWN FOR ALL DUCTS SHOWN IN PLAN GIVE THE WIDTH FIRST AND THEN THE HEIGHT.
4. DUCT RISERS SHOULD BE SUPPORTED BY ANGLES AT EVERY FLOOR.
5. AIR TURN SHALL BE INSTALLED IN ALL ABRUPT ELBOWS TO PREVENT TURBULENCE.
6. DUCTS SHALL BE SECURELY ATTACHED TO THE BUILDING CONSTRUCTION IN AN APPROVED MANNER.
7. DIVERGING TRANSITION PIECES SHALL BE MADE AS GRADUAL AS POSSIBLE.
8. INSTALL FIRE DAMPERS IN ACCORDANCE TO ALL APPLICABLE REQUIREMENTS INCLUDING UL 555.
9. ACCESS PANELS SHOULD BE PLACED BEFORE AND/OR AFTER EQUIPMENT INSTALLED IN THE DUCT.
10. DUCT AREA SHOULD NOT BE DECREASED MORE THAN 10 PERCENT WHEN OBSTRUCTIONS CANNOT BE AVOIDED, AND THEN A STREAMLINED FITTING SHOULD BE USED.
11. FLEXIBLE FABRIC CONNECTIONS (OR EQUAL) SHOULD BE USED ON BOTH INLETS AND OUTLETS OF ALL FANS AND AIR HANDLING UNITS.
12. JOINTS AND SEAMS OF SUPPLY DUCTS SHALL BE FASTENED SECURELY AND MADE AIR TIGHT.



RADIUS ELBOW WITH SQUARE THROAT NOT ALLOWED

USAGE OF THIS TYPE OF ELBOW WILL RESULT IN REMOVAL AND REPLACEMENT WITH RADIUS ELBOW OR VANED MITERED ELBOW AT CONTRACTOR'S EXPENSE.

① LOW VELOCITY DUCT LAYOUT DETAILS

GRILLES REGISTERS AND DIFFUSERS SCHEDULE

REFERENCE	MATERIAL	MARGIN (IN)	INLET (IN)	FACE (IN)	DAMPER	MFR	MODEL	NOTES
SR-1 (SUPPLY REGISTER)	STEEL	1 1/4"	SEE DWG	INLET +2"	YES	TITUS	300	2,3
CD-1 (SUPPLY DIFFUSER)	STEEL	NA	SEE DWG	24x24	NO	TITUS	OMNI	1,2
RG-1 (RETURN GRILLE)	STEEL	1 1/4"	SEE DWG	INLET +2"	NO	TITUS	350	1,2

NOTES:
1. REFER TO ARCH DRAWINGS FOR FINAL CEILING TYPE FOR MOUTING TYPE.
2. PROVIDE WITH WHITE FINISH.
3. PROVIDE WITH OPPOSED BLADE DAMPER

DUCTWORK AND INSULATION SCHEDULE

SYSTEM	LOCATION	MATERIAL (NOTE 1)	PRESSURE CLASS, IN W.C. (NOTE 1)	SEAL CLASS (NOTE 3)	LEAKAGE CLASS (NOTE 3)	INSULATION THICKNESS AND TYPE (NOTE 2)					NOTES
						INSULATION THICKNESS (INCHES)	INTERIOR LINER	FLEXIBLE WRAP	DOUBLE-WALL INSULATED	RIGID BOARD	
EXHAUST - RECTANGULAR	INTERIOR	G60 GALVANIZED STEEL	-2	A	12	--					4
EXHAUST - ROUND	INTERIOR	G60 GALVANIZED STEEL	-2	A	6	--					4
RETURN - RECTANGULAR	INTERIOR	G60 GALVANIZED STEEL	-2	A	12	1				X	4
RETURN - ROUND	INTERIOR	G60 GALVANIZED STEEL	-2	A	6	1		X			4
SUPPLY - LOW PRESSURE RECTANGULAR	INTERIOR	G60 GALVANIZED STEEL	+2	A	12	1				X	4
SUPPLY - LOW PRESSURE ROUND	INTERIOR	G60 GALVANIZED STEEL	+2	A	6	1		X			4

NOTES:
1. DUCT WORK MATERIAL AND CONSTRUCTION SHALL MEET SMACNA DUCT CONSTRUCTION STANDARDS, AND BE MINIMUM 26 GAUGE UNLESS NOTED OTHERWISE. REFER TO SPECIFICATIONS FOR FURTHER REQUIREMENTS.
2. REFER TO SPECIFICATIONS FOR FURTHER INSULATION REQUIREMENTS. INSULATION SHALL MEET ASHRAE 90,1-2016 MINIMUM R-VALUE.
3. SEAL AND LEAKAGE CLASS BASED ON SMACNA HVAC DUCT CONSTRUCTION STANDARDS.
4. NEW DUCTWORK THAT REPLACES DEMOLISHED DUCTWORK SHALL BE OF SHEET METAL WITH INSULATION THAT MATCHES THE EXISTING DEMOLISHED DUCTWORK TO THE EXTENT POSSIBLE.

12/1/2020 8:57:06 AM

BEAVERTON SCHOOL DISTRICT

COOPER MOUNTAIN ELEMENTARY
7670 SW 170th AVE
BEAVERTON, OR 97007

OHPLANNING+DESIGN, ARCHITECTURE
115 NW 1st Ave, Ste, 300
Portland, OR 97209

Consultants:

KCL ENGINEERING © 2020
KCL Engineering
2175 NW Raleigh Street, Suite 110
Portland, OR, 97210

COOPER MOUNTAIN ELEMENTARY SCHOOL
SRGP IMPROVEMENTS

PERMIT/BID SET

REGISTERED PROFESSIONAL ENGINEER 94126 OREGON DEC. 13, 2018 STORMY L. SHANKS
EXPIRES: 6/30/2022

Date: 12/04/2020
Project Number: 90060
Drawn By: MK
Checked By: SLS

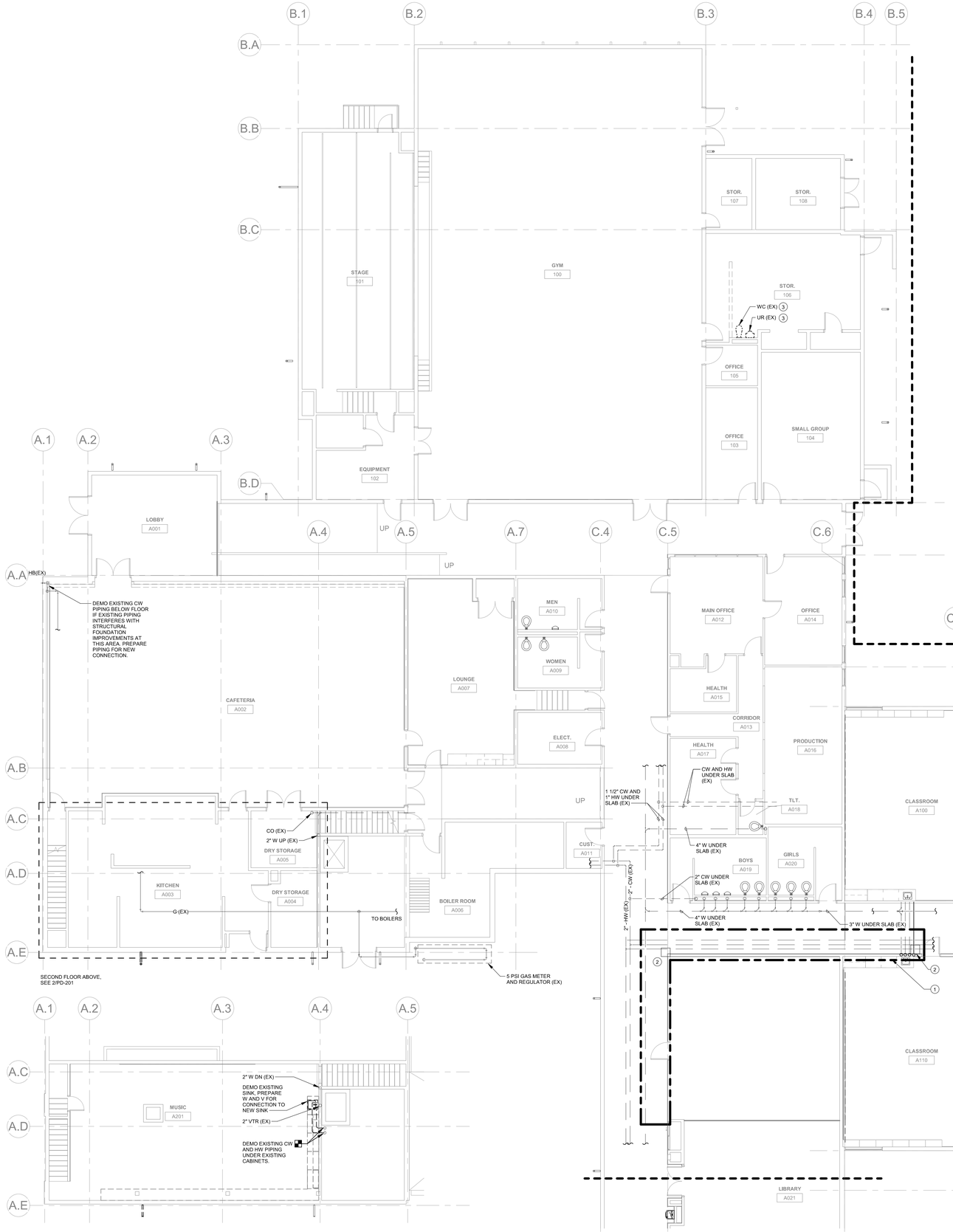
Revision Schedule:

Sheet Title:
MECHANICAL DETAILS

Sheet Number:
M-300

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.



2 PLUMBING DEMILITION FLOOR PLAN - AREA A SECOND FLOOR
1/8" = 1'-0"

1 PLUMBING DEMOLITION FLOOR PLAN - AREA B
1/8" = 1'-0"

GENERAL NOTES:

1. REFER TO M-000 FOR GENERAL NOTES & SYMBOLS.
2. PATCH WALLS, ROOFS, AND/OR FLOOR WHERE DUCTS, GRILLES, PIPES, OR EQUIPMENT ARE REMOVED. PAINT OR FINISH TO MATCH ORIGINAL CONSTRUCTION.
3. COORDINATE WITH OWNER AND ASBESTOS ABATEMENT CONTRACTOR FOR WORK IN AREAS CONTAINING ASBESTOS.
4. WHERE DUCTWORK IS REMOVED, REMOVE ALL ASSOCIATED SUPPORTS.
5. WHERE EQUIPMENT IS REMOVED, REMOVE ALL ASSOCIATED SUPPORTS, DUCTWORK, PIPING, AND CONTROLS.

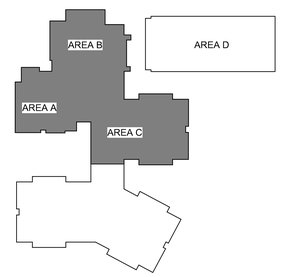
SHEET - KEYNOTES

1 DEMOLISH ALL PLUMBING THAT WILL INTERFERE WITH CONSTRUCTION OF NEW SHEAR WALL.

2 STRUCTURAL FOUNDATION FOOTING TO BE ADDED AT THIS LOCATION. IF EXISTING PIPING BELOW THE SLAB CONFLICTS WITH NEW STRUCTURAL FOOTING, DEMOLISH CONFLICTING PIPE AND PREPARE TO REROUTE AROUND NEW FOOTING.

3 DEMOLISH FIXTURE ON WALL. DEMOLISH CW AND V BACK TO MAIN AND CAP. DEMOLISH SAN TO BEHIND WALL OR BELOW FLOOR AND CAP.

KEY PLAN



BEAVERTON SCHOOL DISTRICT

COOPER MOUNTAIN ELEMENTARY
7670 SW 170th AVE
BEAVERTON, OR 97007

OHPLANNING+DESIGN, ARCHITECTURE
115 NW 1st Ave, Ste, 300
Portland, OR 97209

Consultants:

KCL ENGINEERING © 2020
KCL Engineering
2175 NW Raleigh Street, Suite 110
Portland, OR, 97210

COOPER MOUNTAIN ELEMENTARY SCHOOL
SRGP IMPROVEMENTS

PERMIT/BID SET

REGISTERED PROFESSIONAL ENGINEER 94126 OREGON NOV. 13, 2018 STORMY L. SHANKS
EXPIRES: 6/30/2022

Date: 12/04/2020
Project Number: 90060
Drawn By: MK
Checked By: SLS

Revision Schedule:

Sheet Title:
PLUMBING DEMO FLOOR PLAN - AREA A, B. C NORTH

Sheet Number:
PD-201

PERMIT/BID SET

12/1/2020 8:57:17 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.

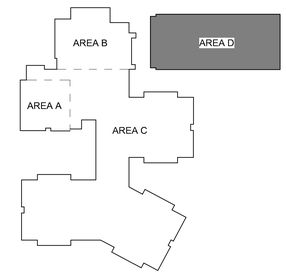
GENERAL NOTES:

1. REFER TO M-000 FOR GENERAL NOTES & SYMBOLS.
2. PATCH WALLS, ROOFS, AND/OR FLOOR WHERE DUCTS, GRILLES, PIPES, OR EQUIPMENT ARE REMOVED. PAINT OR FINISH TO MATCH ORIGINAL CONSTRUCTION.
3. COORDINATE WITH OWNER AND ASBESTOS ABATEMENT CONTRACTOR FOR WORK IN AREAS CONTAINING ASBESTOS.
4. WHERE DUCTWORK IS REMOVED, REMOVE ALL ASSOCIATED SUPPORTS.
5. WHERE EQUIPMENT IS REMOVED, REMOVE ALL ASSOCIATED SUPPORTS, DUCTWORK, PIPING, AND CONTROLS.



1 PLUMBING DEMOLITION FLOOR PLAN - ZONE D
1/8" = 1'-0"

KEY PLAN



BEAVERTON SCHOOL DISTRICT

COOPER MOUNTAIN ELEMENTARY
7670 SW 170th AVE
BEAVERTON, OR 97007

OHPLANNING+DESIGN, ARCHITECTURE
115 NW 1st Ave, Ste, 300
Portland, OR 97209

Consultants:

KCL ENGINEERING © 2020
KCL Engineering
2175 NW Raleigh Street, Suite 110
Portland, OR, 97210

COOPER MOUNTAIN ELEMENTARY SCHOOL
SRGP IMPROVEMENTS

PERMIT/BID SET

REGISTERED PROFESSIONAL ENGINEER 94126 OREGON NOV. 13, 2018 STORMY L. SHANKS
EXPIRES: 6/30/2022

Date:	12/04/2020
Project Number:	90060
Drawn By:	MK
Checked By:	SLS

Revision Schedule:

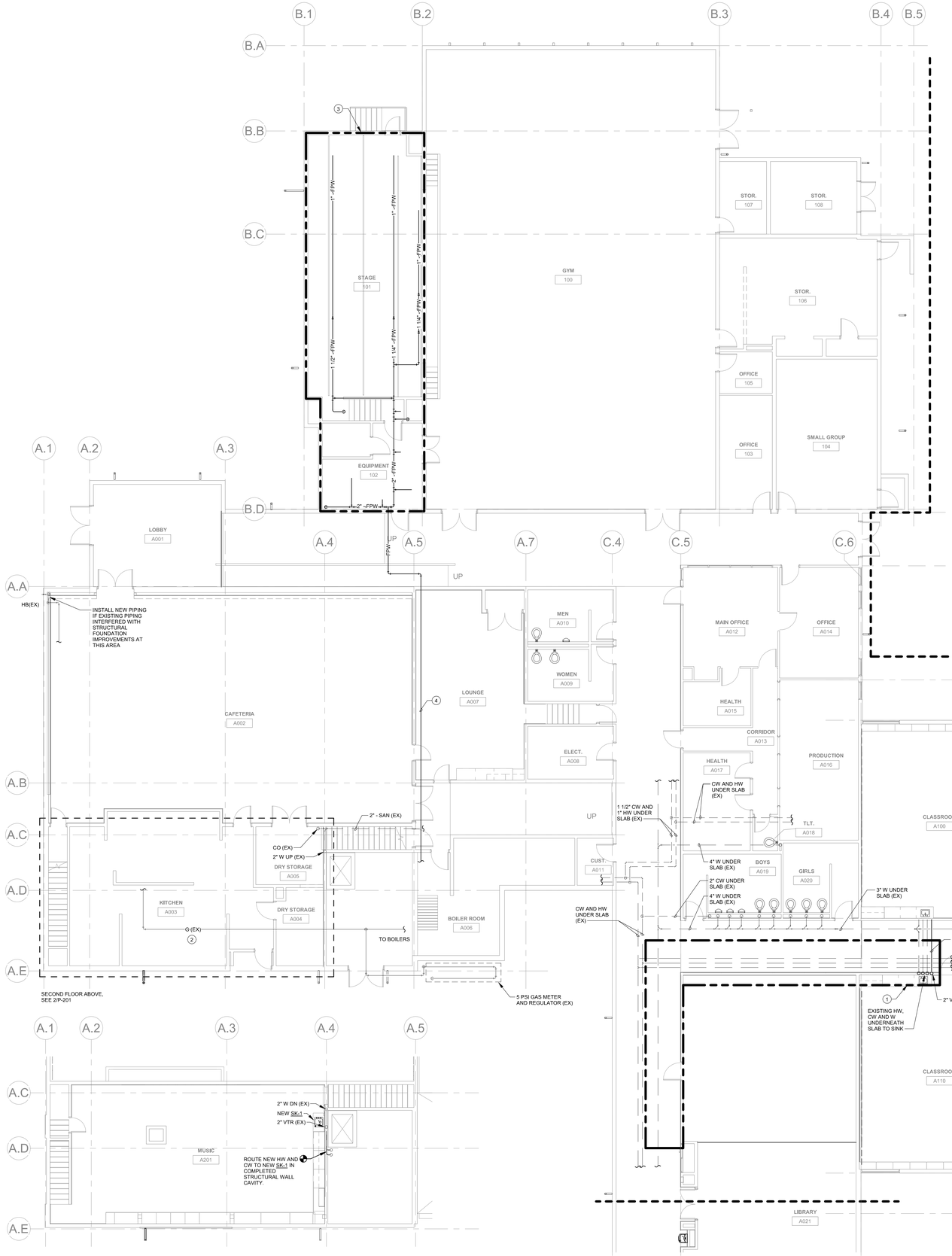
Sheet Title:
PLUMBING DEMOLITION FLOOR PLAN - AREA D

Sheet Number:
PD-203

PERMIT/BID SET

12/1/2020 8:57:17 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 PLUMBING FLOOR PLAN - AREA A SECOND FLOOR
1/8" = 1'-0"

1 PLUMBING FLOOR PLANS - AREA B
1/8" = 1'-0"

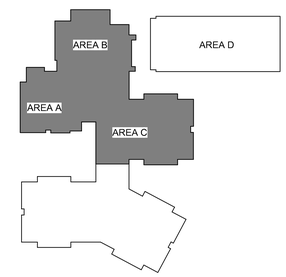
GENERAL NOTES:

1. REFER TO M-000 FOR GENERAL NOTES & SYMBOLS.
2. REFER TO P-300 FOR PLUMBING DETAILS.
3. REFER TO P-500 FOR PLUMBING SCHEDULES.
4. COORDINATE PIPE ROUTING WITH DUCTWORK. DUCTWORK HAS PRIORITY OVER PRESSURE PIPING.
5. BRANCH PIPING SHALL BE TAKEN OFF THE TOP OF MAIN PIPING.

SHEET - KEYNOTES

1 DEMOLISH AND RELOCATE ANY PLUMBING THAT WILL INTERFERE WITH NEW STRUCTURAL FOOTINGS. REPLACE ALL DEMOLISHED PLUMBING WITH NEW. COORDINATE NEW LOCATIONS WITH STRUCTURAL FOOTINGS.
2 ADD SEISMIC CONTROLS AT ALL EXISTING GAS PIPING IN KITCHEN AND BOILER ROOM.
3 INSTALL SEISMIC CONTROLS ON FIRE SPRINKLER PIPING IN STAGE AREA.
4 INSTALL SEISMIC CONTROLS ON FIRE SPRINKLER PIPING.

