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Architecture and Interiors

MSRDesign

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Attachment B

DRAFTING SYMBOLS

- SIM 1 A101 — MULTI - ELEVATION REFERENCE
- SIM A101 — ELEVATION REFERENCE
- SIM 1 A101 — SECTION REFERENCE
- SIM 1 A101 — DETAIL REFERENCE
- SIM 1 A101 — DETAIL REFERENCE
- 1 — WALL TYPE; ACOUSTICAL RATED; FIRE RATING
- 1 — PARTITION TYPE; ACOUSTICAL RATED; FIRE RATING
- 101 / 1'-0" x 1'-0" — DOOR NUMBER OR TYPE; *DOOR SIZE WHEN NOTED*
- W1 — WINDOW TYPE
- 1 CCD-000 BP-1 — REVISION
- 1 — KEYNOTE
- 0 — GRID LINE
- Name / Elevation — LEVEL MARKER
- Room name / 101 — ROOM NAME; ROOM NUMBER
- NORTH SYMBOL
- DRAWING NUMBER; DRAWING TITLE
- 1 VIEW NAME; A101; 1/8" = 1'- 0"; SCALE; SHEET NUMBER

ABBREVIATIONS

A	
A/E	Architect and/or Engineer
AB	Anchor Bolt
ABV	Above
AC	Air Conditioning
ACFL	Access Floor
ACOUS	Acoustical
ACT	Acoustical Ceiling Tile
AD	Access Door
ADDL	Additional
ADJ	Adjacent
ADJST	Adjustable
ADMIN	Administration
AFF	Above Finish Floor
ALT	Alternate
ALUM	Aluminum
AMEND	Amendment
ANC	Anchor
AP	Access Panel
APC	Architectural Precast Concrete
APPROX	Approximately
ARCH	Architectural
AUTO	Automatic
AV	Audio Visual
AVG	Average
AWT	Acoustical Wall Treatment
B	
B&B	Balled and Burlapped
BA	Building Accessory
BD	Board
BIT	Bituminous
BL	Brick Ledge
BLDG	Building
BLKG	Block(ing)
BM	Beam or Bench Mark
BO	By Owner
BOF	Bottom of Footing
BOS	Bottom of Slab
BOS	Bottom of Steel
BOT	Bottom
BPL	Bearing Plate
BR	Brick
BRC	Brick Course
BRG	Bearing
BSMT	Basement
BTWN	Between
BUR	Built up Roof
C	
C	Course
C/C	Center to Center
CAB	Cabinet
CANT	Cantilever
CAT	Category
CB	Catch Basin
CE	Civil Engineer
CEM	Cement
CER	Ceramic
CF	Cubic Feet
CFS	Cubic Feet per Second
CG	Corner Guard
CHNL	Channel
CI	Cast-Iron
CIP	Cast-In-Place
CIR	Circle
CJ	Control Joint
CL	Centerline
CLNG	Ceiling
CLO	Closet
CLR	Clear(ance)
CM	Construction Manager
CMU	Concrete Masonry Unit
CO	Cased Opening
CO	Clean Out
C	
COL	Column
COM	Communication
COMP	Composite
COMPR	Compressible
CONC	Concrete
COND	Condition
CONF	Conference
CONN	Connection
CONST	Construction
CONT	Contiue (ous) (ation)
CORR	Corridor
CPT	Carpet
CSK	Countersunk
CT	Ceramic Tile
CTR	Center
CU	Cubic
CUH	Cabinet Unit Heater
CW	Cold Water
CW	Curtain Wall
D	
DBL	Double
DEG	Degree
DEMO	Demolition
DEPT	Department
DF	Drinking Fountain
DIA	Diameter
DIAG	Diagonal
DIFF	Diffuser
DIM	Dimension
DISP	Dispenser
DIST	Distribution
DIV	Division or Divider
DL	Dead Load
DN	Down
DR	Door
DS	Downspout
DTL	Detail
DW	Dishwasher
DWG	Drawing
DWL	Dowel
DWTR	Dumbwaiter
E	
E	East
EA	Each
EF	Exhaust Fan
EGEN	Emergency Generator
EIFS	Exterior Insulation & Finish System
EJ	Expansion Joint
EL	Elevation
ELEC	Electric(al)
ELEV	Elevator
EMER	Emergency
E TR	Entrance
EO	Electrial Outlet
EOS	Edge of Slab
EPD	Ethylene Propylen Dien Monomer
EQ	Equal
EQUIP	Equipment
ESTB	Established
EW	Each Way
EWC	Electric Water Cooler
EXC	Excavate(d), Excavation
EXH	Exhaust
EXIST/EX	Existing
EXP	Expansion
EXT	Exterior
F	
FA	Fire Alarm
FBR	Face of Brick
FC	Face
FD	Floor Drain
FE	Fire Extinguisher
F	
FEC	Fire Extinguisher Cabinet
FF	Finished Face, Face of Wall
FFE	Finish Floor Elevation
FFL	Finish Floor Level
FHC	Fire Hose Cabinet
FIN	Finish
FIXT	Fixture
FLASH	Flashing
FLEX	Flexible
FLR	Floor(ing)
FLUOR	Fluorescent
FN	Fence
FND	Foundation
FO	Finished Opening
FOC	Face of Concrete
FOM	Face Masonry
FOS	Face of Suds / Steel
FP	Fireproofing
FPL	Fireplace
FRP	Fiberglass Reinforce Plastic Panel
FRT	Fire Retardant Treated
FT	Foot or Feet
FTG	Footing
FTR	Fine Tube Radiation / Radiator
FUR	Furring
FT	Future
FWC	Fabric Wall Covering
G	
G	Gas
GA	Gauge
GAL	Gallon
GALV	Galvanized
GAR	Garage
GB	Grab Bar
GC	General Contractor
GEN	General
GEN	Generator
GFRP	Gypsum Fiberglass Reinforce Panel
GL	Glazing
GLU	Glue Laminated
GYP	Gypsum
GWB	Gypsum Wall Board
H	
H	High
HB	Hose Bib
HC	Handicap
HDR	Header
HDWD	Hardwood
HDWR	Hardware
HM	Hollow Metal
HOR	Horizontal
HR	Handrail
HT	Height
HTR	Heater
HVAC	Heating / Ventilation / Air Conditioning
HYD	Hydrant
HW	Hot Water
HWH	Hot Water Heater
I	
ID	Inside Diameter
IN	Inch
INCL	Include(ing)
INFO	Information
INSUL	Insulation
INT	Interior
J	
JAN	Janitor
JBOX	Junction Box
JC	Janitor's Closet
JST	Joist
JT	Joint
K	
KIT	Kitchen
KO	Knockout
L	
L	Long, Length
LAB	Laboratory
LAM	Laminate, Lamination
LAV	Lavatory
LB	Pound
LCD	Linear Ceiling Diffuser
LF	Linear Foot
LH	Left Hand
LHR	Left Hand Reverse
LIN	Linear
LINO	Linoleum
LL	Live Load
LOC	Location
LONG	Longitudinal
LTG	Lighting
LVR	Louver
M	
MAS	Masonry
MAT	Walk Off Mat
MATL	Material
MAX	Maximum
MC	Medicine Cabinet
MDF	Medium Density Fiberboard
MDO	Medium Density Overlay
MECH	Mechanical
MEMB	Membrane
MEZZ	Mezzanine
MFR	Manufacturer
MH	Manhole
MIN	Minimum
MISC	Miscellaneous
MO	Masonry Opening
MR	Moisture Resistant
MTD	Mounted
MTL	Metal
MUL	Mullion
MW	Millwork
MWA	Millwork Accessory
N	
N	North
NA	Not Applicable
NIC	Not in Contract
NO	Number
NOM	Nominal
NRC	Noise Reduction Coefficient
NTS	Not to Scale
O	
OA	Overall
OC	On Center
OCD	Overhead Coiling Door
OD	Outside Diameter
OFCI	Owner Furnished - Contractor Installed
OFOI	Owner Furnished - Owner Installed
OH	Overhead
OHD	Overhead Door
OP	Operable Partition
OPG	Opening
OPP	Opposite
OPT	Optional
ORD	Overflow Roof Drain
P	
PA	Public Address
PAR	Parallel
PBD	Partical Board
PC	Precast Concrete
PERIM	Perimeter
PERP	Perpendicular
PFM	Pre-Formed
PFN	Pre-Finished
PKG	Parking
PL	Plate
PL	Property Line
PLAM	Plastic Laminate
PLAS	Plaster
PLBG	Plumbing
PLF	Pound per Linear Foot
PLYWD	Plywood
PNL	Panel
PR	Pair
PREFAB	Prefabricated
PRELIM	Preliminary
PROJ	Projections
PSI	Pound per Square Inch
PT	Paint
PTN	Partition
PVC	Polyvinyl Chloride
Q	
QT	Quarry Tile
QTR	Quarter
QTY	Quantity
R	
R	Radius
RA	Return Air
RAD	Radiator
RB	Rubber Base
RCP	Reflected Ceiling Plan
RD	Roof Drain
REC	Recessed
RECT	Rectangular
REF	Reference
REF	Refrigerator
REG	Register
REINF	Reinforce (ment) (ing)
REQD	Required
REV	Reverse
RF	Resilient Floor
RFH	Roof Hatch
RFV	Roof Vent
RH	Right Hand
RHR	Right Hand Reverse
RM	Room
RND	Round
RO	Rough Opening
ROW	Right of Way
RT	Rubber Tile
RWL	Rain Water Leader
S	
S	South
SA	Supply Air
SAN	Sanitary
SC	Solid Core
SCHED	Schedule
SD	Storm Drain
SECT	Section
SF	Square Foot
SFRNT	Storefront
SHR	Shower
SHT	Sheet
SHTG	Sheathing
SIM	Similar
SLNT	Sealant
SM	Surface Mount
SMTL	Sheet Metal
SOG	Slab on Grade
SP	Space(ing)
SPEC	Specifications
SQ	Square
SS	Stainless Steel
S	
SSF	Solid Surface
SSK	Service Sink
ST	Stone Tile
STC	Sound Transmission Coefficient
STD	Standard
STL	Steel
STN	Stone
STOR	Storage
STRUCT	Structural
SUBFL	Subfloor(ing)
SUSP	Suspended
SYM	Symmetry, Symmetrical
SYS	System
T	
T	Tread
T&G	Tongue & Grooved
TAN	Tangent
TBD	To Be Determined
TD	Trench Drain
TEMP	Temporary
TERE	Terrazzo
THK	Thick(ness)
THRES	Threshold
TOB	Top of Beam
TOC	Top of Concrete or Curb
TOD	Top of Deck
TOF	Top of Footing
T	
TOF	Top of Footing
TOJ	Top of Joist
TOM	Top of Masonry
TOP	Topping
TOS	Top of Slab
TOS	Top of Steel
TOW	Top of Wall
TRTD	Treated
TS	Tube Steel
TYP	Typical
U	
UC	Undercut
UFIN	Unfinished
UG	Underground
UNO	Unless Noted Otherwise
UPH	Upholstery
UR	Urinal
UTIL	Utility
V	
VAR	Varies
VB	Vapor Barrier
VCT	Vinyl Composition Tile
VERT	Vertical
VEST	Vestibule
VIN	Vinyl
VNR	Veneer
VR	Vapor Retarder
VT	Vinyl Tile
VWC	Vinyl Wall Covering
W	
W	West
W	Wide, Width
W/	With
W/O	Without
WC	Water Closet
WD	Wood
WDW	Window
WF	Wide Flange
WG	Wall Guard
WHTR	Water Heater
WP	Waterproof(ing)
WR	Waster Receptacle
WS	Weather-Strip(ing)
WSCT	Wainscot
WT	Window Treatment

SHT NO	SHEET NAME
GENERAL	
G000	SHEET INDEX, SYMBOLS, MATERIAL ID AND ABBREVIATIONS
G051	BUILDING CODE SUMMARY
STRUCTURAL	
S101	GENERAL STRUCTURAL NOTES
S201	FOUNDATION PLAN
S202	ROOF FRAMING PLAN
S203	CONCRETE DETAILS
S204	WOOD FRAMING DETAILS
ARCHITECTURAL DEMOLITION	
AD001	DEMOLITION SITE PLAN
AD101	LEVEL 1 DEMOLITION PLAN
AD121	LEVEL 1 DEMOLITION REFLECTED CEILING PLAN
ARCHITECTURAL	
A001	SITE PLAN
A101	LEVEL ONE
A121	LEVEL ONE REFLECTED CEILING PLAN
A201	BUILDING ELEVATIONS
A651	GLAZING TYPES AND DETAILS
A701	LEVEL ONE FINISH PLANS
A801	MILLWORK PLAN
A802	MILLWORK PLANS AND ELEVATIONS
A803	MILLWORK PLANS AND ELEVATIONS
A901	LEVEL ONE FURNITURE PLAN
MECHANICAL & PLUMBING	
M100	COVER SHEET
M200	PLUMBING PLANS
M300	DEMO PLAN HVAC
M301	HVAC PLAN
ELECTRICAL	
E001	ELECTRICAL SYMBOLS, NOTES & ABBREVIATIONS
E002	LIGHTING COMPLIANCE FORMS
E100	FIRST FLOOR PLAN - DEMO
E200	FIRST FLOOR PLAN - POWER
E300	FIRST FLOOR PLAN - LIGHTING
E400	FIRST FLOOR PLAN - EGRESS LIGHTING
E500	SINGLE-LINE AND PANEL SCHEDULE

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Lynnwood, WA 98036 | 425-774-3829

WALL / PARTITION LEGEND

GENERAL NOTES

SOME PARTITIONS DESCRIBED HERE MAY NOT BE USED ON THIS PROJECTS. SEE PLANS FOR SPECIFIC PARTITION TYPES USED.

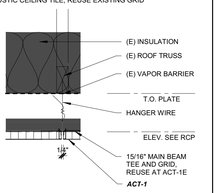
1. INTERIOR PARTITIONS TYPES TO BE INDICATED BY THIS SYMBOL ON FLOOR PLANS.

2. GAUGE, SPACING, AND PERFORMANCE REQUIREMENTS OF METAL STUDS TO BE DETERMINED BY SPECIFICATIONS UNLESS OTHERWISE NEEDED
3. TYPE "X" GYPSUM BOARD REQUIRED AT RATED PARTITIONS ONLY.
4. FIRE RATED OR ACOUSTICALLY RATED PARTITIONS TO EXTEND TO ROOF OR FLOOR DECK ABOVE UNLESS NOTED OTHERWISE. PROVIDE REQUIRED CLOSURE TO MAINTAIN FIRE OR ACOUSTICAL RATING. PROVIDE APPROPRIATE DEFLECTION JOINT AT TOP OF PARTITION TO ELIMINATE CRUSHING OF PARTITION.
5. AT NON-RATED PARTITIONS IN ROOMS WITH FINISHED CEILING, GYPSUM BOARD TO GO 6" ABOVE CEILING UNLESS NOTED OTHERWISE. AT NON-RATED PARTITIONS IN ROOMS WITHOUT FINISH CEILINGS, GYPSUM BOARD TO GO TO DECK UNLESS NOTED OTHERWISE.
6. PENETRATIONS IN FIRE RATED OR ACOUSTICAL RATED PARTITIONS AND CONNECTIONS TO THESE PARTITIONS BY OTHER PARTITIONS SHALL BE PER PARTITION MANUFACTURER'S WRITTEN RECOMMENDATIONS OR U.L REQUIREMENTS FOR FIRE TEST AND ACOUSTICAL TEST RATINGS.
7. REFER TO SPEC FOR BACKER AT PARTITIONS SCHEDULED TO RECEIVE CERAMIC TILE. PROVIDE TILE BACKER BOARD TO PARTITIONS IN SHOWERS, HIGH MOISTURE AREAS OR SIMILAR AREAS AND WHERE NOTED. INSTALLATION OF MOISTURE RESISTANT GYPSUM BOARD OR TILE BACKER BOARD SHALL NOT REDUCE FIRE OR ACOUSTICAL RATINGS FOR ANY PARTITION.
8. ACOUSTICALLY RATED PARTITIONS SHALL HAVE CONTINUOUS SOUND BATT INSULATION AND ACOUSTICAL CAULKING UNLESS OTHERWISE NOTED. STAGGER JUNCTION BOXES A MINIMUM OF 2'-0" BETWEEN PENETRATIONS AT ACOUSTICALLY RATED OR FIRE RATED PARTITIONS
9. THERMALLY SEPARATED PARTITIONS SHALL HAVE VAPOR BARRIER AND THERMAL INSULATION AS SPECIFIED UNLESS OTHERWISE NOTED.
10. VERIFY WITH STRUCTURAL ALL NON-BEARING MASONRY PARTITION THAT ARE NOT ADEQUATELY BRACED BY FIXED ELEMENTS PRIOR TO ERECTION.
11. PROVIDE A MINIMUM OF 1'-0" OF SOLID MASONRY BETWEEN PENETRATIONS IN MASONRY PARTITIONS UNLESS OTHERWISE NOTED.
12. REFER TO STRUCTURAL DRAWINGS FOR INTERIOR STRUCTURAL PARTITIONS.
13. PROVIDE BLOCKING AND BACKER SUPPORT FOR ALL EQUIPMENT ATTACHMENT AND MOUNTING. COORDINATE LOCATION OF BLOCKING AND BACKER MATERIAL WITH OWNER AND CONTRACTOR SUPPLIED EQUIPMENT PRIOR TO CONSTRUCTION OF PARTITION. SEE FURNITURE PLAN FOR FURNITURE LOCATIONS THAT REQUIRE BLOCKING.
14. STC RATINGS INDICATED MINIMUM WALL REQUIREMENTS WITH SOUND BATT INSULATION. REFER TO GYPSUM ASSOCIATION BULLETIN #500 AND THE UL MANUAL FOR DETAILED CONSTRUCTION TECHNIQUES TO ACHIEVE STC RATINGS.

ACT-1/ACT1-E

ACT-1: ACOUSTIC CEILING TILE (NEW GRID)

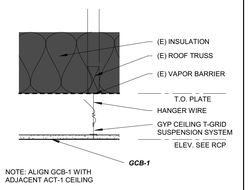
ACT-1E: ACOUSTIC CEILING TILE, REUSE EXISTING GRID



FIRE RATING	UL DESIGN. NUMBER	STC RATING
N/A		

GYP-1

CLNG-2: GYPSUM BOARD CEILING

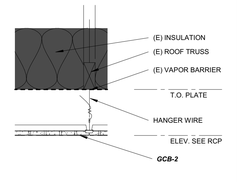


NOTE: ALIGN GCB-1 WITH ADJACENT ACT-1 CEILING

FIRE RATING	UL DESIGN. NUMBER	STC RATING

GYP-2

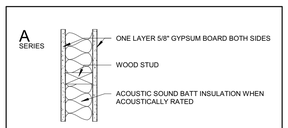
CLNG-3: ACOUSTIC GYPSUM BOARD CEILING



FIRE RATING	UL DESIGN. NUMBER	STC RATING

CEILING TYPES

A SERIES



PARTITION TYPE	STUD SIZE	PARTITION WIDTH	UL DESIGN. NUMBER	FIRE RATING	STC RATING	NOTES
A4	3 1/2"	4 5/8"			36	1,2

NOTES
1. FIRE RATING WHERE NOTED ON PLAN
2. STC VARIES WITH INSULATION USED
3. MATCH EXISTING WALL THICKNESS

INTERIOR PARTITION WALL TYPES

MATERIAL / PRODUCT ID LIST

ID	DESCRIPTION	Spec Data	SPEC SECTION
ACPNL-1	ACOUSTIC CEILING PANEL	MFR: PINTA ACOUSTIC; MODEL: SONEX CLEAN BAFFLES SIZE: 24" X 48" X 2" COLOR: WHITE;	
ACT-1	ACOUSTIC CEILING TILE	MFR: CERTAINTEED; MODEL: TECHSTYLE; SIZE: 2'-0" X 4'-0"; COLOR: WHITE;	09 51 00
ALSF-1	ALUMINUM STOREFRONT, EXTERIOR	MFR: KAWNEER MODEL: ENCORE FRAMING SYSTEM (EXTERIOR), 1 3/4" SIGHT LINE FINISH : CLEAR ANODIZED GLAZING: GL-1	08 43 13
ALSF-2	ALUMINUM STOREFRONT, INTERIOR DOOR	MFR: KAWNEER MODEL: 350 MEDIUM STILE DOOR FINISH: CLEAR ANODIZED GLAZING: GL-3	08 43 13
BKDP-1	BOOK DROP - INTERIOR	MFR: KINGSLEY; COLOR: STAINLESS STEEL; STYLE: INTERIOR HALLPASS Through Wall; TYPE: 43-8105;	
CPT-1A	CARPET	MFR: INTERFACE; STYLE: WW870; COLOR: 105348 NATURAL WEFT; SIZE: 25cm X 100cm; INSTALL: RANDOM ASHLAR; BACKING: C-QUEST BIO;	09 68 13
CPT-1B	CARPET	MFR: INTERFACE; STYLE: WW870; COLOR: 105345 CHARCOAL WEFT; SIZE: 25cm X 100cm; INSTALL: RANDOM ASHLAR; BACKING: C-QUEST BIO;	09 68 13
CPT-2	CARPET - CHILDRENS GREEN	MFR: FLOR STYLE: Made You Look COLOR: Mint SIZE: 50cm X 50cm INSTALL: RANDOM ASHLAR	09 68 13
CPT-3	CHILRENS GREY	MFR: FLOR; STYLE: HEMLINE; COLOR: GREY PEARL 21-1524; SIZE: 50cm X 50cm; INSTALL: RANDOM;	09 68 13
CPT-4	WALKOFF CARPET	MFR:INTERFACE; COLLECTION: STEP REPEAT; STYLE: SR899; COLOR: 104940 IRON; NOTE: WALK OFF MATT; INSTALL: RANDOM ASHLAR; BACKING: C-QUEST BIO;	09 68 13
CPT-5	CHILRENS GREY	MFR: INTERFACE; COLLECTION: OPEN AIR; STYLE: 404 ACCENT; COLOR: 107137 MOSS; SIZE: 50cm X 50cm; INSTALL: RANDOM ASHLAR; BACKING: C-QUEST BIO;	09 68 13
FELT-1A	FELT RIB - GREEN	MFR: KIREI; PRODUCT:EMBOSSED PANEL SERIES; STYLE: GROOVY 3.0; COLOR: 384 SEAWEED; PANEL SIZE: 110.2" x 44.5" x 0.35" THICKNESS: 0.8"; NRC: 0.30 ; CONTENT: RECYCLED PET;	09 72 00

MATERIAL / PRODUCT ID LIST

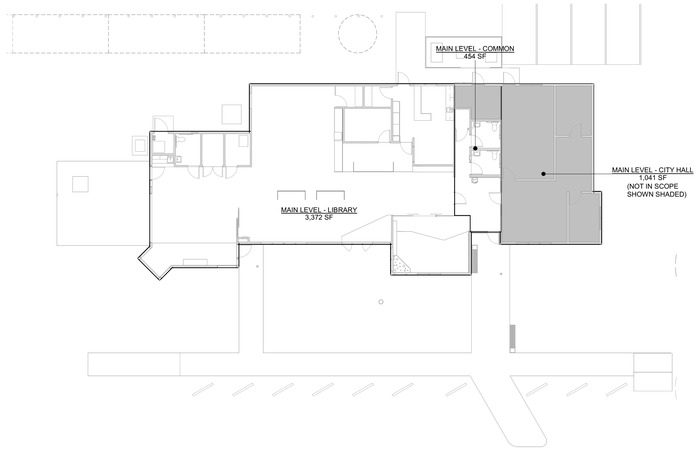
ID	DESCRIPTION	Spec Data	SPEC SECTION
FELT-1B	FELT RIB - GREY	MFR: KIREI; PRODUCT:EMBOSSED PANEL SERIES; STYLE: GROOVY 3.0; COLOR: 454 MUSHROOM; PANEL SIZE: 110.2" x 44.5" x 0.35" THICKNESS: 0.8"; NRC: 0.30 ; CONTENT: RECYCLED PET;	09 72 00
FELT-2B	FELT FLAT - GREY	MFR: KIREI; PRODUCT: MURA WALLCOVERING; COLOR: SOLID MURA MUSHROOM 454; PANEL SIZE: 6M x 1210mm ROLL; NRC: 0.10; CONTENT: RECYCLED PET;	09 72 00
FELT-2C	FELT- KIDS GREEN	MFR: KIREI; PRODUCT: MURA WALLCOVERING; COLOR: SOLID MURA 579 OLIVE GREEN; PANEL SIZE: 6M x 1210mm ROLL; NRC: 0.10; CONTENT: RECYCLED PET;	09 72 00
FILM-1	GLASS FILM	MFR: 3M; PRODUCT: FASARA GLASS FINISHES GRADATION; STYLE: SHQFGDM 1270 DIAMOND; SIZE: 50" WIDE; NOTE: 50% OPAQUE FROM 0'-2' AFF, GRADATION STARTING AT 2' UP TO 100% TRANSPARENT AT 50";	08 80 00
GCB-1	GYPSUM CEILING BOARD	MFR: USG MODEL: SHEETROCK BRAND THICKNESS" 1/2"	09 29 00
GCB-2	GYPSUM CEILING BOARD	MFR: GYPSORB MODEL: STRATA 12-20-35, PERFORATED GYPSUM CEILING THICKNESS" 1/2"	09 29 00
GL-1	EXTERIOR GLAZING	MFR: VITRO MODEL: SOLARBAN 60 INSULATING GLASS THICKNESS: 1", OUTTER LITE (1/4" FULLY TEMPERED CLEAR + 1/2" ARGON INFILL + 1/4" FULLY TEMPERED CLEAR), LOW-E COATING ON #2 SURFACE)	08 80 00
GL-2	INTERIOR GLAZING	PRODUCT: 1/2" FULLY TEMPERED GLASS	08 80 00
GL-3	INTERIOR GLAZING	PRODUCT: 1/4" FULLY TEMPERED GLASS	08 80 00
GLES-1	GLASS PARTITION	MFR: CRL CO., INC. MODEL: GLASS WALL: WU1SASL (1 1/2" DEEP TOP CHANNEL) WU3SASL (1" DEEP BOTTOM CHANNEL) FINISH: CLEAR ANODIZED GLASS DOOR, DOOR STOP: LS9BS PULL: 66LBPBS, 66" EXTRA LADDER STYLE FINISH: BRUSHED STAINLESS STEEL GLAZING: 1/2" FOR WALLS UNDER 9'-0" 3/4" FOR WALLS OVER 9'-0". FULLY TEMPERED *GLASS THIKNESS INDICATED IS MINIMUM, ACTUAL THICKNESS SHALL BE DETERMINED BY GLAZING SUPPLIER TO MEET CODE REQUIREMENTS	08 41 26
GLES-2	GLASS PARTITION W/ SLIDING DOOR	MFR: CRL CO., INC. MODEL: CRL290IC (GLASS WALL WITH SLIDING DOOR) FINISH: SATIN ANODIZED GLAZING: 1/2" FOR WALLS UNDER 9'-0" 3/4" FOR WALLS OVER 9'-0". FULLY TEMPERED *GLASS THIKNESS INDICATED IS MINIMUM, ACTUAL THICKNESS SHALL BE DETERMINED BY GLAZING SUPPLIER TO MEET CODE REQUIREMENTS	08 41 26
GWB-1	GYPSUM WALL BOARD	MFR: USG MODEL: SHEETROCK BRAND THICKNESS: 5/8"	09 29 00
INSUL-1	FIBERGLASS INSULATION	MFR: OWENS CORNING MODEL: UNFACED FIBER GLASS BATT INSULATION *ACOUSTIC BATT INSULATION FOR INTERIOR WALL CAVITY **R-30 UNFACED INSULATION FOR ROOF	07 21 00
INSUL-2	SPRAY FOAM INSULATION	MFR: Hilti MODEL: CF 812, Closed cell foam insulation	07 21 00
JS-1	JOINT SEALAT & BACKER ROD, EXTERIOR	Non-Staining Silicone Sealant	07 92 00

MATERIAL / PRODUCT ID LIST

ID	DESCRIPTION	Spec Data	SPEC SECTION
JS-2	JOINT SEALANT & BACKER ROD, INTERIOR	MFR: Type info here and keep semicolon at end; STYLE: Type info here and keep semicolon at end; COLOR: Type info here and keep semicolon at end;	07 92 00
LINO-1	FLOORING GRADE LINO	MFR: FORBO; PRODUCT: WALTON CIRRUS; COLOR: 3355 ROSEMARY GREEN;	09 65 00
MA-1	MILLWORK ACCESSORY - HINGE	MFR: BLUM, CABINET HINGES STYLE: 75T1590B;	06 41 00
MA-2	MILLWORK ACCESSORY - MAGNETIC PUSH LATCH	MFR: SUGATSUNE, MAGNETIC LATCHES MODEL NO: ML120;	06 41 00
MA-3	MILLWORK ACCESSORY - DRAWER GLIDE	MFR: FULTERER; TYPE: FR5043;	06 41 00
MA-4	MILLWORK ACCESSORY - TRASH PULL OUT	MFR: REV-A-SHELF; PRODUCT: BOTTOM MOUNT DOUBLE BIN TRASH CAN; MODEL: 5148-18DM-211; WIDTH: 18"; COLOR: WHITE; CAPACITY: 35 QUART; NOTE: SOFT OPEN / CLOSE;	06 41 00
MA-5	MILLWORK PULL	MFR: DOUG MOCKETT; STYLE: DP3C; LENGTH: 6"; FINISH: SATIN NICKLE 17S;	06-41 00
MA-6	MILLWORK ALUMINUM ANGLE	3"X3"X1/4" ALUMINUM ANGLE;	
MA-10	GROMMET	MFR: DOUG MOCKETT MODEL: EDP-5, STAINLESS STEEL GROMMET FINISH: SATIN CHROME	12 36 00
MIR-1	BATHROOM MIRROR	FRAMELESS MIRROR - SEE ELEVATION FOR DIMENSIONS;	08 80 00
OHDR-1	OVERHEAD DOOR	MFR: CROWN DOORS; STYLE: SINGLE HYDRAULIC; HARDWARE: CONSTANT CONTACT TURN-KEY, RECESSED MOUNT. COLOR: Mfg. Full Custom Range, INSULATED GLAZING NOTES: PROVIDE EXTENDED LEG ON PERIMETER ANGLE TO ACCOMMODATE BOLTING THROUGH WD STRUCTURE. PROVIDE 30' MIN. HYDRAULIC LINES TO PUMP IN ADJACENT CLOSET.	08 34 00
PAV-1	PRECAST CONCRETE PAVER	MFR: STEPSTONE INC. STYLE: LARGE SCALE CALARC PAVERS COLOR: PORCELAIN, 1813 SIZE: 24" X 48" X 2 1/2"	
PLY-1	PLYWOOD, MILLWORK	WOOD: PLYWOOD, FINISH FACE, A GRADE; FINISH: CLEAR FINISH, EDGE TAPE WHERE EXPOSED; THICKNESS: 3/4";	06 20 00
PLY-2	PLYWOOD, MILLWORK	WOOD: PLYWOOD, CABINET CONSTRUCTION FINISH: CLEAR FINISH, EDGE TAPE WHERE EXPOSED	06 20 00
PT-1	PAINT, INTERIOR	MFR: SHERWIN-WILLIAMS STYLE: WATER BASED INTERIOR LATEX PAINT SHEEN LEVELS: EGGSHELL	09 91 23
PT-2	PAINT, EXTERIOR	MFR: SHERWIN-WILLIAMS STYLE: WATER BASED EXTERIOR LATEX PAINT SHEEN LEVELS: EGGSHELL	09 91 13
PT-3	PAINT, METAL	MFR: SHERWIN-WILLIAMS; STYLE: WATER BASED INTERIOR LATEX PAINT SHEEN LEVELS: EGGSHELL	09 91 13
PT-A	PAINT WHITE	MFR: SHERWIN WILLIAMS; COLOR: SW7013 IVORY LACE;	09 91 23
PT-B	PAINT DARK GREEN	MFR: SHERWIN WILLIAMS; COLOR: SW6209 RIPE OLIVE;	09 91 13
PT-C	PAINT LIGHT GREEN	MFR: SHERWIN WILLIAMS; COLOR: SW2861 AVOCADO;	09 91 13
PVA-1	SOLAR PHOTOVOLTAIC ARRAY - 8kWH	TURN-KEY INSTALLATION	

MATERIAL / PRODUCT ID LIST

ID	DESCRIPTION	Spec Data	SPEC SECTION
RAIL-1	ART RAIL	MFR: STAS MODEL: MINIRAIL COLOR: White *5 EA PROVIDE CLEAR CORD WITH COBRA ENDS + STAS ZIPPER HOOK	
RB-1	RUBBER BASE - STRAIGHT	MFR: FLEXCO; COLOR: 029 ARCTIC WHITE; STYLE: STRAIGHT; TYPE: TS WALLFLOWERS RUBBER WF-029; SIZE: 4";	09 65 00
RB-2	RUBBER BASE GREEN - COVE	MFR: FLEXCO; COLOR: 097 BASIL; STYLE: COVE; TYPE: TS WALLFLOWERS RUBBER WF-029; SIZE: 4";	09 65 00
SKY-1	SKYLIGHT, 4' x 4'	MFR: VELUX



2 LEVEL 1 BUILDING AREA PLAN

G051 1/16" = 1'-0"

BUILDING AREA

NAME	AREA
LEVEL 1	
MAIN LEVEL - CITY HALL	1,041 SF
MAIN LEVEL - COMMON	454 SF
MAIN LEVEL - LIBRARY	3,372 SF
	4,867 SF
TOTAL BUILDING AREA	4,867 SF

OCCUPANT LOAD SUMMARY PER LEVEL

OCCUPANCY TYPE	FUNCTION OF SPACE	OCCUPANT LOAD FACTOR 1 PER		AREA	OCCUPANT LOAD
Not Placed					
B	BUSINESS AREA	150	GROSS	0 SF	0
S-2	MECHANICAL / STORAGE	300	GROSS	0 SF	0
				0 SF	0
LEVEL 1					
A-3	TABLES AND CHAIRS	15	NET	592 SF	41
A-3	READING ROOM	50	NET	465 SF	10
A-3	LIBRARY STACKS	100	GROSS	518 SF	6
B	BUSINESS AREA	150	GROSS	626 SF	5
S-2	MECHANICAL / STORAGE	300	GROSS	52 SF	1
				2,253 SF	63
GRAND TOTAL				2,253 SF	63

REQUIRED PLUMBING FIXTURES

OCCUPANCY TYPE	OCCUPANCY CLASSIFICATION	OCCUPANT LOAD	WATER CLOSETS MALE	WATER CLOSETS FEMALE	LAVATORIES MALE	LAVATORIES FEMALE	DRINKING FOUNTAINS
Not Placed							
B		0	0.00	0.00	0.00	0.00	0.00
S-2	STORAGE	0	0.00	0.00	0.00	0.00	0.00
		0	0.00	0.00	0.00	0.00	0.00
LEVEL 1							
A-3		37	0.00	0.00	0.00	0.00	0.00
A-3	ASSEMBLY	20	0.08	0.15	0.05	0.05	0.04
B		5	0.00	0.00	0.00	0.00	0.00
S-2	STORAGE	1	0.01	0.01	0.01	0.01	0.00
		63	0.09	0.16	0.06	0.06	0.04
GRAND TOTAL		63	0.09	0.16	0.06	0.06	0.04

BUILDING CODE SYMBOLS KEY

- EGRESS TRAVEL PATH
- COMMON PATH OF EGRESS TRAVEL PATH
- DIAGONAL / EXIT SEPARATION LINE - REQUIRED
- DIAGONAL / EXIT SEPARATION LINE - PROVIDED
- 1 HOUR RATED FIRE WALL
- 2 HOUR RATED FIRE WALL
- SMOKE RATED WALL
- FE FIRE EXTINGUISHER
- DESIGNATED EXIT
- ACCESSIBLE MEANS OF EGRESS
- ACCESSIBLE COMPONENT