KEY PLAN



BEAVERTON SCHOOL DISTRICT

COOPER MOUNTAIN ELEMENTARY
7670 SW 170th AVE
BEAVERTON, OR 97007

OHPLANNING+DESIGN, ARCHITECTURE
115 NW 1st Ave, Ste, 300
Portland, OR 97209

Consultants:

KCL ENGINEERING © 2020
KCL Engineering
2175 NW Raleigh Street, Suite 110
Portland, OR, 97210

COOPER MOUNTAIN ELEMENTARY SCHOOL
SRGP IMPROVEMENTS

PERMIT/BID SET

REGISTERED PROFESSIONAL ENGINEER 94126 OREGON NOV. 13, 2018 STORMY L. SHANKS
EXPIRES: 6/30/2022

Date:	12/04/2020
Project Number:	90060
Drawn By:	MK
Checked By:	SLS

Revision Schedule:

Sheet Title:
PLUMBING FLOOR PLAN - AREA A, B, C NORTH

Sheet Number:
P-201

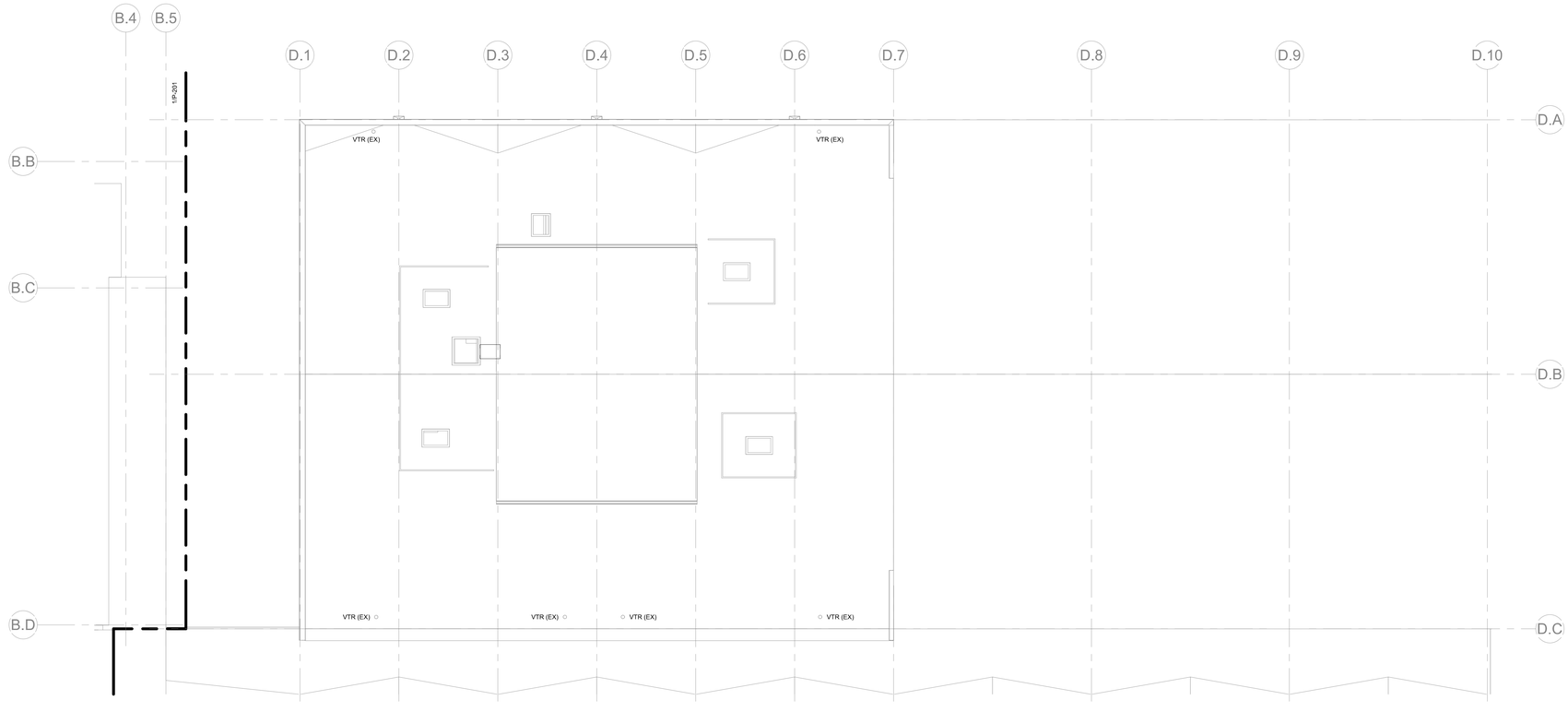
PERMIT/BID SET

12/1/2020 8:57:15 AM

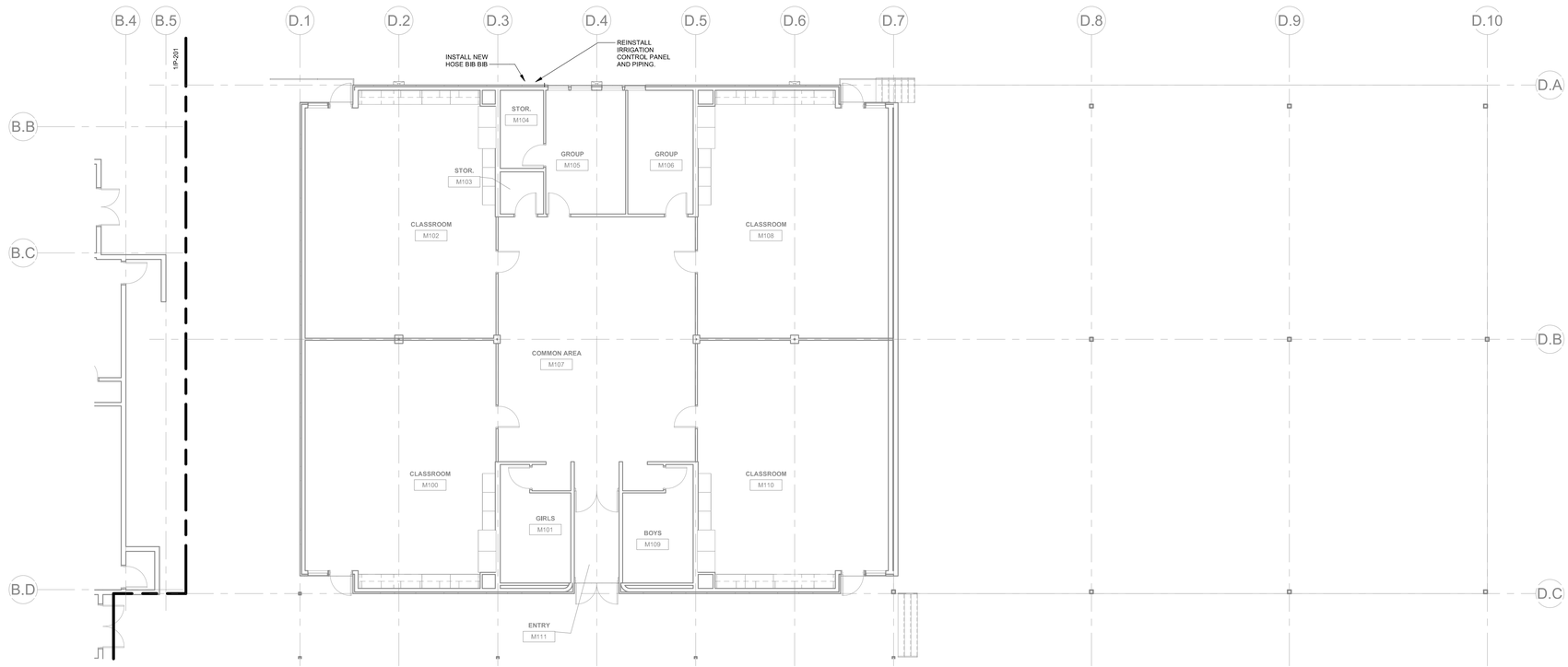
All ideas, designs, drawings, and plans set forth on these sheets are owned by and are the property of Oh planning+design, architecture. Any use, reuse, or disclosure of said plans, reproductions, ideas, designs, and/or arrangements without the written permission of Oh planning+design, architecture is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

GENERAL NOTES:

1. REFER TO M-000 FOR GENERAL NOTES & SYMBOLS.
2. REFER TO P-300 FOR PLUMBING DETAILS.
3. REFER TO P-500 FOR PLUMBING SCHEDULES.
4. COORDINATE PIPE ROUTING WITH DUCTWORK. DUCTWORK HAS PRIORITY OVER PRESSURE PIPING.
5. BRANCH PIPING SHALL BE TAKEN OFF THE TOP OF MAIN PIPING.

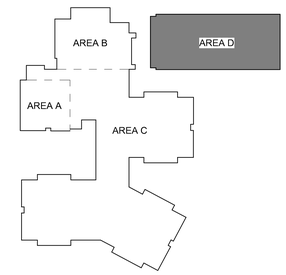


1 PLUMBING ROOF PLAN - AREA D
1/8" = 1'-0"



2 MECHANICAL FLOOR PLAN - AREA D
1/8" = 1'-0"

KEY PLAN



BEAVERTON SCHOOL DISTRICT

COOPER MOUNTAIN ELEMENTARY
7670 SW 170th AVE
BEAVERTON, OR 97007

OHPLANNING+DESIGN, ARCHITECTURE
115 NW 1st Ave, Ste, 300
Portland, OR 97209

Consultants:

KCL ENGINEERING © 2020
KCL Engineering
2175 NW Raleigh Street, Suite 110
Portland, OR, 97210

COOPER MOUNTAIN ELEMENTARY SCHOOL
SRGP IMPROVEMENTS

PERMIT/BID SET

REGISTERED PROFESSIONAL ENGINEER
94026
OREGON
DEC. 13, 2018
STORMY L. SHANKS
EXPIRES: 6/30/2022

Date:	12/04/2020
Project Number:	90060
Drawn By:	MK
Checked By:	SLS

Revision Schedule:

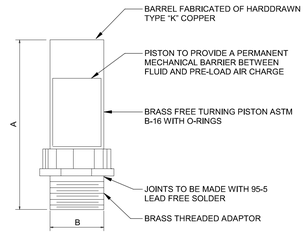
Sheet Title:
PLUMBING FLOOR PLAN - AREA D

Sheet Number:
P-203

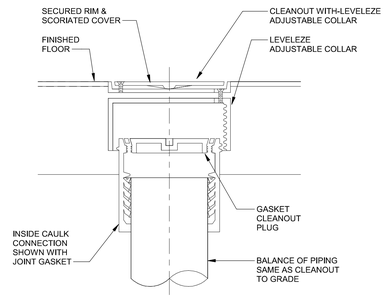
PERMIT/BID SET

12/1/2020 8:57:16 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.



SIZE	SYMBOL	FIXTURE UNIT RATINGS	A SIZE	B SIZE
1/2"	A	1 - 11	5"	1/2"
3/4"	B	12 - 32	5"	3/4"
1"	C	33 - 60	7"	1"
1-1/4"	D	61 - 113	7"	1-1/4"
1-1/2"	E	114 - 154	9"	1-1/2"
2"	F	155 - 330	9"	2"



PLUMBING FIXTURE SCHEDULE

REFERENCE	MFR	MODEL	DESCRIPTION	TRIM
SK-1 (ADA)	ELKAY	DRKR2517	SINGLE BOWL, COUNTER TOP MOUNT, 18-GAUGE 304 STAINLESS STEEL SINK WITH LEFT HAND FAUCET HOLES AND RIGHT HAND BUBBLER HOLE. 25 BY 17 BY 7-5/8" DIMENSIONS. COORDINATE ALL REQUIRED HOLES FOR TRIM AND INDICATE IN SUBMITTAL. GRID STRAINER AND TAILPIECE. ADA COMPLIANT.	FAUCET - CHICAGO FAUCET [1100-CP] or [1100-GN2AE3VPAXKCP] or [50-CP] BUBBLER - CHICAGO FAUCET 748-665ABCP THERMOSTATIC MIXING VALVE - ASSE 1070 LISTED, WITH COMBINATION STOP, STRAINER, AND CHECK VALVES, AND RIGID CHROME-PLATED CONNECTORS.

12/1/2020 8:57:16 AM

BEAVERTON SCHOOL DISTRICT

COOPER MOUNTAIN ELEMENTARY
7670 SW 170th AVE
BEAVERTON, OR 97007

OHPLANNING+DESIGN, ARCHITECTURE
115 NW 1st Ave, Ste, 300
Portland, OR 97209

Consultants:

KCL ENGINEERING © 2020
KCL Engineering
2175 NW Raleigh Street, Suite 110
Portland, OR, 97210

COOPER MOUNTAIN ELEMENTARY SCHOOL
SRGP IMPROVEMENTS

PERMIT/BID SET

REGISTERED PROFESSIONAL ENGINEER
94026
OREGON
DEC. 13, 2018
STORMY L. SHANKS
EXPIRES: 6/30/2022

Date: 12/04/2020
Project Number: 90060
Drawn By: MK
Checked By: SLS

Revision Schedule:

Sheet Title:
PLUMBING DETAILS

Sheet Number:
P-300

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.

DEMOLITION AND RENOVATION NOTES - ELECTRICAL

A. THE ELECTRICAL DEMOLITION DRAWING SHOWING EXISTING CONDITIONS HAVE BEEN PREPARED BASED ON FIELD OBSERVATION AND ORIGINAL DRAWINGS. ADDITIONAL COMPONENTS MAY EXIST WHICH ARE NOT SHOWN, AND SUCH ITEMS SHALL BE DEALT WITH IN A MANNER SIMILAR TO THOSE ITEMS WHICH ARE SHOWN.

B. CONTRACTOR SHALL THOROUGHLY FAMILIARIZE HIMSELF WITH EXISTING ELECTRICAL SYSTEM WHICH WILL BE AFFECTED BY THE DEMOLITION WORK. CONTRACTOR SHALL OBTAIN PERMISSION FROM OWNER'S REPRESENTATIVE TO SHUT OFF SERVICES OR SYSTEMS WHICH MAY AFFECT OTHER AREAS BEYOND THE LIMITS OF THE DEMOLITION AREA. SUCH PERMISSION WILL BE GRANTED ONLY AFTER OWNER'S REPRESENTATIVE IS INFORMED OF THE REASON FOR AND DURATION OF THE SHUTDOWN AND IS SATISFIED THAT THE SHUTDOWN CAN BE MADE WITH AS LITTLE INCONVENIENCE TO OTHER AREAS AS POSSIBLE.

C. WHERE SYSTEMS AND DEVICES ARE SHOWN TO BE REMOVED AND RELOCATED, OR REMOVED AND REINSTALLED, COORDINATE PARTIAL DEMOLITION AND REINSTALLATION WORK WITH ARCHITECTURAL AND STRUCTURAL DOCUMENTS. RECONNECT TO EXISTING DEVICE CABLING WHERE EXISTING DEVICES ARE REINSTALLED AT THE SAME LOCATION. COORDINATE EXTENSION OF EXISTING WIRING TO NEW DEVICES WITH NEW WALL CONSTRUCTION WHERE OCCURRING. REFER TO WALL AND CEILING MODIFICATIONS SHOWN ON ARCHITECTURAL AND STRUCTURAL PLANS, DETAILS, AND ELEVATIONS, AS WELL AS SPECIFICATION REQUIREMENTS.

D. PROVIDE PLANT, LABOR, AND MATERIALS TO REMOVE ELECTRICAL FACILITIES AND CLEAR THE AREA TO RECEIVE THE NEW WORK TO BE PROVIDED UNDER THIS CONTRACT.

E. CONDUITS, BOXES, ETC., SHALL BE REMOVED AS REQUIRED BY WALL AND CEILING DEMOLITION AND ADJACENT REMOVALS. REMOVE EXISTING WIRING FOR REMOVED DEVICES.

F. INSTALL NEW CONDUCTORS FOR NEW CIRCUITS IN REMODELED AREAS UNLESS SPECIFICALLY NOTED OTHERWISE. EXISTING CONDUITS IN GOOD CONDITION MAY BE RETAINED FOR CONTINUED USE AS APPLICABLE.

G. BRANCH CIRCUITS TO BE DISCONNECTED SHALL BE IDENTIFIED AS TO LOCATION OR ITEM SERVED BEFORE DISCONNECTING.

H. CIRCUITS SERVING AREAS BEYOND THE DEMOLITION AREA SHALL BE MAINTAINED, EXTEND AND/OR RECONNECT NEW WIRING TO EXISTING AS REQUIRED TO MAINTAIN EXISTING CIRCUITS.

I. EXISTING BUILDING SYSTEMS THAT ARE NOT AFFECTED BY THE SCOPE OF THE PROJECT ARE TO BE KEPT OPERATIONAL IN OCCUPIED AREAS OF THE BUILDING THROUGH THE DURATION OF THE PROJECT. COORDINATE REQUIRED OUTAGES WITH THE OWNER IN ADVANCE OF SHUT DOWN.

J. DO NOT CUT EXISTING TELECOMMUNICATION WIRING, CABLES OR CONDUIT AS EXISTING SYSTEMS SHALL REMAIN OPERATIONAL DURING ALL PHASES OF CONSTRUCTION. CONTRACTOR WHO CUTS IN-SERVICE CABLES SHALL BE RESPONSIBLE FOR DOWNTIME AND COSTS TO REPAIR.

K. INSTALL STAINLESS STEEL COVER PLATE OVER HOLE AT REMOVED DEVICE LOCATIONS, INCLUDING BUT NOT LIMITED TO, CLOCKS, RECEPTACLES, SWITCHES, JUNCTION BOXES, ETC.

L. PROVIDE CUTTING AND PATCHING OF EXISTING CONSTRUCTION AS REQUIRED FOR THE PROPER COMPLETION OF THE DEMOLITION WORK AND THE INSTALLATION OF THE NEW WORK.

M. EQUIPMENT AND DEVICES SHOWN AS EXISTING OR AS REMOVE/RELOCATE SHALL BE PROTECTED AND HANDLED WITH APPROPRIATE CARE SO AS TO MAINTAIN FULL FUNCTIONAL AND AESTHETIC INTEGRITY OF THE DEVICE.

N. REMOVED EQUIPMENT AND SYSTEMS SHALL REMAIN THE PROPERTY OF THE OWNER UNLESS OTHERWISE NOTED. ALL MATERIALS NOT SALVAGED BY THE OWNER SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR FOR PROPER DISPOSAL.

O. REMOVE AND REINSTALL CEILING TILES REQUIRED FOR THE WORK BEING DONE UNDER THIS CONTRACT. DAMAGED CEILING TILES SHALL BE REPLACED TO MATCH EXISTING.

GENERAL NOTES - ELECTRICAL

A. COORDINATE LOCATION/INSTALLATION OF MECHANICAL AND ELECTRICAL WORK WITH ALL OTHER TRADES. NO ASPECT OF A SYSTEM INSTALLATION OR ITS ROUGH-IN SHALL COMMENCE UNTIL PROPER AND TIMELY COORDINATION WITH ALL TRADES ASSOCIATED WITH THE INSTALLATION HAS OCCURRED. ITEMS TO BE COORDINATED SHALL INCLUDE BUT NOT BE LIMITED TO: BUILDING STRUCTURE, SHEET METAL, ALL PIPING SYSTEMS, LIGHT FIXTURES, CONDUITS, CABLE TRAYS, ETC. REFER TO ALL GENERAL, MECHANICAL, AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT. ANY REWORK OF INSTALLED EQUIPMENT OR SYSTEMS WILL BE AT THE CONTRACTORS EXPENSE.

B. NOTE THAT THE ELECTRICAL DRAWINGS ARE ONLY A PORTION OF THE COMPLETE SET OF PLANS CONTRACT DOCUMENTS. THE COMPLETE SET CONTRACT OF DOCUMENTS SHALL BE USED TO DEFINE THE ELECTRICAL SCOPE OF WORK. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO, USING THE ARCHITECTURAL PLANS FOR DIMENSIONS AND DETAILS; EQUIPMENT PLANS FOR ROUGH-IN REQUIREMENTS, AND THE MECHANICAL PLANS FOR EQUIPMENT SIZES AND LOCATIONS.