FUNCTION OF SPACE

OCCUPANCY TYPE	OCC. LOAD FACTOR
SQUARE FEET	
# OF OCCUPANTS	

EXIT DOOR NUMBER
REQUIRED WIDTH IN INCHES
PROVIDED WIDTH IN INCHES
NUMBER OF OCCUPANTS THROUGH

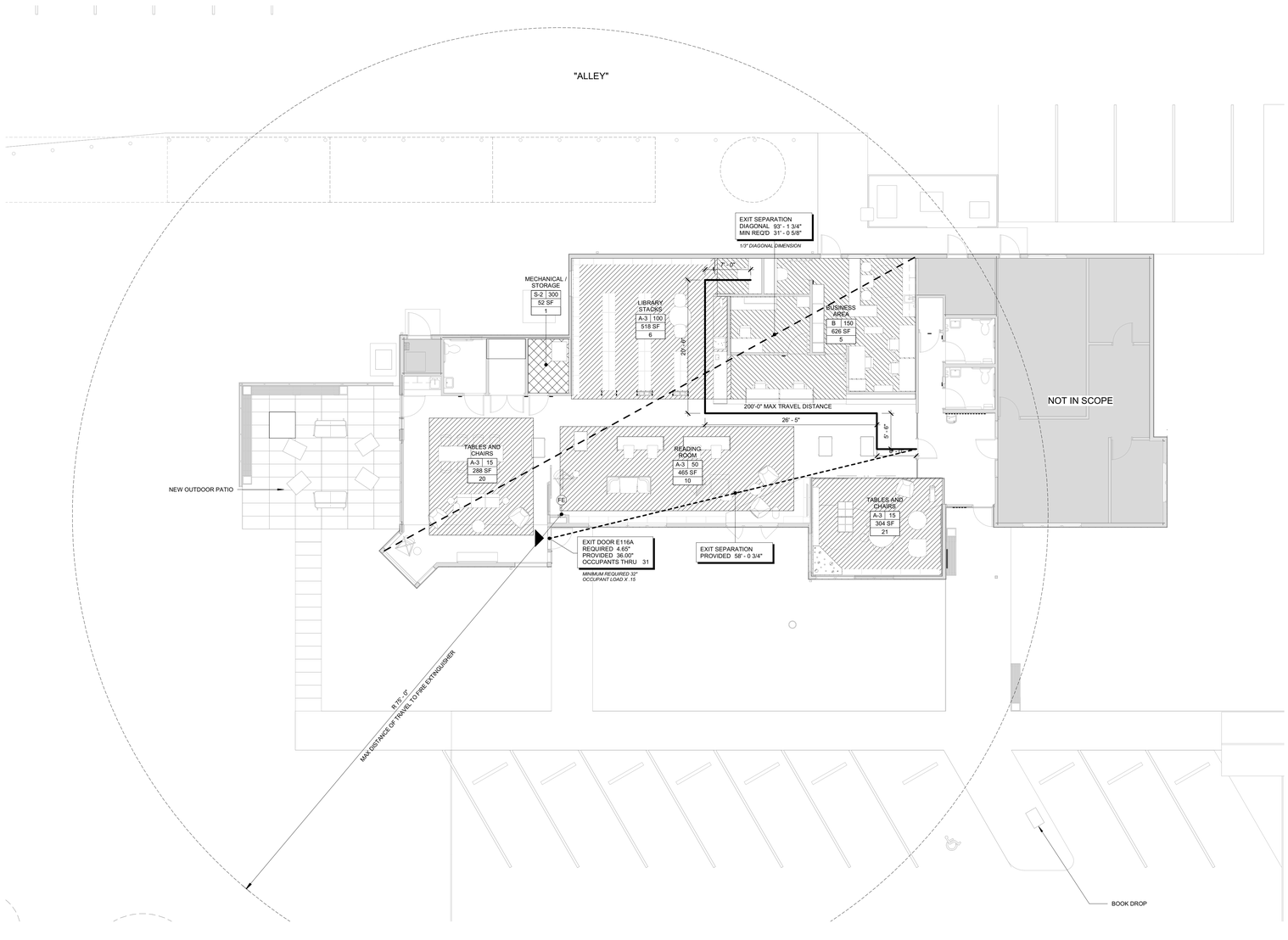
FACTOR THAT IS USED TO DETERMINE REQ'D WIDTH

STAIR NUMBER
REQUIRED WIDTH IN INCHES
PROVIDED WIDTH IN INCHES
NUMBER OF OCCUPANTS THROUGH
STAIRS SERVE WHICH LEVELS

FACTOR THAT IS USED TO DETERMINE REQ'D WIDTH

OCCUPANCY TYPE LEGEND

A-2, A-3, B, F, M, S-1, S-2



1 LEVEL 1 CODE PLAN

G051 1/8" = 1'-0"

BUILDING CODE SUMMARY

APPLICABLE CODES	
- 2018 Internaborul Building Code	(verify with local authority)
- 2018 International Energy Conservation Code	(verify with local authority)
- 2018 Uniform Plumbing Code	(verify with local authority)
- 2018 International Mechanical Code	(verify with local authority)
- 2018 International Fuel Gas Code	(verify with local authority)
- 2014 National Electrical Code	(verify with local authority)
City of Darrington adopts the IBC as set forth in the Washington Administrative Code Title 51, and adopted by the Washington State Building Code Council	as published on Municode 2022.05.24
PROPOSED BUILDING SUMMARY	
Type of Construction	Type V-B
Automatic Sprinkler System	Not Provided
Building Height	1 stories; approx. 18 feet
Building Area	See "BUILDING AREA" Schedule
USE AND OCCUPANCY CLASSIFICATION (Chapter 3)	
Assembly Use, including Libraries (Section 303.4)	A-3
Business Use, including small Storage and Conference spaces (Sections 303.1, 303.1.2, and 304.1)	B
Accessory Storage Use	S-2
SPECIAL DETAILED REQUIREMENTS BASE ON USE AND OCCUPANCY (Chapter 4)	
Children's Play Structures (Section 424)	
GENERAL BUILDING HEIGHTS AND AREA (Chapter 5)	
Building Height - Allowable (Section 504)	
- Height limitations for A Occupancy, NS V-B (Table 504.3)	40 feet
- Story limitations for <occupancy type> (Table 504.4)	1 stories
Building Area - Allowable (Section 506)	
- Area limitation for A-3, NS, VB (Table 506.2)	6,000 sf
- Allowable area per story (Section 506.2.1) Aa=At+[NS x If]	#,### sf per story
- Frontage increase (Section 506.3.3) If= [F/P-0.25] W/30	If =
- Total allowable building area, Single occupancy (Section 506.2.3) Aa * Number of Stories	#,### sf
Mixed Use and Occupancy (Section 508)	
Accessory Occupancies (Section 508.2)	
Nonseparated Occupancies (Section 508.3)	Most stringent (A-3) Occupancy utilized
- Furnace rooms where any piece of equipment is over 400,000 BTU per hour input	1 HR
TYPES OF CONSTRUCTION (Chapter 6)	
Fire-Resistance Rating Requirements for Building Elements (Table 601)	
- Structural frame	0 HR
- Bearing walls (Exterior)	0 HR
- Bearing walls (Interior)	0 HR
- Nonbearing walls and partitions (Exterior)	0 HR
- Nonbearing walls and partitions (Interior)	0 HR
- Floor construction (Including supporting beams and joists)	0 HR
- Roof construction (Including supporting beams and joists)	0 HR
Fire-Resistance Rating Requirements for Exterior Walls (Table 602)	
Fire separation distance greater than 30'.	0 HR
FIRE-RESISTANCE RATED CONSTRUCTION (Chapter 7)	
Maximum Area of Exterior Wall Openings (Table 705.8)	
- Fire separation distance	30' or greater
- Degree of Opening Protection	Unprotected, Nonsprinklered
- allowable	No Limit
FIRE PROTECTION AND LIFE SAFETY SYSTEMS (Chapter 9)	
An automatic sprinkler system shall be provided throughout buildings (Section 903.2.1)	N/A (Fire area is less than 12,000SF)
Potable Fire Extinguisher to be provided (Section 906)	Class 2-A, 75 feet max.
MEANS OF EGRESS (Chapter 10)	
Occupant Load (Section 1004)	
- See Code Plans for Occupant Loads for each story and space	
Egress Width (Section 1005.3)	
Capacity Factor without Automatic Sprinkler System and an Emergency voice/alarm communication system	
- Stairways (Section 1005.3.1)	0.3 inch per occupant
- Other egress components (Section 1005.3.2)	0.2 inch per occupant
Number of Exits and Exit Access Doorways (Section 1006)	
Egress from spaces and Common Path of Egress Travel (Section 1006.2 and Table 1006.2.1)	
Provide not less than 2 exits from spaces where the occupant load exceeds:	
- Group A, B, E, F, M Occupancies	49 occupants
- Group S Occupancies	29 occupants
- Group R-2 Occupancies	20 occupants
Provide not less than 2 exits from spaces where common path of egress travel exceeds:	
- Group A, E, M Occupancies with or without Automatic Sprinkler System	75 feet
- Group B, F, S Occupancies without Automatic Sprinkler System	75 feet
Common Path of Egress Travel (Section 1006.2.1 and table 1006.2.1)	
Common path of egress travel shall not exceed the following distances:	5EE TABLE
- Group B occupancy less than 30 people without sprinkler	100 feet
- Group B occupancy more than 30 people without sprinkler	75 feet
Exit or Exit Access Doorway Arrangement (Section 1007.1.1)	
Where multiple doorways are required, not less than 2 shall be located as follows:	
- Separation distance as measured along maximum overall diagonal dimension:	1/2 of diagonal
Accessible Means of Egress (Section 1009.1)	
Provide Accessible Means of Egress as follows:	
- Not less than 1 from all accessible spaces	Provided
- Not less than 2 from any accessible space requiring multiple exits per 1006.2 or 1006.3	Provided
Exit Access Travel Distance (Section 1017)	
Exit access travel distance shall not exceed the following values (Table 1017.2):	
- Group A, B, E, F-1, M, R, S-1 Occupancies without Automatic Sprinkler System	200 feet
Corridors (Section 1020)	
Corridor Fire-Resistance Rating (Table 1020.1)	
- Group A, B, E, F, M, S Occupancies without Automatic Sprinkler System and serving more than 30 occupants	1 HR
- Group A, B, E, F, M, S Occupancies with Automatic Sprinkler System or serving 30 or less occupants	0 HRS
Minimum Corridor Width (Table 1020.2)	
- All occupancies unless noted below:	44 inches
- Access to mechanical, plumbing, or electrical equipment:	24 inches
- Spaces with occupant load less than 50:	36 inches
Dead ends in Corridors shall not exceed the following length (Section 1020.4):	20 feet

Attachment B

Architecture and Interiors

MSRDesign
510 Marquette Avenue South, Suite 200
Minneapolis, MN 55402 | 612.375.0336

Structure

Swenson Say Fagét Engineers
2124 Third Avenue, Suite 100
Seattle, Washington 98121 | (206) 443-6212

Mechanical, Electrical & Plumbing

Harris Group
20201 Cedar Valley Road, Ste 120,
Lynnwood, WA 98036 | 425-774-3829

DARRINGTON LIBRARY

1005 Cascade St
Darrington, WA 98241

Project No: 2022005_0AR

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Architect under the Laws of the State of Minnesota.

Architect Seal

20122574 REGISTERED ARCHITECT
MATTHEW SCOTT KRUNTORAD
STATE OF WASHINGTON

Signature MSK

Print Name Matthew Kruntorad

Date 04/27/2024 **License No** 20122574

BID SET

ISSUE / REVISION

Mark	Date	Description

Drawing 2022 Copyright Meyer, Scherer & Rockcastle, Ltd.

BUILDING CODE SUMMARY

G051

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General Structural Notes

THE FOLLOWING APPLY UNLESS SHOWN OTHERWISE ON THE DRAWINGS

CRITERIA

1. ALL NEW MATERIALS, WORKMANSHIP, DESIGN, AND CONSTRUCTION SHALL CONFORM TO THE DRAWINGS, SPECIFICATIONS, THE INTERNATIONAL EXISTING BUILDING CODE (2018 EDITION). THIS STRUCTURE DOES NOT CONFORM TO PRESENT EARTHQUAKE CODE REQUIREMENTS. IT HAS BEEN ANALYZED AND REINFORCED FOR MINIMUM MAINTENANCE IN ACCORDANCE WITH INTERNATIONAL EXISTING BUILDING CODE, AND IS WITHIN THE CURRENT PRACTICE FOR THE RENOVATION OF EXISTING BUILDINGS OF THIS AGE AND TYPE OF CONSTRUCTION.

2. DESIGN LOADING CRITERIA:
   LIBRARIES
   FLOOR LIVE LOAD (READING ROOMS) . . . . . 60 PSF
   FLOOR LIVE LOAD (STACK ROOMS) . . . . . 150 PSF
   FLOOR CONCENTRATED LOAD . . . . . 1000 LBS
   MISCELLANEOUS LOADS
   PARTITION LOADING . . . . . 15 PSF
   MECHANICAL UNITS . . . . . WEIGHTS FURNISHED BY MANUFACTURER
   PHOTOVOLTAIC PANEL SYSTEMS . . . . . 5 PSF
   DEFLECTION CRITERIA
   LIVE LOAD DEFLECTION L/360
   TOTAL LOAD DEFLECTION L/240
   ENVIRONMENTAL LOADS
   SNOW . . . . . Ce=1.0, Is=1.0, Ct=1.1, Cs=1.0, Pg=25 PSF, Pf=20 PSF
   WIND . . . . . CCpi=0.18, 100 MPH, RISK CATEGORY II, EXPOSURE "B"
   EARTHQUAKE . ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE PROCEDURE
   LATERAL SYSTEM: LIGHT FRAMED SHEAR WALLS, Vs = 11.7 KIPS
   SITE CLASS=D, Ss=0.857, Sds=0.686, S1=0.308, SD1=0.409,
   Cs=0.105
   SDC D (DEFAULT), Ie=1.0, R=6.5
   SEE PLANS FOR ADDITIONAL LOADING CRITERIA

3. STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH ARCHITECTURAL DRAWINGS FOR BIDDING AND CONSTRUCTION. ARCHITECTURAL DRAWINGS ARE THE PRIME CONTRACT DRAWINGS. ANY DISCREPANCIES FOUND AMONG THE DRAWINGS, THE SPECIFICATION, THESE GENERAL NOTES AND THE SITE CONDITIONS SHALL BE REPORTED TO THE ARCHITECT, WHO SHALL CORRECT SUCH DISCREPANCY IN WRITING. ANY WORK DONE BY THE GENERAL CONTRACTOR AFTER DISCOVERY OF SUCH DISCREPANCY SHALL BE DONE AT THE GENERAL CONTRACTOR'S RISK.

4. PRIMARY STRUCTURAL ELEMENTS NOT DIMENSIONED ON THE STRUCTURAL PLANS AND DETAILS SHALL BE LOCATED BY THE ARCHITECTURAL PLANS AND DETAILS. VERTICAL DIMENSION CONTROL IS DEFINED BY THE ARCHITECTURAL WALL SECTIONS, BUILDING SECTION, AND PLANS. DETAILING AND SHOP DRAWING PRODUCTION FOR STRUCTURAL ELEMENTS WILL REQUIRE DIMENSIONAL INFORMATION CONTAINED IN BOTH ARCHITECTURAL AND STRUCTURAL DRAWINGS.

5. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SAFETY PRECAUTIONS AND THE METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES REQUIRED TO PERFORM THE CONTRACTORS WORK. THE STRUCTURAL ENGINEER HAS NO OVERALL SUPERVISORY AUTHORITY OR ACTUAL AND/OR DIRECT RESPONSIBILITY FOR THE SPECIFIC WORKING CONDITIONS AT THE SITE AND/OR FOR ANY HAZARDS RESULTING FROM THE ACTIONS OF ANY TRADE CONTRACTOR. THE STRUCTURAL ENGINEER HAS NO DUTY TO INSPECT, SUPERVISE, NOTE, CORRECT, OR REPORT ANY HEALTH OR SAFETY DEFICIENCIES TO THE OWNER, CONTRACTORS, OR OTHER ENTITIES OR PERSONS AT THE PROJECT SITE.

6. CONTRACTOR SHALL PROVIDE TEMPORARY BRACING FOR THE STRUCTURE AND STRUCTURAL COMPONENTS UNTIL ALL FINAL CONNECTIONS HAVE BEEN COMPLETED IN ACCORDANCE WITH THE PLANS. CONFORM TO ASCE 37-14 "DESIGN LOADS ON STRUCTURES DURING CONSTRUCTION".

7. CONTRACTOR-INITIATED CHANGES SHALL BE SUBMITTED IN WRITING TO THE ARCHITECT AND STRUCTURAL ENGINEER FOR APPROVAL PRIOR TO FABRICATION OR CONSTRUCTION. CHANGES SHOWN ON SHOP DRAWINGS ONLY WILL NOT SATISFY THIS REQUIREMENT.

8. DRAWINGS INDICATE GENERAL AND TYPICAL DETAILS OF CONSTRUCTION. WHERE CONDITIONS ARE NOT SPECIFICALLY INDICATED BUT ARE OF SIMILAR CHARACTER TO DETAILS SHOWN, SIMILAR DETAILS OF CONSTRUCTION SHALL BE USED, SUBJECT TO REVIEW AND APPROVAL BY THE ARCHITECT AND THE STRUCTURAL ENGINEER. ALL TYPICAL NOTES AND DETAILS SHOWN ON DRAWINGS SHALL APPLY, UNLESS NOTED OTHERWISE. TYPICAL DETAILS MAY NOT NECESSARILY BE INDICATED ON THE PLANS BUT SHALL STILL APPLY AS SHOWN OR DESCRIBED IN THE DETAILS. WHERE TYPICAL DETAILS ARE NOTED ON THE PLANS, THE SPECIFIED TYPICAL DETAIL SHALL BE USED. WHERE NO TYPICAL DETAIL IS NOTED, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CHOOSE THE APPROPRIATE TYPICAL DETAIL FROM THOSE PROVIDED OR REQUEST ADDITIONAL INFORMATION. THE CONTRACTOR SHALL SUBMIT ALL PROPOSED ALTERNATE TYPICAL DETAILS TO THOSE PROVIDED WITH RELATED CALCULATIONS TO THE ENGINEER FOR APPROVAL PRIOR TO SHOP DRAWING PRODUCTION AND FIELD USE.

QUALITY ASSURANCE

9. SPECIAL INSPECTION SHALL BE PROVIDED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND SECTIONS 110 AND 1705 OF THE INTERNATIONAL BUILDING CODE BY A QUALIFIED TESTING AGENCY DESIGNATED BY THE ARCHITECT, AND RETAINED BY THE BUILDING OWNER. THE ARCHITECT, STRUCTURAL ENGINEER, AND BUILDING DEPARTMENT SHALL BE FURNISHED WITH COPIES OF ALL INSPECTION AND TEST RESULTS. SPECIAL INSPECTION OF THE FOLLOWING TYPES OF CONSTRUCTION IS REQUIRED UNLESS NOTED OTHERWISE.

   EXPANSION BOLTS AND THREADED EXPANSION INSERTS PER MANUFACTURER
   EPOXY GROUTED INSTALLATIONS PER MANUFACTURER

10. UNLESS OTHERWISE NOTED, THE FOLLOWING ELEMENTS COMPRISE THE SEISMIC-FORCE-RESISTING SYSTEM AND ARE SUBJECT TO SPECIAL INSPECTION FOR SEISMIC RESISTANCE IN ACCORDANCE WITH SECTION 1705.12 OF THE INTERNATIONAL BUILDING CODE.

    A. STRUCTURAL WOOD SHEAR WALL SYSTEMS REQUIRE PERIODIC INSPECTION FOR FIELD GLUING, NAILING, BOLTING, ANCHORING AND OTHER FASTENING OF COMPONENTS WITHIN THE SEISMIC FORCE, RESISTING SYSTEM INCLUDING SHEAR WALLS, DIAPHRAGMS, DRAG STRUTS, BRACES AND HOLDOWNS.

11. STRUCTURAL OBSERVATION SHALL BE PERFORMED IN ACCORDANCE WITH SECTIONS 1704.6 OF THE INTERNATIONAL BUILDING CODE FOR THE FOLLOWING BUILDING ELEMENTS:

    LIGHT FRAMED SHEAR WALLS
    HOLDDOWNS

    THE CONTRACTOR SHALL PROVIDE THE ENGINEER OF RECORD ADEQUATE NOTICE TO SCHEDULE APPROPRIATE SITE VISITS FOR STRUCTURAL OBSERVATION.

    STRUCTURAL OBSERVATION MEANS THE VISUAL OBSERVATION OF THE STRUCTURAL SYSTEM, FOR GENERAL CONFORMANCE TO THE APPROVED PLANS AND SPECIFICATIONS, AT SIGNIFICANT CONSTRUCTION STAGES AND AT COMPLETION OF THE STRUCTURAL SYSTEM. STRUCTURAL OBSERVATION DOES NOT INCLUDE OR WAIVE THE RESPONSIBILITY FOR THE INSPECTIONS REQUIRED BY SECTION 110, 1705, OR OTHER SECTIONS OF THE INTERNATIONAL BUILDING CODE.

    THE OWNER SHALL EMPLOY THE ENGINEER OR ARCHITECT RESPONSIBLE FOR THE STRUCTURAL DESIGN, TO PERFORM STRUCTURAL OBSERVATION. OBSERVED DEFICIENCIES SHALL BE REPORTED IN WRITING TO THE OWNER'S REPRESENTATIVE, SPECIAL INSPECTOR, CONTRACTOR, AND THE BUILDING OFFICIAL. THE STRUCTURAL OBSERVER SHALL SUBMIT TO THE BUILDING OFFICIAL A WRITTEN STATEMENT THAT THE SITE VISITS HAVE BEEN MADE AND IDENTIFYING ANY REPORTED DEFICIENCIES WHICH, TO THE BEST OF THE STRUCTURAL OBSERVER'S KNOWLEDGE, HAVE NOT BEEN RESOLVED.

GEOTECHNICAL

12. FOUNDATION NOTES: ALLOWABLE SOIL PRESSURE AND LATERAL EARTH PRESSURE ARE ASSUMED AND THEREFORE MUST BE VERIFIED BY A QUALIFIED SOILS ENGINEER OR APPROVED BY THE BUILDING OFFICIAL. IF SOILS ARE FOUND TO BE OTHER THAN ASSUMED, NOTIFY THE STRUCTURAL ENGINEER FOR POSSIBLE FOUNDATION REDESIGN.

    FOOTINGS SHALL BEAR ON FIRM, UNDISTURBED EARTH AT LEAST 18" BELOW ADJACENT FINISHED GRADE. UNLESS OTHERWISE NOTED, FOOTINGS SHALL BE CENTERED BELOW COLUMNS OR WALLS ABOVE.

    BACKFILL BEHIND ALL RETAINING WALLS WITH FREE DRAINING, GRANULAR FILL AND PROVIDE FOR SUBSURFACE DRAINAGE.

    ALLOWABLE SOIL PRESSURE. . . . . 1500 PSF
    LATERAL EARTH PRESSURE (RESTRAINED/UNRESTRAINED) . . . . . .55 PCF/35 PCF
    ALLOWABLE PASSIVE EARTH PRESSURE (FS OF 1.5 INCLUDED). . . . . 300 PCF
    COEFFICIENT OF FRICTION (FS OF 1.5 INCLUDED). 0.3

RENOVATION

13. DEMOLITION: CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS BEFORE COMMENCING ANY DEMOLITION. SHORING SHALL BE INSTALLED TO SUPPORT EXISTING CONSTRUCTION AS REQUIRED AND IN A MANNER SUITABLE TO THE WORK SEQUENCES. DEMOLITION DEBRIS SHALL NOT BE ALLOWED TO DAMAGE OR OVERLOAD THE EXISTING STRUCTURE. LIMIT CONSTRUCTION LOADING (INCLUDING DEMOLITION DEBRIS) ON EXISTING FLOOR SYSTEMS TO 40 PSF.

14. CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS, MEMBER SIZES, AND CONDITIONS PRIOR TO COMMENCING ANY WORK. ALL DIMENSIONS OF EXISTING CONSTRUCTION SHOWN ON THE DRAWINGS ARE INTENDED AS GUIDELINES ONLY AND MUST BE VERIFIED. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT AND STRUCTURAL ENGINEER IF EXISTING CONDITIONS DETERMINED DURING WORK VARY FROM THE EXISTING CONSTRUCTION SHOWN ON THE DRAWINGS.

15. EXISTING REINFORCING SHALL BE SAVED WHERE AND AS NOTED ON THE PLANS. SAW CUTTING, IF AND WHERE USED, SHALL NOT CUT EXISTING REINFORCING THAT IS TO BE SAVED.

    A. ALL NEW OPENINGS THROUGH EXISTING WALLS, SLABS AND BEAMS SHALL BE ACCOMPLISHED BY SAW CUTTING WHEREVER POSSIBLE. CORNERS SHALL NOT BE OVERCUT.
    B. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND LOCATION OF MEMBERS PRIOR TO CUTTING ANY OPENINGS.
    C. SMALL ROUND OPENINGS SHALL BE ACCOMPLISHED BY CORE DRILLING.
    D. WHERE NEW REINFORCING TERMINATES AT EXISTING CONCRETE, DRILL AND EPOXY DOWELS MATCHING THE NEW REINFORCING INTO THE EXISTING CONCRETE WITH 6" EMBED, UNLESS OTHERWISE NOTED ON PLANS.

16. CONTRACTOR SHALL CHECK FOR DRY ROT AT ALL AREAS OF NEW WORK. ALL ROT SHALL BE REMOVED AND DAMAGED MEMBERS SHALL BE REPLACED OR REPAIRED AS DIRECTED BY THE STRUCTURAL ENGINEER OR ARCHITECT.

ANCHORAGE

17. EXPANSION BOLTS INTO CONCRETE SHALL BE "STRONG-BOLT 2" WEDGE ANCHORS AS MANUFACTURED BY THE SIMPSON STRONG TIE COMPANY AND INSTALLED IN STRICT CONFORMANCE TO ICC-ES REPORT NUMBER ESR-3037, INCLUDING MINIMUM EMBEDMENT REQUIREMENTS. BOLTS INTO CONCRETE MASONRY OR BRICK MASONRY UNITS SHALL BE INTO FULLY GROUTED CELLS. PERIODIC SPECIAL INSPECTION IS REQUIRED TO VERIFY ANCHOR TYPE, ANCHOR DIMENSIONS, ANCHOR LOCATION, TIGHTENING TORQUE, HOLE DIMENSIONS, ANCHOR EMBEDMENT, AND ADHERENCE TO THE INSTALLATION INSTRUCTIONS.

18. EPOXY-GROUTED ITEMS (THREADED RODS OR REINFORCING BAR) SPECIFIED ON THE DRAWINGS SHALL BE INSTALLED USING "SET-XP" HIGH STRENGTH EPOXY AS MANUFACTURED BY THE SIMPSON STRONG, TIE COMPANY. INSTALL IN STRICT ACCORDANCE WITH ICC-ES REPORT NO. ESR-2508. MINIMUM BASE MATERIAL TEMPERATURE IS 50 DEGREES, F. RODS SHALL BE ASTM A-36 UNLESS OTHERWISE NOTED. PERIODIC SPECIAL INSPECTION OF INSTALLATION IS REQUIRED TO VERIFY ANCHOR OR EMBEDDED BAR TYPE AND DIMENSIONS, LOCATION, ADHESIVE IDENTIFICATION AND EXPIRATION, HOLE DIMENSIONS, HOLE CLEANING PROCEDURE, ANCHOR EMBEDMENT, AND ADHERENCE TO THE INSTALLATION INSTRUCTIONS. CONTINUOUS SPECIAL INSPECTION IS REQUIRED FOR HORIZONTAL AND OVERHEAD INSTALLATIONS.

WOOD

19. FRAMING LUMBER SHALL BE S-DRY, KD, OR MC-19, AND GRADED AND MARKED IN CONFORMANCE WITH WCLIB STANDARD No. 17, GRADING RULES FOR WEST COAST LUMBER, 2018, OR WWPA STANDARD, WESTERN LUMBER GRADING RULES 2017. FURNISH TO THE FOLLOWING MINIMUM STANDARDS:

JOISTS AND BEAMS	(2X & 3X MEMBERS)	HEM-FIR NO. 2 MINIMUM BASE VALUE, Fb = 850 PSI
	(4X MEMBERS)	DOUGLAS FIR-LARCH NO. 1 MINIMUM BASE VALUE, Fb = 1000 PSI
BEAMS	(INCL. 6X AND LARGER)	DOUGLAS FIR-LARCH NO. 1 MINIMUM BASE VALUE, Fb = 1350 PSI
POSTS	(4X MEMBERS)	DOUGLAS FIR-LARCH NO. 2 MINIMUM BASE VALUE, Fc = 1350 PSI
	(6X AND LARGER)	DOUGLAS FIR-LARCH NO. 1 MINIMUM BASE VALUE, Fc = 1000 PSI
STUDS, PLATES & MISC. FRAMING:		DOUGLAS FIR-LARCH NO. 2 OR HEM-FIR NO. 2

20. PLYWOOD SHEATHING SHALL BE GRADE C-D, EXTERIOR GLUE OR STRUCTURAL II, EXTERIOR GLUE IN CONFORMANCE WITH DOC PS 1 OR PS 2. ORIENTED STRAND BOARD OF EQUIVALENT THICKNESS, EXPOSURE RATING AND PANEL INDEX MAY BE USED IN LIEU OF PLYWOOD.

    ROOF SHEATHING SHALL BE 1/2" (NOMINAL) WITH SPAN RATING 32/16.

    FLOOR SHEATHING SHALL BE 3/4" (NOMINAL) WITH SPAN RATING 48/24.

    WALL SHEATHING SHALL BE 1/2" (NOMINAL) WITH SPAN RATING 24/0.

    PROVIDE APPROVED PLYWOOD EDGE CLIPS CENTERED BETWEEN JOISTS/TRUSSES AT UNBLOCKED ROOF SHEATHING EDGES. ALL FLOOR SHEATHING EDGES SHALL HAVE APPROVED T&G JOINTS OR SHALL BE SUPPORTED WITH SOLID BLOCKING. ALLOW 1/8" SPACING AT ALL PANEL EDGES AND ENDS OF FLOOR AND ROOF SHEATHING.

    REFER TO WOOD FRAMING NOTES BELOW FOR TYPICAL NAILING REQUIREMENTS.

21. ALL WOOD IN DIRECT CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESSURE-TREATED WITH AN APPROVED PRESERVATIVE OR (2) LAYERS OF ASPHALT IMPREGNATED BUILDING PAPER SHALL BE PROVIDED BETWEEN UNTREATED WOOD AND CONCRETE OR MASONRY.

22. FASTENERS AND TIMBER CONNECTORS USED WITH TREATED WOOD SHALL HAVE CORROSION RESISTANCE AS INDICATED IN THE FOLLOWING TABLE, UNLESS OTHERWISE NOTED.

WOOD TREATMENT	CONDITION	PROTECTION
HAS NO AMMONIA CARRIER	INTERIOR DRY	G90 GALVANIZED
CONTAINS AMMONIA CARRIER	INTERIOR DRY	G185 OR A185 HOT DIPPED OR CONTINUOUS HOT-GALVANIZED PER ASTM A653
CONTAINS AMMONIA CARRIER	INTERIOR WET	TYPE 304 OR 316 STAINLESS
CONTAINS AMMONIA CARRIER	EXTERIOR	TYPE 304 OR 316 STAINLESS
ACZA	ANY	TYPE 304 OR 316 STAINLESS

    INTERIOR DRY CONDITIONS SHALL HAVE WOOD MOISTURE CONTENT LESS THAN 19%. WOOD MOISTURE CONTENT IN OTHER CONDITIONS (INTERIOR WET, EXTERIOR WET, AND EXTERIOR DRY) IS EXPECTED TO EXCEED 19%. CONNECTORS AND THEIR FASTENERS SHALL BE THE SAME MATERIAL. COMPLY WITH THE TREATMENT MANUFACTURERS RECOMMENDATIONS FOR PROTECTION OF METAL.

23. TIMBER CONNECTORS CALLED OUT BY LETTERS AND NUMBERS SHALL BE "STRONG-TIE" BY SIMPSON COMPANY, AS SPECIFIED IN THEIR CATALOG NUMBER C-C-2019. EQUIVALENT DEVICES BY OTHER MANUFACTURERS MAY BE SUBSTITUTED, PROVIDED THEY HAVE ICC-ES APPROVAL FOR EQUAL OR GREATER LOAD CAPACITIES. PROVIDE NUMBER AND SIZE OF FASTENERS AS SPECIFIED BY MANUFACTURER FOR MAXIMUM LOAD CARRYING CAPACITY. CONNECTORS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

    ALL 2X JOISTS SHALL BE CONNECTED TO FLUSH BEAMS WITH "LUS" SERIES JOIST HANGERS. ALL TJI JOISTS SHALL BE CONNECTED TO FLUSH BEAMS WITH "ITS" SERIES JOIST HANGERS. ALL DOUBLE-JOIST BEAMS SHALL BE CONNECTED TO FLUSH BEAMS WITH "MIT" SERIES JOIST HANGERS.

    WHERE CONNECTOR STRAPS CONNECT TWO MEMBERS, PLACE ONE-HALF OF THE NAILS OR BOLTS IN EACH MEMBER.

    ALL SHIMS SHALL BE SEASONED AND DRIED AND THE SAME GRADE (MINIMUM)AS MEMBERS CONNECTED.

24. WOOD FASTENERS

    A. NAIL SIZES SPECIFIED ON DRAWINGS ARE BASED ON THE FOLLOWING SPECIFICATIONS:

SIZE	LENGTH	DIAMETER
6d	2"	0.113"
8d	2-1/2"	0.131"
10d	3"	0.148"
12d	3-1/4"	0.148"
16d BOX	3-1/2"	0.135"

    IF CONTRACTOR PROPOSES THE USE OF ALTERNATE NAILS, THEY SHALL SUBMIT NAIL SPECIFICATIONS TO THE STRUCTURAL ENGINEER (PRIOR TO CONSTRUCTION) FOR REVIEW AND APPROVAL.

    NAILS - PLYWOOD (APA RATED SHEATHING) FASTENERS TO FRAMING SHALL BE DRIVEN FLUSH TO FACE OF SHEATHING WITH NO COUNTERSINKING PERMITTED. TOE-NAILS SHALL BE DRIVEN AT AN ANGLE OF 30 DEGREES WITH THE MEMBER AND STARTED 1/3 THE LENGTH OF THE NAIL FROM THE MEMBER END.

    B. ALL BOLTS IN WOOD MEMBERS SHALL CONFORM TO ASTM A307. PROVIDE WASHERS UNDER THE HEADS AND NUTS OF ALL BOLTS AND LAG BOLTS BEARING ON WOOD. INSTALLATION OF LAG BOLTS SHALL CONFORM TO THE NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION WITH A LEAD BORE HOLE OF 60 TO 70 PERCENT OF THE SHANK DIAMETER. LEAD HOLES ARE NOT REQUIRED FOR 3/8" AND SMALLER LAG SCREWS.

25. NOTCHES AND HOLES IN WOOD FRAMING:

    A. NOTCHES ON THE ENDS OF SOLID SAWN JOISTS AND RAFTERS SHALL NOT EXCEED ONE-FOURTH THE JOIST DEPTH. NOTCHES IN THE TOP OR BOTTOM OF SOLID SAWN JOISTS SHALL NOT EXCEED ONE-SIXTH THE DEPTH AND SHALL NOT BE LOCATED IN THE MIDDLE THIRD OF THE SPAN. HOLES BORED IN SOLID SAWN JOISTS AND RAFTERS SHALL NOT BE WITHIN 2 INCHES OF THE TOP OR BOTTOM OF THE JOIST, AND THE DIAMETER OF ANY SUCH HOLE SHALL NOT EXCEED ONE-THIRD THE DEPTH OF THE JOIST.

    B. IN EXTERIOR WALLS AND BEARING PARTITIONS, ANY WOOD STUD IS PERMITTED TO BE CUT OR NOTCHED TO A DEPTH NOT EXCEEDING 25 PERCENT OF ITS WIDTH. A HOLE NOT GREATER IN DIAMETER THAN 40 PERCENT OF THE STUD WIDTH IS PERMITTED TO BE BORED IN ANY WOOD STUD. IN NO CASE SHALL THE EDGE OF THE BORED HOLE BE NEARER THAN 5/8 INCH TO THE EDGE OF THE STUD. BORED HOLES SHALL NOT BE LOCATED AT THE SAME SECTION OF STUD AS A CUT OR NOTCH.

    C. NOTCHES AND HOLES IN MANUFACTURED LUMBER AND PREFABRICATED PLYWOOD WEB JOISTS SHALL BE PER THE MANUFACTURERS RECOMMENDATIONS UNLESS OTHERWISE NOTED.

26. WOOD FRAMING NOTES--THE FOLLOWING APPLY UNLESS OTHERWISE SHOWN ON THE PLANS:

    A. ALL WOOD FRAMING DETAILS NOT SHOWN OTHERWISE SHALL BE CONSTRUCTED TO THE MINIMUM STANDARDS OF THE INTERNATIONAL BUILDING CODE, THE AITC "TIMBER CONSTRUCTION MANUAL" AND THE AWC "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION". MINIMUM NAILING, UNLESS OTHERWISE NOTED, SHALL CONFORM TO IBC TABLE 2304.10.1. COORDINATE THE SIZE AND LOCATION OF ALL OPENINGS WITH MECHANICAL AND ARCHITECTURAL DRAWINGS.

    B. WALL FRAMING: REFER ARCHITECTURAL DRAWINGS FOR THE SIZE OF ALL WALLS. ALL STUDS SHALL BE SPACED AT 16" O.C. UNO. TWO STUDS MINIMUM SHALL BE PROVIDED AT THE END OF ALL WALLS AND AT EACH SIDE OF ALL OPENINGS, AND AT BEAM OR HEADER BEARING LOCATIONS. TWO 2x8 HEADERS SHALL BE PROVIDED OVER ALL OPENINGS NOT OTHERWISE NOTED. SOLID BLOCKING FOR WOOD COLUMNS SHALL BE PROVIDED THROUGH FLOORS TO SUPPORTS BELOW. PROVIDE CONTINUOUS SOLID BLOCKING AT MID-HEIGHT OF ALL STUD WALLS OVER 10'-0" IN HEIGHT.

    ALL WALLS SHALL HAVE A SINGLE BOTTOM PLATE AND A DOUBLE TOP PLATE. END NAIL TOP PLATE TO EACH STUD WITH TWO 16d NAILS, AND TOENAIL OR END NAIL EACH STUD TO BOTTOM PLATE WITH TWO 16d NAILS. FACE NAIL DOUBLE TOP PLATE WITH 16d @ 12" O.C.. LAP TOP PLATES AT JOINTS A MINIMUM 4'-0" AND NAIL WITH TWELVE 16d NAILS @ 4" O.C. EACH SIDE JOINT.

    ALL STUD WALLS SHALL HAVE THEIR LOWER WOOD PLATES ATTACHED TO WOOD FRAMING BELOW WITH TWO ROWS OF 16d NAILS @ 12" ON-CENTER, OR ATTACHED TO CONCRETE BELOW WITH 5/8" DIAMETER ANCHOR BOLTS @ 4'-0" ON-CENTER EMBEDDED 7" MINIMUM, UNLESS INDICATED OTHERWISE. INDIVIDUAL MEMBERS OF BUILT-UP POSTS SHALL BE NAILED TO EACH OTHER WITH TWO ROWS OF 16d @12" ON-CENTER. UNLESS OTHERWISE NOTED, GYPSUM WALLBOARD SHALL BE FASTENED TO THE INTERIOR SURFACE OF ALL STUDS AND PLATES WITH NO. 6 X 1-1/4" TYPE S OR W SCREWS @ 8" ON-CENTER. UNLESS INDICATED OTHERWISE, 1/2" (NOMINAL)APA RATED SHEATHING (SPAN RATING 24/0) SHALL BE NAILED TO ALL EXTERIOR SURFACES WITH 8d NAILS @ 6" ON-CENTER AT PANEL EDGES AND TOP AND BOTTOM PLATES (BLOCK UN-SUPPORTED EDGES)AND TO ALL INTERMEDIATE STUDS AND BLOCKING WITH 8d NAILS @ 12" ON-CENTER ALLOW 1/8" SPACING AT ALL PANEL EDGES AND PANEL ENDS.

    C. FLOOR AND ROOF FRAMING: PROVIDE DOUBLE JOISTS UNDER ALL PARALLEL PARTITIONS THAT EXTEND OVER MORE THAN HALF THE JOIST LENGTH AND AROUND ALL OPENINGS IN FLOORS OR ROOFS UNLESS OTHERWISE NOTED. PROVIDE SOLID BLOCKING BETWEEN RAFTERS AND JOISTS AT ALL BEARING POINTS WITH A MINIMUM OF (3) 16d TOE NAILS EACH END. TOE-NAIL JOISTS TO SUPPORTS WITH TWO 16d NAILS. ATTACH TIMBER JOISTS TO FLUSH HEADERS OR BEAMS WITH SIMPSON METAL JOIST HANGERS IN ACCORDANCE WITH NOTES ABOVE. NAIL ALL MULTI JOIST BEAMS TOGETHER WITH TWO ROWS 16d @ 12" ON-CENTER.

    UNLESS OTHERWISE NOTED ON THE PLANS, PLYWOOD ROOF AND FLOOR SHEATHING SHALL BE LAID UP WITH GRAIN PERPENDICULAR TO SUPPORTS AND NAILED AT 6" ON-CENTER WITH 8d NAILS TO FRAMED PANEL EDGES, STRUTS AND OVER STUD WALLS AS SHOWN ON PLANS AND @ 12" ON-CENTER TO INTERMEDIATE SUPPORTS. PROVIDE APPROVED PLYWOOD EDGE CLIPS CENTERED BETWEEN JOISTS/TRUSSES AT UNBLOCKED ROOF SHEATHING EDGES. ALL FLOOR SHEATHING EDGES SHALL HAVE APPROVED T&G JOINTS OR SHALL BE SUPPORTED WITH SOLID BLOCKING. ALLOW 1/8" SPACING AT ALL PANEL EDGES AND ENDS OF FLOOR AND ROOF SHEATHING. TOENAIL BLOCKING TO SUPPORTS WITH 16d @ 12" ON-CENTER, MINIMUM TWO NAILS PER BLOCK, UNLESS OTHERWISE NOTED.

Attachment B

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CHECKED: RHR
APPROVED: RHR

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PROJECT TITLE:
Darrington Library

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ARCHITECT:
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ISSUE: PERMIT

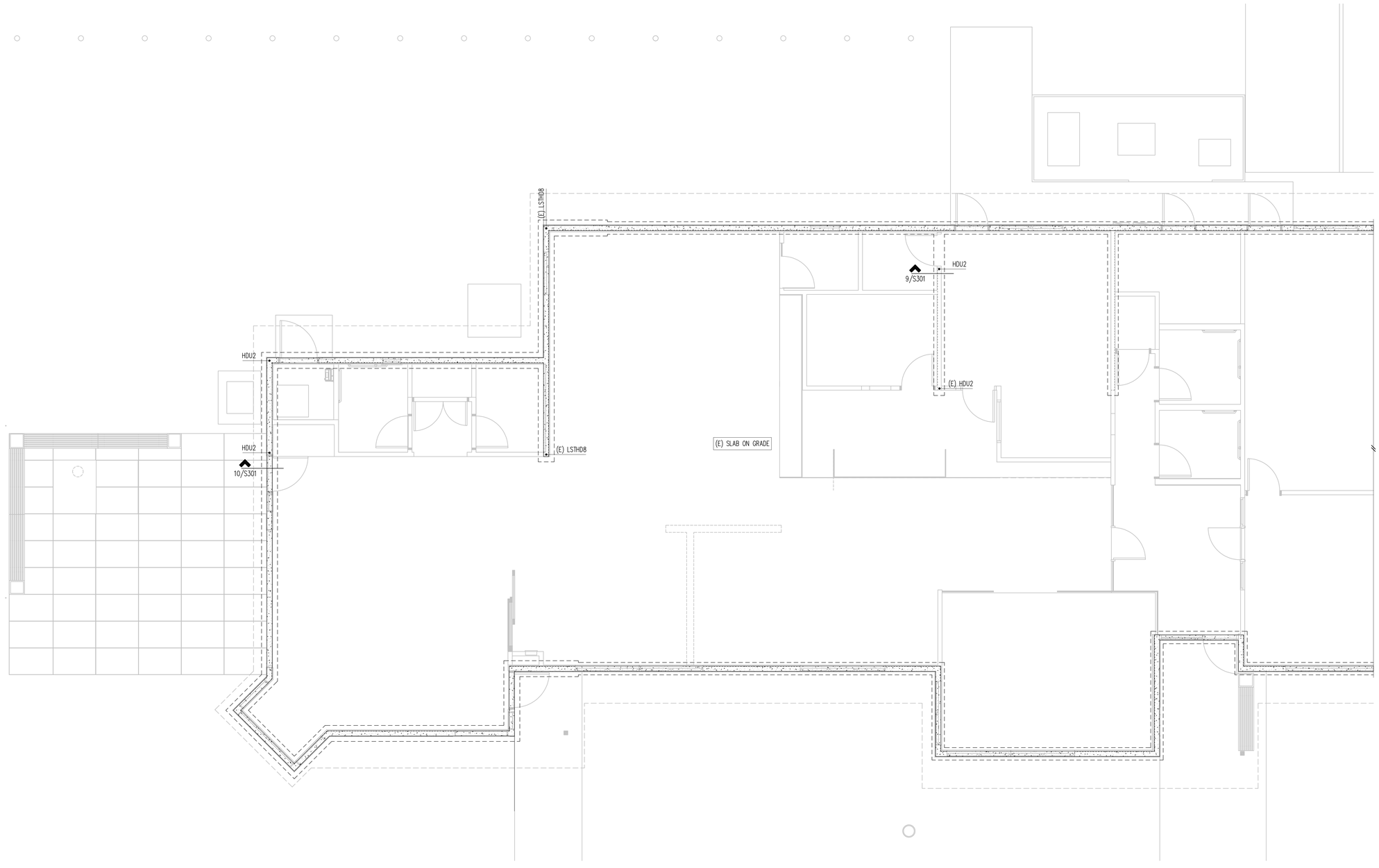
SHEET TITLE: General Structural Notes

SCALE:

DATE: Sept. 01, 2022

PROJECT NO: 12959-2022-01

SHEET NO: S101



Plan Notes

1. DO NOT SCALE DRAWINGS. REFER ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS.
2. REFER TO 5/S301 FOR TYPICAL SLAB ON GRADE REPAIR.
3. REFER GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.

Legend

EXISTING STEM WALL & FOOTING

XX HOLDOWN PER

Foundation Plan

Scale: 1/4" = 1'-0"

Attachment B

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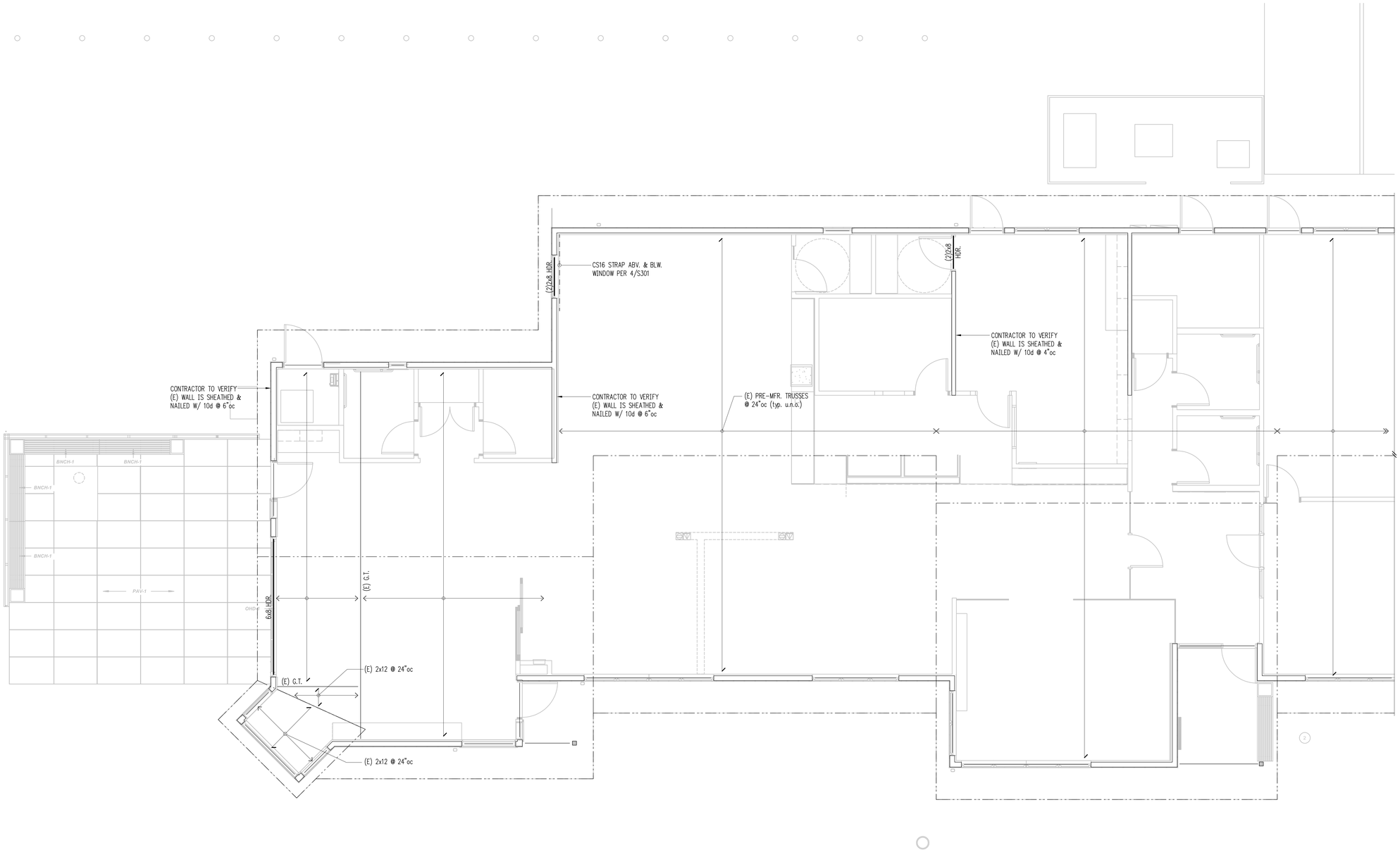
SHEET TITLE:

Foundation Plan

SCALE: 1/4" = 1'-0" U.N.O.
DATE: Sept. 01, 2022
PROJECT NO: 12959-2022-01
SHEET NO:

S201



Plan Notes

1. DO NOT SCALE DRAWINGS. REFER ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS.
2. ALL NEW HEADERS SHALL BE (2) 2x8'S UNLESS NOTED OTHERWISE. CONTRACTOR MAY SUBSTITUTE A 4x8 OR 6x6 FOR (2) 2x8'S AT THEIR OPTION.
3. REFER TO 15/S401 FOR ALLOWABLE HOLES AND NOTCHES IN WOOD STUDS.
4. REFER TO 20/S402 FOR TYPICAL HEADER SUPPORT.
5. REFER TO GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENT

Legend

- EXISTING WALL OR POST BELOW
- SPAN DIRECTION
- EXTENT OF JOISTS
- HEADER/BEAM PER PLAN
- EXISTING HEADER/BEAM

Roof Framing Plan

Scale: 1/4" = 1'-0"

Attachment B

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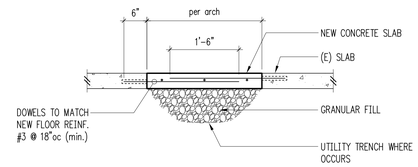
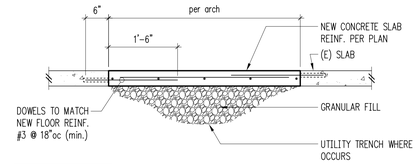
SHEET TITLE: Roof Framing Plan

SCALE: 1/4" = 1'-0" U.N.O.
DATE: Sept. 01, 2022
PROJECT NO: 12959-2022-01
SHEET NO: S202

Attachment B

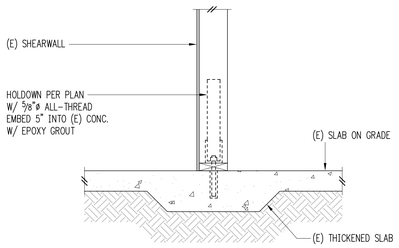




NEW SLAB TO EXISTING
(one side only) @ 'sim.'

3/4" = 1'-0"

Typical Slab on Grade Repair 5



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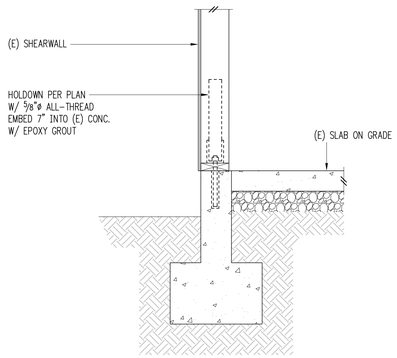

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ISSUE:

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SHEET TITLE:

Concrete Details

SCALE: 1" = 1'-0" U.N.O.
DATE: Sept. 01, 2022
PROJECT NO: 12959-2022-01
SHEET NO:

S301

Attachment B

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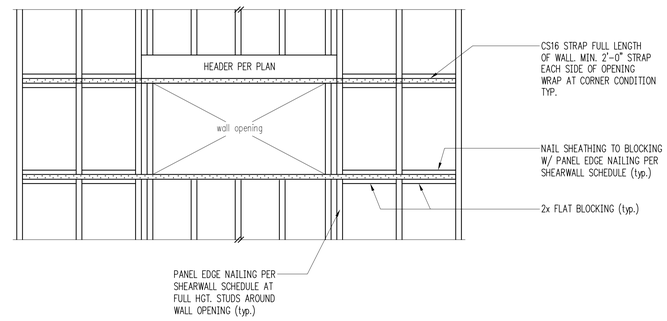
1

2

3

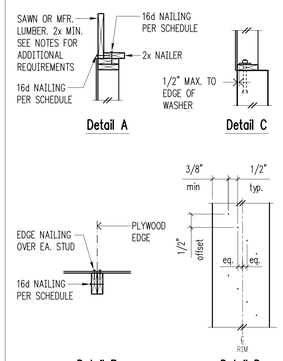


Continuous Straps at Wall Opening (above and below) 5

6

7

8



PLAN VIEW AT ABUTTING PANEL EDGES OF W3 & W2

Shearwall Schedule ①②③⑤⑥⑦

Mark	Sheathing	Panel Edge Nailing	Top Plate Connection		Base Plate Connection	
			if TJI	if Wood ⑧ ⑨	at Wood ⑩	at Concrete
W6	15/32" CDX PLYWOOD	8d @ 6"oc	16d @ 6"oc	A35 @ 24"oc	16d @ 6"oc	5/8"ø A.B. @ 48"oc
W4	15/32" CDX PLYWOOD	8d @ 4"oc	16d @ 4"oc	A35 @ 16"oc	(2)rows 16d @ 6"oc	5/8"ø A.B. @ 32"oc
W3 ④	15/32" CDX PLYWOOD	8d @ 3"oc	(2)rows 16d @ 4"oc	A35 @ 12"oc	(2)rows 16d @ 6"oc	5/8"ø A.B. @ 24"oc
W2 ④	15/32" CDX PLYWOOD	8d @ 2"oc	(2)rows 16d @ 4"oc	A35 @ 9"oc	(2)rows 16d @ 4"oc ⑪	5/8"ø A.B. @ 16"oc

① BLOCK PANEL EDGES WITH 2x MIN. LAID FLAT AND NAIL PANELS TO INTERMEDIATE SUPPORTS WITH 8d @ 12"o.c.

② 8d NAILS SHALL BE 0.131"ø x 2 1/2" (common) – 16d NAILS SHALL BE 0.135"ø x 3 1/2" (box)

③ EMBED ANCHOR BOLTS AT LEAST 7". EXPANSION BOLTS MAY BE SUBSTITUTED FOR ANCHOR BOLTS WITH 4" EMBEDMENT. TITEN HD SCREW ANCHORS MAY BE SUBSTITUTED FOR ANCHOR BOLTS W/ 4" EMBEDMENT. ALL BOLTS SHALL HAVE 3" x 3" x 1/4" MIN. PLATE WASHERS. PLATE WASHERS SHALL EXTEND TO WITHIN 1/2" OF THE EDGE OF THE BOTTOM PLATE ON THE SIDE WITH SHEATHING. SEE DETAIL C.

④ 3x STUDS OR DOUBLE STUDS NAILED TOGETHER W/ BASE PLATE NAILING ARE REQUIRED AT ABUTTING PANEL EDGES OF W3 AND W2. SEE DETAIL B. WHERE 3x STUDS ARE USED FOR W2, STAGGER NAILS AT ADJOINING PANEL EDGES.

⑤ TWO STUDS MINIMUM ARE REQUIRED AT EACH END OF ALL SHEARWALLS AND ALL END STUDS SHALL RECEIVE PANEL EDGE NAILING. SEE PLANS AND HOLDOWN SCHEDULE FOR ALTERNATE REQUIREMENTS.

⑥ ALL EXTERIOR WALLS SHALL BE W6, UNLESS NOTED OTHERWISE.

⑦ 7/16" O.S.B. MAY BE SUBSTITUTED FOR 15/32" CDX.

⑧ LTP4's (HORIZIONTAL ORIENTATION) W/ 8d COMMON MAY BE SUBSTITUTED FOR A35's AT CONTRACTORS OPTION.

⑨ A 2x NAILER ATTACHED W/ BASE PLATE NAILING PER DETAIL A MAY BE SUBSTITUTED FOR A35's AT CONTRACTORS OPTION.

⑩ AT MULTI-ROW NAILING, MINIMUM OFFSET BETWEEN ROWS AND ROW SPACING 1/2", SEE DETAIL D.

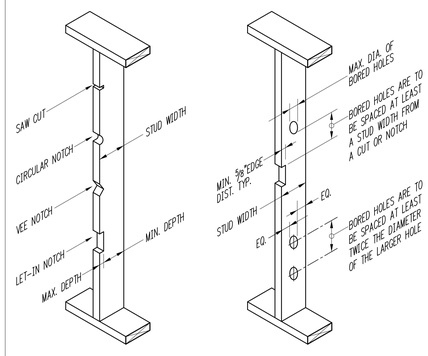
⑪ PROVIDE (3) ROWS 16d @ 6"oc AT LVL RIMS.

Shearwall Schedule - (Sheathed One Side) 10

11

12

13



BEARING WALL STUDS

STUD SIZE	MAX DEPTH OF EDGE CUT OR NOTCH	MIN DEPTH REMAINING AFTER CUT OR NOTCH
2x4	7/8"	2 5/8"
2x6	1 3/8"	4 1/8"
2x8	1 3/4"	5 1/2"

BEARING WALL STUDS

STUD SIZE	MAX DIAMETER OF BORED HOLE	MIN DEPTH REMAINING AFTER BORED HOLE
2x4	1 3/8"	5/8" EA SIDE OF HOLE
2x6	2 5/16"	5/8" EA SIDE OF HOLE
2x8	2 7/8"	5/8" EA SIDE OF HOLE

NOTE:
STUDS MAY NOT BE BORED IN EXCESS OF 40% OF THE STUD, IF STUDS ARE DOUBLED, BORINGS MAY BE INCREASED TO 60% OF STUD WIDTH PROVIDED NOT MORE THAN (2) SUCCESSIVE STUDS ARE BORED. BORINGS SHALL NOT BE MADE AT THE SAME SECTION WHERE CUT OR NOTCH HAS BEEN MADE.

NON-BEARING WALL STUDS

STUD SIZE	MAX DEPTH OF EDGE CUT OR NOTCH	MIN DEPTH REMAINING AFTER CUT OR NOTCH
2x4	1 3/8"	2 1/8"
2x6	2 5/16"	3 3/8"
2x8	2 7/8"	4 3/8"

NON-BEARING WALL STUDS

STUD SIZE	MAX DIAMETER OF BORED HOLE	MIN DEPTH REMAINING AFTER BORED HOLE
2x4	2 7/16"	5/8" EA SIDE OF HOLE
2x6	3 1/4"	5/8" EA SIDE OF HOLE
2x8	4 1/4"	5/8" EA SIDE OF HOLE

NOTE:
STUDS MAY NOT BE BORED IN EXCESS OF 60% OF THE STUD. BORINGS SHALL NOT BE MADE AT THE SAME SECTION WHERE CUT OR NOTCH HAS BEEN MADE.

CUTTING AND NOTCHING WOOD STUDS

NOTE:
DO NOT NOTCH MORE THAN THREE ADJACENT STUDS WITHOUT REVIEW BY ENGINEER.

BORED HOLES IN WOOD STUDS

NOTE:
BORED HOLE NOT PERMITTED IN MORE THAN THREE ADJACENT STUDS WITHOUT REVIEW BY ENGINEER.

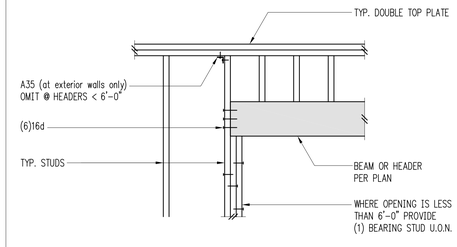
Typical Holes and Notches in Wood Studs 15

16

17

18

19



Typical Header Support 20

DRAWN: ADW
DESIGN: RHR
CHECKED: RHR
APPROVED: RHR

REVISIONS:

JURISDICTIONAL APPROVAL STAMP:

PROJECT TITLE:
Darrington Library

1005 Cascade St.
Darrington, WA 98241

ARCHITECT:
MSR Design
510 Marquette Avenue South
Minneapolis, MN 55402
PH 612.375.0336

ISSUE:
PERMIT

SHEET TITLE:
Wood Framing Details

SCALE: 3/4" = 1'-0" U.N.O.
DATE: Sept. 01, 2022
PROJECT NO: 12959-2022-01
SHEET NO:
S401

Attachment B

DEMOLITION GENERAL NOTES

1. NOTIFY ARCHITECT IMMEDIATELY IF FIELD CONDITIONS ARE DIFFERENT THAN SHOWN ON PLANS
2. COORDINATE DEMOLITION DRAWING WITH ALL NEW CONSTRUCTION DRAWINGS TO VERIFY EXACT SCOPE OF DEMOLITION. NOTIFY ARCHITECT OF ANY DISCREPANCIES.
3. ALL ITEMS INDICATED TO BE REMOVED AND SALVAGED TO BE PROTECTED FROM DAMAGE DURING REMOVAL, STORE IN PROTECTED LOCATION FOR FUTURE REUSE.
4. ALL EXISTING DOORS AND FRAMES TO REMAIN SHALL BE PROTECTED FROM ANY DAMAGE DURING DEMOLITION.
5. ALL EXISTING LIGHT FIXTURES, JUNCTION BOXES, AND WIRING TO REMAIN SHALL BE PROTECTED DURING DEMOLITION.
6. ALL EXISTING DIFFUSERS, VENTS AND HEATING UNITS AND METAL COVERS TO REMAIN SHALL BE PROTECTED DURING DEMOLITION.
7. ALL EXISTING IRRIGATION SYSTEM SUCH AS SPRINKLER AND DRIP IRRIGATION TO BE PROTECTED DURING SITE DEMOLITION
8. FLOOR SLAB "TRENCH" LOCATIONS ARE NOT SPECIFIED IN DEMOLITION DRAWING. COORDINATE WITH MEP CONTRACTOR.
9. REFER TO HARDWARE SCHEDULE FOR MISCELLANEOUS DEMOLITION FOR DOOR HARDWARE.
10. MAINTAIN CONTINUITY OF BUILDING ENVELOPE, INCLUDING VAPOR BARRIER, AT ALL DEMOLITION LOCATIONS.
11. REFER TO MEP DRAWINGS FOR HVAC LAYOUT AND CONNECTIONS TO EXISTING EQUIPMENT AND DEMOLITION.

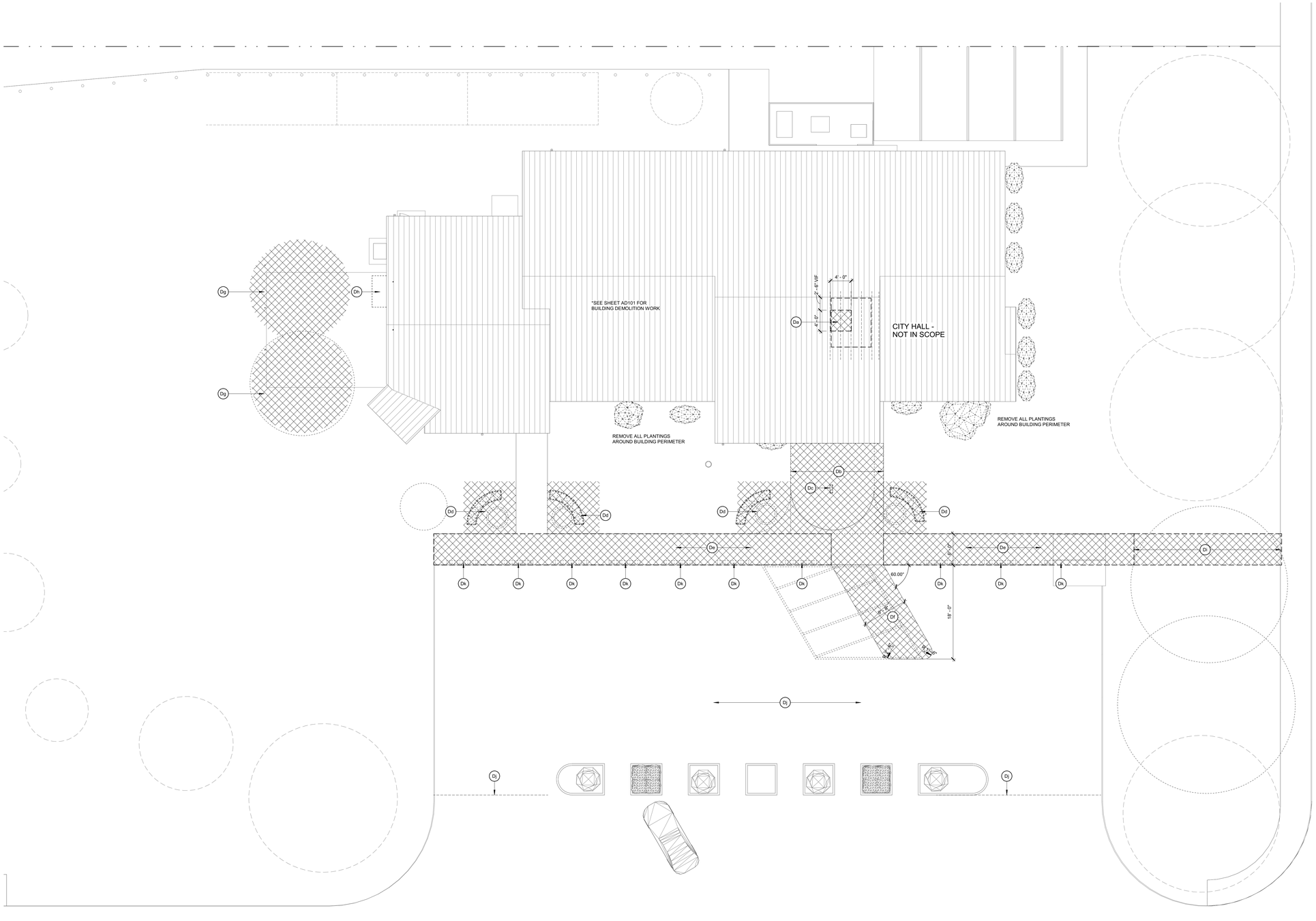
DEMOLITION KEYNOTES

- Da DEMOLISH EXISTING METAL ROOF AND ITS SUBSTRUCTURE AND PREPARE TO RECEIVE NEW SKYLIGHT, EXACT SIZE AND LOCATION TO BE COORDINATED WITH WINDOW INSTALLER
- Db DEMOLISH EXISTING CONCRETE SIDEWALK COMPLETELY AND PREPARE TO RECEIVE NEW CONCRETE SIDEWALK
- Dc REMOVE EXISTING LIGHT POLE AND MOVE POWER LINE TO NEW LIGHT POLE LOCATION
- Dd REMOVE EXISTING PLANTINGS, PLANTERS AND GRAVEL BED AND PREPARE TO RECEIVE NEW LANDSCAPE
- De REMOVE EXISTING ASPHALT SIDEWALK AND PREPARE TO RECEIVE NEW CONCRETE SIDEWALK
- Df REMOVE EXISTING ASPHALT PARKING AND PREPARE TO RECEIVE NEW CONCRETE ISLAND
- Dg REMOVE EXISTING TREES
- Dh REMOVE EXISTING CONCRETE STOOP AND PREPARE TO RECEIVE NEW CONCRETE PAVER
- Di REMOVE EXISTING LANDSCAPE AND PREPARE TO RECEIVE NEW CONCRETE SIDEWALK
- Dj REMOVE EXISTING ASPHALT AS REQUIRED AND PREPARE TO RECEIVE NEW ASPHALT
- Dk REMOVE EXISTING PARKING WHEEL STOPS COMPELTELY

DEMOLITION SYMBOLS LEGEND

EXISTING TO REMAIN

EXISTING TO BE REMOVED



1 SITE PLAN DEMOLITION
AD001 1/8" = 1'-0"

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Architect Seal

20122574 REGISTERED ARCHITECT
MATTHEW SCOTT KRUNTORAD
STATE OF WASHINGTON

Signature

Print Name Matthew Kruntorad

Date 04/27/2024 **License No** 20122574

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Mark	Date	Description

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DEMOLITION SITE PLAN

AD001

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Attachment B

DEMOLITION GENERAL NOTES

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13. DECOMMISSIONED POWER SHALL BE PROPERLY TERMINATED, TRIMED, CAPPED AND SAFELY ENCLOSED IN ACCESSIBLE SURFACE-FLUSH ELECTRICAL BOX, TYP.