INSTALLATION NOTES - LIGHTING

A. UNLESS NOTED OTHERWISE, CONNECT ALL EMERGENCY BATTERY FIXTURES WITH AN UN-SWITCHED LEG OF THE LIGHTING CIRCUIT THAT SERVES THE SPACE THE EMERGENCY FIXTURE IS LOCATED WITHIN. NORMAL SWITCHING SCHEME SHOULD BE MAINTAINED UNDER NORMAL OPERATING OF EMERGENCY FIXTURES DESIGNATED. WIRE PER EMERGENCY FIXTURE OR TRANSFER DEVICE INSTRUCTIONS.

B. VERIFY CEILING TYPE (IE. GRID, GYP) WITH ARCHITECTURAL REFLECTED CEILING PLANS PRIOR TO RELEASE OF LIGHTING FIXTURE EQUIPMENT PACKAGE. ADJUST FIXTURE TYPE, CONSTRUCTION, FLANGE, OR OTHER COORDINATION DETAILS AS REQUIRED FOR CEILING TYPE.

C. OCCUPANCY SENSORS SHOWN ON PLANS ARE SUGGESTED LOCATIONS ONLY AND MUST BE VERIFIED WITH SPECIFIC MANUFACTURER GUIDELINES AND INSTALLATION RECOMMENDATIONS AS NOTED IN LIGHTING CONTROL SHOP DRAWINGS. ADJUST LOCATIONS AS REQUIRED TO MEET MANUFACTURER GUIDELINES.

D. LIGHTING CONTROL SYSTEMS SHALL BE PROVIDED AS A COMPLETE OPERATING SYSTEM AND INCLUDE MATERIAL AND INSTALLATION FOR ALL POWER PACKS, ACCESSORIES, CONTROLLERS, AND WIRING REQUIRED FOR THE SYSTEM.

INSTALLATION NOTES - ELECTRICAL

A. CONTRACTORS SHALL FAMILIARIZE THEMSELVES WITH EXISTING CONDITIONS PRIOR TO BID.

B. INCREASE CONDUCTOR SIZES ON 120V-1 PHASE CIRCUITS EXCEEDING 100 FEET TO CENTER OF LOAD TO ACCOUNT FOR VOLTAGE DROP.

C. RACEWAYS AND BOXES ARE SHOWN DIAGRAMMATICALLY ONLY AND INDICATE THE GENERAL AND APPROXIMATE LOCATION. THE LAYOUT DOES NOT NECESSARILY SHOW THE TOTAL NUMBER OF RACEWAYS OR BOXES FOR THE CIRCUITS REQUIRED, NOR ARE THE LOCATIONS OF INDICATED RUNS INTENDED TO SHOW THE ACTUAL ROUTING OF THE RACEWAYS.

D. LIGHT FIXTURES, SWITCHES, DEVICES, ETC. ARE SHOWN IN PREFERRED LOCATION. E.C. RESPONSIBLE FOR MODIFYING CONDUIT, HANGERS, CIRCUITING, ETC. TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM.

E. PROVIDE A DEDICATED GREEN INSULATED GROUND CONDUCTOR TO ALL DEVICES. THE CONDUIT SYSTEM SHALL NOT BE USED AS THE ONLY EQUIPMENT GROUNDING METHOD.

F. DO NOT INSTALL DEVICES BACK TO BACK ON OPPOSITE SIDES OF WALL. MAINTAIN MINIMUM OF 8" DISTANCE BETWEEN WHEREVER APPLICABLE.

G. BALANCE THE LOAD ON PANELS AS EVENLY AS POSSIBLE DURING INSTALLATION. CIRCUIT NUMBERING SHOWN ON PLANS MAY BE ADJUSTED.

H. PROVIDE FINAL TYPED PERMANENT PANEL DIRECTORY AT PROJECT COMPLETION.
I. CONTRATOR IS RESPONSIBLE FOR OPENINGS IN WALLS CREATED BY THEIR WORK.

J. PENETRATIONS SHALL BE SEALED IN ACCORDANCE WITH THE RATINGS OF THE AFFECTED WALL. REFER TO ARCHITECTURAL CODE PLAN FOR RATED WALLS.

CODE NOTES - ELECTRICAL

A. THE ELECTRICAL INSTALLATION SHALL BE IN ACCORDANCE WITH ALL LOCAL, STATE, AND NATIONAL CODES.

B. THE CURRENT ADOPTED EDITION OF THE ELECTRICAL CODE SHALL BE THE STANDARD FOR THE ELECTRICAL INSTALLATION. VERIFY WITH LOCAL OFFICIALS WHEN PERMITS ARE OBTAINED. NOTIFY DESIGN TEAM OF ANY DESCREPANCIES BETWEEN THE PROJECT MANUAL OR DRAWINGS AND THE GOVERNING CODE.

C. INSTALLATION SHALL FOLLOW ALL REQUIREMENTS OF THE ADAAG – AMERICANS WITH DISABILITIES ACT.

D. REFER TO PROJECT MANUAL AND PROJECT CODE REVIEW SHEET FOR LIST OF APPLICABLE CODES.

AUDIO VISUAL SYMBOLS

- SPEAKER - SUSPENDED OR CEILING MOUNTED
- SPEAKER - WALL MOUNTED

SECURITY AND INTRUSION DETECTION SYMBOLS

- VIDEO SURVEILLANCE CAMERA
- MOTION DETECTOR

ELECTRICAL ABBREVIATIONS

A	DEVICE MOUNTED +8" ABOVE COUNTER TOP (VERIFY LOCATION)	NIC	NOT IN CONTRACT
		NM	NONMETALLIC
AFF	ABOVE FINISHED FLOOR	NTS	NOT TO SCALE
ATS	AUTOMATIC TRANSFER SWITCH	OC	ON CENTER
C	CEILING	OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
CB	CIRCUIT BREAKER		
CT	CURRENT TRANSFORMER	OFOI	OWNER FURNISHED, OWNER INSTALLED
E	EXISTING ITEM TO REMAIN		
EC	ELECTRICAL CONTRACTOR	R	EXISTING ITEM TO BE REMOVED
EM	EMERGENCY LIGHT FIXTURE	RR	EXISTING ITEM TO BE REMOVED AND RELOCATED
ER	NEW LOCATION OF EXISTING ITEM		
F	ROUGH IN FOR FUTURE DEVICE	RN	EXISTING ITEM TO BE REMOVED AND REPLACED WITH NEW
FAAP	FIRE ALARM ANNUNCIATOR PANEL		
FACP	FIRE ALARM CONTROL PANEL	SCCR	SHORT CIRCUIT CURRENT RATING
FSD	FIRE SMOKE DAMPER	SR	SURFACE RACEWAY/CONDUIT
G	GROUND FAULT CIRCUIT INTERRUPTER	T	TAMPER PROOF DEVICE
GND	GROUND	TCC	TEMPERATURE CONTROL CONTRACTOR
KVA	KILO-VOLT-AMPERES	TV	TELEVISION
KW	KILOWATTS	TYP	TYPICAL
MC	MECHANICAL CONTRACTOR	UPS	UNINTERRUPTIBLE POWER SUPPLY
MCB	MAIN CIRCUIT BREAKER	V	VOLTS
MDP	MAIN DISTRIBUTION PANEL	VA	VOLT-AMPERES
MLO	MAIN LUGS ONLY	WG	WIREGUARD COVER
N	NEW DEVICE IN EXISTING LOCATION	WP	WEATHERPROOF DEVICE
		WR	WEATHER RESISTANT DEVICE
		+24"	INDICATES MOUNTING HEIGHT CENTER LINE OF DEVICE TO FINISHED FLOOR

POWER SYMBOLS

- SINGLE RECEPTACLE, WALL MOUNT +18", OR AS NOTED
- DUPLEX RECEPTACLE, CEILING MOUNT
- DUPLEX RECEPTACLE, TAMPER-RESISTANT, WALL MOUNT +18", OR AS NOTED
- DUPLEX RECEPTACLE, SURFACE RACEWAY, WALL MOUNT +18", OR AS NOTED
- DUPLEX GFCI RECEPTACLE, TAMPER-RESISTANT, WALL MOUNT +18", OR AS NOTED
- DUPLEX RECEPTACLE, MOUNTED WITHIN WATER COOLER HOUSING, VERIFY HEIGHT, CONNECT TO GFCI, CIRCUIT BREAKER OR REMOTE WALL DEVICE.
- DUPLEX GFCI RECEPTACLE WITH WEATHER-PROOF IN-USE COVER, TAMPER-RESISTANT, WALL MOUNT +24", OR AS NOTED
- QUADRAPLEX RECEPTACLE, TAMPER-RESISTANT, WALL MOUNT +18", OR AS NOTED
- QUADRAPLEX GFCI RECEPTACLE, TAMPER-RESISTANT, WALL MOUNT +18", OR AS NOTED
- EQUIPMENT CONNECTION, REFER TO ELECTRICAL EQUIPMENT CONNECTION SCHEDULE FOR CONNECTION TYPE
- EQUIPMENT CONNECTION, WALL MOUNT +18", OR AS NOTED, REFER TO ELECTRICAL EQUIPMENT CONNECTION SCHEDULE FOR CONNECTION TYPE
- JUNCTION BOX, WITH PULL STRING, WALL MOUNT, REFER TO PLAN OR DETAIL FOR MOUNTING HEIGHT
- GROUND BAR
- UTILITY TRANSFORMER
- UTILITY METER
- SAFETY DISCONNECT SWITCH
- PLUG STRIP, SURFACE MOUNTED. ELEVATION AS NOTED.
- PANELBOARD - SURFACE MOUNTED
- PANELBOARD - RECESSED IN WALL
- DISTRIBUTION PANELBOARD/SWITCHBOARD - SURFACE MOUNTED AS NOTED.

FIRE DETECTION AND ALARM SYMBOLS

- MANUAL FIRE ALARM PULL STATION
- SMOKE DETECTOR
- SMOKE DETECTOR - WALL MOUNTED
- HORN - WALL MOUNTED
- COMBINATION HORN WITH STROBE - WALL MOUNTED
- COMBINATION HORN WITH STROBE - CEILING MOUNTED
- STROBE - WALL MOUNTED
- FIRE ALARM ANNUNCIATOR PANEL
- FIRE ALARM CONTROL PANEL + EMERGENCY COMMUNICATIONS PANEL

LIGHTING SYMBOLS

- RECESSED LIGHT FIXTURE, LETTER INDICATES SWITCH LEG (TYPICAL), SHADING INDICATES EMERGENCY LIGHT (TYPICAL)
- SURFACE MOUNTED STRIP FIXTURE
- SQUARE LIGHT FIXTURE - SURFACE MOUNTED
- EMERGENCY LIGHT FIXTURE, WALL MOUNT, +96" OR AS NOTED
- EMERGENCY LIGHT FIXTURE, CEILING MOUNT
- EXIT SIGN, WALL MOUNT +96", SHADED AREAS INDICATE NUMBER OF FACES, ARROWS INDICATE SIGN ARROWS
- EXIT SIGN, CEILING MOUNT, SHADED AREAS INDICATE NUMBER OF FACES, ARROWS INDICATE SIGN ARROWS
- INTERIOR LIGHT FIXTURE, WALL MOUNT
- SINGLE POLE SWITCH, WALL MOUNT +48", OR AS NOTED, LETTER INDICATES SWITCH LEG
- THREE WAY SWITCH, WALL MOUNT +48", OR AS NOTED, LETTER INDICATES SWITCH LEG
- PILOT LIGHT SWITCH, WALL MOUNT +48", OR AS NOTED, LETTER INDICATES SWITCH LEG
- DIMMER SWITCH, WALL MOUNT +48", OR AS NOTED, LETTER INDICATES SWITCH LEG
- OCCUPANCY SENSOR, WALL MOUNT +48" OR AS NOTED, NUMBER INDICATES TYPE, LETTER INDICATES SWITCH LEG, REFER TO LIGHTING CONTROLS SCHEDULE
- OCCUPANCY SENSOR, CEILING MOUNT, NUMBER INDICATES TYPE, LETTER INDICATES SWITCH LEG; REFER TO LIGHTING CONTROLS SCHEDULE

TELECOMMUNICATIONS INFRASTRUCTURE SYMBOLS

- DATA OUTLET
- WIRELESS ACCESS POINT
- CABLE TELEVISION LOCATION - RADIO GRADE CABLING

WIRED/WIRELESS CLOCKS SYMBOLS

- CLOCK - WALL MOUNTED - "2" INDICATES DUAL FACE
- CLOCK - CEILING MOUNTED - "2" INDICATES DUAL FACE

NOTE: NOT ALL SYMBOLS APPLY TO THIS PROJECT

BEAVERTON SCHOOL DISTRICT

COOPER MOUNTAIN ELEMENTARY
7670 SW 170th AVE
BEAVERTON, OR 97007

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

Consultants:

KCL ENGINEERING © 2020
KCL Engineering
2175 NW Raleigh Street, Suite 110
Portland, OR, 97210

COOPER MOUNTAIN ELEMENTARY SCHOOL
SEISMIC SRGP IMPROVEMENTS

PERMIT/BID SET

REGISTERED PROFESSIONAL ENGINEER 9032 OREGON 1/31/13 ADAM R. KOBLEE
EXPIRES: 6/30/2021

Date: 12/04/2020
Project Number: 90060
Drawn By: NB
Checked By: AK

Revision Schedule:

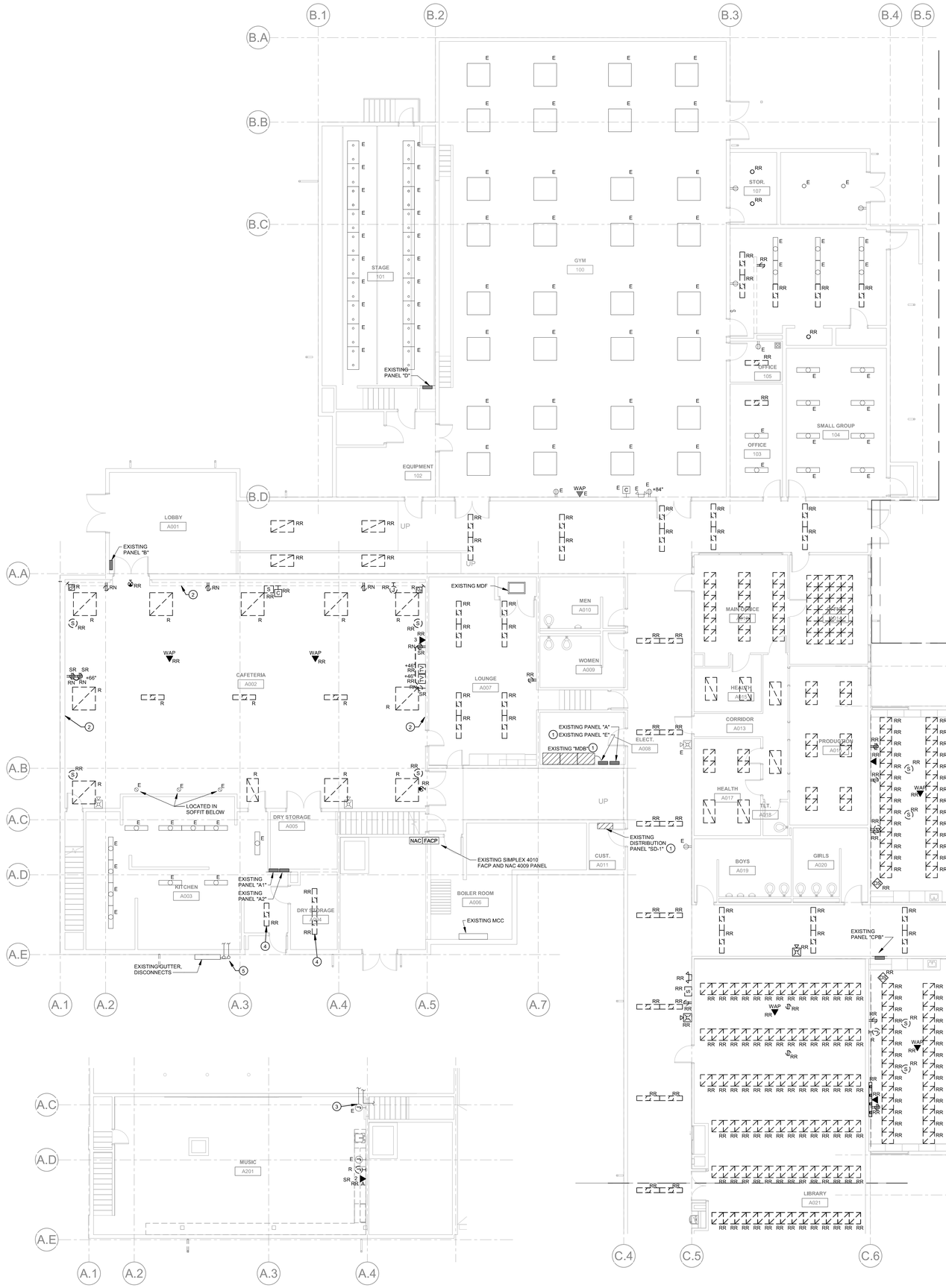
Sheet Title:
ELECTRICAL GENERAL NOTES AND SYMBOLS

Sheet Number:
E-000

PERMIT/BID SET

11/30/2020 11:46:05 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.



2 SECOND FLOOR ELECTRICAL DEMOLITION PLAN - AREA A
1/8" = 1'-0"

1 FIRST FLOOR ELECTRICAL DEMOLITION PLAN - AREA A, B, C NORTH
1/8" = 1'-0"

ELECTRICAL DEMOLITION NOTES

A. DEMOLITION DRAWINGS PRESENT LAYOUT OF EXISTING CONDITIONS AND MAJOR MECHANICAL/ELECTRICAL ITEMS. THEY ARE NOT TO BE CONSTRUED AS COMPLETE IN REPRESENTATION OF ACCESSORIES AND INCIDENTALS TO BE REMOVED, REPLACED, OR REWORKED. NOR SHOULD ACCESSIBILITY BE INFERRED. THE CONTRACTOR IS RESPONSIBLE TO FAMILIARIZE THEMSELVES WITH THE BUILDING AND EXISTING CONDITIONS, PRIOR TO THE SUBMITTING OF A BID FOR THIS PROJECT.

B. PROVIDE PLANT, LABOR, AND MATERIALS TO REMOVE ELECTRICAL FACILITIES AND CLEAR THE AREA TO RECEIVE THE NEW WORK TO BE PROVIDED UNDER THIS CONTRACT.

C. THIS ELECTRICAL DEMOLITION DRAWING SHOWING EXISTING CONDITIONS HAS BEEN PREPARED BASED ON FIELD OBSERVATION AND ORIGINAL DRAWINGS. ADDITIONAL COMPONENTS MAY EXIST WHICH DO NOT SHOW, AND SUCH ITEMS SHALL BE DEALT WITH IN A MANNER SIMILAR TO THOSE ITEMS WHICH DO SHOW. CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH EXISTING CONDITIONS.

D. CONDUITS, BOXES, ETC., SHALL BE REMOVED AS REQUIRED BY WALL AND CEILING DEMOLITION AND REMOVALS. WIRING SHALL BE REMOVED. ALL WIRING FOR THE REMODELED AREAS SHALL BE NEW UNLESS SPECIFICALLY NOTED OTHERWISE. ALL BRANCH CIRCUITS TO BE DISCONNECTED SHALL BE IDENTIFIED AS TO LOCATION OR ITEM SERVED BEFORE DISCONNECTING. CIRCUITS SERVING AREAS BEYOND THE IMMEDIATE DEMOLITION AREA SHALL BE MAINTAINED.

E. WHERE DEVICES ARE BEING REMOVED AND REINSTALLED AT THE SAME LOCATION TO ALLOW WALL FINISH WORK, THE EXISTING DEVICE BOX MAY BE USED. WHERE SHOWN RELOCATED IN A MODIFIED WALL OR NEW LOCATION, PULL BACK EXISTING CONDUCTORS TO ACCESSIBLE LOCATION FOR EXTENSION OF NEW WIRING AND CONDUIT TO NEW DEVICE LOCATION.

F. CONTRACTOR SHALL THOROUGHLY FAMILIARIZE HIMSELF WITH EXISTING ELECTRICAL SYSTEM WHICH WILL BE AFFECTED BY THE DEMOLITION WORK. CONTRACTOR SHALL OBTAIN PERMISSION FROM OWNER'S REPRESENTATIVE TO SHUT OFF SERVICES OR SYSTEMS WHICH MAY AFFECT OTHER AREAS BEYOND THE LIMITS OF THE IMMEDIATE DEMOLITION AREA. SUCH PERMISSION WILL BE GRANTED ONLY AFTER OWNER'S REPRESENTATIVE IS INFORMED OF THE REASON FOR AND DURATION OF THE SHUTDOWN AND IS SATISFIED THAT THE SHUTDOWN CAN BE MADE WITH AS LITTLE INCONVENIENCE TO OTHER AREAS AS POSSIBLE.

G. ABBREVIATIONS:
- E - EXISTING ITEM TO REMAIN
- ER - NEW LOCATION OF EXISTING ITEM
- N - NEW ITEM IN EXISTING LOCATION
- R - EXISTING ITEM TO BE REMOVED, PATCH AND/OR COVER
- RN - REPLACE EXISTING WITH NEW
- RR - EXISTING ITEM TO BE REMOVED AND RELOCATED/REINSTALLED
- SR - SURFACE RACEWAY/CONDUIT

KEYNOTES (#)

1 REPLACE EXISTING RIGID CONDUIT CONNECTION(S) AT EQUIPMENT. REFER TO ONE-LINE DIAGRAM FOR REQUIREMENTS.

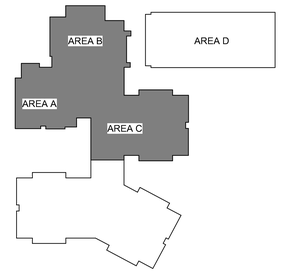
2 REMOVE SURFACE RACEWAY AND EXPOSED CONDUIT TO ACCESSIBLE LOCATION ALONG THIS WALL. REPLACE SURFACE MOUNTED DEVICES WITH NEW RECESSED DEVICES IN SAME APPROXIMATE LOCATION AS EXISTING WITH CONDUIT CONCEALED IN NEW WALL. REFER TO NEW WORK PLANS.

3 DISCONNECT AND PULL BACK EXISTING CABLING TO ALLOW REMOVAL OF SURFACE MOUNTED CONDUIT AND RACEWAY TO ALLOW WALL REINFORCEMENT. REMOVE SURFACE RACEWAY SERVING DATA ON EAST WALL IN A201, PULL BACK CABLING AND REROUTE CABLING IN CONDUIT TO NEW FLUSH DATA OUTLET IN WALL AT SAME LOCATION. REINSTALL BOX EXTENSION AT J-BOX AND SURFACE RACEWAY AND CONDUIT TO MAINTAIN PATH AROUND BEAM.

4 COORDINATE REMOVAL AND REINSTALLATION WITH PIPE BRACING WORK IN THIS AREA. INSTALL AT PRIOR LOCATION AFTER WORK IS COMPLETE.

5 REMOVE AND REINSTALL EXISTING EXPOSED CONDUIT TO ALLOW WALL REINFORCEMENT. REMOVE, PULL BACK AND RETERMINATE EXISTING CONDUCTORS UPON COMPLETION OF STRUCTURAL WORK.

KEY PLAN



BEAVERTON SCHOOL DISTRICT

COOPER MOUNTAIN ELEMENTARY
7670 SW 170th AVE
BEAVERTON, OR 97007

OHPLANNING+DESIGN, ARCHITECTURE
115 NW 1st Ave, Ste, 300
Portland, OR 97209

Consultants:

KCL ENGINEERING © 2020
KCL Engineering
2175 NW Raleigh Street, Suite 110
Portland, OR, 97210

COOPER MOUNTAIN ELEMENTARY SCHOOL
SEISMIC SRGP IMPROVEMENTS

PERMIT/BID SET

REGISTERED PROFESSIONAL ENGINEER
OREGON
JULY 13, 2007
ADAM R. KOBLE
EXPIRES: 6/30/2021

Date:	12/04/2020
Project Number:	90060
Drawn By:	NB
Checked By:	AK

Revision Schedule:

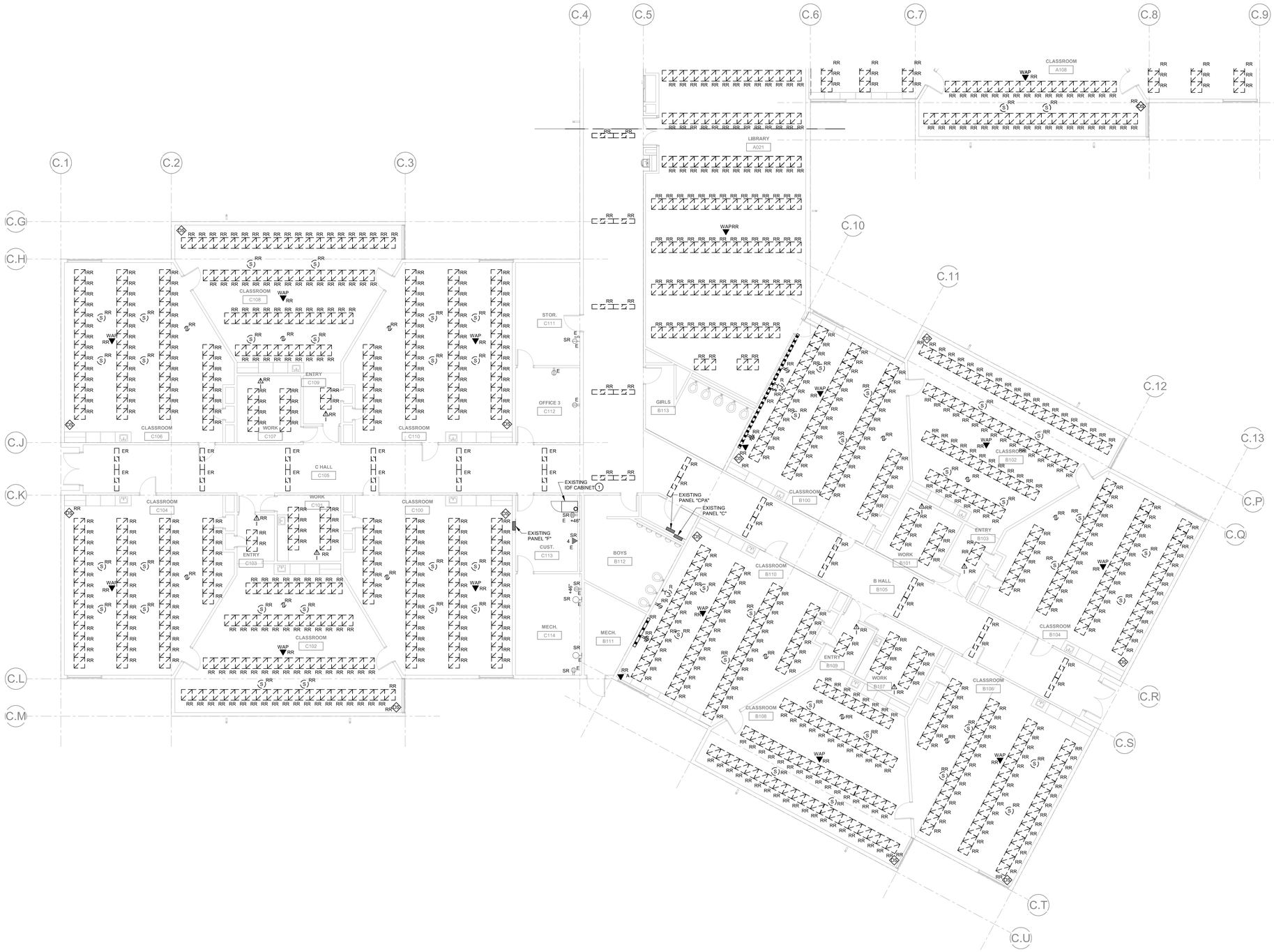
Sheet Title:
ELECTRICAL DEMOLITION PLANS - AREA A, B, C NORTH

Sheet Number:
ED-201

PERMIT/BID SET

11/30/2020 11:46:29 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 FIRST FLOOR ELECTRICAL DEMOLITION PLAN - AREA C SOUTH
1/8" = 1'-0"

ELECTRICAL DEMOLITION NOTES

A. DEMOLITION DRAWINGS PRESENT LAYOUT OF EXISTING CONDITIONS AND MAJOR MECHANICAL/ELECTRICAL ITEMS. THEY ARE NOT TO BE CONSTRUED AS COMPLETE IN REPRESENTATION OF ACCESSORIES AND INCIDENTALS TO BE REMOVED, REPLACED, OR REWORKED. NOR SHOULD ACCESSIBILITY BE INFERRED. THE CONTRACTOR IS RESPONSIBLE TO FAMILIARIZE THEMSELVES WITH THE BUILDING AND EXISTING CONDITIONS, PRIOR TO THE SUBMITTING OF A BID FOR THIS PROJECT.

B. PROVIDE PLANT, LABOR, AND MATERIALS TO REMOVE ELECTRICAL FACILITIES AND CLEAR THE AREA TO RECEIVE THE NEW WORK TO BE PROVIDED UNDER THIS CONTRACT.

C. THIS ELECTRICAL DEMOLITION DRAWING SHOWING EXISTING CONDITIONS HAS BEEN PREPARED BASED ON FIELD OBSERVATION AND ORIGINAL DRAWINGS. ADDITIONAL COMPONENTS MAY EXIST WHICH DO NOT SHOW, AND SUCH ITEMS SHALL BE DEALT WITH IN A MANNER SIMILAR TO THOSE ITEMS WHICH DO SHOW. CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH EXISTING CONDITIONS.

D. CONDUITS, BOXES, ETC., SHALL BE REMOVED AS REQUIRED BY WALL AND CEILING DEMOLITION AND REMOVALS. WIRING SHALL BE REMOVED. ALL WIRING FOR THE REMODELED AREAS SHALL BE NEW UNLESS SPECIFICALLY NOTED OTHERWISE. ALL BRANCH CIRCUITS TO BE DISCONNECTED SHALL BE IDENTIFIED AS TO LOCATION OR ITEM SERVED BEFORE DISCONNECTING. CIRCUITS SERVING AREAS BEYOND THE IMMEDIATE DEMOLITION AREA SHALL BE MAINTAINED.

E. WHERE DEVICES ARE BEING REMOVED AND REINSTALLED AT THE SAME LOCATION TO ALLOW WALL FINISH WORK, THE EXISTING DEVICE BOX MAY BE USED. WHERE SHOWN RELOCATED IN A MODIFIED WALL OR NEW LOCATION, PULL BACK EXISTING CONDUCTORS TO ACCESSIBLE LOCATION FOR EXTENSION OF NEW WIRING AND CONDUIT TO NEW DEVICE LOCATION.

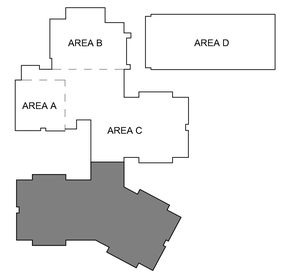
F. CONTRACTOR SHALL THOROUGHLY FAMILIARIZE HIMSELF WITH EXISTING ELECTRICAL SYSTEM WHICH WILL BE AFFECTED BY THE DEMOLITION WORK. CONTRACTOR SHALL OBTAIN PERMISSION FROM OWNER'S REPRESENTATIVE TO SHUT OFF SERVICES OR SYSTEMS WHICH MAY AFFECT OTHER AREAS BEYOND THE LIMITS OF THE IMMEDIATE DEMOLITION AREA. SUCH PERMISSION WILL BE GRANTED ONLY AFTER OWNER'S REPRESENTATIVE IS INFORMED OF THE REASON FOR AND DURATION OF THE SHUTDOWN AND IS SATISFIED THAT THE SHUTDOWN CAN BE MADE WITH AS LITTLE INCONVENIENCE TO OTHER AREAS AS POSSIBLE.

G. ABBREVIATIONS:
- E - EXISTING ITEM TO REMAIN
- ER - NEW LOCATION OF EXISTING ITEM
- N - NEW ITEM IN EXISTING LOCATION
- R - EXISTING ITEM TO BE REMOVED, PATCH AND/OR COVER
- RN - REPLACE EXISTING WITH NEW
- RR - EXISTING ITEM TO BE REMOVED AND RELOCATED/REINSTALLED
- SR - SURFACE RACEWAY/CONDUIT

KEYNOTES (#)

1 EXISTING IDF CABINET AND COMMUNICATIONS CONDUIT TO REMAIN. PROTECT IN PLACE.

KEY PLAN



BEAVERTON SCHOOL DISTRICT

COOPER MOUNTAIN ELEMENTARY
7670 SW 170th AVE
BEAVERTON, OR 97007

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

Consultants:

KCL ENGINEERING © 2020
KCL Engineering
2175 NW Raleigh Street, Suite 110
Portland, OR, 97210

COOPER MOUNTAIN ELEMENTARY SCHOOL
SEISMIC SRGP IMPROVEMENTS

PERMIT/BID SET

REGISTERED PROFESSIONAL ENGINEER
OREGON
JULY 13, 2018
ADAM R. KOBLIEK
EXPIRES: 6/30/2021

Date:	12/04/2020
Project Number:	90060
Drawn By:	NB
Checked By:	AK

Revision Schedule:

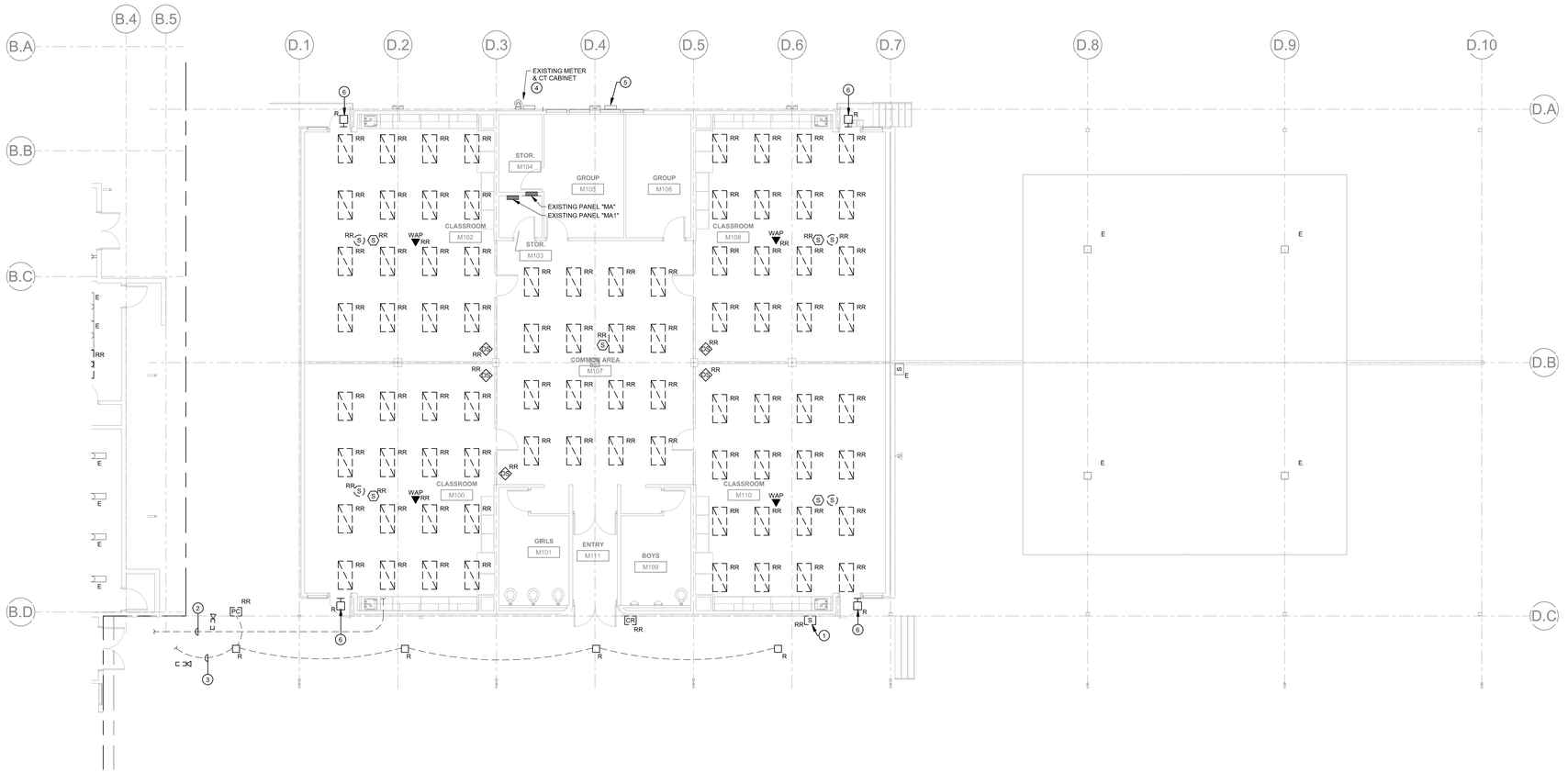
Sheet Title:
ELECTRICAL DEMOLITION PLAN - AREA C SOUTH

Sheet Number:
ED-202

PERMIT/BID SET

11/30/2020 11:46:36 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 FIRST FLOOR ELECTRICAL DEMOLITION PLAN - AREA D
1/8" = 1'-0"

ELECTRICAL DEMOLITION NOTES

A. DEMOLITION DRAWINGS PRESENT LAYOUT OF EXISTING CONDITIONS AND MAJOR MECHANICAL/ELECTRICAL ITEMS. THEY ARE NOT TO BE CONSTRUED AS COMPLETE IN REPRESENTATION OF ACCESSORIES AND INCIDENTALS TO BE REMOVED, REPLACED, OR REWORKED. NOR SHOULD ACCESSIBILITY BE INFERRED. THE CONTRACTOR IS RESPONSIBLE TO FAMILIARIZE THEMSELVES WITH THE BUILDING AND EXISTING CONDITIONS, PRIOR TO THE SUBMITTING OF A BID FOR THIS PROJECT.

B. PROVIDE PLANT, LABOR, AND MATERIALS TO REMOVE ELECTRICAL FACILITIES AND CLEAR THE AREA TO RECEIVE THE NEW WORK TO BE PROVIDED UNDER THIS CONTRACT.

C. THIS ELECTRICAL DEMOLITION DRAWING SHOWING EXISTING CONDITIONS HAS BEEN PREPARED BASED ON FIELD OBSERVATION AND ORIGINAL DRAWINGS. ADDITIONAL COMPONENTS MAY EXIST WHICH DO NOT SHOW, AND SUCH ITEMS SHALL BE DEALT WITH IN A MANNER SIMILAR TO THOSE ITEMS WHICH DO SHOW. CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH EXISTING CONDITIONS.

D. CONDUITS, BOXES, ETC., SHALL BE REMOVED AS REQUIRED BY WALL AND CEILING DEMOLITION AND REMOVALS. WIRING SHALL BE REMOVED. ALL WIRING FOR THE REMODELED AREAS SHALL BE NEW UNLESS SPECIFICALLY NOTED OTHERWISE. ALL BRANCH CIRCUITS TO BE DISCONNECTED SHALL BE IDENTIFIED AS TO LOCATION OR ITEM SERVED BEFORE DISCONNECTING. CIRCUITS SERVING AREAS BEYOND THE IMMEDIATE DEMOLITION AREA SHALL BE MAINTAINED.

E. WHERE DEVICES ARE BEING REMOVED AND REINSTALLED AT THE SAME LOCATION TO ALLOW WALL FINISH WORK, THE EXISTING DEVICE BOX MAY BE USED. WHERE SHOWN RELOCATED IN A MODIFIED WALL OR NEW LOCATION, PULL BACK EXISTING CONDUCTORS TO ACCESSIBLE LOCATION FOR EXTENSION OF NEW WIRING AND CONDUIT TO NEW DEVICE LOCATION.