DEMOLITION KEYNOTES

- D1 DEMOLISH LIGHT FIXTURE. ELECTRICAL BOX AND WIRING TO REMAIN FOR NEW LIGHT FIXTURE. PREPARE TO RECEIVE NEW LIGHT FIXTURE.
- D2 DEMOLISH CEILING WHERE INDICATED. PREPARE FOR NEW CEILING ELEMENT.
- D3 REMOVE EXISTING RESTROOM FAN. EXISTING ELECTRICAL AND DUCTWORK TO REMAIN FOR NEW RESTROOM FAN. PREPARE FOR NEW EXHUAST FAN.
- D4 DEMOLISH CEILING, ROOF RAFTERS, INSULATION, AND MECHANICAL & ELECTRICAL WHERE INDICATED TO PREPARE FOR NEW SKYLIGHT. REFER TO STRUCTURAL. SEE SKYLIGHT DETAILS ON SHEET A651.
- D5 REMOVE (E) ACT CEILING TILES, SIGNAGE & LIGHT FIXTURES COMPLETELY FOR AREA SHOWN HATCHED. REPAIR (E) VAPOR BARRIER AND INSULATION AS REQUIRED. PREPARE TO RECEIVE NEW ACT PANELS AND LINEAR LED LIGHT FIXTURES
- D6 DEMOLISH EXISTING SUPPLY DIFFUSER / RETURN GRILLE. DUCTING TO REMAIN. PREPARE TO RECEIVE NEW DIFFUSER AND RETURN GRILLE
- D7 DEMOLISH EXISTING WALL, WINDOW AND DOOR COMPLETELY AND PREPARE FOR NEW GLASS PARTITION. REUSE EXISTING TOP PLATES, SEE DETAILS ON A651.
- D8 DEMOLISH EXISTING EXTERIOR WALL COMPELTELY AND PREPARE TO RECEIVE NEW OVERHEAD DOOR, EXACT SIZE OF ROUGH OPENING TO BE COORDINATED WITH DOOR INSTALLER. EXISTING ELECTRICAL SWITCHES AT NORTH TO REMAIN. WIDTH ACCOMMODATED BY EXISTING FRAMING, REFER TO DETAILS ON A601.
- D9 REMOVE EXISTING WINDOW COMPLETELY AND PREPARE TO INFILL WALL
- D10 PROVIDE OPENING IN SHEAR WALL TO RECEIVE NEW DOOR, REFER TO STRUCTURAL FOR DEMOLITION INFORMATION, COORDINATE WITH DOOR INSTALLER FOR SIZE AND LOCATION OF OPENING
- D11 REMOVE EXISTING CARPET AND ADHESIVE COMPLETELY AND PREPARE TO RECEIVE NEW CARPET
- D12 REMOVE EXISTING WALL TRIM AT 8'-0" AFF COMPLETELY AND PREPARE SURFACE TO RECEIVE NEW PAINT FINISH
- D13 DEMOLISH ENTIRE RESTROOM FIXTURES, FLOOR AND WALL FINISHES COMPLETLY AND PREPARE TO RECEIVE NEW FINISHES INCLUDING WALL TRIMS AND WAINSCOATING COMPLETELY
- D14 EXISTING BOOK RETURN TO BE SLAVAGED AND STORED FOR FUTURE REUSE
- D15 REMOVE EXISTING MECHANICAL ELECTRIC SPACE HEATER COMPLETELY
- D16 REMOVE AND SALVAGE EXISTING DISPLAY CASE FOR FUTURE REUSE
- D17 REMOVE AND SALVAGE EXISTING POWER OPERATOR FOR FUTURE USE. ALL LOW VOLTAGE WIRES TO BE PROTECTED FROM ANY DAMAGE DURING DEMOLITION
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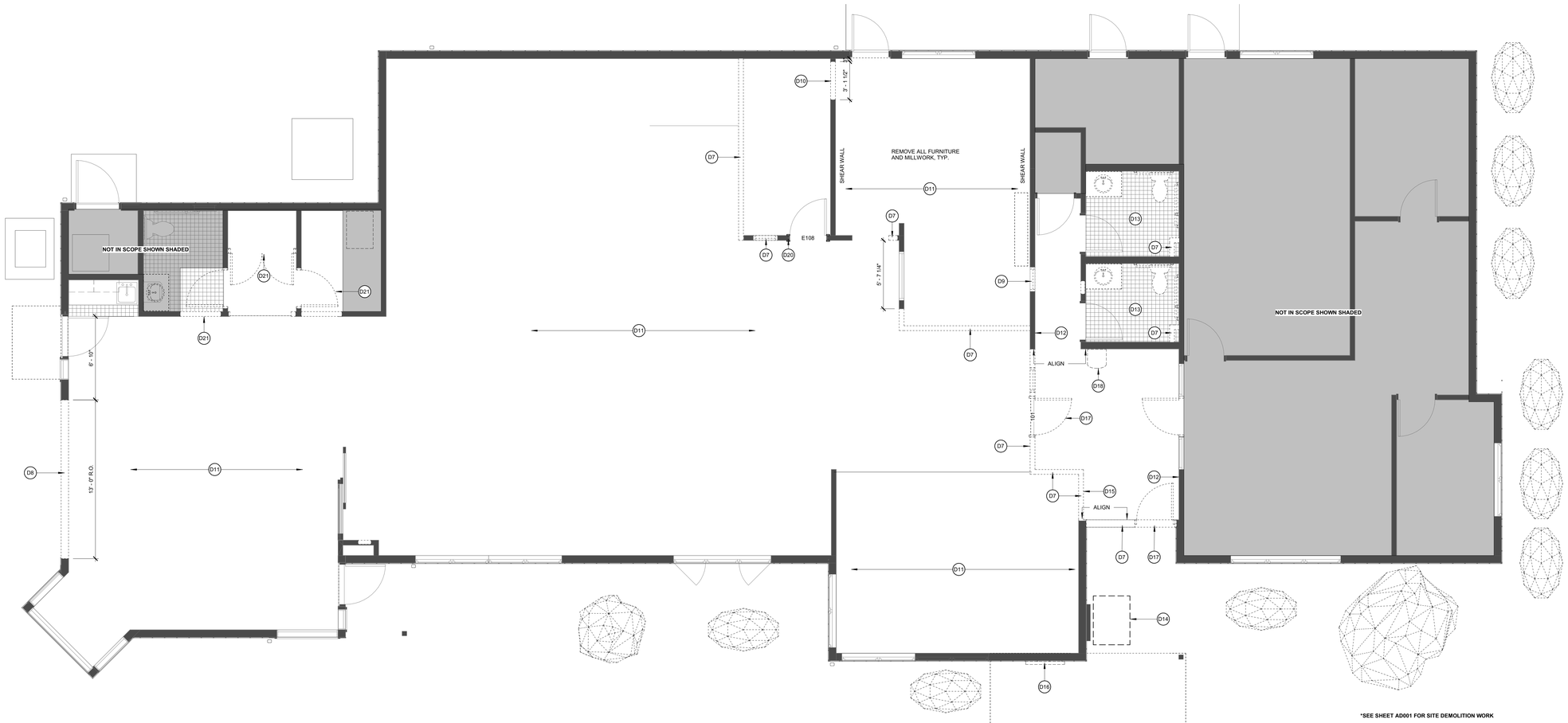
- D19 REMOVE EXISTING ACT CEILING PANELS ONLY AND EXISTING CEILING GRID TO REMAIN TO RECEIVE NEW CEILING PANELS.
- D20 DEMOLISH EXISTING TRIM AT ENTIRE DOOR PERIMETER AND PREPARE TO FINISH PER DOOR SCHEDULE ON A601.
- D21 DEMOLISH EXISTING WALLS WHERE INDICATED, SALVAGE EXISTING DOORS AND DOOR HARDWARE FOR FUTURE REUSE. DEMOLISH EXISTING WALL FOR ROUGH OPENING OF RELOCATED DOOR. PATCH AND REPAIR CEILING, WALL AND FLOOR FINISHES TO MATCH ADJACENT.

DEMOLITION SYMBOLS LEGEND

EXISTING TO REMAIN EXISTING TO BE REMOVED



1 LEVEL 1 DEMOLITION FLOOR PLAN
AD101 1/4" = 1'-0"

Architecture and Interiors

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Structure

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Seattle, Washington 98121 | (206) 443-6212

Mechanical, Electrical & Plumbing

Harris Group
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Architect Seal

20122574 REGISTERED ARCHITECT
MATTHEW SCOTT KRUNTORAD
STATE OF WASHINGTON

Signature MSK
Print Name Matthew Kruntorad
Date 04/27/2024 **License No** 20122574

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Mark	Date	Description

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LEVEL 1 DEMOLITION PLAN

AD101

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Attachment B

DEMOLITION GENERAL NOTES

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DEMOLITION SYMBOLS LEGEND

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EXISTING TO BE REMOVED

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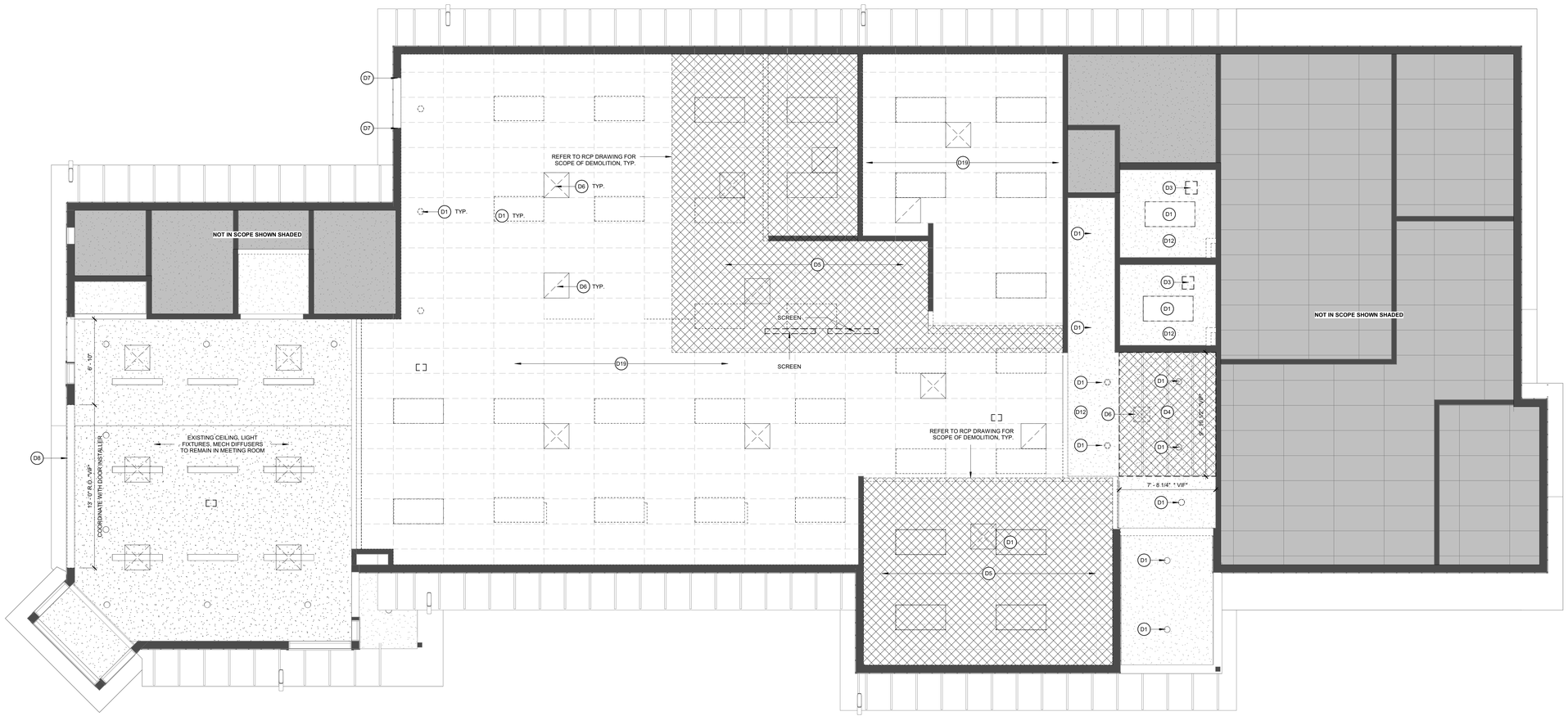

1 LEVEL 1 DEMOLITION REFLECTED CEILING PLAN

AD121 1/4" = 1'-0"

Architecture and Interiors

MSRDesign

510 Marquette Avenue South, Suite 200
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Structure

Swenson Say Fagét Engineers

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Mechanical, Electrical & Plumbing

Harris Group

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Architect Seal

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Signature MATTHEW KRUNTORAD

Print Name Matthew Kruntorad

Date 04/27/2024 **License No** 20122574

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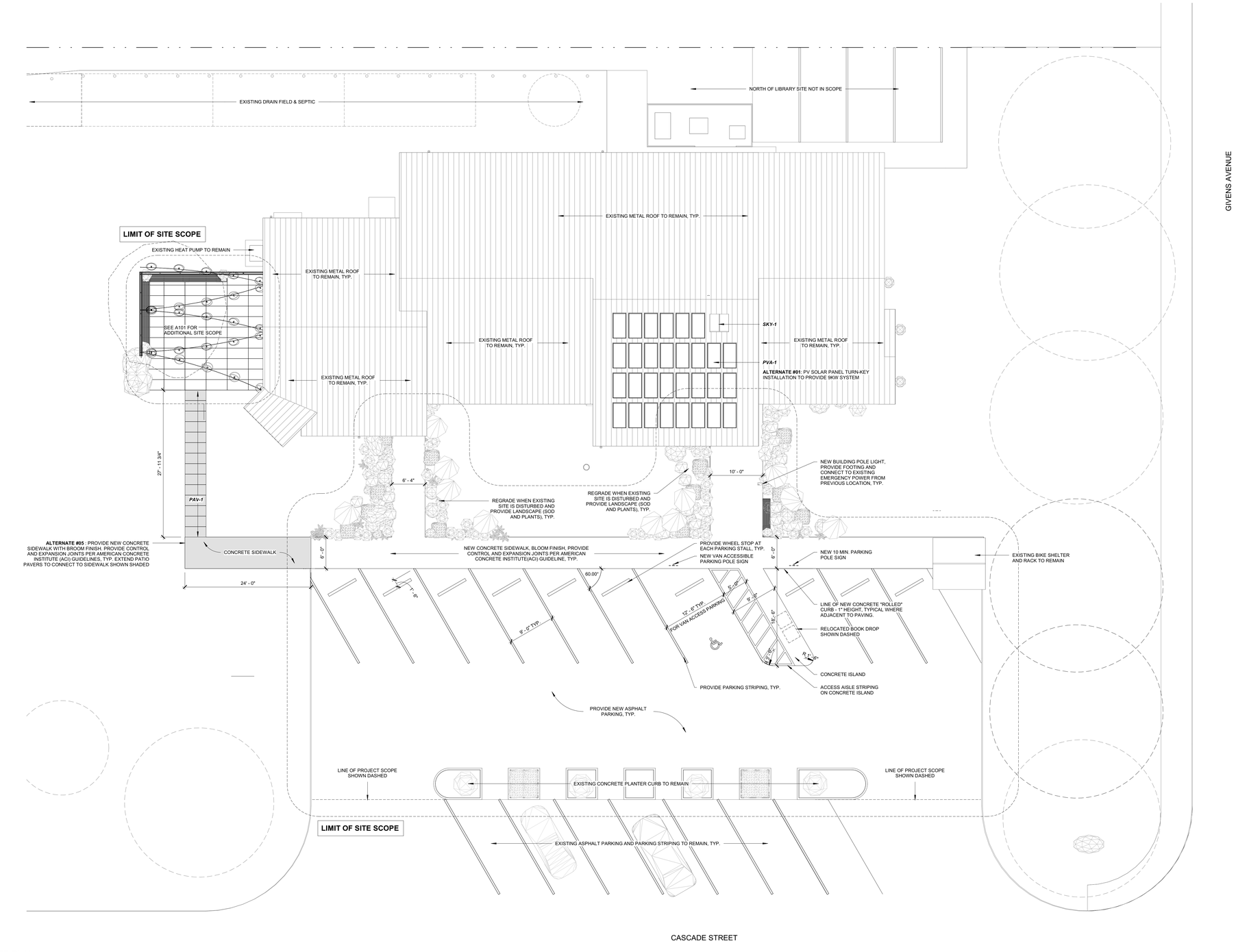
LEVEL 1 DEMOLITION REFLECTED CEILING PLAN

AD121

Attachment B

SITE GENERAL NOTES

1. NOTIFY ARCHITECT IMMEDIATELY IF FIELD CONDITIONS ARE DIFFERENT THAN SHOWN ON PLAN.
2. REFER TO MATERIAL LIST IN PROJECT MANUAL FOR MATERIALS AND FINISHES.
3. CIVIL AND LANDSCAPE TO BE PROVIDED BY DESIGN BUILD CONTRCTOR, PROVIDE SHOP DRAWINGS TO ARCHITECT PRIOR TO INSTALLATION.
4. PROJECT SCOPE IS LIMITED TO AREA IDENTIFIED IN SITE PLAN.
5. ALL EXISTING DIFFUSERS, VENTS AND HEATING UNITS AND METAL COVERS TO REMAIN SHALL BE PROTECTED DURING DEMOLITION.
6. EXISTING IRRIGATION SYSTEM TO BE PROTECTED DURING CONSTRUCTION. ANY DAMAGES TO IRRIGATION SYSTEM TO BE REPAIRED TO ITS ORIGINAL CONDITION.
7.



1 SITE PLAN
A001 1/8" = 1'-0"

Architecture and Interiors

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BID SET

ISSUE / REVISION

Mark	Date	Description

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SITE PLAN

A001

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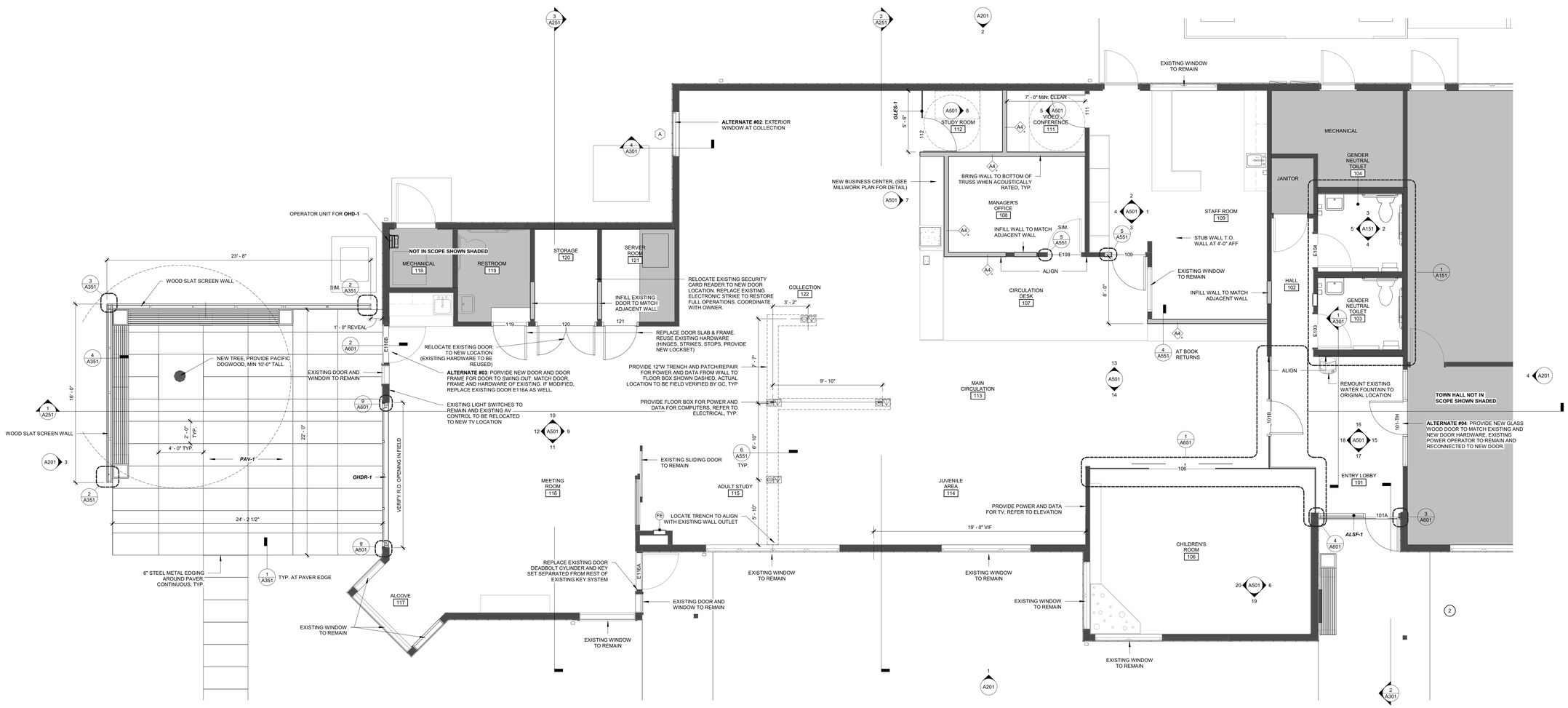
Attachment B

GENERAL NOTES

1. REFER TO PROJECT MANUAL FOR INFORMATION ON MATERIAL AND FINISH TAGS IN DRAWINGS.
2. REFER TO EXTERIOR ELEVATIONS FOR NEW EXTERIOR WINDOW TYPES AND DIMENSIONS, AND INTERIOR ELEVATIONS FOR INTERIOR WINDOW AND GLAZING TYPES.
3. PROVIDE PROPER BLOCKING FOR WALL MOUNTED FIXTURES SUCH AS FURNITURE, MILLWORK, AV EQUIPMENT AND TOILET ACCESSORIES. REFER TO INTERIOR ELEVATIONS FOR MOUNTING HEIGHT.
4. ALL DIMENSIONS TO FACE OF WALL FINISH TIED TO CENTERLINE OF STRUCTURE GRID, UNLESS NOTED OTHERWISE, SEE PLAN FOR SPECIFIC LOCATIONS.
5. ALL WALLS TAGED WITH 'a' WILL HAVE ACOUSTIC INSULATION AND WILL GO TO BOTTOM OF TRUSS. SEE PLAN FOR LOCATION OF ACOUTICALLY RATED WALL AND REFER TO WALL TYPES DRAWING FOR MORE INFORMATION ON ACOUSTICALLY RATED PARTITIONS.
6. ALL DRYWALLS SHALL RECEIVE LEVEL 5 FINISH, U.N.O.
7. CONTRACTOR TO PROVIDE POWER AND DATA FOR OWNER PROVIDED AV EQUIPMENT (TV, SPEAKERS)
8. REFER TO MILLWOK DRAWINGS FOR ALL CASEWORK, ELEMENTS IDENTIFIED AS CASEWORK IN DRAWINGS ARE PART OF PROJECT SCOPE.
9. FURNITURE DRAWING IS FOR REFERENCE ONLY FOR COORDINATION WITH OTHER TRADES. FURNITURE WILL BE FURNISHED BY OWNER.
10. "ORIGINAL" BUILDING REFERS TO THE PORTION OF THE BUILDING CONSTRUCTED IN 1989. "ADDITION" REFERS TO THE PORTION OF THE BUILDING CONSTRUCTED IN 2008.
11. NOTIFY ARCHITECT IMMEDIATELY IF FIELD CONDITIONS ARE DIFFERENT THAN SHOWN ON PLANS



1 LEVEL 1 FLOOR PLAN
A101 1/4" = 1'-0"

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Signature MATTHEW SCOTT KRUNTORAD

Print Name Matthew Kruntorad

Date 04/27/2024 **License No** 20122574

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ISSUE / REVISION

Mark	Date	Description

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LEVEL ONE

A101

Attachment B

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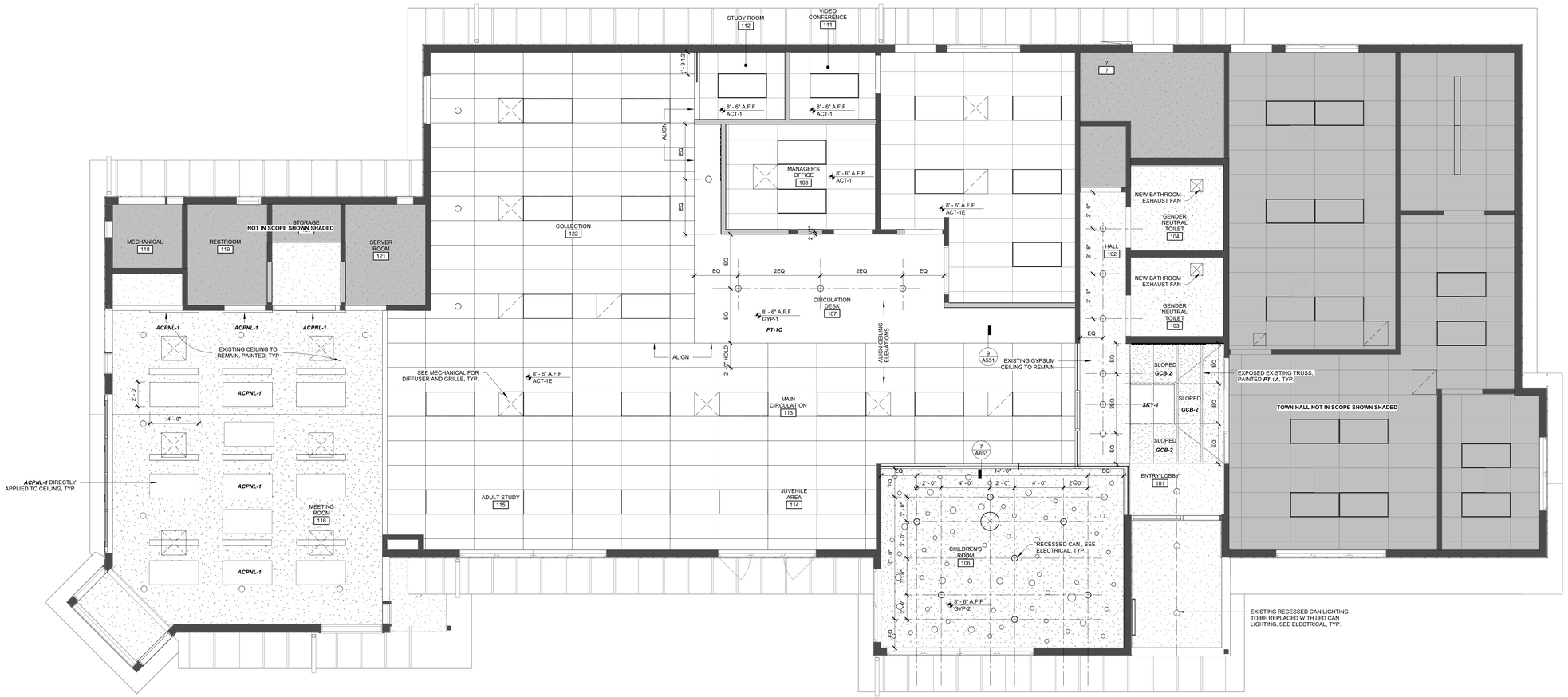
4. ALL DIMENSIONS TO FACE OF WALL FINISH TIED TO CENTERLINE OF STRUCTURE GRID, UNLESS NOTED OTHERWISE, SEE PLAN FOR SPECIFIC LOCATIONS.
5. ALL WALLS TAGED WITH 'a' WILL HAVE ACOUSTIC INSULATION AND WILL GO TO BOTTOM OF TRUSS. SEE PLAN FOR LOCATION OF ACOUTICALLY RATED WALL AND REFER TO WALL TYPES DRAWING FOR MORE INFORMATION ON ACOUSTICALLY RATED PARTITIONS.
6. ALL DRYWALLS SHALL RECEIVE LEVEL 5 FINISH, U.N.O.
7. CONTRACTOR TO PROVIDE POWER AND DATA FOR OWNER PROVIDED AV EQUIPMENT (TV, SPEAKERS)
8. REFER TO MILLWOK DRAWINGS FOR ALL CASEWORK, ELEMENTS IDENTIFIED AS CASEWORK IN DRAWINGS ARE PART OF PROJECT SCOPE.
9. FURNITURE DRAWING IS FOR REFERENCE ONLY FOR COORDINATION WITH OTHER TRADES. FURNITURE WILL BE FURNISHED BY OWNER.
10. "ORIGINAL" BUILDING REFERS TO THE PORTION OF THE BUILDING CONSTRUCTED IN 1989. "ADDITION" REFERS TO THE PORTION OF THE BUILDING CONSTRUCTED IN 2008.
11. NOTIFY ARCHITECT IMMEDIATELY IF FIELD CONDITIONS ARE DIFFERENT THAN SHOWN ON PLANS



1 LEVEL 1 REFLECTED CEILING PLAN
A121 1/4" = 1'-0"

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MATTHEW SCOTT KRUNTORAD
STATE OF WASHINGTON

Signature
Print Name Matthew Kruntorad
Date 04/27/2024 **License No** 20122574

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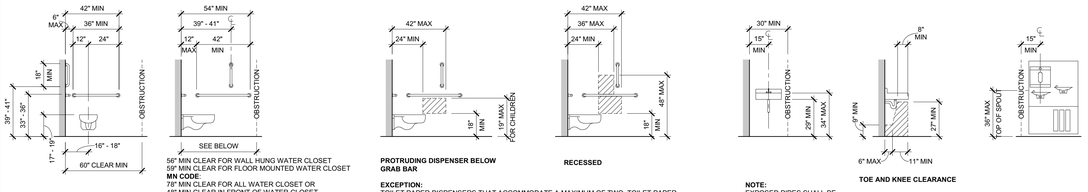
LEVEL ONE
REFLECTED CEILING
PLAN

A121



56" MIN CLEAR FOR WALL HUNG WATER CLOSET
59" MIN CLEAR FOR FLOOR MOUNTED WATER CLOSET
MN CODE:
78" MIN CLEAR FOR ALL WATER CLOSET OR
48" MIN CLEAR IN FRONT OF WATER CLOSET

PROTRUDING DISPENSER BELOW GRAB BAR

RECESSED

EXCEPTION:
TOILET PAPER DISPENSERS THAT ACCOMMODATE A MAXIMUM OF TWO TOILET PAPER ROLLS OF NOT MORE THAN 5" DIAMETER EACH SHALL BE INSTALLED BENEATH HORIZONTAL GRAB BAR AND 7" - 9" BEYOND THE FRONT EDGE OF WATER CLOSET MEASURED FROM THE CENTERLINE OF THE DISPENSER. THE OUTLET OF THE DISPENSER SHALL BE 15" MIN AND 48" MAX ABOVE THE FLOOR

NOTE:
EXPOSED PIPES SHALL BE INSULATED OR CONFIGURED TO PROTECT AGAINST CONTACT

TOE AND KNEE CLEARANCE

SPECIFICATIONS FOR WATER CLOSET SERVING CHILDREN

	AGES 3-4	AGES 5-6	AGES 7-12
WATER CLOSET CENTERLINE	12"	12" - 15"	15" - 18"
WATER CLOSET SEAT HEIGHT	11" - 12"	12" - 15"	15" - 17"
GRAB BAR HEIGHT	18" - 20"	20" - 25"	25" - 27"
TOILET TISSUE DISPENSER HEIGHT	4"	14" - 17"	17" - 19"

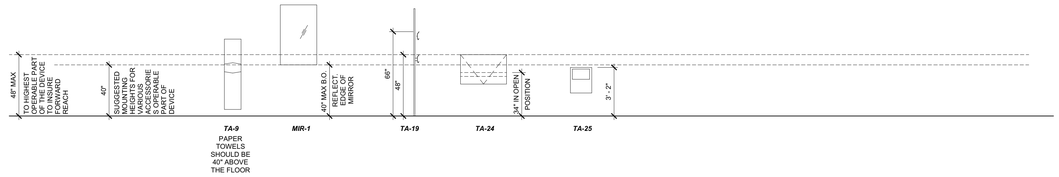
*59" CLEAR FOR WALL AND FLOOR MOUNTED WATER CLOSET

WATER CLOSETS AND GRAB BARS

DISPENSERS

SINK / LAVATORIES

DRINKING FOUNTAIN



MISCELLANEOUS TOILET ACCESSORIES MOUNTING HEIGHTS

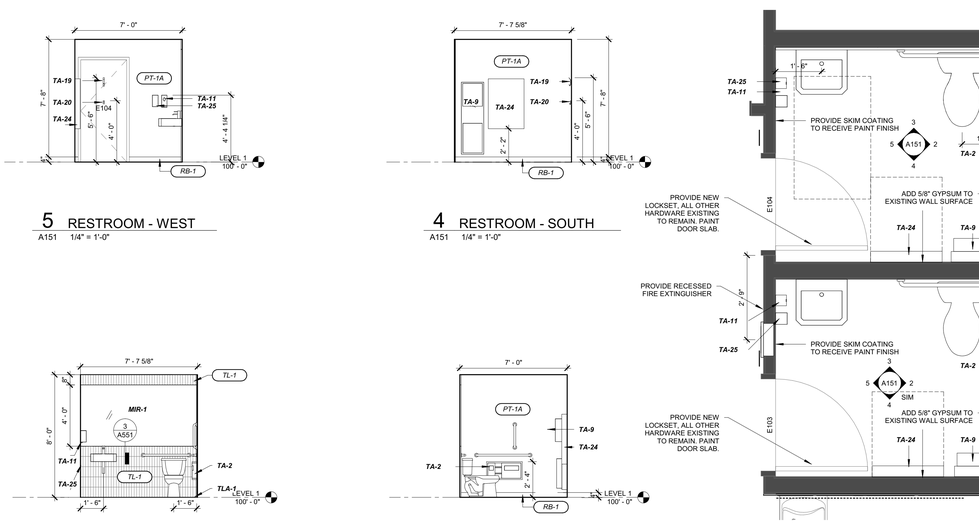
SOME ACCESSORIES MAY NOT BE USED ON THIS PROJECTS. SEE PLANS FOR SPECIFIC TYPES USED.

TA-2	COMBINATION TOILET TISSUE DISPENSER	*TA-11*	LIQUID-SOAP DISPENSER	*TA-19*	HOOK	*TA-25*	SHARPS DISPOSAL
TA-9	COMBINATION TOWEL (ROLL) DISPENSER / WASTE RECEPTACLE	*TA-12*	GRAB BAR	*TA-24*	DIAPER-CHANGING STATION		

FIXTURE AND ACCESSORY MOUNTING HEIGHTS

5 RESTROOM - WEST
A151 1/4" = 1'-0"

4 RESTROOM - SOUTH
A151 1/4" = 1'-0"



1 COMMON RESTROOMS
A151 1/2" = 1'-0"

3 RESTROOM - NORTH
A151 1/4" = 1'-0"

2 RESTROOM - EAST
A151 1/4" = 1'-0"

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TOILET ROOM PLANS AND ELEVATIONS

A151

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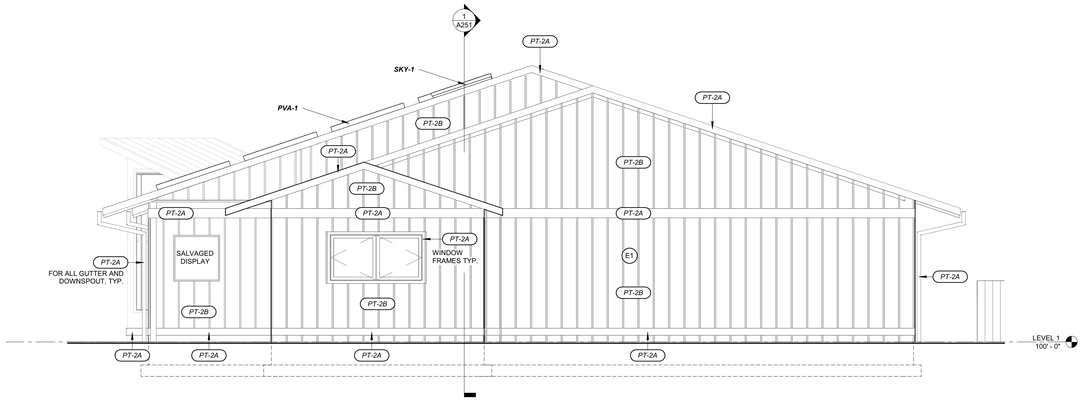
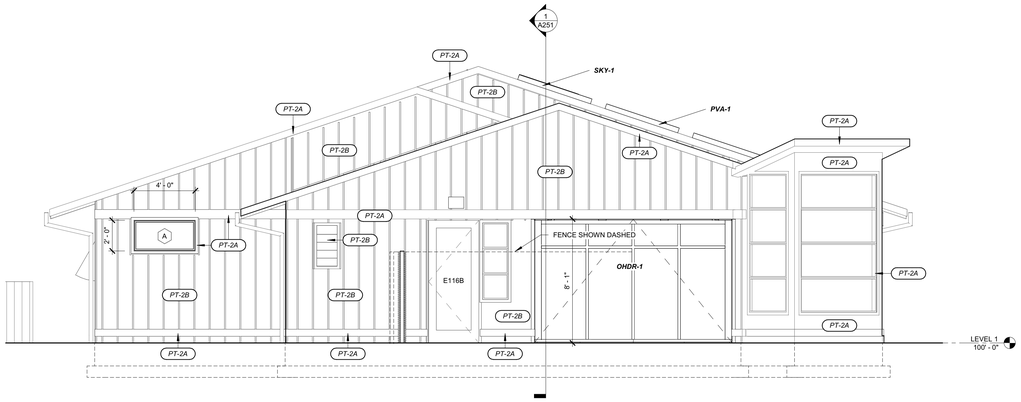
GENERAL NOTES - ELEVATIONS

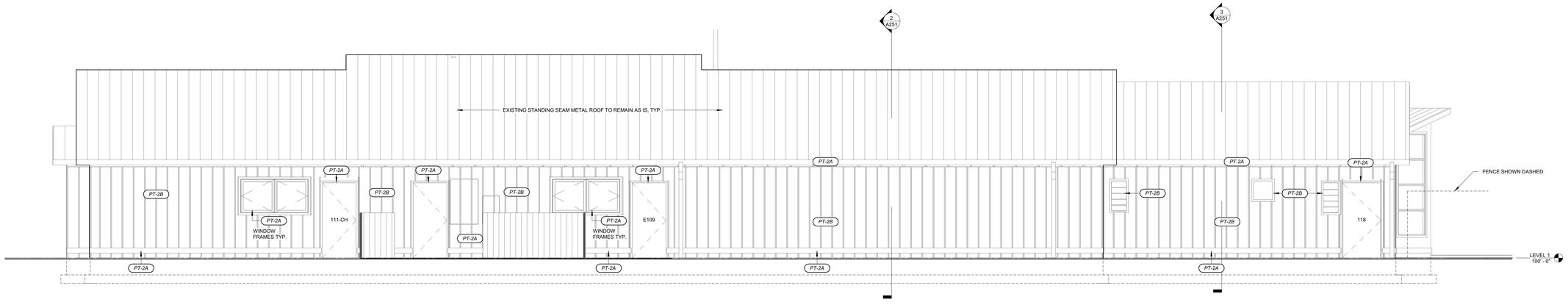
1. FIELD VERIFY EXISTING CONDITIONS. NOTIFY ARCHITECT IMMEDIATELY IF A CONDITION EXISTS THAT WILL PREVENT THE WORK FROM BEING COMPLETED AS SHOWN.
2. SEE TYPES SHEET, MATERIAL ID LIST, AND SPECIFICATION FOR PRODUCT LISTINGS. REVIEW WITH ARCHITECT ANY ITEMS NOT NOTED.
3. CONTRACTOR TO UNDERSTAND SCOPE OF NEW WORK ACROSS ALL SHEET DISCIPLINES - NOTIFY ARCHITECT OF ANY INSTANCES WHERE DISCREPANCIES EXIST BETWEEN DISCIPLINES REGARDING THE SAME WORK
4. PAINT ALL EXTERIOR SIDING, TRIM, SOFFITS AND CEILING AREAS, SUPPORT COLUMNS, GUTTERS & DOWNSPOUTS.
5. REPAIR ALL LOOSE OR DAMAGED SIDING BEFORE PAINTING



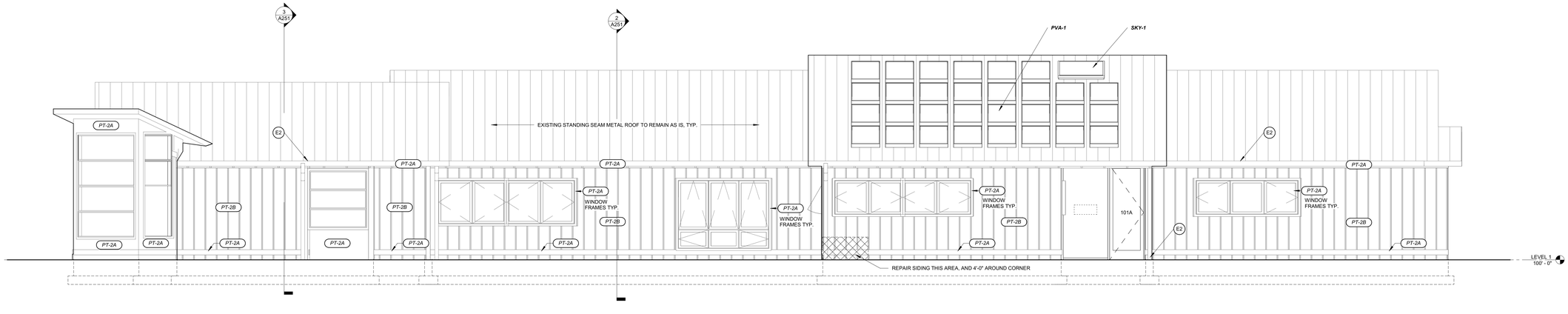
4 BUILDING EAST ELEVATION
A201 1/4" = 1'-0"



3 BUILDING WEST ELEVATION
A201 1/4" = 1'-0"



2 BUILDING NORTH ELEVATION
A201 1/4" = 1'-0"



1 BUILDING SOUTH ELEVATION
A201 1/4" = 1'-0"

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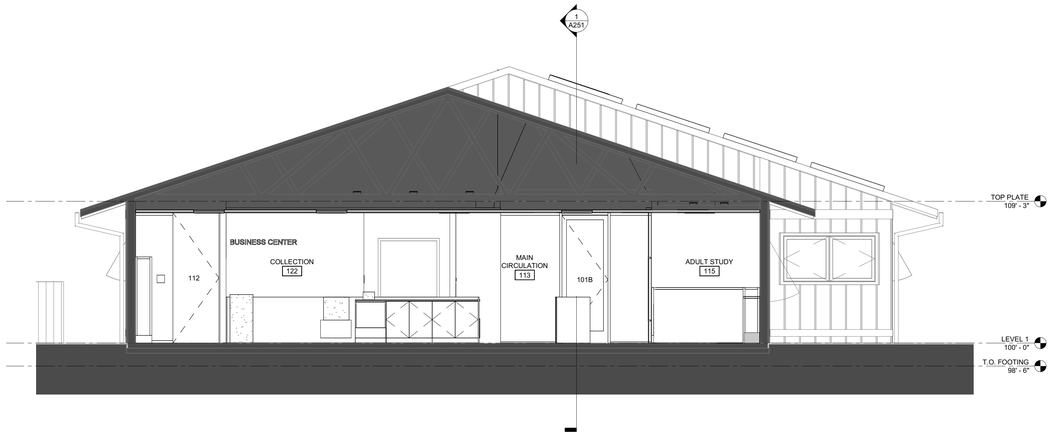
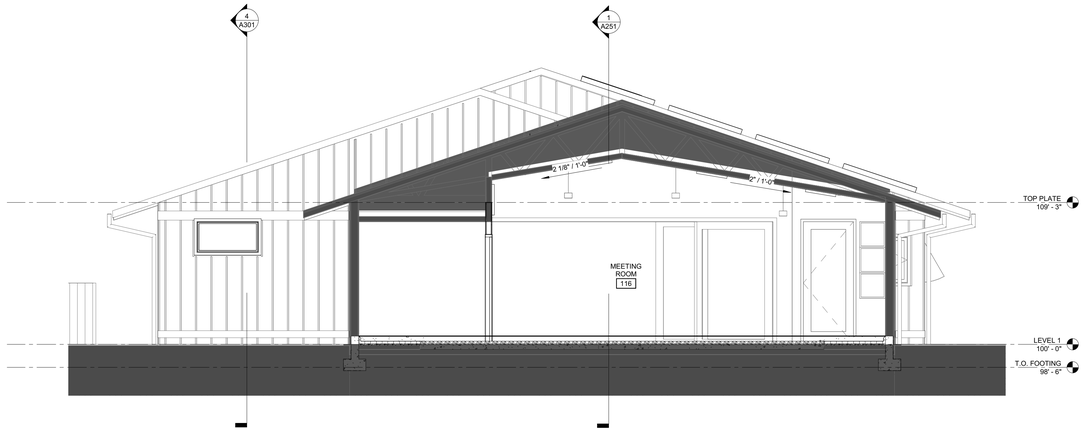
BUILDING ELEVATIONS

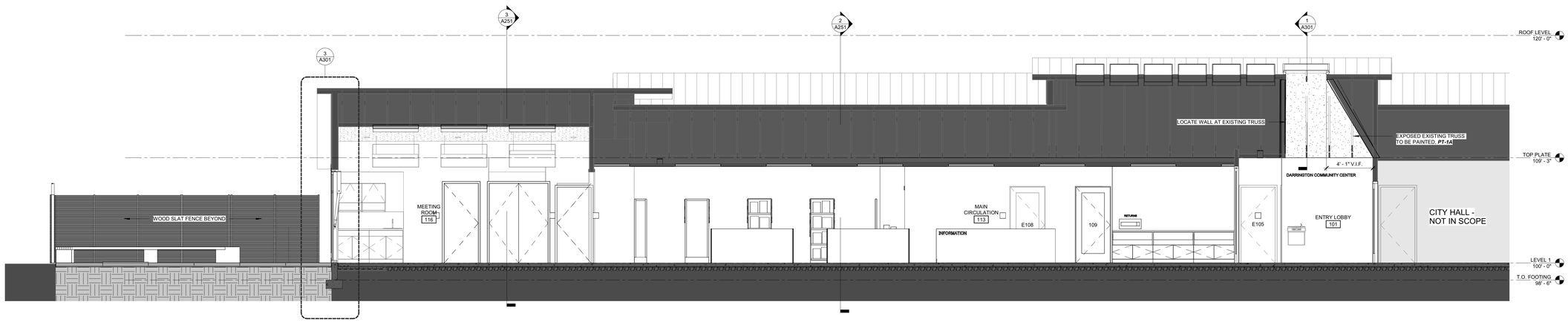
A201



2 CROSS SECTION - MAIN LIBRARY
A251 1/4" = 1'-0"



3 CROSS SECTION - MEETING ROOM
A251 1/4" = 1'-0"



1 BUILDING SECTION
A251 1/4" = 1'-0"

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BUILDING SECTIONS

A251

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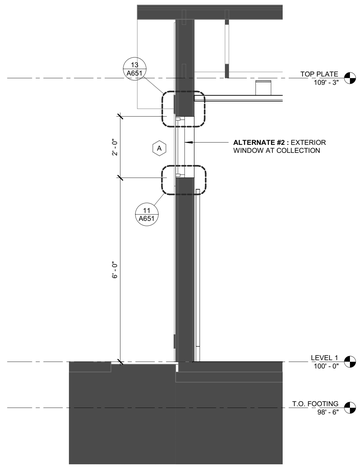
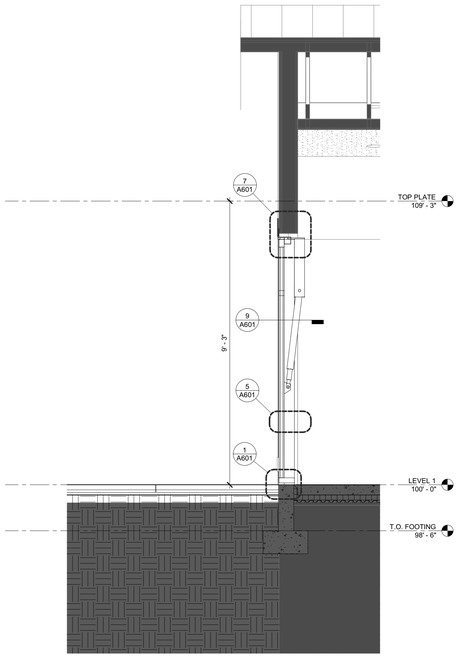
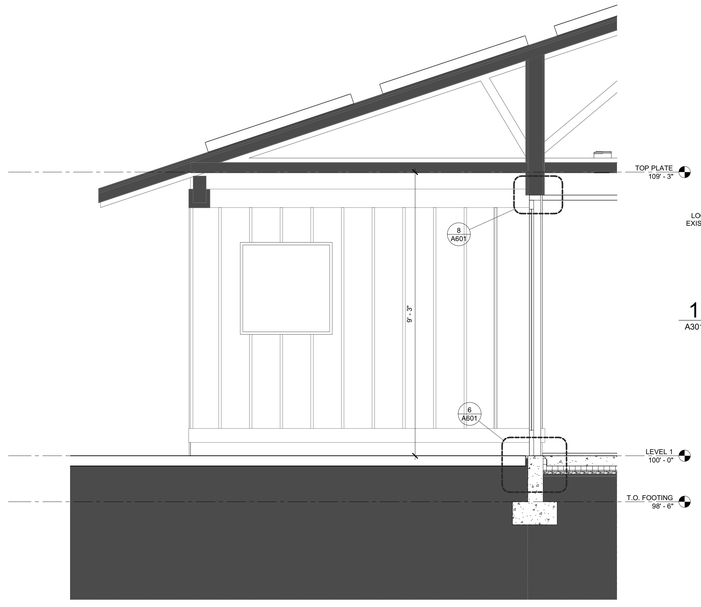


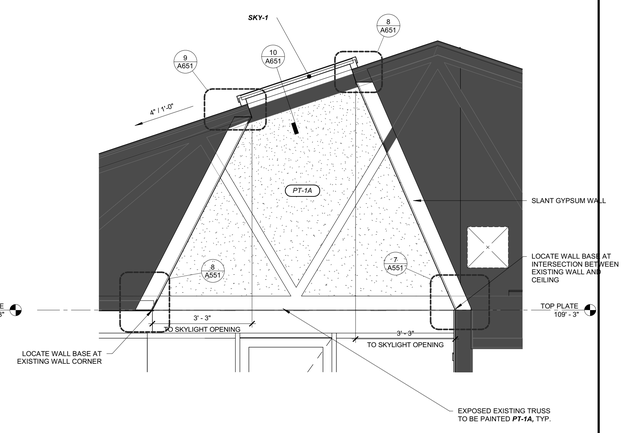
4 HIGH WINDOW SECTION
A301 1/2" = 1'-0"



3 OVERHEAD DOOR SECTION
A301 1/2" = 1'-0"



2 ENTRYWAY SECTION
A301 1/2" = 1'-0"



1 SKYLIGHT SECTION
A301 1/2" = 1'-0"

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WALL SECTIONS

A301

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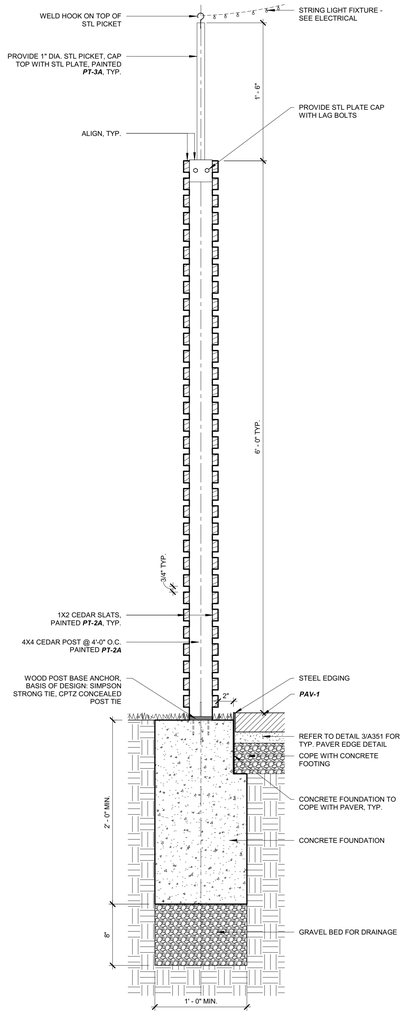
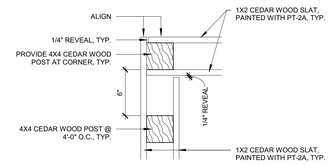
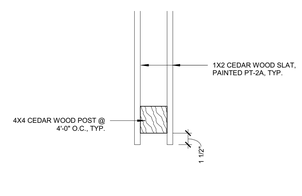


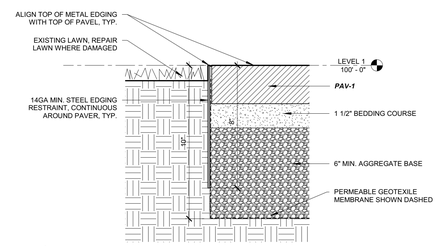
4 TYPICAL FENCE SECTION DETAIL
A351 1 1/2" = 1'-0"



3 FENCE CORNER PLAN DETAIL
A351 1 1/2" = 1'-0"



2 FENCE PLAN DETAIL
A351 1 1/2" = 1'-0"



1 PAVER EDGE DETAIL
A351 3" = 1'-0"

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EXTERIOR DETAILS

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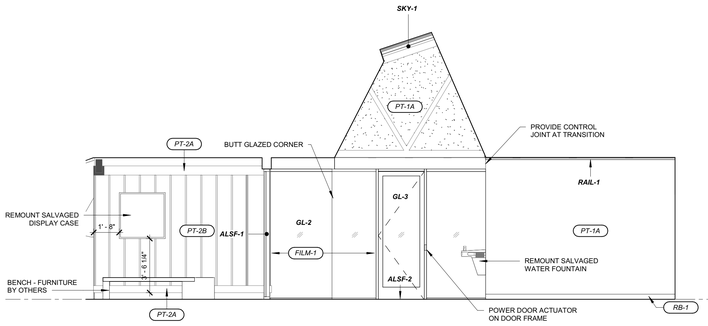
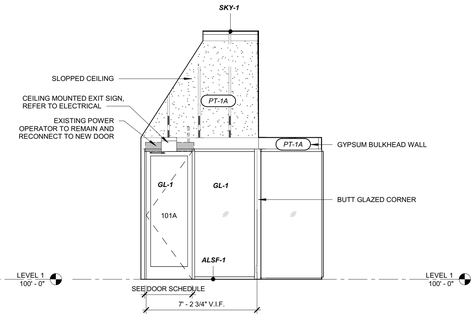
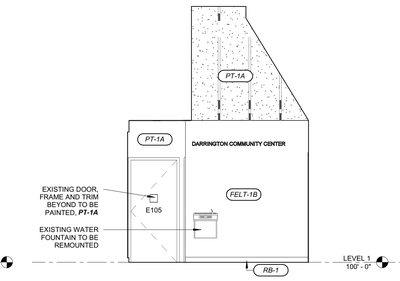


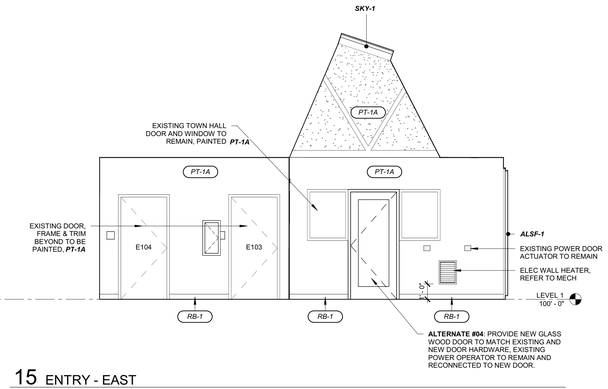
18 ENTRY - WEST
A501 1/4" = 1'-0"



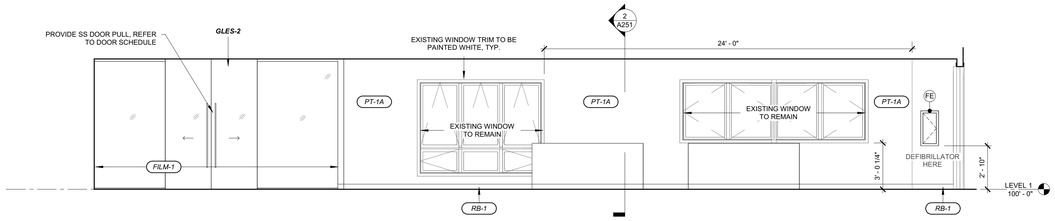
17 ENTRY - SOUTH
A501 1/4" = 1'-0"



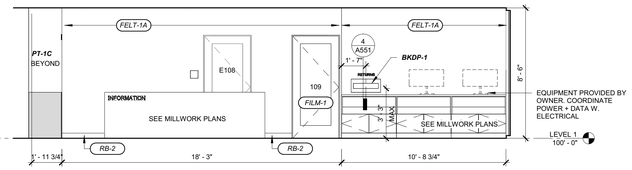
16 ENTRY - NORTH
A501 1/4" = 1'-0"



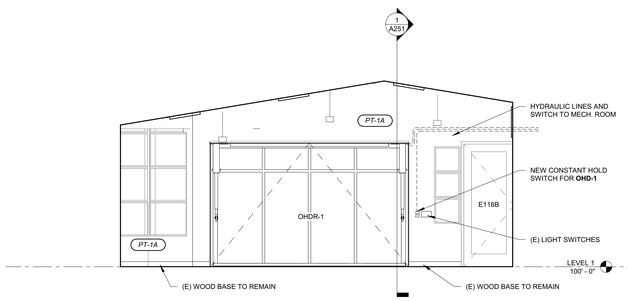
15 ENTRY - EAST
A501 1/4" = 1'-0"



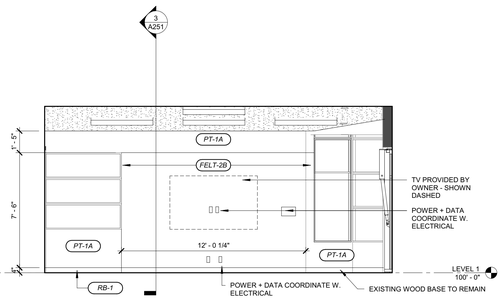
14 MAIN CIRCULATION - SOUTH
A501 1/4" = 1'-0"



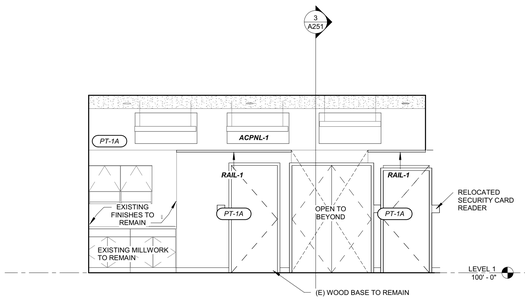
13 MAIN CIRCULATION - NORTH
A501 1/4" = 1'-0"



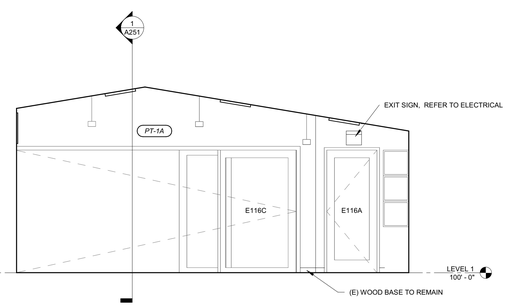
12 MEETING ROOM - WEST
A501 1/4" = 1'-0"



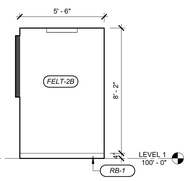
11 MEETING ROOM SOUTH
A501 1/4" = 1'-0"



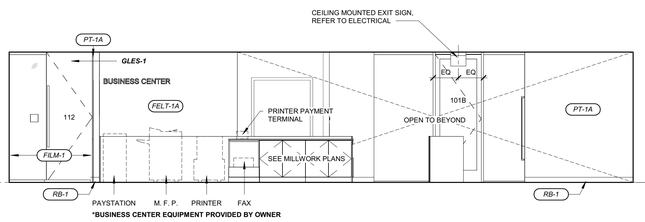
10 MEETING ROOM - NORTH
A501 1/4" = 1'-0"



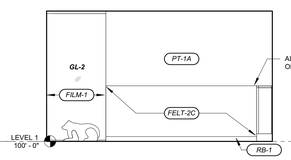
9 MEETING ROOM- EAST
A501 1/4" = 1'-0"



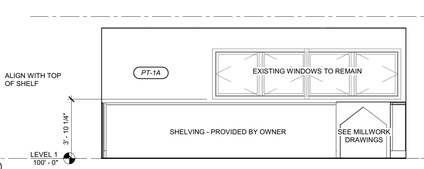
8 STUDY ROOM - EAST
A501 1/4" = 1'-0"



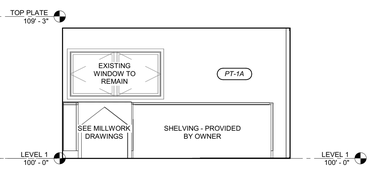
7 BUSINESS CENTER - EAST
A501 1/4" = 1'-0"



6 CHILDREN'S ROOM - EAST
A501 1/4" = 1'-0"



19 CHILDREN'S ROOM - SOUTH
A501 1/4" = 1'-0"



20 CHILDREN'S ROOM - WEST
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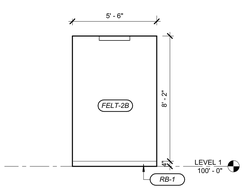

5 BREAK ROOM - WEST
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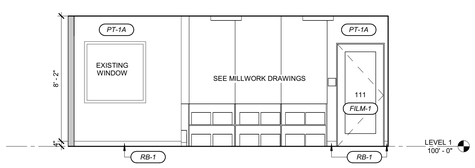
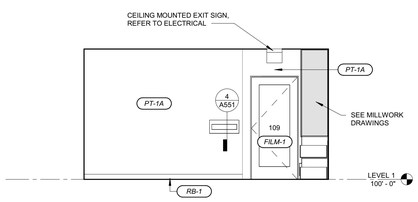
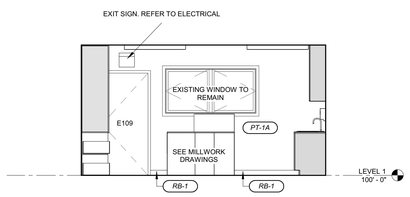


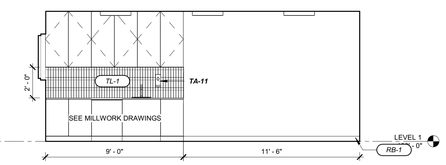
4 STAFF AREA - WEST
A501 1/4" = 1'-0"



3 STAFF AREA - SOUTH
A501 1/4" = 1'-0"



2 STAFF AREA - NORTH
A501 1/4" = 1'-0"



1 STAFF AREA - EAST
A501 1/4" = 1'-0"

Attachment B

Architecture and Interiors

MSRDesign
510 Marquette Avenue South, Suite 200
Minneapolis, MN 55402 | 612.375.0336

Structure

Swenson Say Fagét Engineers
2124 Third Avenue, Suite 100
Seattle, Washington 98121 | (206) 443-6212

Mechanical, Electrical & Plumbing

Harris Group
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Architect Seal

20122574
REGISTERED ARCHITECT
MATTHEW SCOTT KRUNTORAD
STATE OF WASHINGTON

Signature

Print Name Matthew Kruntorad

Date 04/27/2024 **License No** 20122574

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Mark	Date	Description

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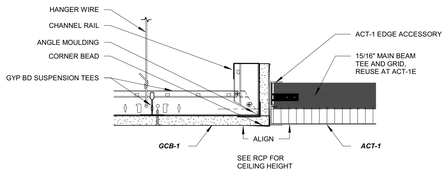
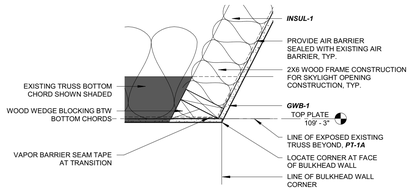
INTERIOR ELEVATIONS

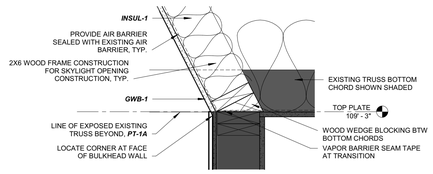
A501



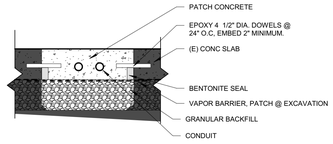
9 ACT TO GYP
A551 3" = 1'-0"



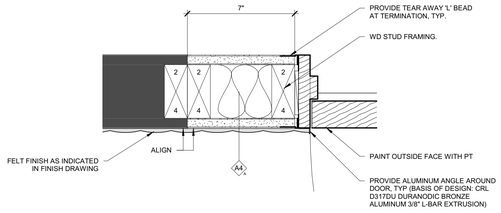
8 DETAIL AT SKYLIGHT OPENING
A551 1 1/2" = 1'-0"



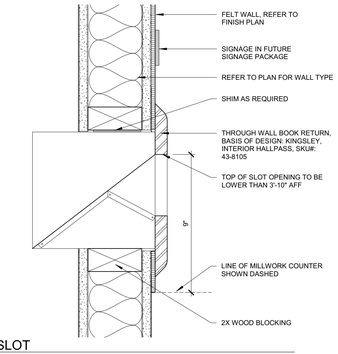
7 DETAIL AT SKYLIGHT OPENING, RESTROOM
A551 1 1/2" = 1'-0"



6 TRENCH DETAIL
A551 1 1/2" = 1'-0"



5 DOOR JAMB PLAN MODIFICATION DETAIL
A551 3" = 1'-0"



4 RETURNS SLOT
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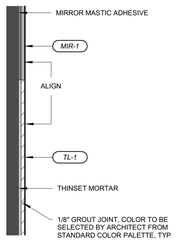
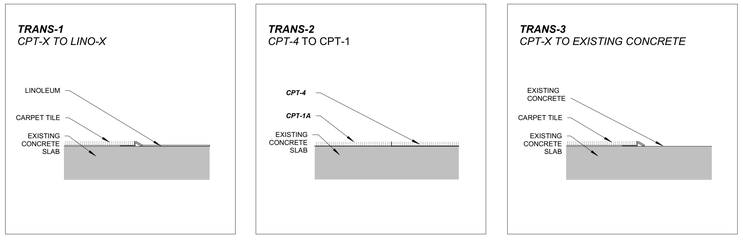
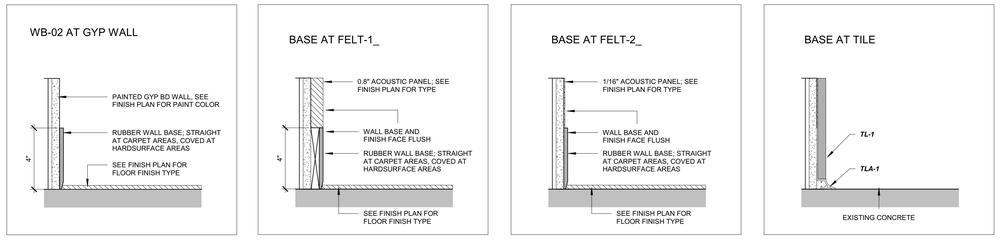


3 MIRROR TO TILE TRANSITION
A551 3" = 1'-0"



2 FLOOR FINISH TRANSITIONS
A551 3" = 1'-0"



1 WALL BASE TRANSITIONS
A551 3" = 1'-0"

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Attachment B

Architecture and Interiors

MSRDesign

510 Marquette Avenue South, Suite 200
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Mechanical, Electrical & Plumbing

Harris Group

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Lynnwood, WA 98036 | 425-774-3829

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I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Architect under the Laws of the State of Minnesota.

Architect Seal

20122574
REGISTERED ARCHITECT
MATTHEW SCOTT KRUNTORAD
STATE OF WASHINGTON

Signature
Print Name Matthew Kruntorad
Date 04/27/2024 **License No** 20122574

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ISSUE / REVISION

Mark	Date	Description

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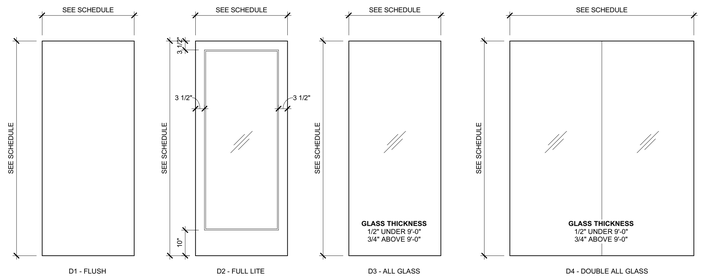
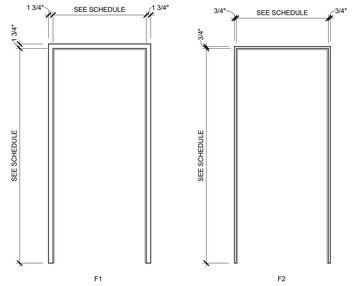
INTERIOR DETAILS

A551



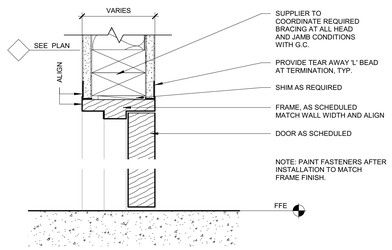
DOOR TYPES



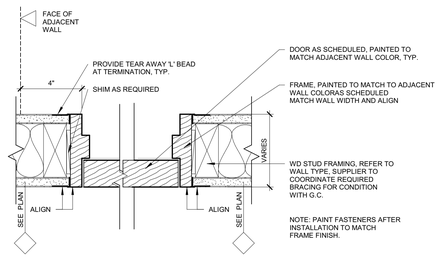
FRAME TYPES

DOOR SCHEDULE

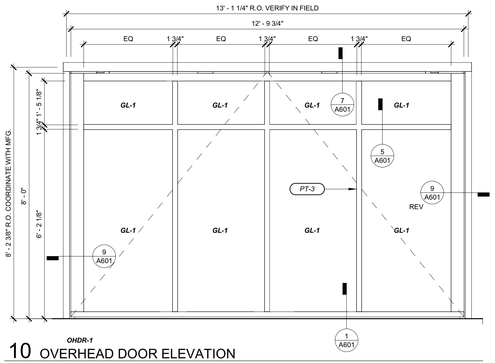
DOOR NO	DOOR WIDTH	DOOR HEIGHT	DOOR THICKNESS	DOOR TYPE	DOOR MAT'L	FRAME HEAD	FRAME SILL	FRAME JAMB	FRAME TYPE	FRAME MAT'L	FIRE	HDWR	COMMENTS
101-TH	3' - 0"	7' - 0"	1 3/4"	D2	WD/GL	EXIST	EXIST	EXIST	EXIST	EXIST		11.0	ALTERNATE #4
101A	3' - 0"	8' - 4"	1 3/4"	D2	AL/GL	8/A601	2/A601	3&4/A601	F1	AL		1.0	COORDINATE WITH STOREFRONT
101B	3' - 0"	8' - 4 1/2"	1 3/4"	D2	AL/GL	6/A651	-	6/A651	F1	AL		2.0	ACTUATORS RECESSED IN MULLIONS
106	6' - 0"	8' - 6"	1/2"	D4	GL	7/A651	-	-	-	-		4.0	SLIDING DOOR. COORDINATE WITH GLASS PARTITION
109	3' - 0"	6' - 8"	1 3/4"	D2	WD/GL	5/A551 SIM	12/A601	5/A551	F2	WD		5.0	
111	3' - 0"	6' - 8"	1 3/4"	D2	WD/GL	12/A601	12/A601	11/A601	F2	WD		6.0	
112	3' - 0"	8' - 6"	1/2"	D3	GL			-	-	-		7.0	COORDINATE WITH GLASS PARTITION SUPPLIER. REFER TO 13/A601.
119	3' - 0"	7' - 0"	1 3/4"	D1	WD	12/A601	12/A601	11/A601	F1	WD		12.0	REPLACE HARDWARE AND DOOR SLAB, REUSE EXISTING STOPS, STRIKES, HINGES, ETC. WHERE POSSIBLE
120	5' - 2"	7' - 0"	1 3/4"	D11	WD	12/A601	12/A601	11/A601	F1	WD		EXISTING	SALVAGED EXISTING DOOR
121	3' - 0"	6' - 8"	1 3/4"	D1	WD	12/A601	12/A601	11/A601	F1	WD		12.0	REPLACE HARDWARE AND DOOR SLAB, REUSE EXISTING STOPS, STRIKES, HINGES, ETC. WHERE POSSIBLE
E103	3' - 0"	6' - 8"	1 3/4"	D1	WD	-	-	-	EXIST	WD		10.0	REPLACE HARDWARE ONLY
E104	3' - 0"	6' - 8"	1 3/4"	D1	WD	-	-	-	EXIST	WD		10.0	REPLACE HARDWARE ONLY
E108	3' - 0"	6' - 8"	1 3/4"	EXIST	WD/GL	5/A551 SIM	4/A601	5/A551	EXIST	WD		-	REMOVE TRIM. FRAME E DETAIL 3/A601.
E116A	3' - 3 1/4"	8' - 0"	1 3/4"	EXIST	WD/GL	-	-	-	EXIST	WD		3.0	REPLACE HARDWARE ONLY
OHDR-1	12' - 9 3/4"	8' - 0"	2"	-		7/A601	1/A601	9/A601				8.0	REFER TO MATERIAL ID LIST. HYDRAULICALLY OPERATED SINGLE SWING DOOR. VERIFY R.O. DIMENSIONS IN THE FIELD.