F. CONTRACTOR SHALL THOROUGHLY FAMILIARIZE HIMSELF WITH EXISTING ELECTRICAL SYSTEM WHICH WILL BE AFFECTED BY THE DEMOLITION WORK. CONTRACTOR SHALL OBTAIN PERMISSION FROM OWNER'S REPRESENTATIVE TO SHUT OFF SERVICES OR SYSTEMS WHICH MAY AFFECT OTHER AREAS BEYOND THE LIMITS OF THE IMMEDIATE DEMOLITION AREA. SUCH PERMISSION WILL BE GRANTED ONLY AFTER OWNER'S REPRESENTATIVE IS INFORMED OF THE REASON FOR AND DURATION OF THE SHUTDOWN AND IS SATISFIED THAT THE SHUTDOWN CAN BE MADE WITH AS LITTLE INCONVENIENCE TO OTHER AREAS AS POSSIBLE.

G. ABBREVIATIONS:
- E - EXISTING ITEM TO REMAIN
- ER - NEW LOCATION OF EXISTING ITEM
- N - NEW ITEM IN EXISTING LOCATION
- R - EXISTING ITEM TO BE REMOVED, PATCH AND/OR COVER
- RN - REPLACE EXISTING WITH NEW
- RR - EXISTING ITEM TO BE REMOVED AND RELOCATED/REINSTALLED
- SR - SURFACE RACEWAY/CONDUIT

KEYNOTES (#)

1 REMOVE AND SALVAGE EXISTING WALL MOUNTED SPEAKER. REINSTALL UPON COMPLETION OF EXTERIOR WALL MOD.FICATION.

2 REMOVE THREE EXPOSED BRANCH CONDUITS AT THIS LOCATION. REINSTALL BRANCH CIRCUIT WIRING CONCEALED USING TYPE MC CABLING ROUTED THROUGH JOISTS OF CANOPY STRUCTURE, IN CONJUNCTION WITH CEILING FINISH WORK. PROVIDE JUNCTION BOX CONCEALED IN ACCESSIBLE CEILING SPACE AT EACH END.

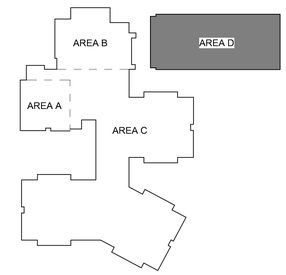
3 REMOVE EXISTING EXPOSED CONDUIT SERVING LIGHTING AND PHOTOCELL CONTROLS. REINSTALL CONCEALED USING TYPE MC CABLING.

4 REMOVE AND SALVAGE EXISTING ELECTRICAL SERVICE TERMINAL/CT CABINET AND METER, IN CONJUNCTION WITH WALL FINISH IMPROVEMENTS. CONTACT UTILITY COMPANY AND COORDINATE DISCONNECTION, OUTAGE TIME, AND RECONNECTION WITH UTILITY COMPANY PERSONNEL. REINSTALL ELECTRICAL SERVICE EQUIPMENT UPON COMPLETION OF EXTERIOR WALL MODIFICATION.

5 DISCONNECT, REMOVE AND RECONNECT IRRIGATION CONTROLLER IN CONJUNCTION WITH WALL FINISH IMPROVEMENTS.

6 REMOVE EXISTING LIGHT FIXTURE, EXISTING BRANCH CIRCUIT AND ROUGH-IN BOX TO REMAIN.

KEY PLAN



BEAVERTON SCHOOL DISTRICT

COOPER MOUNTAIN ELEMENTARY

7670 SW 170th AVE
BEAVERTON, OR 97007

OHPLANNING+DESIGN, ARCHITECTURE
115 NW 1st Ave, Ste, 300
Portland, OR 97209

Consultants:

KCL ENGINEERING © 2020
KCL Engineering
2175 NW Raleigh Street, Suite 110
Portland, OR, 97210

COOPER MOUNTAIN ELEMENTARY SCHOOL
SEISMIC SRGP IMPROVEMENTS

PERMIT/BID SET

REGISTERED PROFESSIONAL ENGINEER
OREGON
JULY 13, 2007
ADAM R. KOBLE
EXPIRES: 6/30/2021

Date:	12/04/2020
Project Number:	90060
Drawn By:	NB
Checked By:	AK

Revision Schedule:

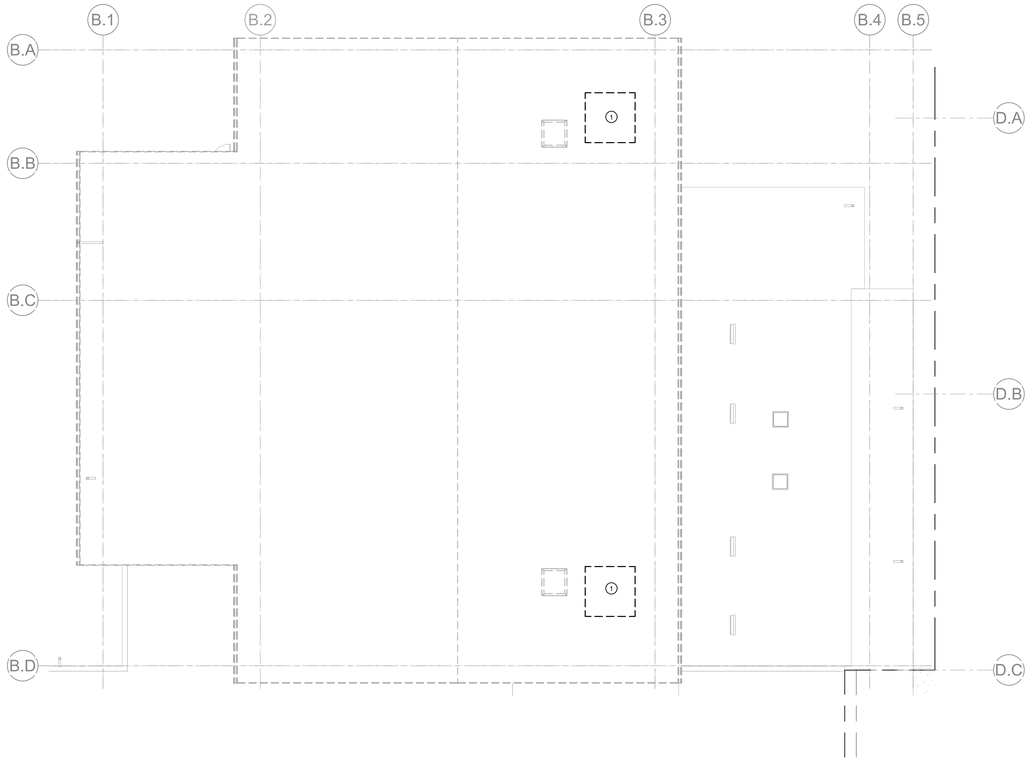
Sheet Title:
ELECTRICAL DEMOLITION PLAN - AREA D

Sheet Number:
ED-203

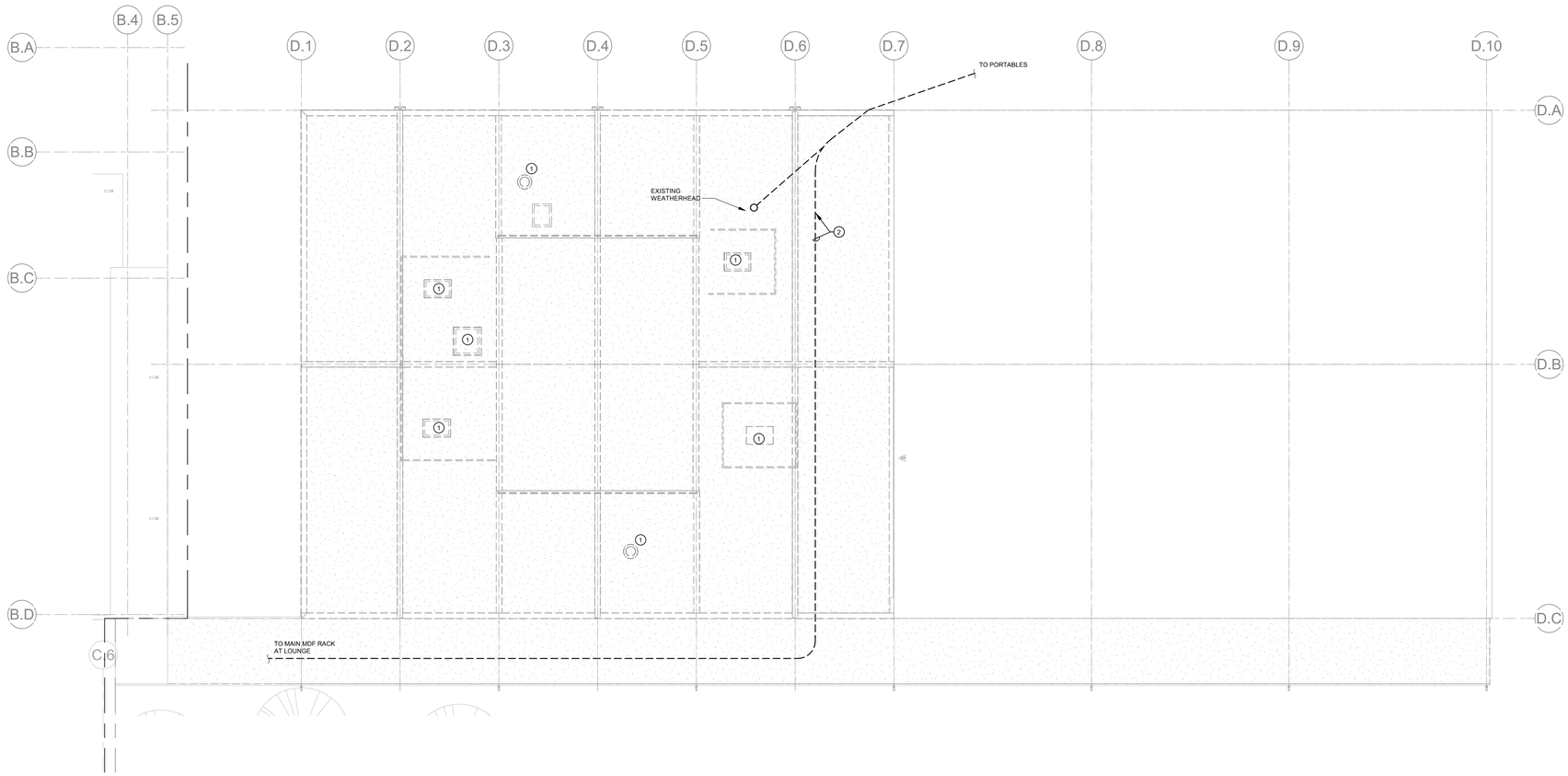
PERMIT/BID SET

11/30/2020 11:46:38 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 ELECTRICAL DEMOLITION PLAN - AREA B
1/8" = 1'-0"



2 ROOF ELECTRICAL DEMOLITION PLAN - AREA D
1/8" = 1'-0"

ELECTRICAL DEMOLITION NOTES

A. DEMOLITION DRAWINGS PRESENT LAYOUT OF EXISTING CONDITIONS AND MAJOR MECHANICAL/ELECTRICAL ITEMS. THEY ARE NOT TO BE CONSTRUED AS COMPLETE IN REPRESENTATION OF ACCESSORIES AND INCIDENTALS TO BE REMOVED, REPLACED, OR REWORKED. NOR SHOULD ACCESSIBILITY BE INFERRED. THE CONTRACTOR IS RESPONSIBLE TO FAMILIARIZE THEMSELVES WITH THE BUILDING AND EXISTING CONDITIONS, PRIOR TO THE SUBMITTING OF A BID FOR THIS PROJECT.

B. PROVIDE PLANT, LABOR, AND MATERIALS TO REMOVE ELECTRICAL FACILITIES AND CLEAR THE AREA TO RECEIVE THE NEW WORK TO BE PROVIDED UNDER THIS CONTRACT.

C. THIS ELECTRICAL DEMOLITION DRAWING SHOWING EXISTING CONDITIONS HAS BEEN PREPARED BASED ON FIELD OBSERVATION AND ORIGINAL DRAWINGS. ADDITIONAL COMPONENTS MAY EXIST WHICH DO NOT SHOW, AND SUCH ITEMS SHALL BE DEALT WITH IN A MANNER SIMILAR TO THOSE ITEMS WHICH DO SHOW. CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH EXISTING CONDITIONS.

D. CONDUITS, BOXES, ETC., SHALL BE REMOVED AS REQUIRED BY WALL AND CEILING DEMOLITION AND REMOVALS. WIRING SHALL BE REMOVED. ALL WIRING FOR THE REMODELED AREAS SHALL BE NEW UNLESS SPECIFICALLY NOTED OTHERWISE. ALL BRANCH CIRCUITS TO BE DISCONNECTED SHALL BE IDENTIFIED AS TO LOCATION OR ITEM SERVED BEFORE DISCONNECTING. CIRCUITS SERVING AREAS BEYOND THE IMMEDIATE DEMOLITION AREA SHALL BE MAINTAINED.

E. WHERE DEVICES ARE BEING REMOVED AND REINSTALLED AT THE SAME LOCATION TO ALLOW WALL FINISH WORK, THE EXISTING DEVICE BOX MAY BE USED. WHERE SHOWN RELOCATED IN A MODIFIED WALL OR NEW LOCATION, PULL BACK EXISTING CONDUCTORS TO ACCESSIBLE LOCATION FOR EXTENSION OF NEW WIRING AND CONDUIT TO NEW DEVICE LOCATION.

F. CONTRACTOR SHALL THOROUGHLY FAMILIARIZE HIMSELF WITH EXISTING ELECTRICAL SYSTEM WHICH WILL BE AFFECTED BY THE DEMOLITION WORK. CONTRACTOR SHALL OBTAIN PERMISSION FROM OWNER'S REPRESENTATIVE TO SHUT OFF SERVICES OR SYSTEMS WHICH MAY AFFECT OTHER AREAS BEYOND THE LIMITS OF THE IMMEDIATE DEMOLITION AREA. SUCH PERMISSION WILL BE GRANTED ONLY AFTER OWNER'S REPRESENTATIVE IS INFORMED OF THE REASON FOR AND DURATION OF THE SHUTDOWN AND IS SATISFIED THAT THE SHUTDOWN CAN BE MADE WITH AS LITTLE INCONVENIENCE TO OTHER AREAS AS POSSIBLE.

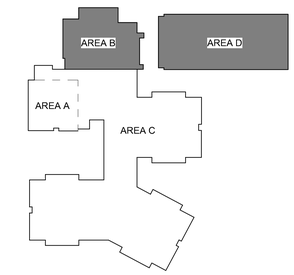
G. ABBREVIATIONS:
- E - EXISTING ITEM TO REMAIN
- ER - NEW LOCATION OF EXISTING ITEM
- N - NEW ITEM IN EXISTING LOCATION
- R - EXISTING ITEM TO BE REMOVED, PATCH AND/OR COVER
- RN - REPLACE EXISTING WITH NEW
- RR - EXISTING ITEM TO BE REMOVED AND RELOCATED/REINSTALLED
- SR - (S) SURFACE RACEWAY/CONDUIT

KEYNOTES

1 REMOVE AND PULL BACK ELECTRICAL CONNECTIONS TO ROOF MOUNTED EQUIPMENT TO ALLOW FOR STRUCTURAL REINFORCEMENT AND ROOF REPLACEMENT.

2 REMOVE EXISTING EXPOSED COMMUNICATIONS CABLING FROM ROOF AND PROTECT IN PLACE DURING ROOF AND STRUCTURAL IMPROVEMENTS.

KEY PLAN



BEAVERTON SCHOOL DISTRICT

COOPER MOUNTAIN ELEMENTARY
7670 SW 170th AVE
BEAVERTON, OR 97007

OHPLANNING+DESIGN, ARCHITECTURE
115 NW 1st Ave, Ste, 300
Portland, OR 97209

Consultants:

KCL ENGINEERING © 2020
KCL Engineering
2175 NW Raleigh Street, Suite 110
Portland, OR, 97210

COOPER MOUNTAIN ELEMENTARY SCHOOL
SEISMIC SRGP IMPROVEMENTS

PERMIT/BID SET

REGISTERED PROFESSIONAL ENGINEER
OREGON
JULY 13, 2007
ADAM R. KOBLER
EXPIRES: 6/30/2021

Date:	12/04/2020
Project Number:	90060
Drawn By:	NB
Checked By:	AK

Revision Schedule:

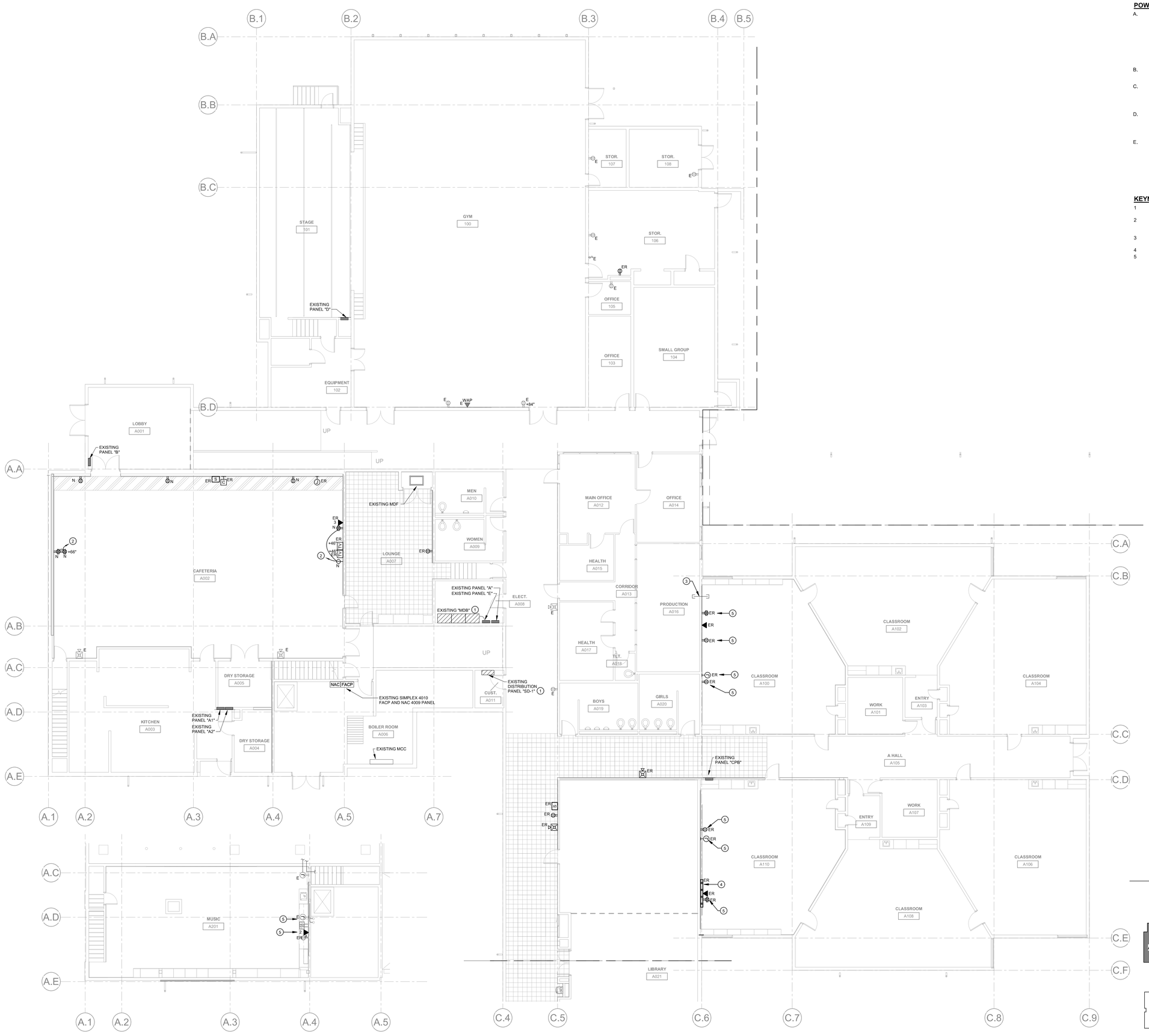
Sheet Title:
ELECTRICAL DEMOLITION ROOF PLANS - AREA B, D

Sheet Number:
ED-220

PERMIT/BID SET

11/30/2020 11:46:39 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.



2 SECOND FLOOR ELECTRICAL PLAN - AREA A
1/8" = 1'-0"

1 FIRST FLOOR ELECTRICAL PLAN - AREA A, B, C NORTH
1/8" = 1'-0"

POWER GENERAL NOTES

A. COORDINATE LOCATION/INSTALLATION OF MECHANICAL AND ELECTRICAL WORK WITH ALL OTHER TRADES. NO ASPECT OF A SYSTEM INSTALLATION OR ITS ROUGH-IN SHALL COMMENCE UNTIL PROPER AND TIMELY COORDINATION WITH ALL TRADES ASSOCIATED WITH THE INSTALLATION HAS TRANSPIRED. ITEMS TO BE COORDINATED SHALL INCLUDE BUT NOT BE LIMITED TO: BUILDING STRUCTURE, SHEET METAL, PIPING SYSTEMS, LIGHT FIXTURES, CONDUITS, CABLE TRAYS, ETC. REFER TO ALL GENERAL, MECHANICAL, AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT.

B. COORDINATE ELECTRICAL REQUIREMENTS FOR MECHANICAL UNITS WITH M.C. AND FINAL MECHANICAL SHOP DRAWINGS.

C. PROVIDE THE REQUIRED PENETRATIONS WHILE ROUTING CABLING THROUGH THE BUILDING. COORDINATE FIRE RATED WALL PENETRATIONS. PROVIDE CONDUIT SLEEVES AND FIRE STOPPING TO MAINTAIN THAT RATING.

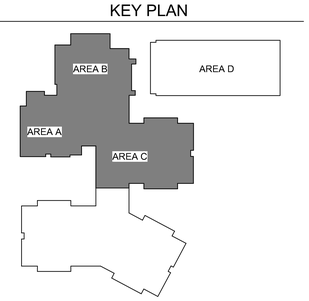
D. WHERE EXISTING DEVICES ARE RELOCATED TO A MODIFIED WALL OR TO A NEW LOCATION, PULL BACK EXISTING CONDUCTORS TO ACCESSIBLE LOCATION, SPLICE AND EXTEND NEW WIRING AND CONDUIT TO NEW DEVICE LOCATION.

E. ABBREVIATIONS:
- E - EXISTING ITEM TO REMAIN
- ER - NEW LOCATION OF EXISTING ITEM
- N - NEW ITEM IN EXISTING LOCATION
- R - EXISTING ITEM TO BE REMOVED, PATCH AND/OR COVER
- RN - REPLACE EXISTING WITH NEW
- RR - EXISTING ITEM TO BE REMOVED AND RELOCATED/REINSTALLED
- SR - SURFACE RACEWAY/CONDUIT

KEYNOTES (#)

1 PROVIDE NEW CONDUIT CONNECTION(S) AT EQUIPMENT, REFER TO ONE-LINE DIAGRAM FOR REQUIREMENTS.
2 RECONNECT TO EXISTING CIRCUIT. INTERCEPT AND EXTEND BRANCH CIRCUIT CONDUCTORS TO NEW FLUSH MOUNT DEVICES CONCEALED WITHIN WALL FINISH.
3 EXISTING TELECOM CONDUIT SLEEVE IN ACCESSIBLE CEILING.
4 REINSTALL SURFACE MOUNT PLUGMOLD.
5 REINSTALL DEVICE FLUSH MOUNTED. INTERCEPT AND REROUTE CABLING CONCEALED IN WALL.

KEY PLAN



BEAVERTON SCHOOL DISTRICT

COOPER MOUNTAIN ELEMENTARY
7670 SW 170th AVE
BEAVERTON, OR 97007

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

Consultants:

KCL ENGINEERING © 2020
KCL Engineering
2175 NW Raleigh Street, Suite 110
Portland, OR, 97210

COOPER MOUNTAIN ELEMENTARY SCHOOL
SEISMIC SRGP IMPROVEMENTS

PERMIT/BID SET

REGISTERED PROFESSIONAL ENGINEER
OREGON
JULY 13, 2007
ADAM R. KOBLE
EXPIRES: 6/30/2021

Date: 12/04/2020
Project Number: 90060
Drawn By: NB
Checked By: AK

Revision Schedule:

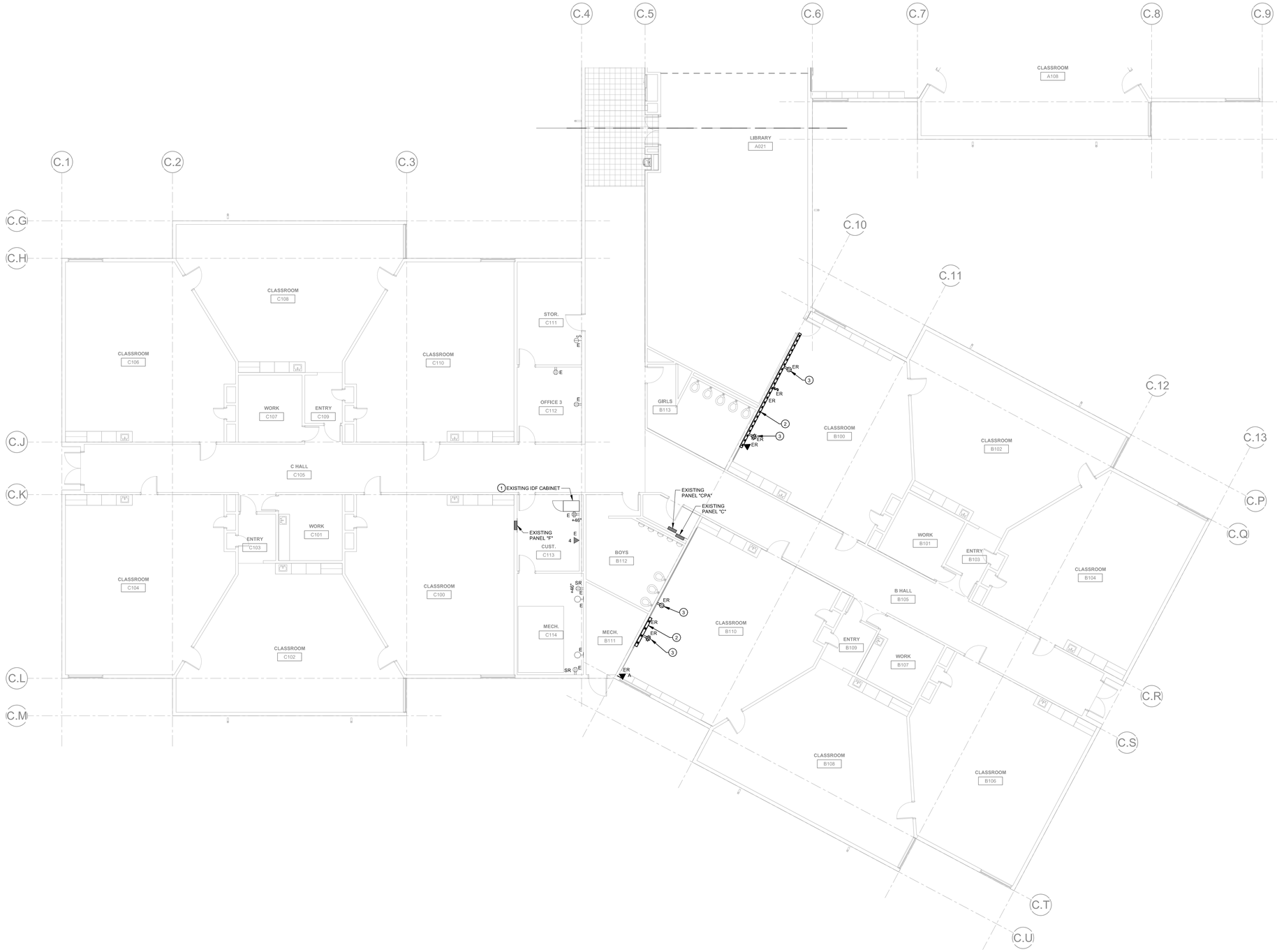
Sheet Title:
ELECTRICAL FLOOR PLANS - AREA A, B, C NORTH

Sheet Number:
E-201

PERMIT/BID SET

11/30/2020 11:46:08 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 FIRST FLOOR ELECTRICAL PLAN - AREA C SOUTH
1/8" = 1'-0"

POWER GENERAL NOTES

A. COORDINATE LOCATION/INSTALLATION OF MECHANICAL AND ELECTRICAL WORK WITH ALL OTHER TRADES. NO ASPECT OF A SYSTEM INSTALLATION OR ITS ROUGH-IN SHALL COMMENCE UNTIL PROPER AND TIMELY COORDINATION WITH ALL TRADES ASSOCIATED WITH THE INSTALLATION HAS TRANSPIRED. ITEMS TO BE COORDINATED SHALL INCLUDE BUT NOT BE LIMITED TO: BUILDING STRUCTURE, SHEET METAL, PIPING SYSTEMS, LIGHT FIXTURES, CONDUITS, CABLE TRAYS, ETC. REFER TO ALL GENERAL, MECHANICAL, AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT.

B. COORDINATE ELECTRICAL REQUIREMENTS FOR MECHANICAL UNITS WITH M.C. AND FINAL MECHANICAL SHOP DRAWINGS.

C. PROVIDE THE REQUIRED PENETRATIONS WHILE ROUTING CABLING THROUGH THE BUILDING. COORDINATE FIRE RATED WALL PENETRATIONS. PROVIDE CONDUIT SLEEVES AND FIRE STOPPING TO MAINTAIN THAT RATING.

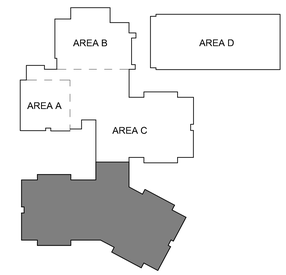
D. WHERE EXISTING DEVICES ARE RELOCATED TO A MODIFIED WALL OR TO A NEW LOCATION, PULL BACK EXISTING CONDUCTORS TO ACCESSIBLE LOCATION, SPLICE AND EXTEND NEW WIRING AND CONDUIT TO NEW DEVICE LOCATION.

E. ABBREVIATIONS:
- E - EXISTING ITEM TO REMAIN
- ER - NEW LOCATION OF EXISTING ITEM
- N - NEW ITEM IN EXISTING LOCATION
- R - EXISTING ITEM TO BE REMOVED, PATCH AND/OR COVER
- RN - REPLACE EXISTING WITH NEW
- RR - EXISTING ITEM TO BE REMOVED AND RELOCATED/REINSTALLED
- SR - SURFACE RACEWAY/CONDUIT

KEYNOTES (#)

1 EXISTING IDF CABINET AND COMMUNICATIONS CONDUIT TO REMAIN. PROTECT IN PLACE.
2 REINSTALL SURFACE MOUNT PLUGMOLD.
3 REINSTALL DEVICE FLUSH MOUNTED, INTERCEPT AND REROUTE CABLING CONCEALED IN WALL.

KEY PLAN



BEAVERTON SCHOOL DISTRICT

COOPER MOUNTAIN ELEMENTARY

7670 SW 170th AVE
BEAVERTON, OR 97007

OHPLANNING+DESIGN, ARCHITECTURE
115 NW 1st Ave, Ste, 300
Portland, OR 97209

Consultants:

KCL ENGINEERING © 2020
KCL Engineering
2175 NW Raleigh Street, Suite 110
Portland, OR, 97210

COOPER MOUNTAIN ELEMENTARY SCHOOL
SEISMIC SRGP IMPROVEMENTS

PERMIT/BID SET

REGISTERED PROFESSIONAL ENGINEER
OREGON
ADAM R. KOBLE
EXPIRES: 6/30/2021

Date: 12/04/2020
Project Number: 90060
Drawn By: NB
Checked By: AK

Revision Schedule:

Sheet Title:
ELECTRICAL FLOOR PLAN - AREA C SOUTH

Sheet Number:
E-202

PERMIT/BID SET

11/30/2020 11:46:10 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.

POWER GENERAL NOTES

A. COORDINATE LOCATION/INSTALLATION OF MECHANICAL AND ELECTRICAL WORK WITH ALL OTHER TRADES. NO ASPECT OF A SYSTEM INSTALLATION OR ITS ROUGH-IN SHALL COMMENCE UNTIL PROPER AND TIMELY COORDINATION WITH ALL TRADES ASSOCIATED WITH THE INSTALLATION HAS TRANSPIRED. ITEMS TO BE COORDINATED SHALL INCLUDE BUT NOT BE LIMITED TO: BUILDING STRUCTURE, SHEET METAL, PIPING SYSTEMS, LIGHT FIXTURES, CONDUITS, CABLE TRAYS, ETC. REFER TO ALL GENERAL, MECHANICAL, AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT.

B. COORDINATE ELECTRICAL REQUIREMENTS FOR MECHANICAL UNITS WITH M.C. AND FINAL MECHANICAL SHOP DRAWINGS.

C. PROVIDE THE REQUIRED PENETRATIONS WHILE ROUTING CABLING THROUGH THE BUILDING. COORDINATE FIRE RATED WALL PENETRATIONS. PROVIDE CONDUIT SLEEVES AND FIRE STOPPING TO MAINTAIN THAT RATING.

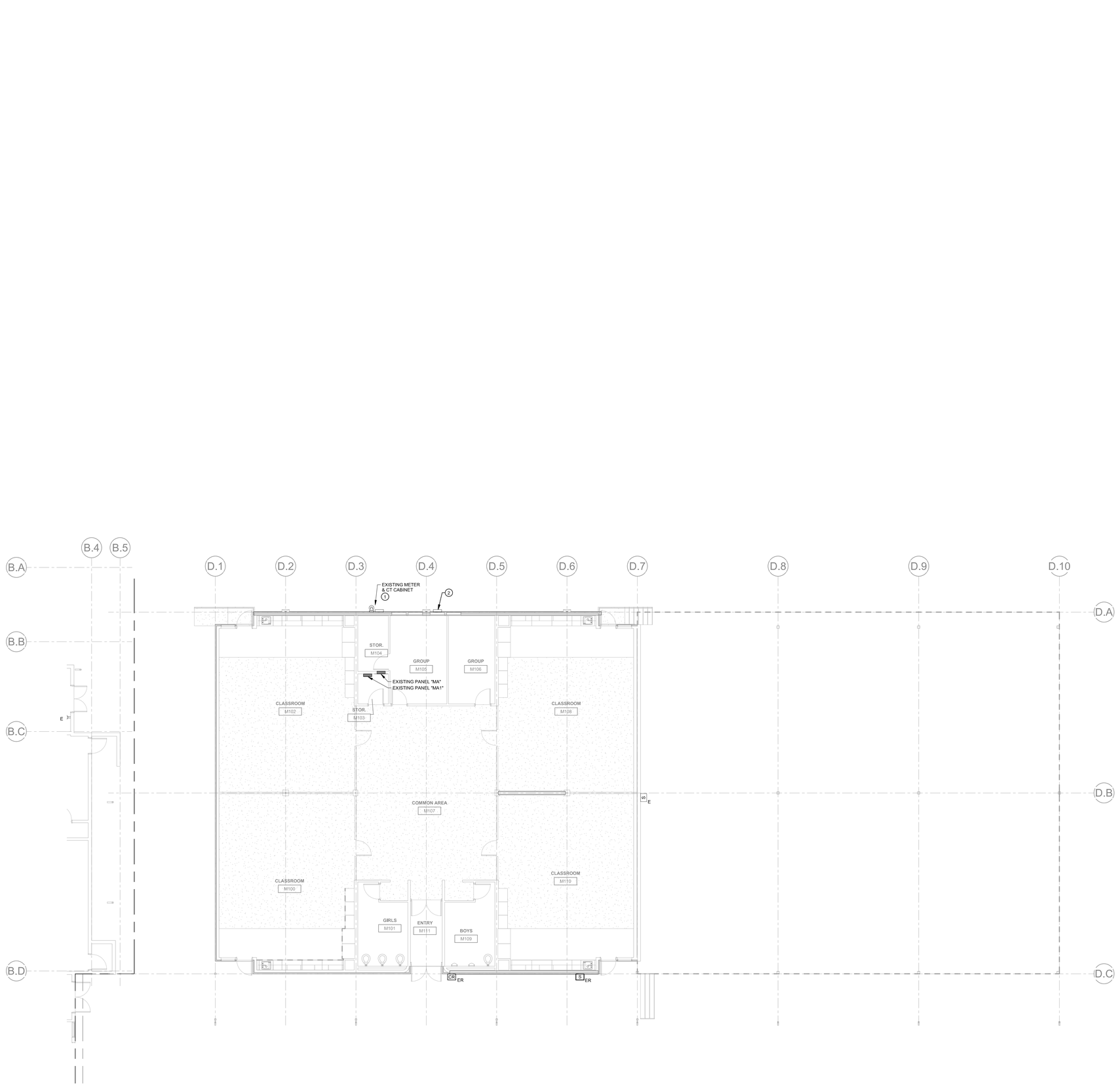
D. WHERE EXISTING DEVICES ARE RELOCATED TO A MODIFIED WALL OR TO A NEW LOCATION, PULL BACK EXISTING CONDUCTORS TO ACCESSIBLE LOCATION, SPLICE AND EXTEND NEW WIRING AND CONDUIT TO NEW DEVICE LOCATION.

E. ABBREVIATIONS:
- E - EXISTING ITEM TO REMAIN
- ER - NEW LOCATION OF EXISTING ITEM
- N - NEW ITEM IN EXISTING LOCATION
- R - EXISTING ITEM TO BE REMOVED, PATCH AND/OR COVER
- RN - REPLACE EXISTING WITH NEW
- RR - EXISTING ITEM TO BE REMOVED AND RELOCATED/REINSTALLED
- SR - SURFACE RACEWAY/CONDUIT

KEYNOTES (#)

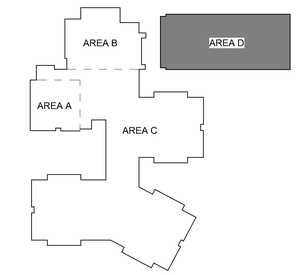
1 REINSTALL EXISTING ELECTRICAL SERVICE TERMINAL/CT CABINET AND METER. COORDINATE WITH ARCHITECT AND UTILITY COMPANY.