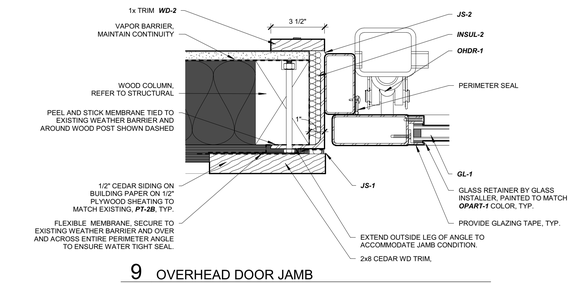
12 WD DOOR FRAME - HEAD & SILL DETAIL
A601 3" = 1'-0"



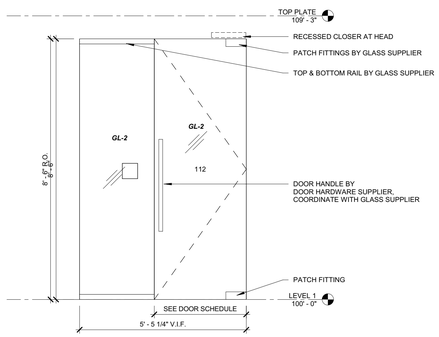
11 WD DOOR FRAME - JAMB DETAIL
A601 3" = 1'-0"



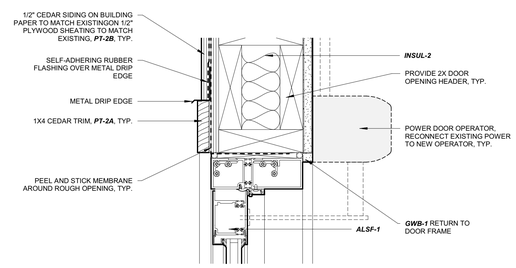
10 OVERHEAD DOOR ELEVATION
A601 1/2" = 1'-0"



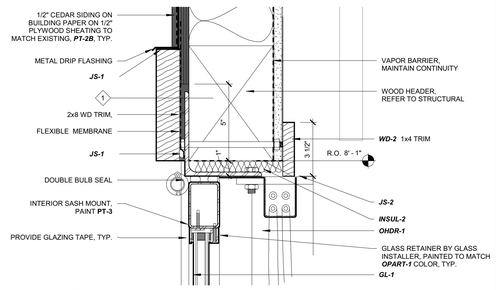
9 OVERHEAD DOOR JAMB
A601 3" = 1'-0"



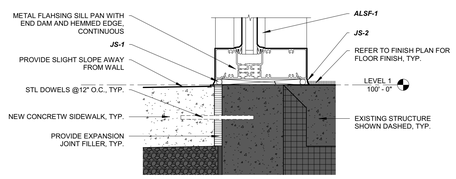
13 GLES-1 ELEVATION AT 112
A601 1/2" = 1'-0"



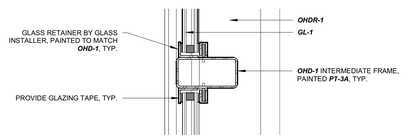
8 ALSF-1 HEAD / DOOR HEAD DETAIL
A601 3" = 1'-0"



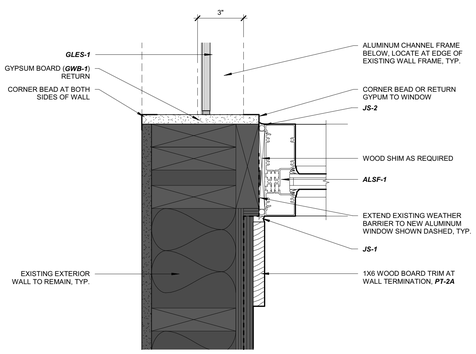
7 OVERHEAD DOOR HEAD DETAIL
A601 3" = 1'-0"



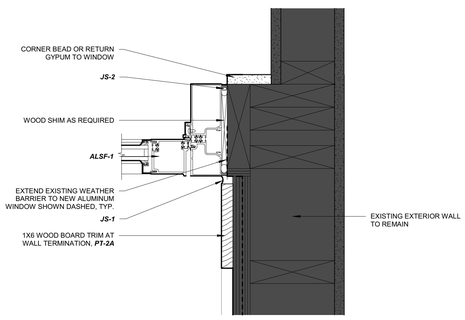
6 ALSF-1 SILL DETAIL
A601 3" = 1'-0"



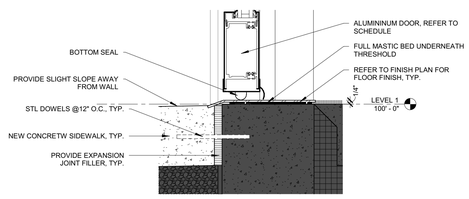
5 OVERHEAD DOOR HEAD, INTERMEDIATE
A601 3" = 1'-0"



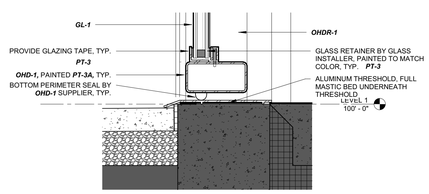
4 ALSF-1 JAMB DETAIL, WEST
A601 3" = 1'-0"



3 ALSF-1 JAMB DETAIL, EAST
A601 3" = 1'-0"



2 DOOR DETAIL SILL, TYP
A601 3" = 1'-0"



1 OVERHEAD DOOR SILL DETAIL
A601 3" = 1'-0"

Attachment B

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Seattle, Washington 98121 | (206) 443-6212

Mechanical, Electrical & Plumbing

Harris Group
20201 Cedar Valley Road, Ste 120,
Lynnwood, WA 98036 | 425-774-3829

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Project No: 2022008_DAR

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Architect Seal

20122574 REGISTERED ARCHITECT
MATTHEW SCOTT KRUNTORAD
STATE OF WASHINGTON

Signature
Print Name Matthew Kruntorad
Date 04/27/2024 **License No** 20122574

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DOOR SCHEDULE, TYPES AND DETAILS

A601

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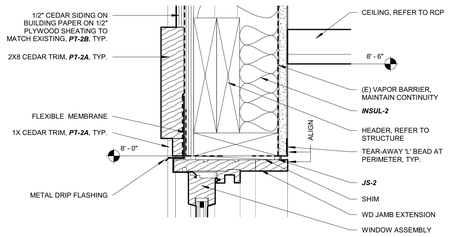
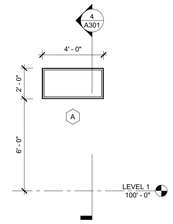
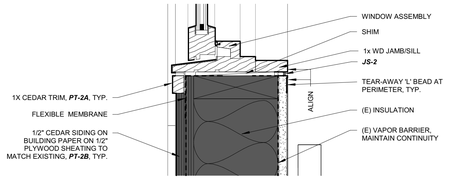


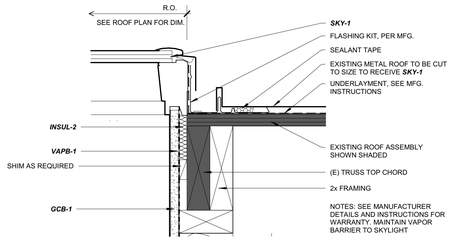
13 WINDOW HEAD DETAIL, HIGHER
A651 3" = 1'-0"



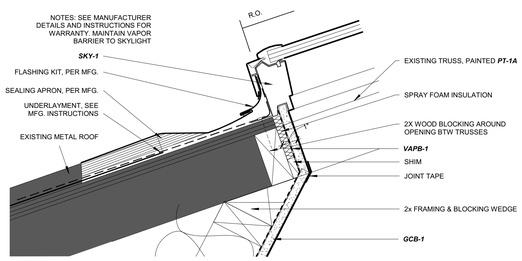
12 WINDOW TYPE A
A651 1/4" = 1'-0"



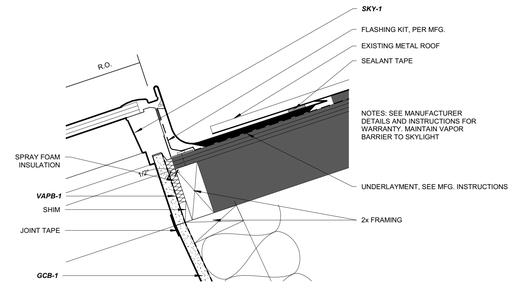
11 WINDOW SILL DETAIL
A651 3" = 1'-0"



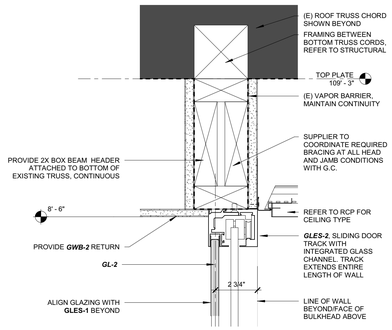
10 SKYLIGHT JAMB DETAIL
A651 3" = 1'-0"



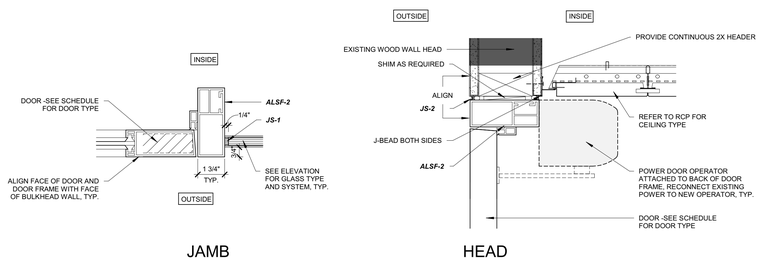
9 SKYLIGHT DETAIL, JAMB/SILL
A651 3" = 1'-0"



8 SKYLIGHT DETAIL, HEAD
A651 3" = 1'-0"

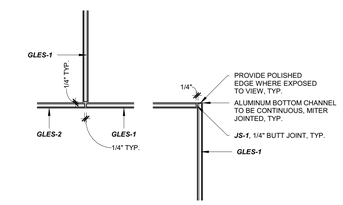


7 GLES-2 AT DOOR HEADER
A651 3" = 1'-0"

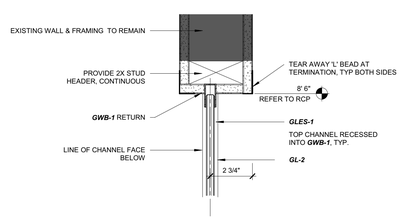


*SEE PLAN FOR DIRECTION OF DOOR SWING, TYP.

6 ALSF-2 - DOOR HEAD & JAMB DETAIL
A651 3" = 1'-0"

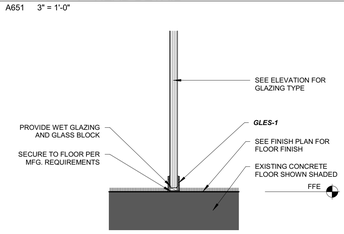


5 ALSF-2 - BUTT JOINT & CORNER DETAILS, TYP.
A651 1 1/2" = 1'-0"

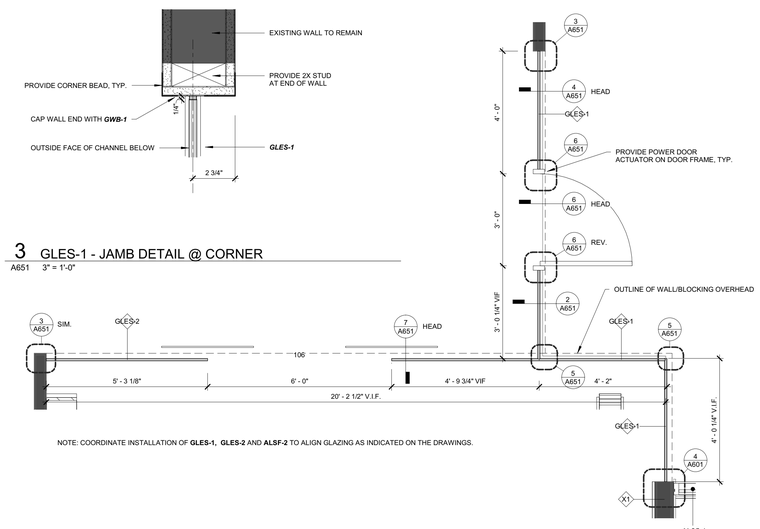


4 GLES-1 - HEAD DETAIL
A651 3" = 1'-0"

3 GLES-1 - JAMB DETAIL @ CORNER
A651 3" = 1'-0"



2 GLES-1 - SILL DETAIL
A651 3" = 1'-0"



NOTE: COORDINATE INSTALLATION OF **GLES-1**, **GLES-2** AND **ALSF-2** TO ALIGN GLAZING AS INDICATED ON THE DRAWINGS.

1 INTERIOR ALUMINUM FRAME GLAZING AT ENTRY
A651 1/2" = 1'-0"

Attachment B

Architecture and Interiors

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Structure

Swenson Say Fagét Engineers

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Architect Seal

20122574
REGISTERED ARCHITECT
MATTHEW SCOTT KRUNTORAD
STATE OF WASHINGTON

Signature MSK

Print Name Matthew Kruntorad

Date 04/27/2024 **License No** 20122574

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GLAZING TYPES AND DETAILS

A651

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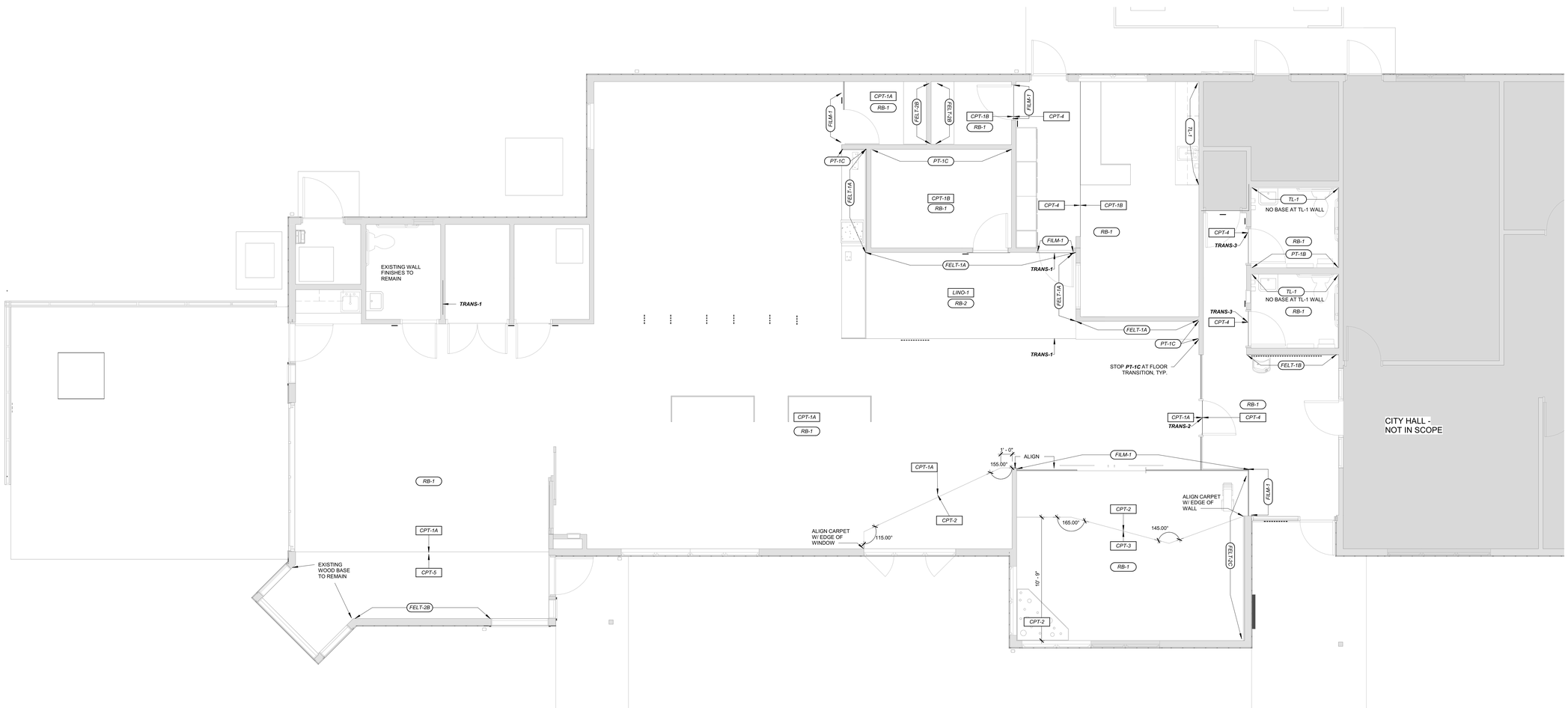
Attachment B

FINISH PLAN KEY

FLOOR FINISH	WALL FINISH	WINDOW TREATMENT
CPT-1.A	PT-1.A	SHADE-1
STYLE COLOR	STYLE / COLOR FINISH	STYLE

FINISH GENERAL NOTES

1. ALL WALLS TO BE PAINTED ***PT-1A*** U.N.O.
2. ALL WALL TILE ***TL-2*** TO BE FROM FLOOR TO CEILNG U.N.O
3. USE SCHLUTER-SCHIENE (OR EQUAL) SATIN ANODIZED ALUMINUM EDGE PROTECTION AT EXPOSED TILE LOCATIONS WITHIN RESTROOMS AND SCHLUTER-JOLLY (OR EQUAL) BRONZE ANODIZED ALUMINUM EDGE PROTECTION AT EXPOSED TILE AT ALL OTHER LOCATIONS, TYP.
4. ALL GWB CEILINGS TO BE PAINTED ***PT-1A*** U.N.O.
5. EXPOSED CEILING & MECHANICAL IN STAFF AREAS TO BE PAINTED ***PT-1A***.
6. ALL HOLLOW METAL DOORS AND DOOR FRAMES, HANDRAILS AND METAL GRILLES TO BE PAINTED ***PT-6A*** WITH CLEAR COAT FINISH U.N.O.
7. ALL EXPOSED STRUCTURAL STEEL TO BE PAINTED ***PT-6A***. NO CLEAR COAT FINISH REQUIRED ABOVE 7'-0" AFF.
8. ALL ELECTRICAL ROOMS, JANITOR'S CLOSETS AND MECHANICAL ROOMS TO BE PAINTED ***PT-2A*** U.N.O.
9. ALL WALLS TO RECIEVE ***RB-1*** U.N.O
10. FOR **RB-1** BASE, USE STRAIGHT BASE AT CARPETED AREAS AND COVED BASE AT HARD FLOORING SURFACES.
11. SEE INTERIOR ELEVATIONS FOR WALL TILE PATTERN BEHIND DRINKING FOUNTAINS.
12. INSTALLER RESPONSIBLE FOR FIELD VERIFYING ALL QUANTITIES, DIMENSIONS AND CONDITIONS FOR WINDOW TREATMENTS. ALL SHADES SHALL BE FULL WIDTH WITH NO SEAMS OR BATTENS. INSTALLER RESPONSIBLE FOR SUBMITTING SHOP DRAWINGS FOR APPROVAL.
13. ***SSF-1*** SOLID SURFACE TRANSITIONS TO BE USED AT ALL DOOR THRESHOLDS, TYP. APPLY LEVELING COMPOUND TO CREATE SMOOTH FLOOR TRANSITIONS BETWEEN ADJOINING MATERIALS AT 1/8" PER 1' - 0" SLOPE, TYP. USE METAL REDUCER STRIP AT TRANSITIONS TO CONCRETE, TYP.
14. CORNER GUARDS (SEE SPEC) INSTALLED AT ALL OUTSIDE CORNERS WITHIN STAFF AREAS, TYP.



1 LEVEL 1 FINISH PLAN
A701 1/4" = 1'-0"

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STATE OF WASHINGTON

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Print Name Matthew Kruntorad
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LEVEL ONE FINISH PLANS

A701

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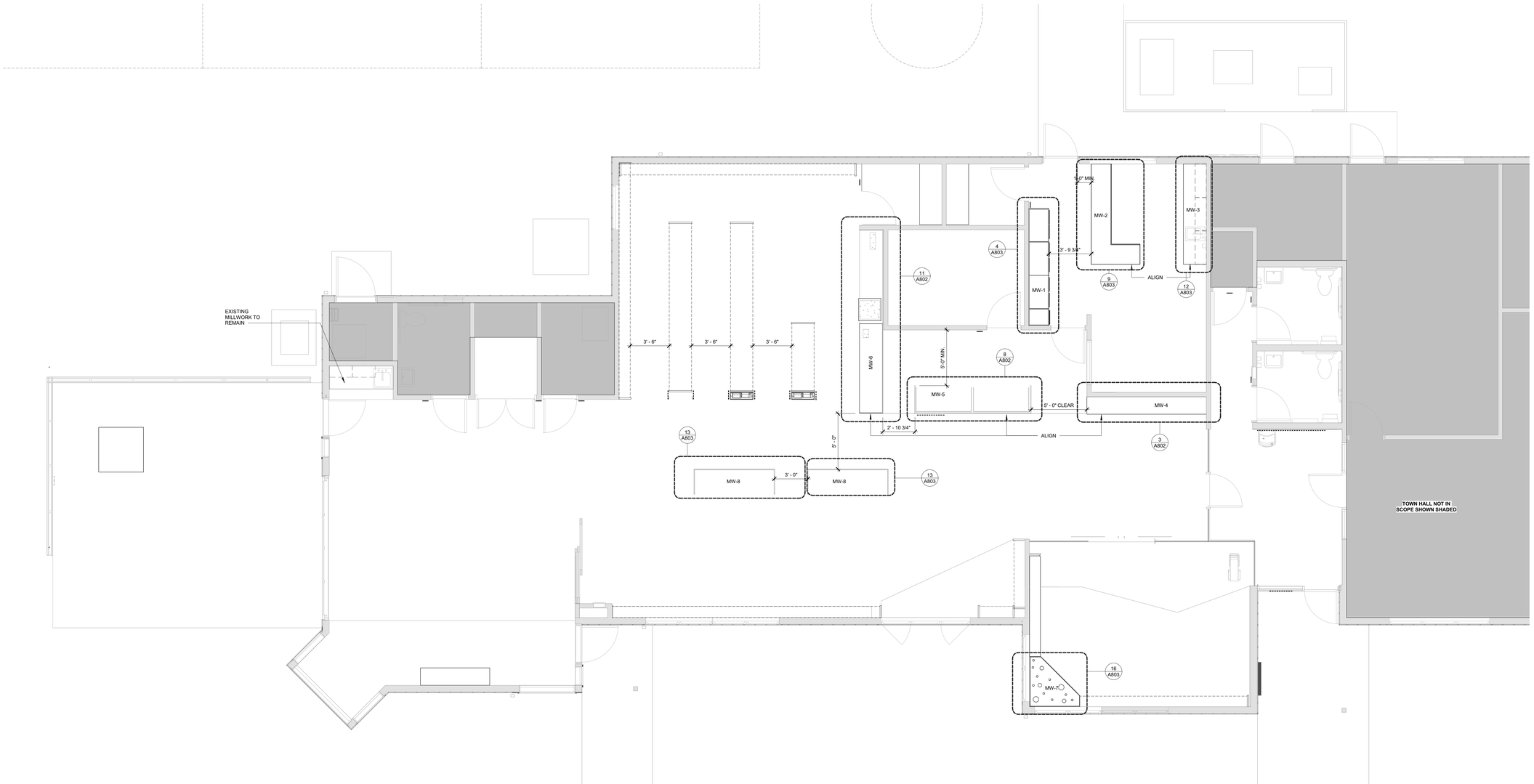

1 LEVEL 1 MILLWORK PLAN
A801 1/4" = 1'-0"

Attachment B

Architecture and Interiors

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Print Name Matthew Kruntorad
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MILLWORK PLAN

A801

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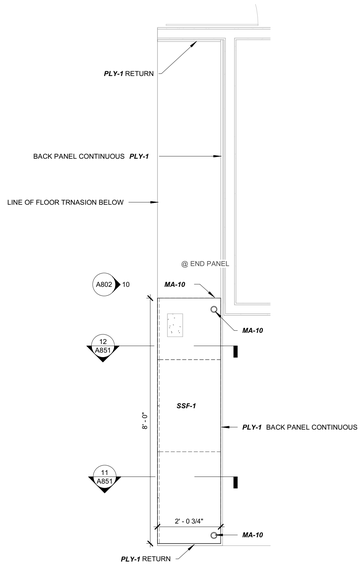
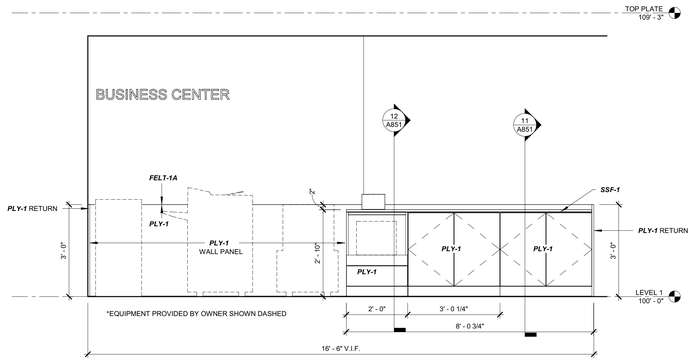
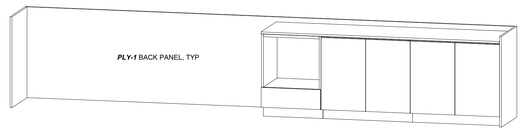


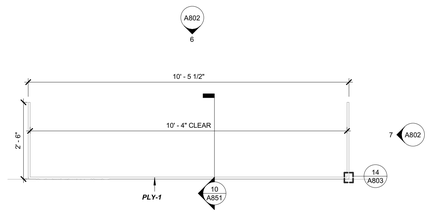
11 MW-6 MILLWORK PLAN
A802 1/2" = 1'-0"



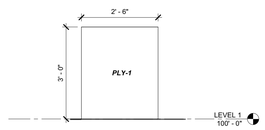
10 MW-6 FRONT ELEVATION - BUSINESS CENTER
A802 1/2" = 1'-0"



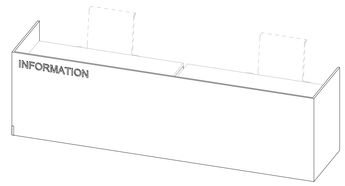
9 MW-6 AXON - BUSINESS CENTER
A802

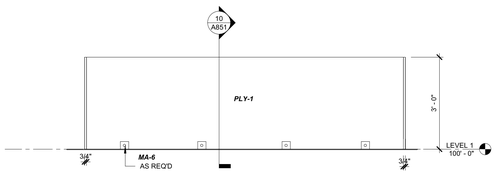


8 MW-5 PLAN VIEW
A802 1/2" = 1'-0"



7 MW-5 SIDE ELEVATION - CIRCULATION DESK
A802 1/2" = 1'-0"





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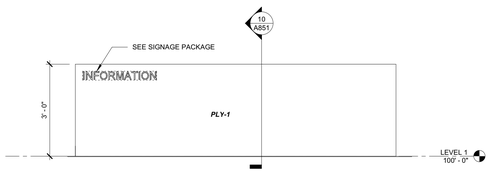

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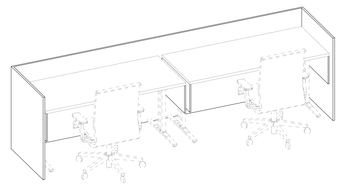
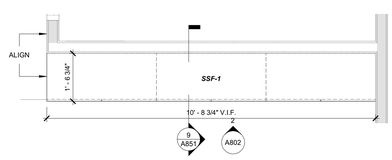
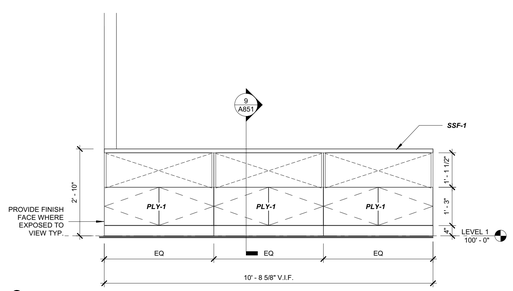


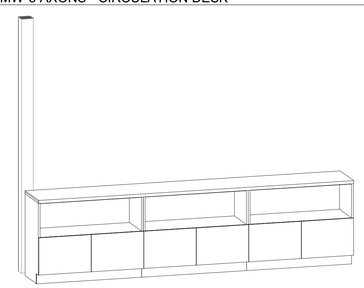
4 MW-5 AXONS - CIRCULATION DESK
A802



3 MW-4 MILLWORK PLAN
A802 1/2" = 1'-0"



2 MW-4 FRONT ELEVATION - HOLDS
A802 1/2" = 1'-0"



1 MW-4 AXON - HOLDS
A802

Attachment B

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MILLWORK PLANS AND ELEVATIONS

A802

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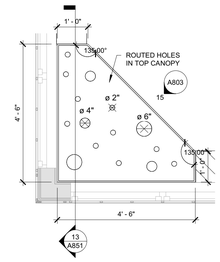
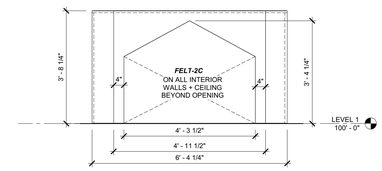


16 MW-7 MILLWORK PLAN
A803 1/2" = 1'-0"



15 MW-7 MILLWORK ELEVATION
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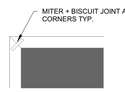

14 MILLWORK - WOOD CORNER DETAIL
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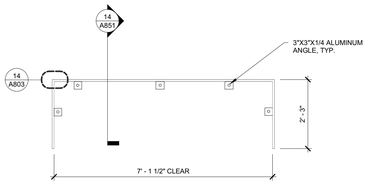

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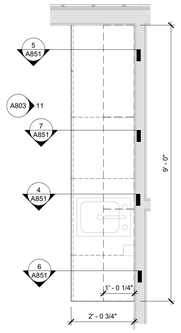

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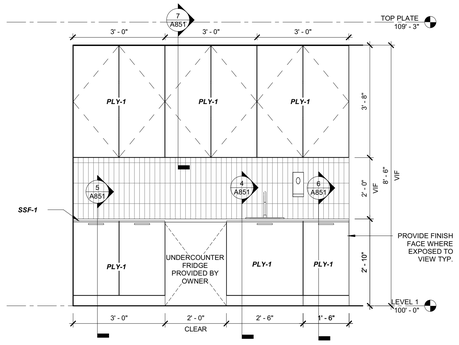
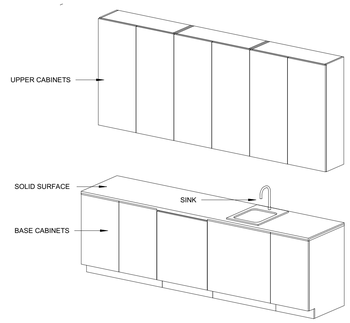


11 MW-3 KITCHEN MILLWORK ELEVATION
A803 1/2" = 1'-0"



10 MW-3 AXON VIEW
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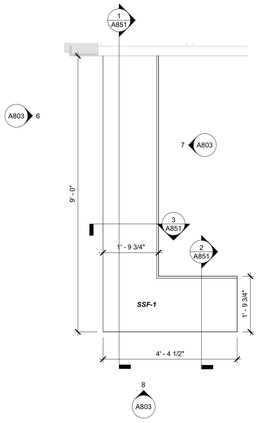

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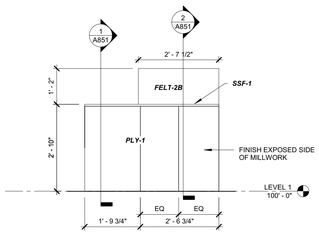

8 MW-2 SIDE ELEVATION - STAFF STORAGE
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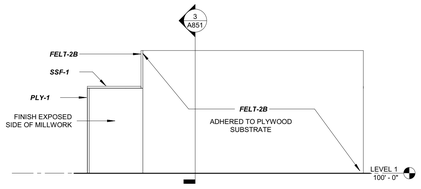

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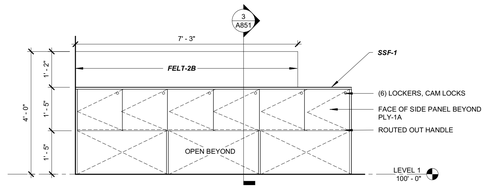
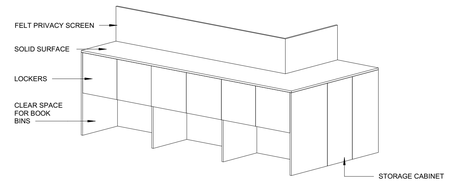
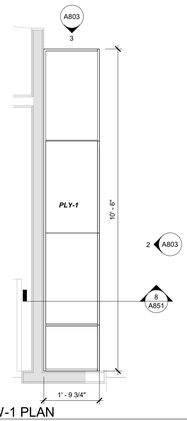


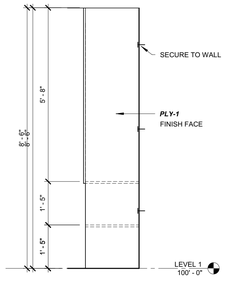
6 MW-2 FRONT ELEVATION - STAFF STORAGE
A803 1/2" = 1'-0"



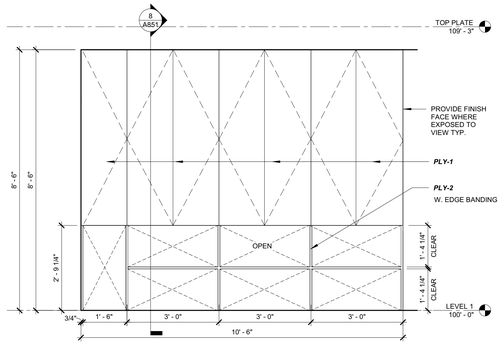
5 MW-2 AXON VIEW
A803



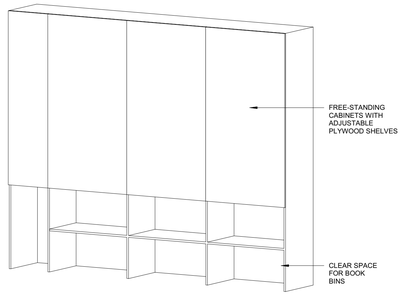
4 MW-1 PLAN
A803 1/2" = 1'-0"



3 MW-1 SIDE ELEVATION - STORAGE BINS
A803 1/2" = 1'-0"



2 MW-1 FRONT ELEVATION - STORAGE BINS
A803 1/2" = 1'-0"



1 MW-1 AXON VIEW
A803

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Attachment B

Architecture and Interiors

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Mechanical, Electrical & Plumbing