2 RECONNECT TO IRRIGATION CONTROLLER. COORDINATE WITH ARCHITECT.



1 FIRST FLOOR ELECTRICAL PLAN - AREA D
1/8" = 1'-0"

KEY PLAN



BEAVERTON SCHOOL DISTRICT

COOPER MOUNTAIN ELEMENTARY
7670 SW 170th AVE
BEAVERTON, OR 97007

OHPLANNING+DESIGN, ARCHITECTURE
115 NW 1st Ave, Ste, 300
Portland, OR 97209

Consultants:

KCL ENGINEERING © 2020
KCL Engineering
2175 NW Raleigh Street, Suite 110
Portland, OR, 97210

COOPER MOUNTAIN ELEMENTARY SCHOOL
SEISMIC SRGP IMPROVEMENTS

PERMIT/BID SET

REGISTERED PROFESSIONAL ENGINEER
OREGON
ADAM R. KOBLE
EXPIRES: 6/30/2021

Date:	12/04/2020
Project Number:	90060
Drawn By:	NB
Checked By:	AK

Revision Schedule:

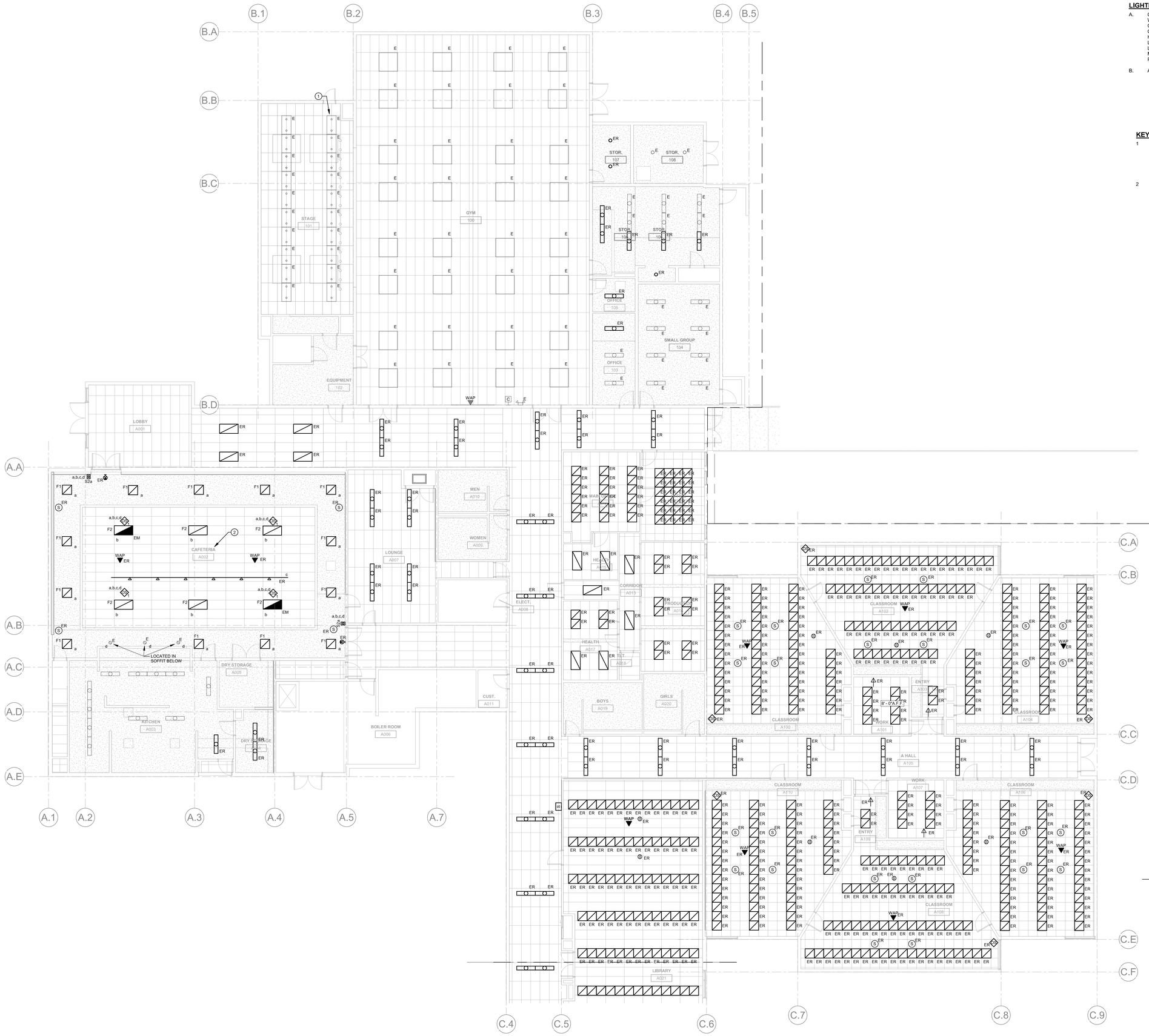
Sheet Title:
ELECTRICAL FLOOR PLAN - AREA D

Sheet Number:
E-203

PERMIT/BID SET

11/30/2020 11:46:11 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.



LIGHTING GENERAL NOTES

A. COORDINATE LOCATION/INSTALLATION OF MECHANICAL AND ELECTRICAL WORK WITH ALL OTHER TRADES. NO ASPECT OF A SYSTEM INSTALLATION OR ITS ROUGH-IN SHALL COMMENCE UNTIL PROPER AND TIMELY COORDINATION WITH ALL TRADES ASSOCIATED WITH THE INSTALLATION HAS TRANSPIRED. ITEMS TO BE COORDINATED SHALL INCLUDE BUT NOT BE LIMITED TO: BUILDING STRUCTURE, SHEET METAL, ALL PIPING SYSTEMS, LIGHT FIXTURES, CONDUITS, CABLE TRAYS, ETC. REFER TO ALL GENERAL, MECHANICAL, AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT.

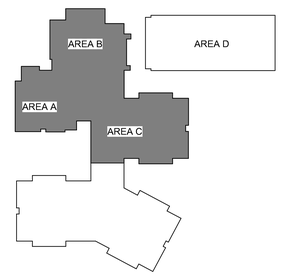
B. ABBREVIATIONS:
- E - EXISTING ITEM TO REMAIN
- ER - NEW LOCATION OF EXISTING ITEM
- N - NEW ITEM IN EXISTING LOCATION
- R - EXISTING ITEM TO BE REMOVED, PATCH AND/OR COVER
- RN - REPLACE EXISTING WITH NEW
- RR - EXISTING ITEM TO BE REMOVED AND RELOCATED/REINSTALLED
- SR - SURFACE RACEWAY/CONDUIT

KEYNOTES (#)

1 PROVIDE BRACING FOR THIS ROW OF PENDANT FIXTURES. FIXTURE ROW SHALL BE BRACED TO PREVENT SWINGING INTO OTHER PIPING OR MATERIALS. PROVIDE CABLE ATTACHMENT FROM EACH END, BOTTOM OF PENDANT ROD TO PERPENDICULAR WALL, AND EVERY 12 FEET BOTTOM OF PENDANT ROD TO CEILING STRUCTURE ABOVE AT 45 DEGREE ANGLE.

2 CONNECT NEW LIGHTING FIXTURES IN THIS AREA TO EXISTING LIGHTING BRANCH CIRCUIT SERVING REMOVED RECESSED LIGHTING. EXISTING LOAD REMOVED 1920VA, NET LOAD REDUCTION. EXISTING LIGHTING TO REMAIN SHALL REMAIN ON EXISTING LIGHTING BRANCH CIRCUIT(S).

KEY PLAN



1 FIRST FLOOR ELECTRICAL CEILING PLAN - AREA A, B, C NORTH
1/8" = 1'-0"

11/30/2020 11:46:12 PM

BEAVERTON SCHOOL DISTRICT

COOPER MOUNTAIN ELEMENTARY
7670 SW 170th AVE
BEAVERTON, OR 97007

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

Consultants:

KCL ENGINEERING © 2020
KCL Engineering
2175 NW Raleigh Street, Suite 110
Portland, OR, 97210

COOPER MOUNTAIN ELEMENTARY SCHOOL
SEISMIC SRGP IMPROVEMENTS

PERMIT/BID SET

REGISTERED PROFESSIONAL ENGINEER
OREGON
JULY 13, 2007
ANDREW K. KOBLE
EXPIRES: 6/30/2021

Date: 12/04/2020
Project Number: 90060
Drawn By: NB
Checked By: AK

Revision Schedule:

Sheet Title:
ELECTRICAL CEILING PLAN - AREA A, B, C NORTH

Sheet Number:
E-211

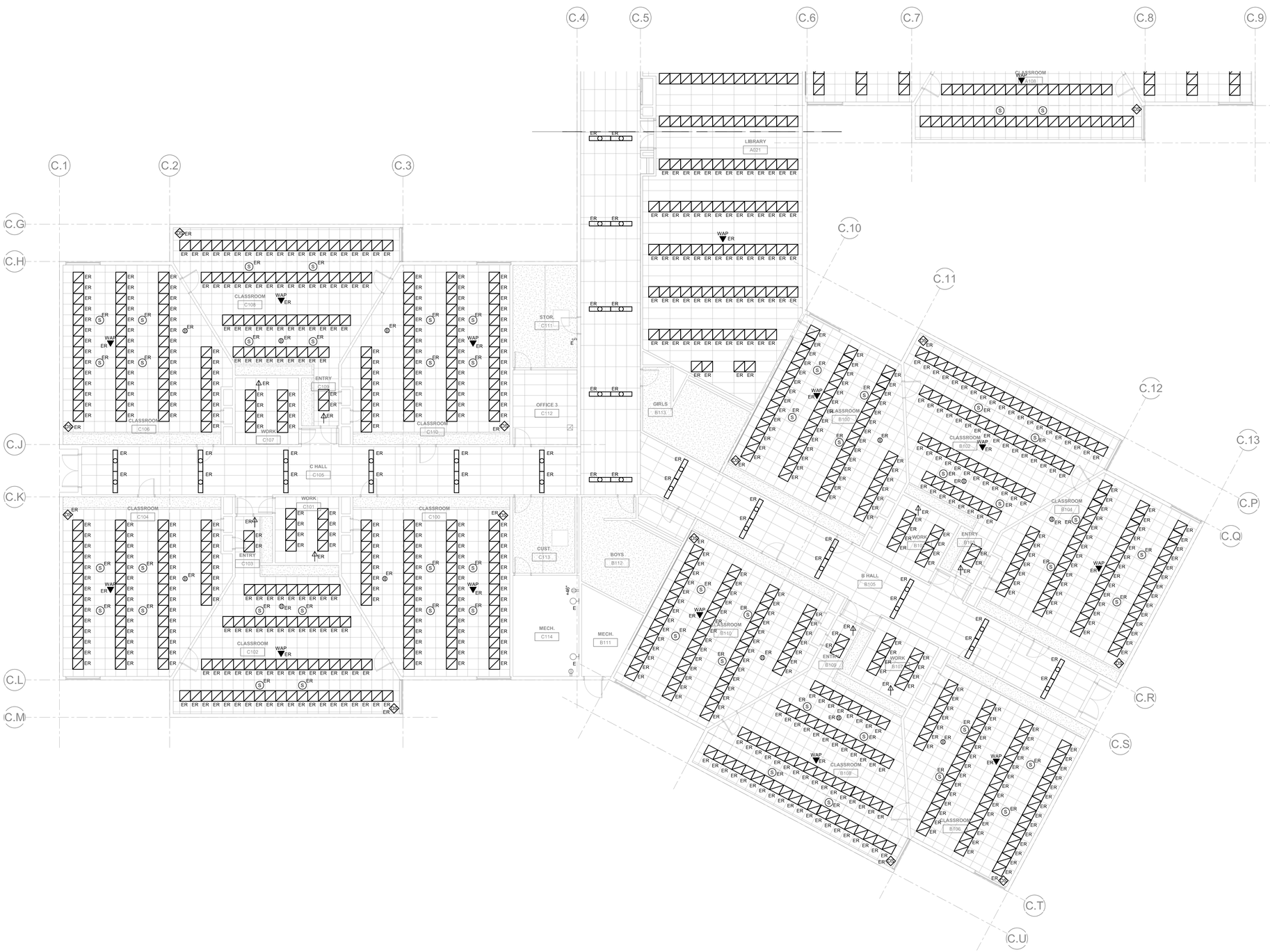
PERMIT/BID SET

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.

LIGHTING GENERAL NOTES

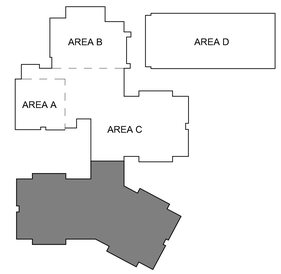
A. COORDINATE LOCATION/INSTALLATION OF MECHANICAL AND ELECTRICAL WORK WITH ALL OTHER TRADES. NO ASPECT OF A SYSTEM INSTALLATION OR ITS ROUGH-IN SHALL COMMENCE UNTIL PROPER AND TIMELY COORDINATION WITH ALL TRADES ASSOCIATED WITH THE INSTALLATION HAS TRANSPIRED. ITEMS TO BE COORDINATED SHALL INCLUDE BUT NOT BE LIMITED TO: BUILDING STRUCTURE, SHEET METAL, ALL PIPING SYSTEMS, LIGHT FIXTURES, CONDUITS, CABLE TRAYS, ETC. REFER TO ALL GENERAL, MECHANICAL, AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT.

B. ABBREVIATIONS:
- E - EXISTING ITEM TO REMAIN
- ER - NEW LOCATION OF EXISTING ITEM
- N - NEW ITEM IN EXISTING LOCATION
- R - EXISTING ITEM TO BE REMOVED, PATCH AND/OR COVER
- RN - REPLACE EXISTING WITH NEW
- RR - EXISTING ITEM TO BE REMOVED AND RELOCATED/REINSTALLED
- SR - SURFACE RACEWAY/CONDUIT



1 FIRST FLOOR ELECTRICAL CEILING PLAN - AREA C SOUTH
1/8" = 1'-0"

KEY PLAN



11/30/2020 11:46:19 PM

BEAVERTON SCHOOL DISTRICT

COOPER MOUNTAIN ELEMENTARY
7670 SW 170th AVE
BEAVERTON, OR 97007

OHPLANNING+DESIGN, ARCHITECTURE
115 NW 1st Ave, Ste, 300
Portland, OR 97209

Consultants:

KCL ENGINEERING © 2020
KCL Engineering
2175 NW Raleigh Street, Suite 110
Portland, OR, 97210

COOPER MOUNTAIN ELEMENTARY SCHOOL
SEISMIC SRGP IMPROVEMENTS

PERMIT/BID SET

REGISTERED PROFESSIONAL ENGINEER 9022 OREGON 1-13-21 ALAM R. KOBIER
EXPIRES: 6/30/2021

Date:	12/04/2020
Project Number:	90060
Drawn By:	NB
Checked By:	AK

Revision Schedule:

Sheet Title:
ELECTRICAL CEILING PLAN - AREA C SOUTH

Sheet Number:
E-212

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.

LIGHTING GENERAL NOTES

A. COORDINATE LOCATION/INSTALLATION OF MECHANICAL AND ELECTRICAL WORK WITH ALL OTHER TRADES. NO ASPECT OF A SYSTEM INSTALLATION OR ITS ROUGH-IN SHALL COMMENCE UNTIL PROPER AND TIMELY COORDINATION WITH ALL TRADES ASSOCIATED WITH THE INSTALLATION HAS TRANSPIRED, ITEMS TO BE COORDINATED SHALL INCLUDE BUT NOT BE LIMITED TO: BUILDING STRUCTURE, SHEET METAL, ALL PIPING SYSTEMS, LIGHT FIXTURES, CONDUITS, CABLE TRAYS, ETC. REFER TO ALL GENERAL, MECHANICAL, AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT.

B. ABBREVIATIONS:
- E - EXISTING ITEM TO REMAIN
- ER - NEW LOCATION OF EXISTING ITEM
- N - NEW ITEM IN EXISTING LOCATION
- R - EXISTING ITEM TO BE REMOVED, PATCH AND/OR COVER
- RN - REPLACE EXISTING WITH NEW.
- RR - EXISTING ITEM TO BE REMOVED AND RELOCATED/REINSTALLED
- SR - SURFACE RACEWAY/CONDUIT

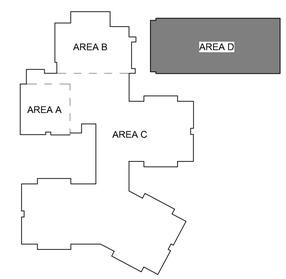
KEYNOTES (#)

1 RECONNECT TO EXISTING LIGHTING BRANCH CIRCUIT. MAINTAIN EXISTING PHOTOCELL CONTROLS TO NEW LIGHT FIXTURES.



1 FIRST FLOOR ELECTRICAL CEILING PLAN - AREA D
1/8" = 1'-0"

KEY PLAN



BEAVERTON SCHOOL DISTRICT

COOPER MOUNTAIN ELEMENTARY
7670 SW 170th AVE
BEAVERTON, OR 97007

OHPLANNING+DESIGN, ARCHITECTURE
115 NW 1st Ave, Ste, 300
Portland, OR 97209

Consultants:

KCL ENGINEERING © 2020
KCL Engineering
2175 NW Raleigh Street, Suite 110
Portland, OR, 97210

COOPER MOUNTAIN ELEMENTARY SCHOOL
SEISMIC SRGP IMPROVEMENTS

PERMIT/BID SET

REGISTERED PROFESSIONAL ENGINEER
OREGON
ADAM R. KOBI
EXPIRES: 6/30/2021

Date: 12/04/2020
Project Number: 90060
Drawn By: NB
Checked By: AK

Revision Schedule:

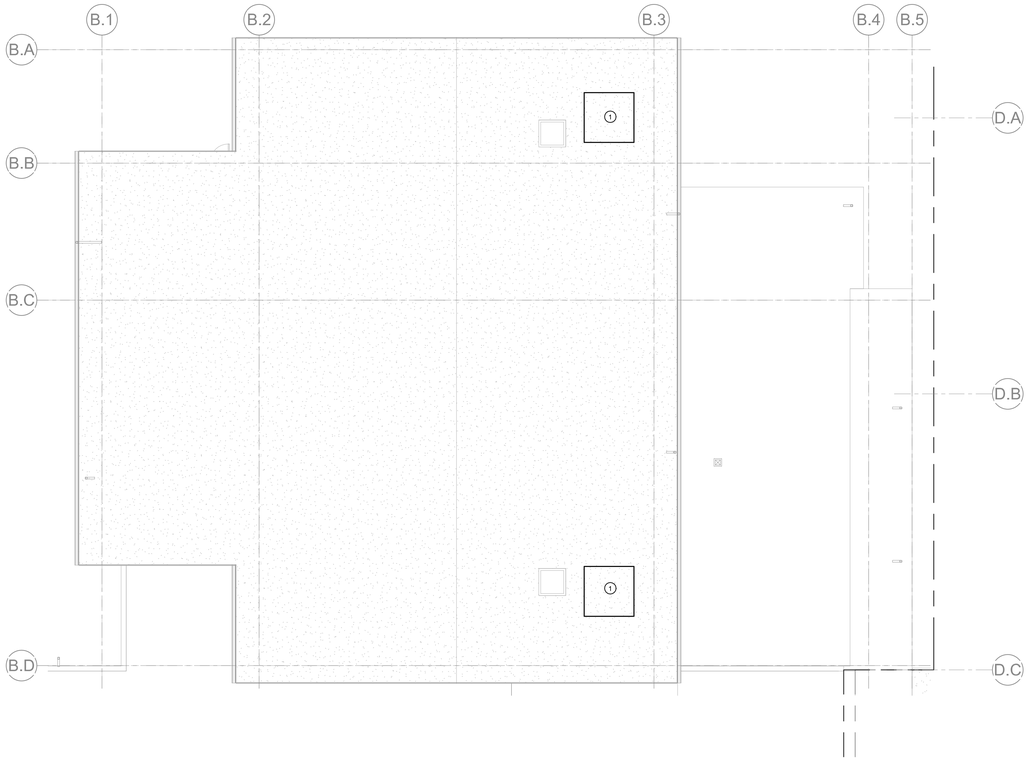
Sheet Title:
ELECTRICAL CEILING PLAN - AREA D

Sheet Number:
E-213

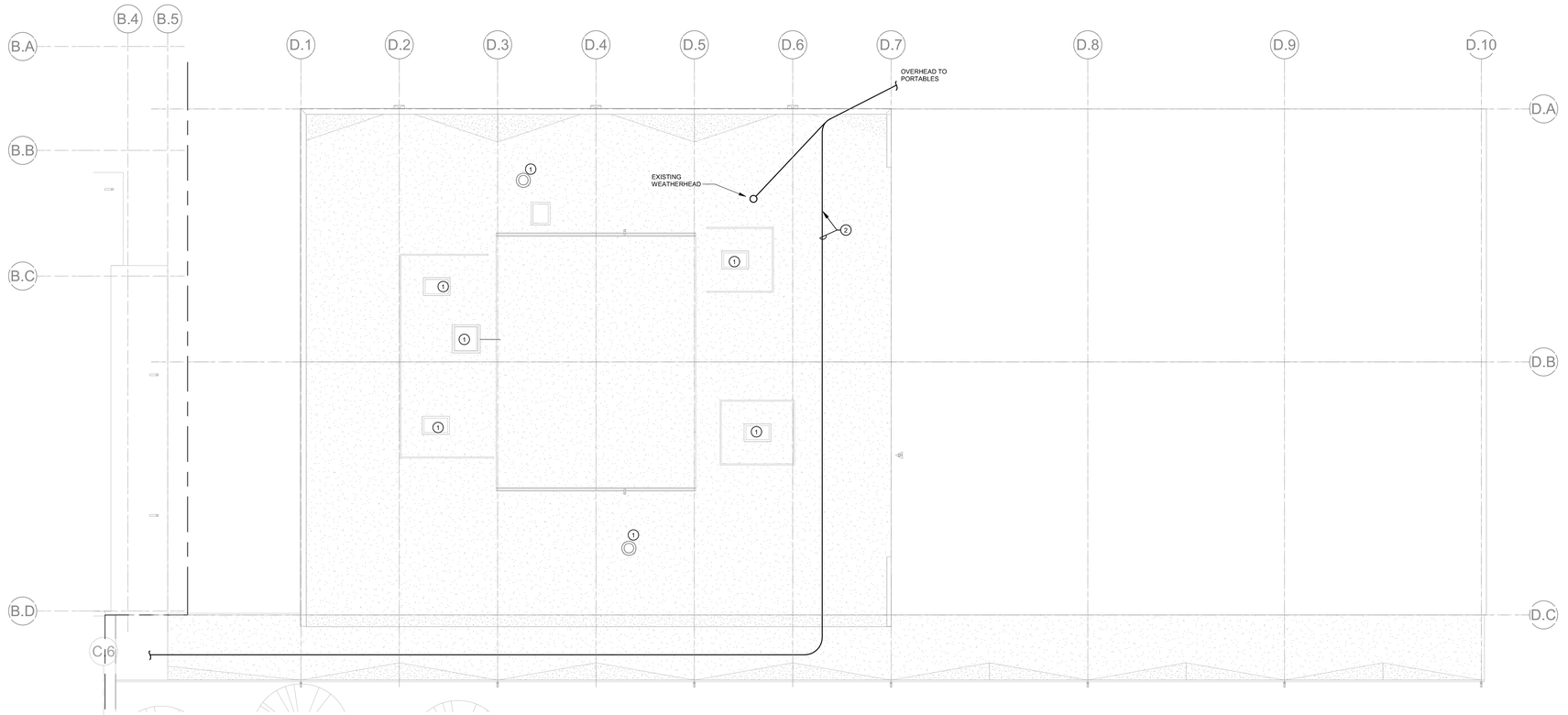
PERMIT/BID SET

11/30/2020 11:46:21 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 ELECTRICAL PLAN - AREA B
1/8" = 1'-0"



2 ROOF ELECTRICAL PLAN - AREA D
1/8" = 1'-0"

11/30/2020 11:46:23 PM

POWER GENERAL NOTES

A. COORDINATE LOCATION/INSTALLATION OF MECHANICAL AND ELECTRICAL WORK WITH ALL OTHER TRADES. NO ASPECT OF A SYSTEM INSTALLATION OR ITS ROUGH-IN SHALL COMMENCE UNTIL PROPER AND TIMELY COORDINATION WITH ALL TRADES ASSOCIATED WITH THE INSTALLATION HAS TRANSPIRED. ITEMS TO BE COORDINATED SHALL INCLUDE BUT NOT BE LIMITED TO: BUILDING STRUCTURE, SHEET METAL, PIPING SYSTEMS, LIGHT FIXTURES, CONDUITS, CABLE TRAYS, ETC. REFER TO ALL GENERAL, MECHANICAL, AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT.

B. COORDINATE ELECTRICAL REQUIREMENTS FOR MECHANICAL UNITS WITH M.C. AND FINAL MECHANICAL SHOP DRAWINGS.

C. PROVIDE THE REQUIRED PENETRATIONS WHILE ROUTING CABLING THROUGH THE BUILDING. COORDINATE FIRE RATED WALL PENETRATIONS. PROVIDE CONDUIT SLEEVES AND FIRE STOPPING TO MAINTAIN THAT RATING.

D. WHERE EXISTING DEVICES ARE RELOCATED TO A MODIFIED WALL OR TO A NEW LOCATION, PULL BACK EXISTING CONDUCTORS TO ACCESSIBLE LOCATION, SPLICE AND EXTEND NEW WIRING AND CONDUIT TO NEW DEVICE LOCATION.

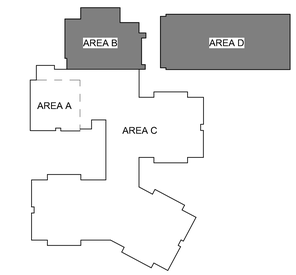
E. ABBREVIATIONS:
- E - EXISTING ITEM TO REMAIN
- ER - NEW LOCATION OF EXISTING ITEM
- N - NEW ITEM IN EXISTING LOCATION
- R - EXISTING ITEM TO BE REMOVED, PATCH AND/OR COVER
- RN - REPLACE EXISTING WITH NEW
- RR - EXISTING ITEM TO BE REMOVED AND RELOCATED/REINSTALLED
- SR - SURFACE RACEWAY/CONDUIT

KEYNOTES (#)

1 REINSTALL ELECTRICAL CONNECTIONS TO MECHANICAL UNIT. REINSTALL EXISTING CONDUCTORS IN NEW CONDUIT.

2 REINSTALL, RECONNECT EXISTING COMMUNICATIONS CABLING UPON COMPLETION OF STRUCTURAL AND ROOF IMPROVEMENTS.

KEY PLAN



BEAVERTON SCHOOL DISTRICT

COOPER MOUNTAIN ELEMENTARY

7670 SW 170th AVE
BEAVERTON, OR 97007

OHPLANNING+DESIGN, ARCHITECTURE
115 NW 1st Ave, Ste, 300
Portland, OR 97209

Consultants:

KCL ENGINEERING © 2020
KCL Engineering
2175 NW Raleigh Street, Suite 110
Portland, OR, 97210

COOPER MOUNTAIN ELEMENTARY SCHOOL
SEISMIC SRGP IMPROVEMENTS

PERMIT/BID SET

REGISTERED PROFESSIONAL ENGINEER
OREGON
JULY 13, 2007
ADAM R. KOBLER
EXPIRES: 6/30/2021

Date:	12/04/2020
Project Number:	90060
Drawn By:	NB
Checked By:	AK

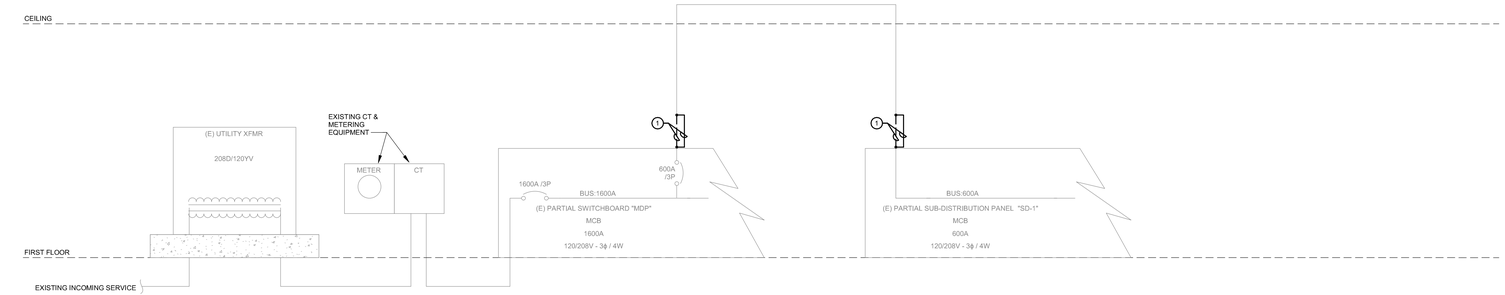
Revision Schedule:

Sheet Title:
ELECTRICAL ROOF PLANS - AREA B, D

Sheet Number:
E-220

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.



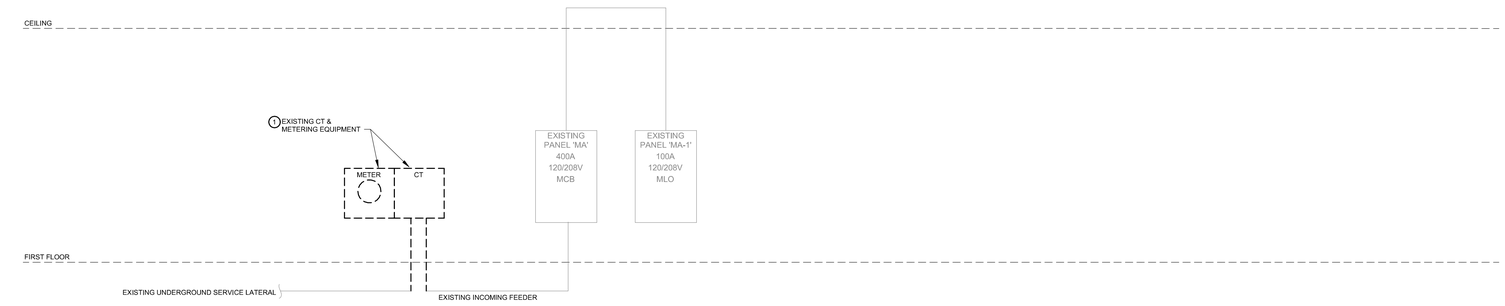
1 PARTIAL ONE-LINE DIAGRAM
NOT TO SCALE

ELECTRICAL RISER DIAGRAM NOTES

A. DIAGRAM INDICATES OVERALL LAYOUT OF ELECTRICAL DISTRIBUTION SYSTEM. REFER TO FLOOR PLANS FOR EQUIPMENT LOCATIONS.

POWER RISER KEYED NOTES: (#)

1. EXPOSED FEEDER CONDUIT ENTRY AT EQUIPMENT, (2) EXISTING 4" RIGID CONDUIT WITH #500KCMIL COPPER CONDUCTORS WITH GROUND. REPLACE EXISTING RIGID CONDUIT ENTRY WITH FLEXIBLE METAL CONDUIT AT EQUIPMENT, 2FT LENGTH. DISCONNECT, PULL BACK AND RETERMINATE CONDUCTORS TO ALLOW CONDUIT WORK.



2 PARTIAL ONE-LINE DIAGRAM (1986 MODULAR BUILDING)
NOT TO SCALE

ELECTRICAL RISER DIAGRAM NOTES

A. DIAGRAM INDICATES OVERALL LAYOUT OF ELECTRICAL DISTRIBUTION SYSTEM. REFER TO FLOOR PLANS FOR EQUIPMENT LOCATIONS.

POWER RISER KEYED NOTES: (#)

1. REMOVE EXISTING UTILITY METER, CT CABINET, CONDUCTORS AND CONDUIT AS REQUIRED TO ALLOW FOR EXTERIOR WALL IMPROVMENTS. COORDINATE WITH ARCHITECTURAL AND STRUCTURAL WORK. REINSTALL UPON COMPLETION OF WORK.

LIGHTING FIXTURE SCHEDULE

NOTES:

1. ALL FIXTURES SHALL BE U.L. OR SIMILARLY LISTED.
2. REFER TO ARCHITECTURAL DOCUMENTS FOR EXACT MOUNTING LOCATIONS, DETAILS, AND CONFIGURATIONS OF ALL LUMINAIRES. IF ARCHITECTURAL DRAWINGS DO NOT CLARIFY EXACT MOUNTING LOCATION OR DETAIL, ISSUE AN RFI FOR ARCHITECT TO SPECIFICALLY CLARIFY PRIOR TO FIXTURE ROUGH-IN.
3. VERIFY COMPATIBILITY OF LIGHT FIXTURES WITH CEILING MATERIAL, ADJACENT CONSTRUCTION, AND ADJACENT FINISHES PRIOR TO SHOP DRAWINGS SUBMITTAL NOTIFY THE ARCHITECT OF ANY CONFLICTS WITH THE PROPOSED INSTALLATION.
4. CONTRACTOR IS RESPONSIBLE FOR ALL MISCELLANEOUS HARDWARE NECESSARY TO INSTALL AND SUPPORT THE LUMINAIRES.
5. VERIFY COLOR TEMPERATURE SELECTIONS OF EACH LIGHTING FIXTURE WITH OWNER PRIOR TO ORDERING AND INSTALLATION.
6. CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND FILLING OUT ALL UTILITY REBATE FORMS FOR OWNER.

DESIGNED BY: INITIALS

TYPE	MANUFACTURER	MODEL	DESCRIPTION	VOLTAGE	LOAD-VA	LAMP TYPE	APPROVED EQUALS
F1	LITHONIA	2VTL2-48L-ADP-EZ1-LP835	RECESSED 2X2 ARCHITECTURAL TROFFER, 3500K, 80CRI. COLD ROLLED STEEL COATED POLYESTER, SINGLE ARCYLIC DIFFUSER, WIDE DISTRIBUTION. 0-10V DIMMING TO 1%.	120 V	38 VA	LED, 4800LM	AS APPROVED BY ENGINEER
F2	LITHONIA	2VTL4-72L-ADP-EZ1-LP835	RECESSED 2X4 ARCHITECTURAL TROFFER, 3500K, 80CRI. COLD ROLLED STEEL COATED POLYESTER, SINGLE ARCYLIC DIFFUSER, WIDE DISTRIBUTION 0-10V DIMMING TO 1%.	120 V	60 VA	LED, 7200LM	AS APPROVED BY ENGINEER
L1	KENALL	MS11FD-PP-DB-20L40K-1-20-BPC	ROUGH SERVICE SURFACE MOUNT SQUARE LED	120 V	20 VA	LED, 2500LM	AS APPROVED BY ENGINEER
W1	LITHONIA	TWR1-40K	EXTERIOR WALL PACK, LED, 4000K, TEXTURED DARK BRONZE, WITH INTEGRAL PHOTOCELL	120 V	14 VA	LED, 1700LM	AS APPROVED BY ENGINEER

LIGHTING CONTROLS SCHEDULE

NOTES:

1. ALL DEVICES SHALL BE U.L. OR SIMILARLY LISTED.
2. ALL DEVICES PROVIDED WITH MANUFACTURER LIMITED 5 YEAR WARRANTY.
3. PROVIDE LIGHTING CONTROLS WITH MANUFACTURER COMPLIANT POWER PACKS AND LOW VOLTAGE ROOM CONTROLLERS IN QUANTITY REQUIRED TO INSTALL A COMPLETE AND OPERATIONAL SYSTEM. MANUFACTURER OR MANUFACTURERS REP TO PROVIDE DEVICE QUANTITES, LAYOUTS AND TYPICAL WIRING DETAILS DURING SHOP SUBMITTAL PROCESS. PROVIDE DIMMING COMPATIBLE DEVICES WHERE DIMMING CONTROLS ARE SHOWN. COORDINATE DIMMING TYPE WITH LIGHTING FIXTURES SHOWN. REFER TO LUMINAIRE SCHEDULE FOR FIXTURE DIMMING TYPE.
4. WHERE WIRELESS LIGHTING CONTROLS ARE PROVIDED. POWERPACKS SHALL BE PROVIDED AND INSTALLED WITHIN MANUFACTURER RECOMENDED DISTANCES TO ENSURE CONTROLLER OPERATION.
5. INSTALL LOW VOLTAGE POWER PACKS AND ROOM CONTROLLERS ABOVE NEARBY ACCESSIBLE CEILING TILES OR IN MECHANICAL/STORAGE SPACES ADJACENT TO CONTROLLED FIXTURES. DO NOT INSTALL POWERPACKS EXPOSED IN COMMON SPACES OR IN INACCESSIBLE LOCATIONS.
6. PROVIDE FACTORY AUTHORIZED REPRESENTATIVE TO DEMONSTRATE TYPICAL INSTALLATION AND COMMISSIONING OF EQUIPMENT.
7. WHERE APPROVED EQUAL MANUFACTURER PRODUCTS SENSOR COVERAGE OR LOAD RATINGS DIFFER FROM BASIS OF DESIGN, CONTRACTOR AND MANUFACTURER ARE RESPONSIBLE FOR PROVIDING ADDITIONAL DEVICES AS NECCESARY TO PROVIDE A COMPLETE AND OPERABLE SYSTEM.
8. LIGHTING CONTROLS BASIS OF DESIGN IS COOPER/GREENGATE STAND-ALONE ROOM CONTROLLER, WITH LOW VOLTAGE INTERFACE TO OCCUPANCY SENSORS AND WALL CONTROLS, AND ADEQUATE NUMBER OF SWITCHING AND DIMMABLE RELAYS TO CONTROL THE LIGHTING AND CIRCUITING DESCRIBED.
9. UNLESS INDICATED OTHERWISE, LIGHTING CONTROL SCHEMES/OPERATION SHALL BE AS FOLLOWS:

CAFETERIA:	ROOM CONTROLLER WITH SENSORS PROGRAMMED FOR VACANCY MODE, MANUAL ON/AUTOMATICOFF OPERATION, 10 MINUTES MINIMUM, 30 MINUTES MAXIMUM DELAY, SET TO 30 MINUTES. PROVIDE DIMMING AND SWITCHING RELAYS COMPATIBLE WITH LIGHTING AND ZONES ON PLANS, INCLUDING A SWITCHED RELAY FOR 3 EXISTING DOWNLIGHTS, DIMMABLE RELAY COMPATIBLE WITH EXISTING INCANDESCENT TRACK LIGHTING, AND DIMMABLE RELAYS COMPATIBLE WITH NEW 0-10V DIMMING LIGHTING FIXTURES SPECIFIED.
EXTERIOR CANOPY:	PHOTOCELL CONTROL, DUSK ON/DAWN OFF.

DESIGNED BY: INITIALS

TYPE	DESCRIPTION	ELECTRICAL	MOUNTING	SENSOR TYPE	COVERAGE	APPROVED MANUFACTURERS
PC	LINE VOLTAGE EXTERIOR PHOTOCELL. WET LOCATION LISTED. ADJUSTABLE SWIVEL MOUNTING, ADJUSTABLE LIGHT LEVEL SLIDE. FAIL-ON OPERATION. UNIVERSAL 120-277V RATED, 1800VA RATED.	120/277V	SWIVEL/KNOCKOUT	N/A	N/A	INTERMATIC, PARAGON, TORK
S2a	MULTI-ZONE WALL STATION, PROVIDE FOUR ZONE PRESET WITH 3 RAISE LOWER (DIMMING) AND ONE ON/OFF (SWITCHING). ROOM CONTROLLER COMPATIBLE, ENABLING MULTI-ZONE SWITCHING CONTROL AND MULTI-SOURCE DIMMING. PROVIDED WITH MANUFACTURER DECORATIVE WALLPLATE. DEVICE FINISH MATCHING WIRING DEVICES SPEC. 2-GANG GROUP OF ZONE CONTROLLER DEVICES AND RELATED BUTTONS. LABEL EACH ZONE WITH NUMBER AND RELATED RAISE/LOWER OR ON/OFF CONTROL.	LOW VOLTAGE	WALL SWITCH / SINGLE GANG	N/A	N/A	COOPER/GREENGATE, LC&D, WATTSTOPPER
OS 1	CEILING MOUNTED, HIGH-CEILING VACANCY/OCCUPANCY SENSOR. WHITE FINISH. ROOM CONTROLLER COMPATIBLE. AUTOMATIC SELF-ADAPTIVE COVERAGE THRESHOLD AND FALSE ON/FALSE OFF CORRECTION. INDOOR USE.	LOW VOLTAGE	CEILING / 14FT MH	PIR	2000 SQ FT / 360 DEG	COOPER/GREENGATE, LC&D, WATTSTOPPER

11/30/2020 11:46:23 PM

BEAVERTON SCHOOL DISTRICT

COOPER MOUNTAIN ELEMENTARY
7670 SW 170th AVE
BEAVERTON, OR 97007

OHPLANNING+DESIGN, ARCHITECTURE
115 NW 1st Ave, Ste, 300
Portland, OR 97209

Consultants:

KCL ENGINEERING © 2020
KCL Engineering
2175 NW Raleigh Street, Suite 110
Portland, OR, 97210

COOPER MOUNTAIN ELEMENTARY SCHOOL
SEISMIC SRGP IMPROVEMENTS

PERMIT/BID SET

REGISTERED PROFESSIONAL ENGINEER
OREGON
ADAM R. KOBLE
EXPIRES: 6/30/2021

Date: 12/04/2020
Project Number: 90060
Drawn By: NB
Checked By: AK

Revision Schedule:

Sheet Title:
ELECTRICAL ONE-LINE DIAGRAM & SCHEDULES

Sheet Number:
E-300

PERMIT/BID SET