Harris Group

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Architect Seal

20122574
REGISTERED ARCHITECT
MATTHEW SCOTT KRUNTORAD
STATE OF WASHINGTON

Signature

Print Name Matthew Kruntorad

Date 04/27/2024 **License No** 20122574

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Mark	Date	Description

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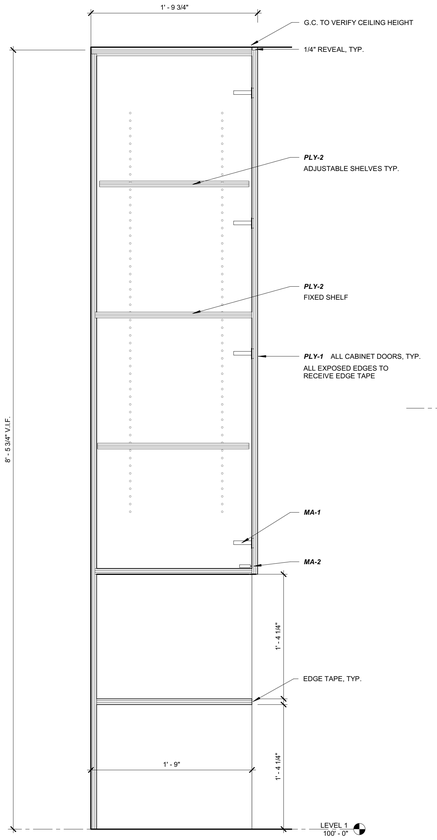
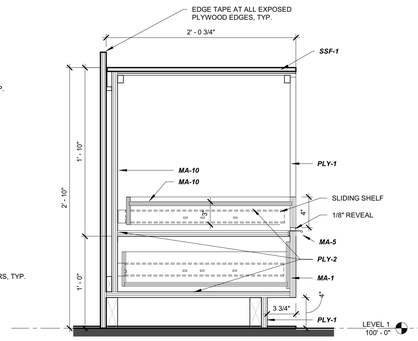
MILLWORK PLANS
AND ELEVATIONS

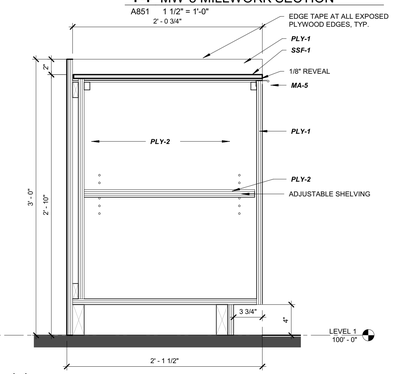
A803



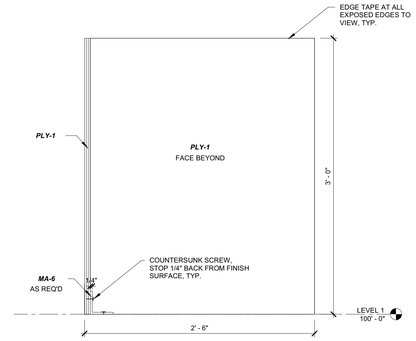
8 MW-1 STORAGE BINS
A851 1 1/2" = 1'-0"



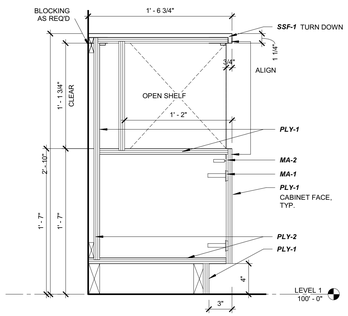
12 MW-6 BASE CABINET PULL OUT SECTION
A851 1 1/2" = 1'-0"



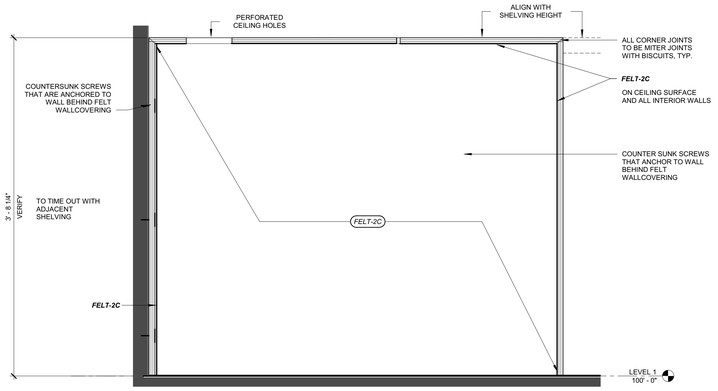
11 MW-6 BASE CABINET SECTION
A851 1 1/2" = 1'-0"



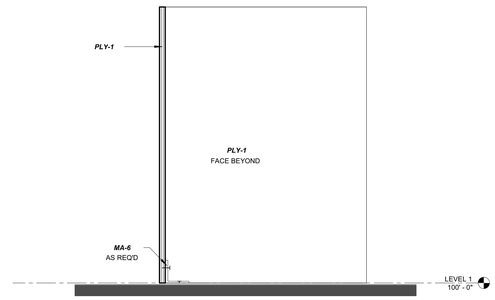
10 MW-5 SECTION - CIRCULATION DESK
A851 1 1/2" = 1'-0"



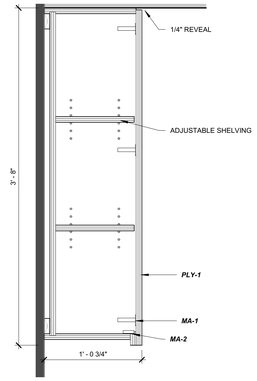
9 MW-4 SECTION - HOLDS
A851 1 1/2" = 1'-0"



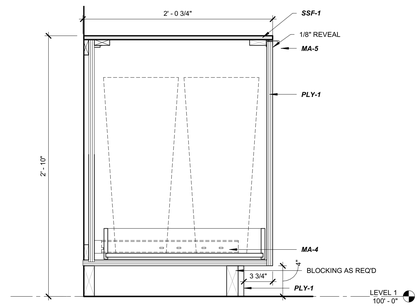
13 MW-7 MILLWORK SECTION
A851 1 1/2" = 1'-0"



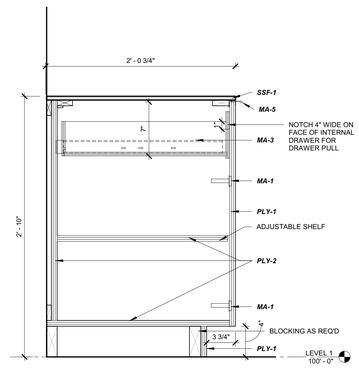
14 MW-8 MILLWORK SECTION
A851 1 1/2" = 1'-0"



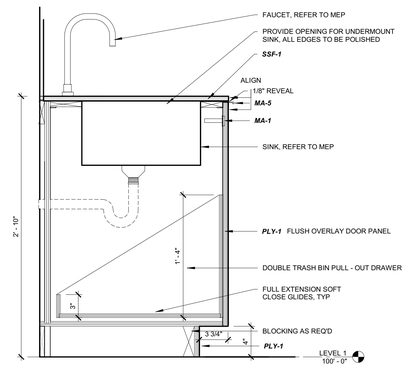
7 MW-3 SECTION AT UPPER CABINET
A851 1 1/2" = 1'-0"



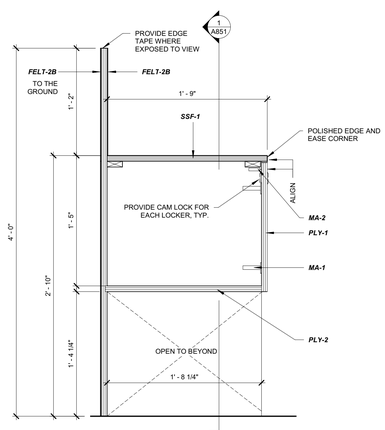
6 MW-3 SECTION AT TRASH
A851 1 1/2" = 1'-0"



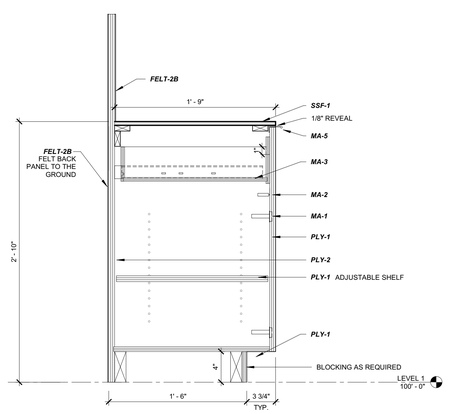
5 MW-3 SECTION AT BASE CABINET
A851 1 1/2" = 1'-0"



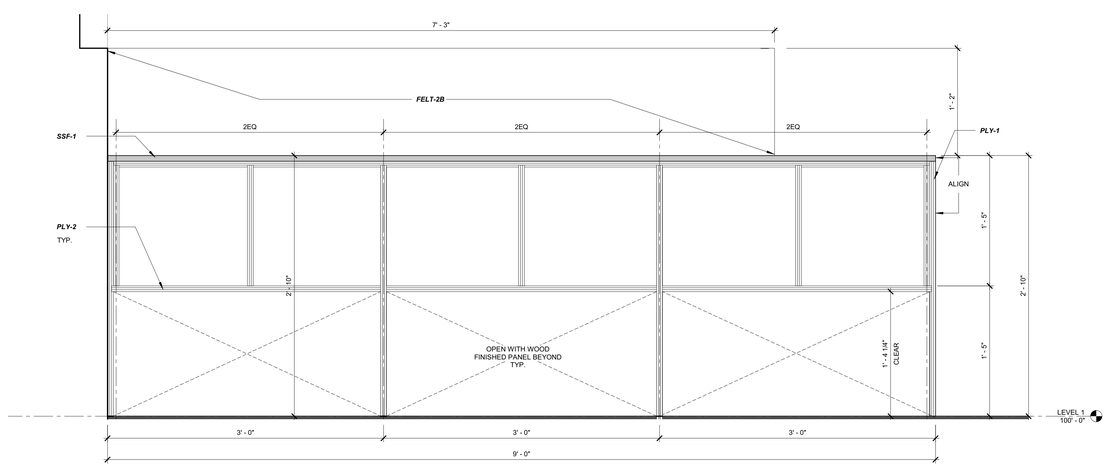
4 MW-3 SECTION AT SINK
A851 1 1/2" = 1'-0"



3 MW-2 CROSS SECTION - STAFF STORAGE
A851 1 1/2" = 1'-0"



2 MW-2 SECTION - STAFF STORAGE1
A851 1 1/2" = 1'-0"



1 MW-2 SECTION - STAFF STORAGE
A851 1 1/2" = 1'-0"

Attachment B

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Architect Seal

20122574
REGISTERED ARCHITECT
MATTHEW SCOTT KRUNTORAD
STATE OF WASHINGTON

Signature

Print Name Matthew Kruntorad

Date 04/27/2024 **License No** 20122574

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MILLWORK SECTIONS

A851

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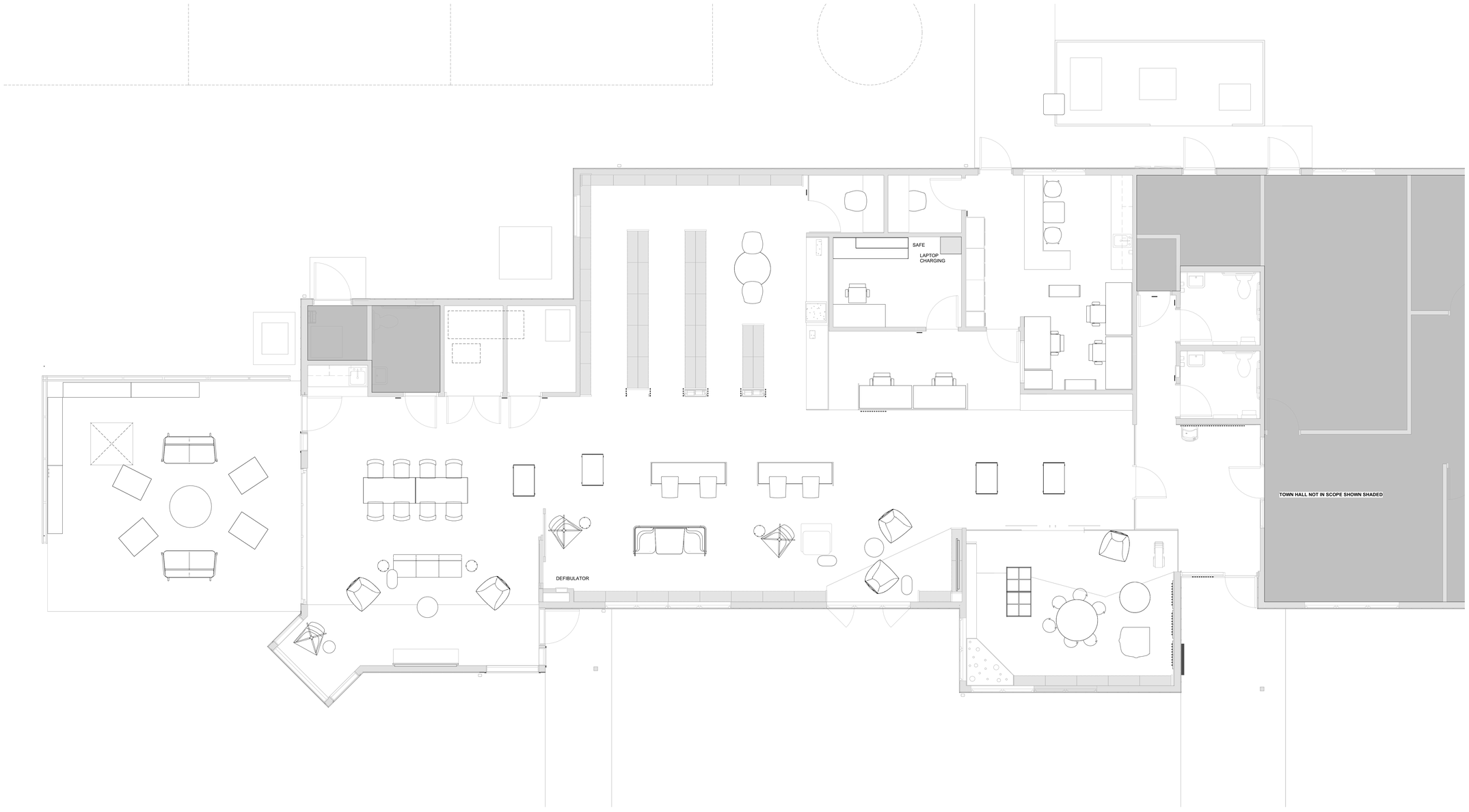

1 LEVEL 1 FURNITURE PLAN
A901 1/4" = 1'-0"

Attachment B

Architecture and Interiors

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Architect Seal

20122574
REGISTERED ARCHITECT
MATTHEW SCOTT KRUNTORAD
STATE OF WASHINGTON

Signature MATTHEW KRUNTORAD

Print Name Matthew Kruntorad

Date 04/27/2024 **License No** 20122574

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LEVEL ONE
FURNITURE PLAN

A901

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HVAC AND PLUMBING REMODEL

SYMBOL LIST

SYMBOL	ABBV.	DESCRIPTION
		BALL VALVE
		GATE VALVE
		CHECK VALVE
		GLOBE VALVE
		GAS COCK
		SOLENOID / MODULATING VALVE
		THREE-WAY VALVE
		RELIEF VALVE
		BALANCING VALVE
		FLOW CONTROL VALVE (SET FOR 1 GPM)
		AUTO-FLOW CONTROL VALVE
	PRV	PRESSURE REDUCING VALVE
		UNION
		THERMOMETER
		PRESSURE GAUGE
		VIBRATION ISOLATOR
		WATER HAMMER ARRESTOR
		STRAINER
	RPBP	BACKFLOW PREVENTION DEVICE
		END CAP
		HOSE BIBB
	VTR	VENT THROUGH ROOF
	CO	CLEANOUT
	W	WASTE
	V	VENT
	CW	COLD WATER
	HW	HOT WATER
	HWC	HOT WATER RECIRCULATION
		DUCT SECTION - SUPPLY
		DUCT SECTION - RETURN
		DUCT SECTION - EXHAUST
12x8		RECTANGULAR DUCT (INSIDE DIMENSION)
12"ø		ROUND DUCT
12x8	SL	SOUND LINED DUCT (INSIDE DIMENSION)
		FLEXIBLE DUCT
		SPIRAL DUCT
		TURNING VANE
	VD	VOLUME DAMPER
	MD	MOTORIZED DAMPER
	BDD	BACKDRAFT DAMPER
		SUPPLY DIFFUSER
		RETURN GRILLE
		EXHAUST GRILLE

SYMBOL	ABBV.	DESCRIPTION
T HP-1	T'STAT	THERMOSTAT
	AFF	ABOVE FINISHED FLOOR
	ARCH.	ARCHITECT/ARCHITECTURAL
	BFF	BELOW FINISHED FLOOR
	CDS	CEILING DIFFUSER-SURFACE MOUNTED
	CDL	CEILING DIFFUSER-LAY IN
	CGS	CEILING GRILLE-SURFACE MOUNTED
	CGL	CEILING GRILLE-LAY IN
	COP	COEFFICIENT OF PERFORMANCE
	DEMO	DEMOLISH
	DWG	DRAWING
	(E), EXIST.	EXISTING ITEMS
	ELECT.	ELECTRICAL
	EC	ELECTRICAL CONTRACTOR
	EER	ENERGY EFFICIENCY RATING
	EFF	EFFICIENCY/EFFICIENT
	FR	FLOOR REGISTER
	GC	GENERAL CONTRACTOR
	GPM	GALLONS PER MINUTE
	HSPF	HEATING SEASONAL PERFORMANCE FACTOR
	HWR	HIGH WALL REGISTER
	HWG	HIGH WALL GRILLE
	I.E.	INVERT ELEVATION
	IPLV	INTEGRATED PART LOAD VALUE
	LWR	LOW WALL REGISTER
	LWG	LOW WALL GRILLE
	MC	MECHANICAL CONTRACTOR
	MECH.	MECHANICAL
	(N)	NEW
	NTS	NOT TO SCALE
	OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
	POC	POINT OF CONNECTION
	TYP.	TYPICAL
	U.O.N.	UNLESS OTHERWISE NOTED
WC1		PLUMBING FIXTURE TAG
EF 1		EQUIPMENT TAG
1		FLAG NOTE
10"ø CDL 300 CFM		CONNECTION (NECK) SIZE; TYPE (CEILING DIFF. LAY-IN); FLOW RATE (CUBIC FEET PER MINUTE)
3" (125)		FIXTURE UNITS or BTUH; PIPE SIZE
1 M1.0		DETAIL NUMBER; SHEET ON WHICH DETAIL IS DRAWN
1 M1.0		SECTION INDICATOR; SHEET ON WHICH SECTION IS DRAWN
1		REVISION TAG

GENERAL NOTES

INSTALL SEISMIC BRACING FOR ALL DUCTWORK, EQUIPMENT AND PIPING PER I.B.C. REQUIREMENTS. PROVIDE ENGINEERED AND STAMPED DESIGN DRAWINGS IF REQUIRED BY IBC. CONTRACTOR TO CONTACT OR HIRE A STRUCTURAL ENGINEER TO DETERMINE BUILDING AND SYSTEM IMPORTANCE FACTORS. UTILIZE ISAT OR OTHER SEISMIC BRACING COMPANY.

INSTALL ALL PIPING ON ROOM SIDE OF BUILDING INSULATION.

MECHANICAL DRAWINGS ARE DIAGRAMMATIC IN NATURE, AND DO NOT NECESSARILY REFLECT EVERY REQUIRED OFF-SET, FITTING OR ACCESSORY.

COORDINATE INSTALLATION OF MECHANICAL SYSTEMS WITH BUILDING STRUCTURE AND ALL OTHER TRADES.

THE MECHANICAL CONTRACTOR SHALL VISIT THE JOB SITE PRIOR TO BEGINNING WORK IN ORDER TO OBSERVE EXISTING CONDITIONS. VERIFY EXACT SIZE, LOCATION AND CONDITION OF ALL EXISTING SYSTEMS, DUCTS, PIPES, UTILITIES AND BUILDING STRUCTURE.

LOCATE ALL PLUMBING FIXTURES PER ARCHITECTURAL DRAWINGS.

VERIFY VOLTAGES AT THE SITE PRIOR TO ORDERING ANY EQUIPMENT.

CONTRACTOR SHALL PROVIDE WASTE, VENT, WATER AND GAS PIPING, INCLUDING TRAPS, FITTINGS AND STOPS TO COMPLETE EACH EQUIPMENT HOOK-UP TO THE POINT OF FINAL CONNECTION. CONNECTION BETWEEN VARIOUS PIECES OF EQUIPMENT SHALL BE MADE BY THE PLUMBING CONTRACTOR AT THE TIME EQUIPMENT IS BEING INSTALLED.

PROVIDE WATER HAMMER ARRESTOR ON FAST ACTION VALVES.

BALANCING DAMPERS SHALL BE PROVIDED ON ALL DUCTS REQUIRED TO BALANCE TO SPECIFIC CFM'S SHOWN ON PLANS.

MAJOR APPLICABLE CODES:

2018 INTERNATIONAL BUILDING CODE WITH WASHINGTON STATE AMENDMENTS
2018 INTERNATIONAL MECHANICAL CODE WITH WASHINGTON STATE AMENDMENTS
2018 UNIFORM PLUMBING CODE WITH WASHINGTON STATE AMENDMENTS
2018 WASHINGTON STATE ENERGY CODE

DEMOLITION NOTES ARE FOR CLARIFICATION ONLY AND ARE SHOWN FOR THE CONTRACTOR'S BENEFIT. THESE NOTES ARE NOT INTENDED TO BE COMPREHENSIVE. THE CONTRACTOR SHALL REMOVE OR RELOCATE ALL EXISTING MECHANICAL ITEMS NECESSARY TO ACCOMMODATE THE PROPOSED CONSTRUCTION.

CONTRACTOR IS TO REMOVE ALL EXISTING DEBRIS WITHIN THE LIMITS OF WORK UNLESS OTHERWISE NOTED. ALL DEBRIS FOUND IN THE BUILDING SHALL BE DISPOSED OF.

CONTRACTOR TO PROTECT EXISTING FEATURES WHICH ARE TO REMAIN.

EXISTING SYSTEM CLEANING

ALL EXISTING SYSTEMS (DUCTWORK, PIPING, EQUIPMENT, GRD'S, ETC.) BEING RE-USED SHALL BE CLEANED AND BROUGHT TO GOOD WORKING CONDITION.

AIR TERMINAL DEVICE SCHEDULE

ITEM	MARK	MANUFACTURER	MODEL	MATERIAL	MOUNTING	FINISH	REMARKS
WALL GRILLE	L or HWG	TITUS	355RL	STEEL	SURFACE	ENAMLED	40 DEGREE FIXED BLADES
CEILING DIFFUSER	CDL	TITUS	MCD	STEEL	LAY-IN	ENAMLED	BORDER TYPE 3
CEILING GRILLE	CGL	TITUS	50F	ALUMINUM	LAY-IN	ENAMLED	BORDER TYPE 3
CEILING GRILLE	CGS	TITUS	50F	ALUMINUM	SURFACE	ENAMLED	BORDER TYPE 1
LINEAR SLOT DIFFUSER	LSD	TITUS	ML-37	ALUMINUM	LAY-IN	ENAMLED	BORDER 3, MP-37 SUPPLY PLENUM, 4', END CAPS, 2 SLOTS
ROUND DIFFUSER	SD	TITUS	TMR	STEEL	DUCT	ENAMLED	

NOTE: NECK CONNECTION SIZE AND TERMINAL SIZE AS NOTED ON MECHANICAL FLOOR PLAN

PLUMBING FIXTURE SCHEDULE

TAG	DESCRIPTION	LOCAL CONNECTIONS			
		W	V	HW	CW
L1	LAVATORY (ADA) - WALL HUNG, KOHLER KINGSTON K-2005, 21X18 NOM., VITREOUS CHINA, DELTA 501LF-WF FAUCET, 1.2 GPM FLOW, SINGLE HANDLE, GRID DRAIN, SCREWDRIVER STOPS & SUPPLIES, 1-1/4" CP, 17 GA CHROME PLATED P-TRAP, PLUMBEREX TRAP GEAR SERIES P-TRAP/ H&C COVERS, PROVIDE WITH ASSE 1070 THERMOSTATIC MIXING VALVE ON HW SUPPLY. PROVIDE ZURN 1231 CONCEALED ARMS CARRIER.	1-1/2"	1-1/2"	1/2"	1/2"
S1	SINK - UNDER MOUNT, KOHLER STRIVE K-5287, 15X15, 16 GA STAINLESS STEEL, WITH SINK DRAIN, STRAINER AND TAILPIECE, KOHLER CRUE K-22975 SINGLE HANDLE FAUCET, 1.5 GPM FLOW, SCREWDRIVER STOPS & SUPPLIES, 1-1/4" CP, 17 GA CHROME PLATED P-TRAP	2"	1-1/2"	1/2"	1/2"
WC1	WATER CLOSET - (FLOOR MOUNT FLUSH TANK / GRAVITY FLUSH) AMERICAN STANDARD 2386.012, ADA COMPLIANT, 1.6 GPF, OPEN FRONT SEAT, SCREWDRIVER STOP & SUPPLY, NO-SEEP WAX RING W/SLEEVE, CLOSET BOLTS, NUTS & WASHERS, LOCATE FLUSH HANDLE AT WIDE SIDE OF APPROACH.	3"	2"	--	1/2"

EXHAUST FAN SCHEDULE

EQUIP. TAG	AREA SERVED	MFG' / MODEL NUMBER	CFM	E.S.P. INCHES W.G.	FAN MOTOR HP/ WATTS	FAN MOTOR VOLTS	FAN MOTOR PH.	NOISE SONES	DRIVE	CONFIGURATION	WEIGHT (LBS)	REMARKS
EF-1	MEN'S TOILET 104	PANASONIC FV-0511VF1	80	0.4	18W	120	1	1	DIRECT	CEILING	8	ALL
EF-2	WOMEN'S TOILET 103	PANASONIC FV-0511VF1	80	0.4	18W	120	1	1	DIRECT	CEILING	8	ALL

NOTES:
1. CONNECT NEW FAN TO EXISTING ELECTRICAL AND EXISTING EXHAUST DUCT

2018 WSEC TABLE C403.10.3
MINIMUM PIPE INSULATION THICKNESS (THICKNESS IN INCHES)[a]

FLUID OPERATING TEMPERATURE RANGE AND USAGE (°F)	INSULATION CONDUCTIVITY		NOMINAL PIPE OR TUBE SIZE (inches)				
	Conductivity Btu · in./(h · ft2 · °F)[b]	Mean Rating Temperature, °F	<1	1 TO < 1-1/2	1-1/2" TO <4	4 TO <8	≥ 8
>350	0.32 - 0.34	250	4.5	5.0	5.0	5.0	5.0
251-350	0.29 - 0.32	200	3.0	4.0	4.5	4.5	4.5
201-250	0.27 - 0.30	150	2.5	2.5	2.5	3.0	3.0
141-200	0.25 - 0.29	125	1.5	1.5	2.0	2.0	2.0
105-140	0.21 - 0.28	100	1.0	1.0	1.5	1.5	1.5
40-60	0.21 - 0.27	75	0.5	0.5	1.0	1.0	1.0
<40	0.20 - 0.26	75	0.5	1.0	1.0	1.0	1.5

A. FOR PIPING SMALLER THAN 1-1/2 INCH (38 MM) AND LOCATED IN PARTITIONS WITHIN CONDITIONED SPACES, REDUCTION OF THESE THICKNESSES BY 1 INCH (25 MM) SHALL BE PERMITTED (BEFORE THICKNESS ADJUSTMENT REQUIRED IN FOOTNOTE B) BUT NOT TO A THICKNESS LESS THAN 1 INCH (25 MM).
B. FOR INSULATION OUTSIDE THE STATED CONDUCTIVITY RANGE, THE MINIMUM THICKNESS (T) SHALL BE DETERMINED AS FOLLOWS: T = R(1 + T/R)(K/K - 1) WHERE: T = MINIMUM INSULATION THICKNESS, R = ACTUAL OUTSIDE RADIUS OF PIPE, T = INSULATION THICKNESS LISTED IN THE TABLE FOR APPLICABLE FLUID TEMPERATURE AND PIPE SIZE, K = CONDUCTIVITY OF ALTERNATE MATERIAL AT MEAN RATING TEMPERATURE INDICATED FOR THE APPLICABLE FLUID TEMPERATURE (BTU x IN/H x FT2 x °F) AND K = THE UPPER VALUE OF THE CONDUCTIVITY RANGE LISTED IN THE TABLE FOR THE APPLICABLE FLUID TEMPERATURE.
C. FOR DIRECT-BURIED HEATING AND HOT WATER SYSTEM PIPING, REDUCTION OF THESE THICKNESSES BY 1-1/2" INCHES SHALL BE PERMITTED (BEFORE THICKNESS ADJUSTMENT REQUIRED IN FOOTNOTE B BUT NOT TO THICKNESSES LESS THAN 1 INCH.

SCOPE OF WORK

REPLACE EXISTING LAVATORIES AND WATER CLOSETS.

ADJUST EXISTING DUCT/DIFFUSER LAYOUT FOR NEW ROOMS. PROVIDE NEW FLEX DUCT AND DIFFUSERS/GRILLES. CLEAN AND BALANCE EXISTING HVAC SYSTEM.

DRAWING INDEX

SHEET	DESCRIPTION
M100	COVER SHEET
M200	PLUMBING PLANS
M300	DEMO FLOOR PLAN - HVAC
M301	FLOOR PLAN - HVAC

Attachment B

Architecture and Interiors

510 Marquette Avenue South, Suite 200
Minneapolis, MN 55402 | 612.375.0336

Structure

Swenson Say Fagét Engineers

2124 Third Avenue, Suite 100
Seattle, Washington 98121 | (206) 443-6212

Mechanical, Electrical & Plumbing

Harris Group

20201 Cedar Valley Road, Ste 120,
Lynnwood, WA 98036 | 425-774-3829

Civil

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PROJECT NO: 0070853

DARRINGTON LIBRARY
1005 Cascade St
Darrington, WA 98241

STATE OF WASHINGTON
MARK E. S. ONEALL
43910010
REGISTERED PROFESSIONAL ENGINEER

Date _____

CONSTRUCTION DOCUMENTS

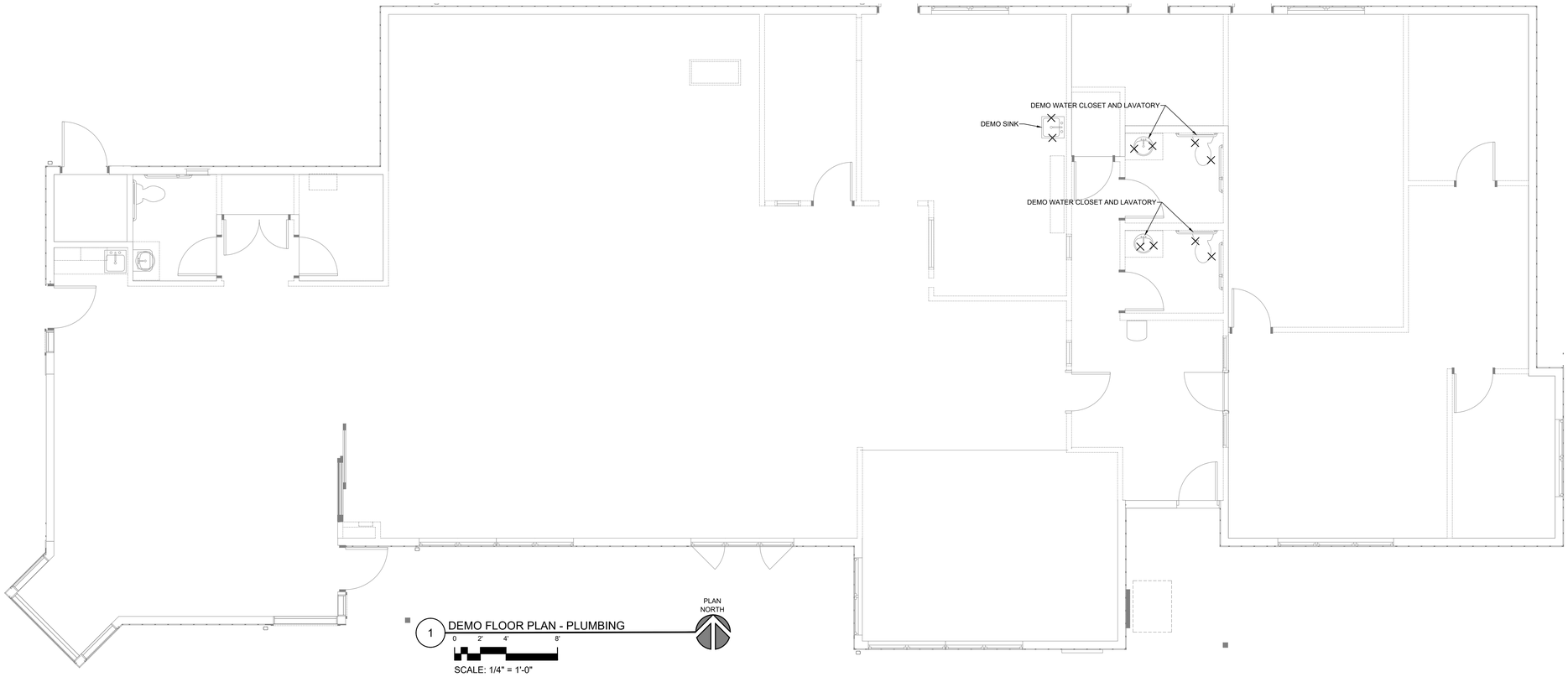
ISSUE / REVISION

Mark	Date	Description

COVER SHEET

M100

Attachment B

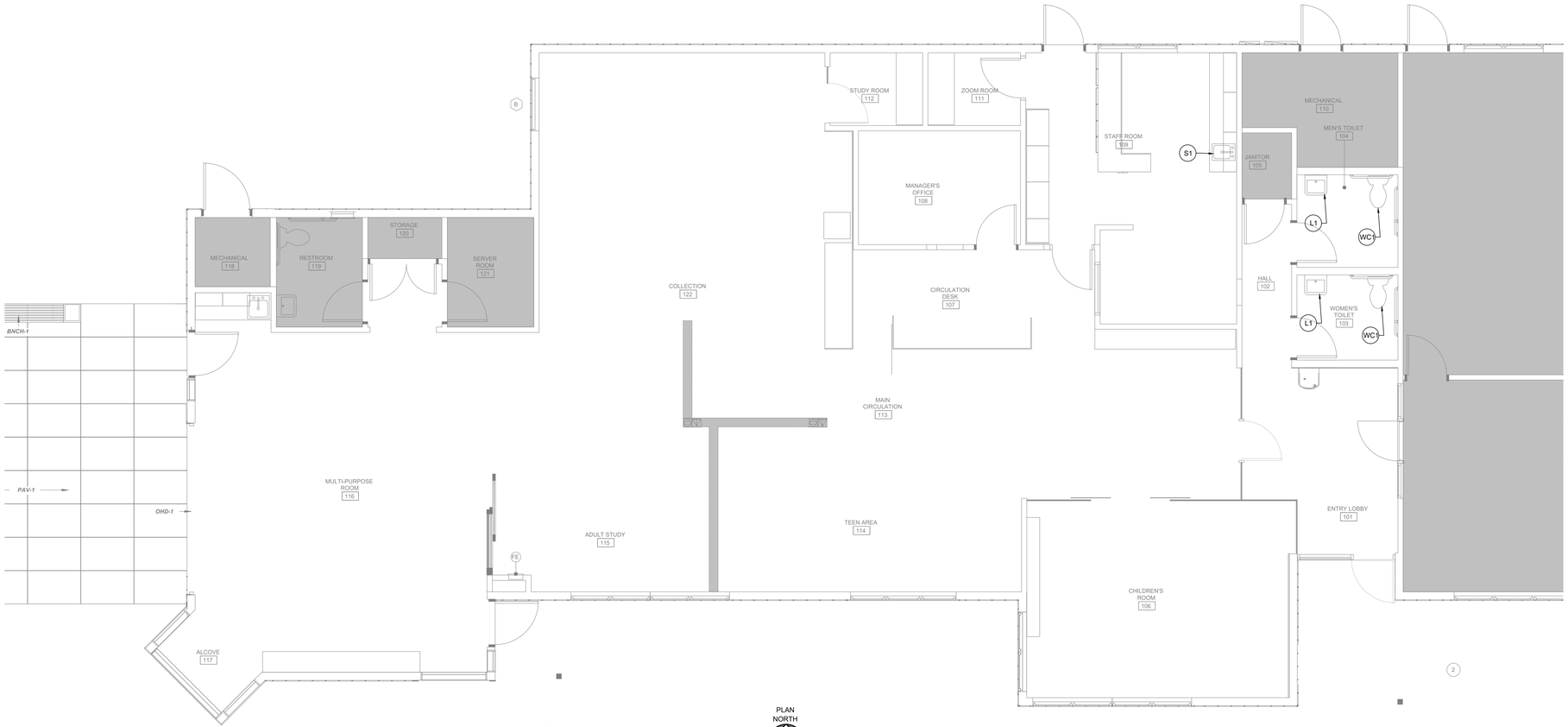


1 DEMO FLOOR PLAN - PLUMBING

0 2' 4' 8'

SCALE: 1/4" = 1'-0"

PLAN NORTH



2 FLOOR PLAN - PLUMBING

0 2' 4' 8'

SCALE: 1/4" = 1'-0"

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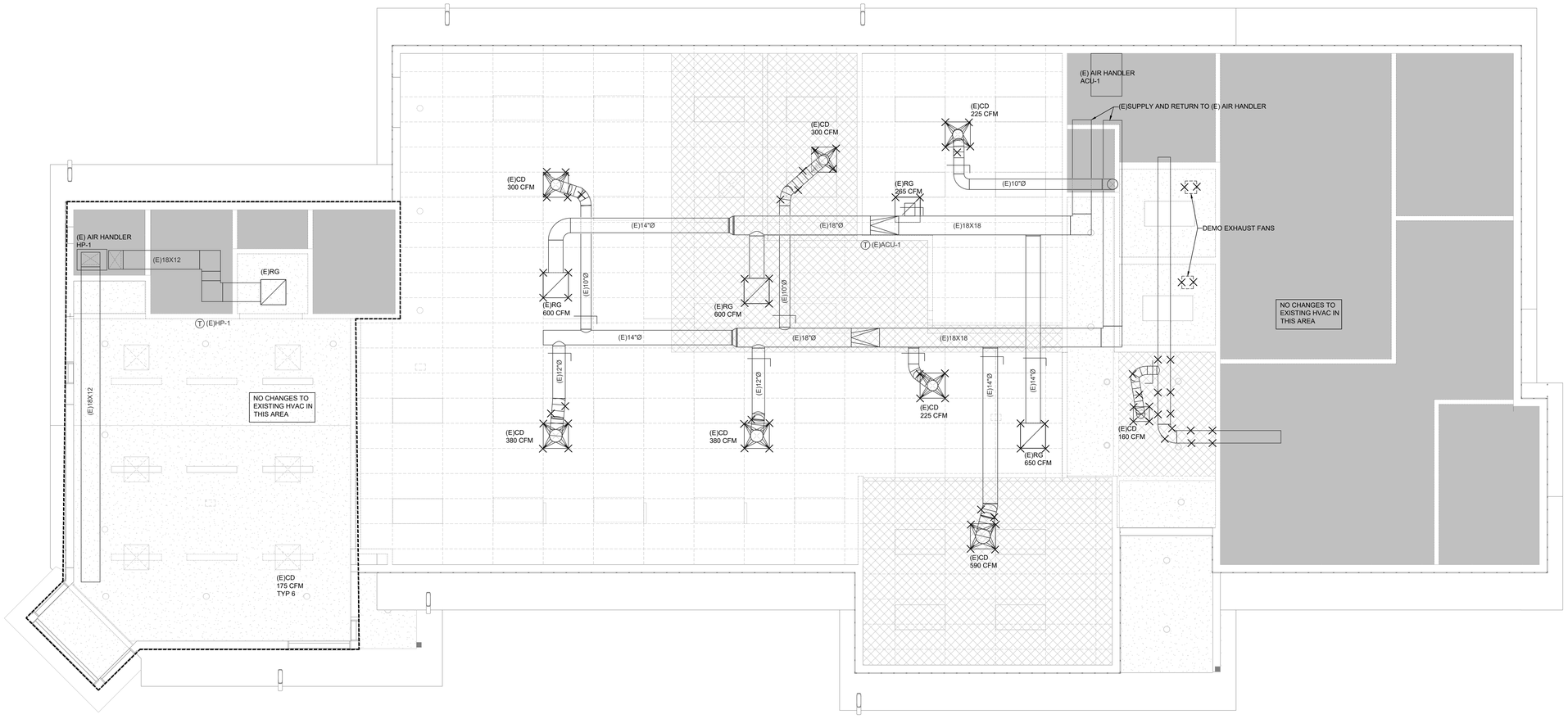
PLUMBING PLANS

M200

SHEET NOTES:

- EXISTING AIR FLOWS ARE FOR REFERENCE ONLY.
- EXISTING DUCT LOCATIONS/SIZES AND DIFFUSER LOCATIONS ARE FOR REFERENCE ONLY.
- DEMO CEILING GRILLES/DIFFUSERS AND FLEX DUCT



1 DEMO FLOOR PLAN - HVAC

0 2' 4' 8'

SCALE: 1/4" = 1'-0"

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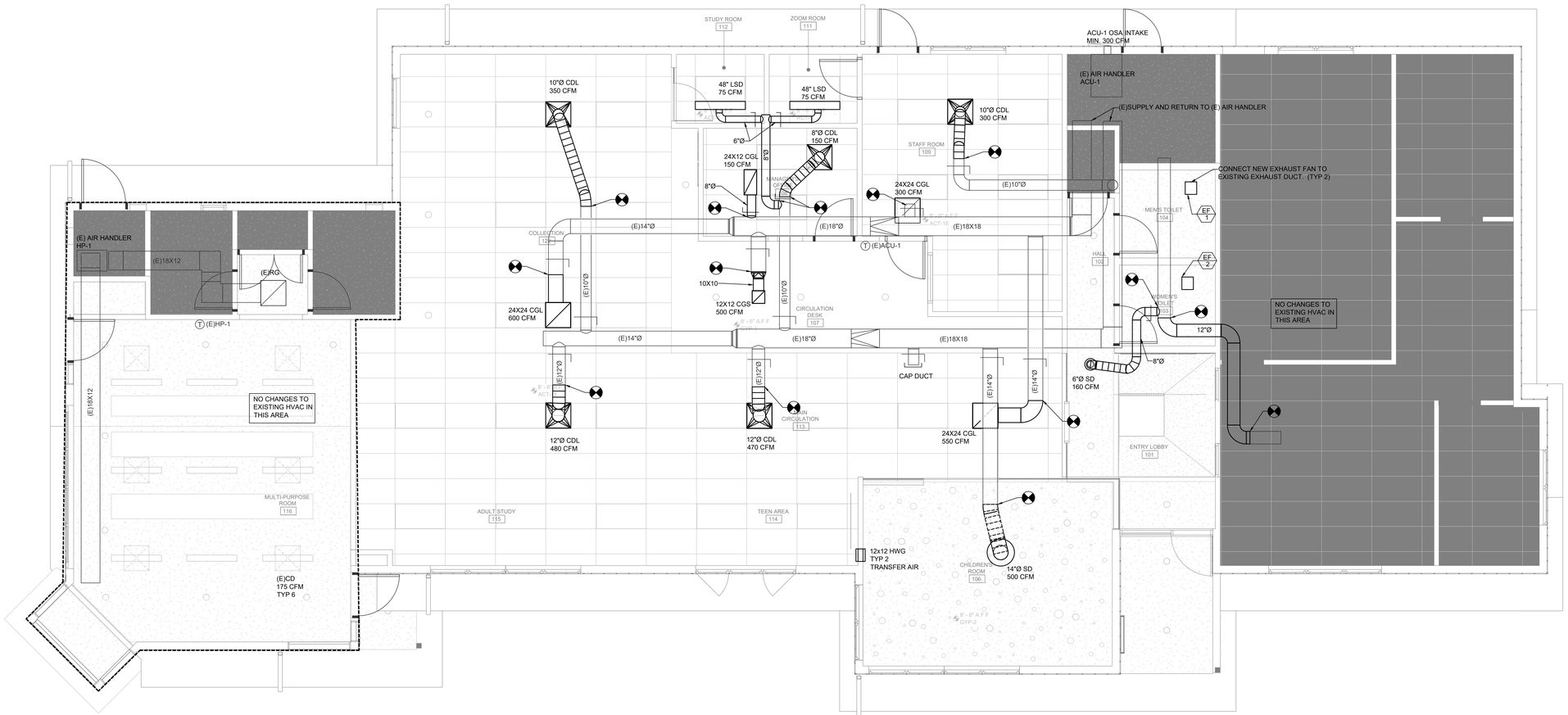
DEMO PLAN HVAC

M300

Attachment B

SHEET NOTES:

- STUDY ROOM 112 AND ZOOM ROOM 111 SHALL HAVE 1/2" MINIMUM DOOR UNDERCUT FOR RETURN AIR



1 FLOOR PLAN - HVAC

0 2' 4' 8'

SCALE: 1/4" = 1'-0"

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HVAC PLAN

M301

PLAN SYMBOLS

GROUNDING

- GROUND CABLE AND CABLE CONNECTION
- GROUND ROD CONNECTION
- SG — STATIC GROUND (EXISTING, UNO)
- GROUND CABLE PIGTAIL
- G — GROUND CABLE (UNDER GROUND)
- G — INSULATED GROUND BUS BAR

POWER

- MAJOR ELECTRICAL COMPONENT (NAME AS INDICATED)
- PANELBOARD, 480Y/277V, 3ø, 4-WIRE
- PANELBOARD, 208Y/120V, 3ø, 4-WIRE
- POWER PANEL DC
- CB — CIRCUIT BREAKER ENCLOSURE
- S — CIRCUIT BREAKER ENCLOSURE WITH SHUNT-TRIP
- 30AS 20AF — DISCONNECT SWITCH (FUSED OR UNFUSED) SWITCH RATING/FUSE RATING
- MOTOR STARTER, MAGNETIC (COMBINATION WITH DISCONNECT SWITCH)
- MANUAL MOTOR STARTER WITH OVERLOADS
- T — TRANSFORMER
- J — JUNCTION BOX, CEILING OR FLOOR
- J — JUNCTION BOX, WALL
- J — J — JUNCTION BOX W/CONNECTION TO EQUIPMENT
- J — JUNCTION BOX, WEATHERPROOF, SPECIAL SIZE
- PB — PULLBOX, SIZE NOTED
- C — CONTACTOR, TYPE AS NOTED
- G — GENERATOR
- M — MOTOR
- 120 VOLT MOTOR (HP AS NOTED)
- 208 VOLT MOTOR (HP AS NOTED)
- 460 VOLT MOTOR (HP AS NOTED)
- POWER FACTOR CORRECTION CAPACITOR
- X / Y — HVAC EQUIPMENT IDENTIFICATION
  - "X" DENOTES EQUIPMENT NAME
  - "Y" DENOTES EQUIPMENT NUMBER
- CONDUIT NOT BURIED (INCLUDING ABOVE SUSPENDED CEILING)
- CONDUIT BURIED (UNDERGROUND OR IN FLOOR SLAB)
- FLEXIBLE METAL CONDUIT
- CIRCUIT SOURCE
  PANEL/CIRCUIT BREAKERS NOS.
  D6-1/1,3,5
- CONDUIT HASH MARKS DESIGNATION
  - PHASE CONDUCTOR(S) (SHORT LINE)
  - NEUTRAL CONDUCTOR (LONG LINE)
  - GROUND CONDUCTOR (DOT)

POWER

- CONDUIT TURNS DOWN
- CONDUIT TURNS UP
- C.O. — CONDUIT ONLY
- E — EMERGENCY CIRCUIT
- RECEPTACLE 15A, 120V, 1 PHASE, DUPLEX, NEMA 5-15 MOUNTED AT +15 AFF TO BOTTOM OF BOX U.O.N.
- CONNECTION TO EQUIPMENT DEVICES AS INDICATED ON PLANS
- RECEPTACLE 15A, 120V, 1 PHASE, 4-PLEX, NEMA 5-15 MOUNTED AT +15 AFF TO BOTTOM OF BOX U.O.N.
- CR — CONTROLLED RECEPTACLE 20A, 120V, 1 PHASE PER WSEC MOUNTED AT +15 AFF TO BOTTOM OF BOX U.O.N.
- M — MOTOR

TELEPHONE, PAGING AND FIRE DETECTION

- TELEPHONE TERMINAL BACKBOARD
- FIRE ALARM CONTROL PANEL
- TELEPHONE OUTLET MOUNTED AT +15 AFF TO BOTTOM OF BOX U.O.N.
- DATA OUTLET MOUNTED AT +15 AFF TO BOTTOM OF BOX U.O.N.
- $M — MOTOR RATED SWITCH

LIGHTING

- INCANDESCENT LIGHT FIXTURE
- HPS WALL PACK LIGHT FIXTURE
- HPS LIGHT – WALL MOUNTED
- FLUORESCENT LIGHTING FIXTURE, 4 LAMP, T5HO
- FLUORESCENT LIGHTING FIXTURE, 6 LAMP, T5HO
- 400W, SURFACE MOUNT
- FLOOD LIGHTING FIXTURE, 561-400MH, 400W FLOOD
- EX — FLUORESCENT LIGHTING FIXTURE, EVF24C29/UNV CLASS 1, DEV 1 EXP PROOF 4 LAMP T8
- FLUORESCENT LIGHTING FIXTURE, IC4-232, 2 LAMP PENDANT T8
- FLUORESCENT LIGHTING FIXTURE, EMI24-232, 2LAMP RECESSED T8
- LIGHTS ON EMERGENCY SYSTEM
- EGRESS LIGHTING, COMPACT FLUORESCENT
- RECESSED DOWNLIGHT
- KRYPTON EMEGENCY LIGHTING
- PC — PHOTOCELL
- OS — OCCUPANCY SENSOR
- DS — DAYLIGHT SENSOR
- $a or 2a — SMALL LETTER SUBSCRIPT AT SWITCH AND FIXTURE INDICATES SWITCHING. SUBSCRIPT NUMBER AT FIXTURE INDICATES CIRCUIT.
- EXIT LIGHTING FIXTURE, CEILING MOUNTED, DIRECTION OF EGRESS NOTED
- EXIT LIGHTING FIXTURE, WALL MOUNTED, DIRECTION OF EGRESS NOTED
- XP — EXPLOSION PROOF EXIT LIGHTING FIXTURE, WALL MOUNTED
- X / XXX — FIXTURE IDENTIFICATION:
  X = TYPE
  XXX = WATTAGE
- $, $LV, $3, $4 — LIGHT SWITCHES – LOW VOLTAGE SINGLE POLE/3-WAY/4-WAY
- $OS — SWITCHED OCCUPANCY SENSOR

DIAGRAM SYMBOLS

- PANEL 1XJ9 100A 3ø, 4W — PANELBOARD 480V OR 480Y/2777V
- PANEL 1XJ9-1 100A 3ø, 4W — PANELBOARD 208V OR 208Y/120V
- 480V, 30 KVA, 208Y/120V, T1 — TRANSFORMER
- 100A/3P — ENCLOSED CIRCUIT BREAKER (SIZE AS SHOWN)
- DISCONNECT SWITCH

ABBREVIATIONS

A	AMMETER, AMPERE, AMBER
AF	AMPERE FRAME
AFD	ADJUSTABLE FREQUENCY DRIVE
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
AT	AMPERE TRIP
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
B	BELL
BC	BARE COPPER
BKR	BREAKER
C	CONDUIT, CONTACTOR
CB	CIRCUIT BREAKER
CC	CONTROL CABLE
CKT	CIRCUIT
C.O.	CONDUIT ONLY
CPT	CONTROL POWER TRANSFORMER
CR	CONTROL RELAY
CRS	COATED RIGID STEEL CONDUIT
CT	CURRENT TRANSFORMER
DC	DIRECT CURRENT
DED	DEDICATED
DP	DISTRIBUTION PANEL BOARD
E	EMPTY, EMERGENCY
(E)	EXISTING
EF	EXHAUST FAN
EMCS	ENERGY MANAGEMENT CONTROL SYSTEM
EMT	ELECTRICAL METALLIC TUBING
EP	ELECTRICAL PIT
ETM	ELAPSED TIME METER
EWC	ELECTRIC WATER COOLER
EX	EXPLOSION PROOF
F, FU	FUSE
FACP	FIRE ALARM CONTROL PANEL
FAR	FIRE ALARM RELAY
FTU	FAN TERMINAL UNIT
FDR	FEEDER
FLR	FLOOR
FLUOR	FLUORESCENT
FP	FIELD PANEL
FVNR	FULL VOLTAGE NON-REVERSING
FVR	FULL VOLTAGE REVERSING
G	GREEN, GROUND
GALV	GALVANIZED
GFI	GROUND FAULT INTERRUPTER
GFR	GROUND FAULT RELAY
GND	GROUND
H	HIGH SPEED, HORN, HOWLER
HH	HANDHOLE
HID	HIGH INTENSITY DISCHARGE
HIM	HUMAN INTERFACE MODULE
HP	HORSEPOWER
HPS	HIGH PRESSURE SODIUM
HVAC	HEATING, VENTILATING AND AIR CONDITIONING
IC	INTERRUPTING CAPACITY
I & C	INSTRUMENTATION AND CONTROL
IMC	INTERMEDIATE METAL CONDUIT
INCAND	INCANDESCENT
INST	INSTANTANEOUS
J, J-BOX	JUNCTION BOX
K	KEY INTERLOCK
LC	LIGHTING CONTACTOR
LOS	LOCKOUT STOP PUSH BUTTON
LS	LIMIT SWITCH
LT FLEX	LIQUID TIGHT FLEX CONDUIT
LR	LATCHING RELAY
LV	LOW VOLTAGE
M	MAGNETIC CONTACTOR COIL
M.BKR	MAIN BREAKER
MCC	MOTOR CONTROL CENTER
MCP	MOTOR CIRCUIT PROTECTION
MH	MANHOLE
MLO	MAIN LUGS ONLY
MP	MECHANICAL PIT
MS	MOTOR STARTER
MT	MOUNT
MTD	MOUNTED
N	NEUTRAL
NACB	NON-AUTOMATIC CIRCUIT BREAKER
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
NP	NAMEPLATE
NTS	NOT TO SCALE
OL	OVERLOAD
P	POLE
PB	PULLBOX, PUSH BUTTON SWITCH
PC, PE	PHOTOCELL
PH, Dia	PHASE
PMH	POWER MANHOLE
PNL	PANEL
PS	PRESSURE SWITCH, POWER STAND
PT	POTENTIAL TRANSFORMER
PVC	POLY-VINYL CHLORIDE CONDUIT
RALC	RIGID ALUMINUM CONDUIT
RCPT	RECEPTACLE
RF	RETURN FAN
RMC	RIGID METAL CONDUIT
RT	REMOTE TELEMETRY
RVNR	REDUCED VOLTAGE REVERSING
SCL	SEATTLE CITY LIGHT
SG	STATIC GROUND
SF	SUPPLY FAN
SST	STAINLESS STEEL
ST	SHUNT TRIP CIRCUIT BREAKER
SUS	SECONDARY UNIT SUBSTATION
SV	SOLENOID VALVE
SW	SWITCH
SWBD	SWITCHBOARD
T	THERMOSTAT, TELEPHONE
TB	TERMINAL BOARD
TC	TIME CLOCK, TIME CLOSE
TD	TEMPERATURE DETECTOR RELAY
TDR	TIME DELAY RELAY
TJB	TERMINAL JUNCTION BOX
TM	TIMING RELAY
TMH	TELEPHONE MANHOLE
TO	TIME OPEN
TR	TIMER-REPEAT CYCLE
TRNSN	TRANSITION AUTO TRANSFORMER
TS	TEMPERATURE SWITCH
TSP	TWISTED SHIELDED PAIR
TST	TWISTED SHIELDED TRIAD
TYP	TYPICAL
UGP	UNDERGROUND POWER
UGT	UNDERGROUND TELEPHONE
UH	UNIT HEATER
V	VOLTMETER, VOLT
VFD	VARIABLE FREQUENCY DRIVE
W	WATT
WH	WATER HEATER
WP	WEATHERPROOF
XFMR	TRANSFORMER

GENERAL NOTES:

1. ELECTRICAL LAYOUT DRAWINGS ARE PARTIALLY DIAGRAMMATIC. REFER TO ARCHITECTURAL, STRUCTURAL, MECHANICAL AND HVAC DRAWINGS FOR GUIDANCE ON DIMENSIONS, CEILING HEIGHTS, DOOR SWINGS, ROOM FINISHES, STRUCTURAL AND ARCHITECTURAL DETAILS, LOCATION OF DUCTS, PIPES, STRUCTURAL STEEL OR OTHER SYSTEMS. LOCATE LIGHTING SYMMETRICALLY IN PROPER RELATION TO FINISHED AREAS EXCEPT WHERE DIMENSIONED ON THE DRAWINGS OR LOCATED ON REFLECTED CEILING PLANS.
2. PROVIDE ADDITIONAL SUPPORTS FOR LIGHTING FIXTURES, SWITCHES, STARTERS, RACEWAYS AND OTHER ELECTRICAL EQUIPMENT WHERE THE BUILDING STRUCTURE IS NOT SUITABLE FOR DIRECT MOUNTING.
3. SYMBOLS IN THE LEGENDS ARE APPLICABLE GENERALLY. FOR EXACT REQUIREMENTS REFER TO THE SCHEDULES, LAYOUTS, DETAILS AND SPECIFICATIONS SINCE THE APPEARANCE OF A PARTICULAR SYMBOL IN THE LEGEND DOES NOT NECESSARILY IMPLY THAT THE ITEM IS INCLUDED IN THE CONTRACT.
4. CONNECT BRANCH CIRCUIT NEUTRAL TO RECEPTACLE TERMINAL BY MEANS OF A SHORT "PIGTAIL" PERMANENTLY SPLICED TO THE NEUTRAL.
5. MOUNT GROUPED DEVICES IN A SINGLE CONTINUOUS GANG BOX.
6. VERIFY CEILING SUSPENSION SYSTEMS IN THE VARIOUS AREAS AND PROVIDE THE PROPER MOUNTING ACCESSORIES, TRIMS, ETC. TO SUIT THE PARTICULAR AREA.
7. CONDUITS WHICH ARE EXPOSED ON WALL SURFACES SHALL BE ARRANGED SUCH AS TO MINIMIZE ROUTING BETWEEN 2'-0" AFF AND 8'-0" AFF. CONDUITS WHICH MUST ENTER THIS SPACE TO FEED OUTLETS OR EQUIPMENT SHALL BE COMBINED IN MULTIPLE RUNS WITH COMMON SUPPORT.
8. USE OF EMT CONDUIT FOR POWER, LOW VOLTAGE POWER, AND SYSTEM CABLE SHALL BE ALLOWED IN OFFICE SPACES, OFFICE PASSAGE WAY, STOREROOMS, TRAINING ROOM, BREAKROOM, CONTROL ROOM, ELECTRICAL ROOM, ATTIC SPACES, MECHANICAL MEZZANINE, EXHAUST FAN ROOM, RESTROOMS, AFFF ROOM AND ADJACENT MECHANICAL ROOM.
9. USE OF GALVANIZED ELECTRICAL CONDUIT, JUNCTION BOXES AND SUPPORTING DEVICES SHALL BE ACCEPTABLE FOR INSTALLATION ON THE BUILDING EXTERIOR. HOWEVER, ALL GALVANIZED ELECTRICAL SYSTEM COMPONENTS LOCATED ON THE BUILDING EXTERIOR SHALL BE PAINTED WITH THE SAME FINISH AS APPLIED TO THE BUILDING EXTERIOR.
10. NO PRODUCTS OR MATERIAL CONTAINING ASBESTOS OR SILICONE SHALL BE USED IN THIS FACILITY.
11. ELECTRICAL WORK SHALL BE PERFORMED UNDER ELECTRICALLY SAFE WORK CONDITIONS PER THE SAFETY STANDARDS OF THE NEC AND NFPA 70. KEEP POWER DISRUPTIONS TO A MINIMUM AND NOTIFY BUILDING OWNER IN ADVANCE OF POWER DISRUPTIONS. ESTABLISHING AN ELECTRICALLY SAFE WORK CONDITION MAY BE HAZARDOUS AND APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT (PPE) MUST BE WORN AND USED PER NFPA 70E.

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ROBERT D. SMART
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54071
REGISTERED PROFESSIONAL ENGINEER

Date _____

CONSTRUCTION DOCUMENTS

ISSUE / REVISION

Mark	Date	Description

ELECTRICAL SYMBOLS NOTES & ABBREVIATIONS

E001

LIGHTING COMPLIANCE SUMMARY

2018 WSEC Compliance Forms for Commercial Buildings including Group R2, R3 & R4 over 3 stories and all R1

Administered by: ©2022 NEEA, All rights reserved

Project & Applicant Information	**Project Title**	Darrington Library - 2018 WSEC	For Building Department Use: **Date: Sep 15, 2022**
	Project Address	1005 Cascade St Darrington, WA 98241	
	Applicant Name	Scott Phipps	
	Applicant Phone	503-345-4575	
	Applicant Email	scott.phipps@harrisgroup.com	

For questions about this report, contact WSEC Commercial Technical Support at 360-539-5300 or via email at com.technsupport@waenergycodes.com

General Occupancy	All Commercial	**General Building Use Type**			Public Services, Library	**Building Cond. Floor Area**	4,946
General Project Types	Alteration	**New Building or Addition Lighting Scope**		**Alteration Lighting Scope**	Interior Lighting	**Project Cond. Floor Area**	2,854
						Floors Above Grade	1
						Compliance Method	Compliance Method 1 - General
Lighting Project Description	Existing library area to be upgraded with LED light fixtures from old fluorescent type light fixtures. New energy compliant controls to be installed on all new fixtures.						

Lighting Compliance Scope and Method	Project Type	Interior / Exterior (interior includes both interior & parking)	Luminaire Replacement Scope	Compliance Method	LPA Calculation Adjustment	Compliance Verification
	Alteration	Interior Lighting	50% or more replaced	Space by space	No Calculation Adjustments allowed	COMPLIES
Additional Efficiency Options Included	Reduced lighting power density credit		Enhanced lighting controls credit			

Project Title	Darrington Library - 2018 WSEC	Date	Sep 15, 2022
Lighting Power Calculation	**ALTERATION - INTERIOR LIGHTING (50% or more replaced)**	**Compliance Verification**	**COMPLIES**
Compliance Method	**Space by space**	**LPA Calculation Adjustment**	**none**

Interior Lighting Power Allowance - Space by Space

General Space Type	Specific Space Type	Ceiling Height (Ft)	Gross Interior Area (SF)	LPA (Watts/SF)	Total Watts Allowed (SF x LPA x 1)	Total Proposed Watts (LPD = Display LPD)	Compliance Status
Corridors	General		275	0.41	113		
Lounge/breakroom	General		297	0.59	175		
Office	Enclosed > 250 sf		110	0.66	73		
Office	Enclosed > 250 sf		40	0.66	26		
Office	Enclosed > 250 sf		40	0.66	26		
Restroom	General		110	0.63	69		
Library	Stacks area		1,638	1.10	1,802		
				Proposed Total LPD		**1769**	
	Totals				**2,285**	**1,769**	**COMPLIES**

Proposed Lighting Power Density

Fixture Type	Fixture ID	Quantity of Fixtures (#F)	Watts or Wattage Limit per Fixture (WpF)	Total Linear Feet (LF)	Watts per Linear Foot (WpLF)	Total Watts Proposed (#F x WpF) or (LF x WpLF)
Individual Fixtures						
Direct / indirect pendant	D	1	56			56
Horizontal surface-mount	C	2	21			42
Troffer	A and AE	27	32			864
Recessed downlight	B and BE	11	60			660
Recessed downlight	B3	7	21			147
					Proposed Total LPD	**1769**

Project Title	Darrington Library - 2018 WSEC	Date	Sep 15, 2022
Proposed Fixtures Details	**ALTERATION - INTERIOR LIGHTING (50% or more replaced)**		

Fixture Type/Application	Fixture ID	Location in Documents	Lamp Type	New or Existing-to-Remain
Individual Fixtures				
Direct / indirect pendant	D	E300	LED	New
	Fixture Description: Direct/Indirect 6' fixture			Are these fixtures located within a daylight zone?: Yes, controls provided
	Daylight zone location(s): Toplit daylight zones			Dimming method: Continuous dimming
	Do these fixtures require specific application lighting controls?: None required			
Horizontal surface-mount	C	E300	LED	New
	Fixture Description: Surface Mount Fixture			Are these fixtures located within a daylight zone?: No
	Do these fixtures require specific application lighting controls?:			
Troffer	A and AE	E300	LED	New
	Fixture Description: LED Troffer			Are these fixtures located within a daylight zone?: Yes, controls provided
	Daylight zone location(s): Toplit daylight zones			Dimming method: Continuous dimming
	Do these fixtures require specific application lighting controls?: None required			
Recessed downlight	B and BE	E300	LED	New
	Fixture Description: 8" downlight			Are these fixtures located within a daylight zone?: Yes, controls provided
	Daylight zone location(s): Toplit daylight zones			Dimming method: Continuous dimming
	Do these fixtures require specific application lighting controls?: Exit access & egress lighting per IBC Section 1006.1			
Recessed downlight	B3	E300	LED	New
	Fixture Description: 4" LED downlight			Are these fixtures located within a daylight zone?: No
	Do these fixtures require specific application lighting controls?:			

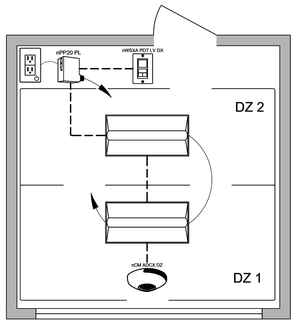
TYPE	MANUFACTURER	CATALOG NUMBER	LAMPS NO. & TYPE	WATTAGE	LUMENS	KELVIN TEMP	MTG.	REMARKS
A	LITHONIA 2X4	2BLT4 40L ADSM EZ1 LP840 N80 NESPDT7 PWS1836	LED	31	4000	4000	RECESSED	2'X4' LUMINAIRE, 3000 LUMEN, 120/277V ELECTRONIC DRIVER. NLIGHT ENABLED. INTEGRATED OCCUPANCY SENSOR.
AE	LITHONIA 2X4	2BLT4 40L ADSM EZ1 LP840 N80 NESPDT7 PWS1836 EL14L	LED	31	4000	5000	RECESSED	2'X4' LUMINAIRE, 3000 LUMEN, 1400 LUMEN EMERGENCY BATTERY PACK, 120/277V ELECTRONIC DRIVER, 4000K. NLIGHT ENABLED. INTEGRATED OCCUPANCY SENSOR
B	LITHONIA 8" OPEN DOWNLIGHT	LDN8 50LM 40K L08 AR LSS MVOLT EZ1 NPS80EZ	LED	60	5000	4000	RECESSED	RECESSED 8" LUMINAIRE, 120/277V ELECTRONIC DRIVER, 4000K TEMPERATURE. NLIGHT ENABLED.
BE	LITHONIA 8" OPEN DOWNLIGHT	LDN8 50LM 40K L08 AR LSS MVOLT EZ1 NPS80EZ EL	LED	60	5000	4000	RECESSED	RECESSED 8"' LUMINAIRE, 1400 LUMEN EMERGENCY BATTERY PACK, 120/277V ELECTRONIC DRIVER, 4000K TEMPERATURE. NLIGHT ENABLED.
B2	LITHONIA 8" OPEN DOWNLIGHT	LDN8 50LM 30K L08 AR LSS MVOLT EZ1 NPS80EZ	LED	60	5000	3000	RECESSED	RECESSED 8" LUMINAIRE, 120/277V ELECTRONIC DRIVER, 3000K TEMPERATURE. NLIGHT ENABLED.
B3	GOTHAM LIGHTING 4" DOWNLIGHT	EV04 40 10 AR WD LSS MVOLT EZ1 NLT	LED	21	1400	4000	SURFACE MOUNT	4" ROUND, 1400 LUMEN, 120V ELECTRONIC DRIVER, 4000K TEMPERATURE. NLIGHT ENABLED.
C	LITHONIA FLUSH MOUNT	FMLACL14 208 40 BA	LED	21	1400	4000	SURFACE MOUNT	14" ROUND, 1400 LUMEN, 120V ELECTRONIC DRIVER, 4000K TEMPERATURE.
D	PRIMUS LIGHTING 8' DIRECT/INDIRECT	DL-RGL L/L 4K UNV 10 SEB WM S 8'	LED	56	8960	4000	TRUSS MOUNT	8' DIRECT/INDECT, 4000K, 120/277V ELECTRONIC DRIVER
F	NLS LIGHTING POLE MOUNT	TRC-2 T2 16 700 30K8 UNV SGL BRZ PC 12'	LED	70	9200	3000	6"x4" SQUARE POLE	OUTDOOR POLE LIGHTING, TYPE II DISTRIBUTION, FULL CUTOFF, 9200 LUMEN, 80CRI, 3000K, 5YR WARRANTY, SINGLE HEAD POLE MOUNT
G	TIVOLI LIGHTING GLOBE LIGHTING	LSL2 B 18" V 30 C 12 ADNM	LED	30	N/A	3000	STRING	OUTDOOR GLOBE STRING LIGHTING, 120-277V AC POWER SUPPLY, VERIFY LENGTH WITH ARCHITECT PRIOR TO ORDERING
X	THE LIGHTING SOURCE EDGE LIT LED EIT SIGN SINGLE FACE	902E-R-WB-GC-WH	LED	5	N/A	N/A	UNIVERSAL	EDGE LIT LED SIGN WITH GREEN LETTERING, UL LISTED WITH 90MIN BATTERY BACKUP. FIELD ADJUSTABLE DIRECTIONAL ARROWS. SINGLE AND DUAL SIDED.
X2	THE LIGHTING SOURCE EDGE LIT LED EIT SIGN DOUBLE FACE	902E-R-WB-GM-WH	LED	5	N/A	N/A	UNIVERSAL	EDGE LED SIGN WITH GREEN LETTERING, DOUBLE FACE, UL LISTED WITH 90MIN BATTERY BACKUP. FIELD ADJUSTABLE DIRECTIONAL ARROWS. SINGLE AND DUAL SIDED.

LUMINAIRE SCHEDULE

SCALE: NO SCARE

WSEC 2018 DESIGN GUIDE

TYPICAL AREA WITH nLIGHT ENABLED FIXTURES & WINDOW(S)



SEQUENCE OF OPERATION:

LIGHTS
- ALL LIGHTS ARE DIMMABLE
- ALL FIXTURES ARE CONTROLLED TOGETHER
- MAXIMUM LEVEL CAN BE LIMITED TO 80%

OCCUPANCY
- LIGHTS MUST BE TURNED ON MANUALLY (OR OPTIONALLY CAN BE CONFIGURED TO COME ON AUTOMATICALLY TO 50%)
- LIGHTS AUTOMATICALLY TURN OFF WHEN ROOM BECOMES VACANT

DAYLIGHT
- SMOOTH CONTINUOUS DIMMING
- NOT REQUIRED FOR OFFICES WITHOUT WINDOWS OR THAT HAVE LOADS <150W IN SIDELIGHT ZONES

MANUAL
- ON/OFF & RAISE/LOWER CONTROL OF LIGHTS

ADDITIONAL OPTIONS:
- SURFACE OR RECESSED MOUNT SENSORS ALSO AVAILABLE
- ROOM CAN BE CONNECTED TO NLIGHT BACKBONE TO ENABLE NET-WORK CONTROL OR TIME SCHEDULES (C405.2.2.1)
- FOR EMERGENCY LIGHTING CONTROL ADD EMG OPTION TO FIXTURES.

DIAGRAM LEGEND

- CAT-5e CABLE
- LINE VOLTAGE WIRES
- LINE POWER

BILL OF MATERIAL

QTY	PRODUCT #	DESCRIPTION
2	SEE NOTE	nLIGHT WIRED ENABLED TROFFER
1	nWSXA PDT LV DX	WALL SWITCH OCCUPANCY SENSOR ON/OFF & RAISE/LOWER WALL POD
1	nPP20 PL	PLUG LOAD RELAY PACK
1	nCM ADCX DZ	DAYLIGHT SENSOR

TYPICAL LIGHTING CONTROL DETAIL

SCALE: NO SCARE

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LIGHTING
COMPLIANCE FORMS

E002

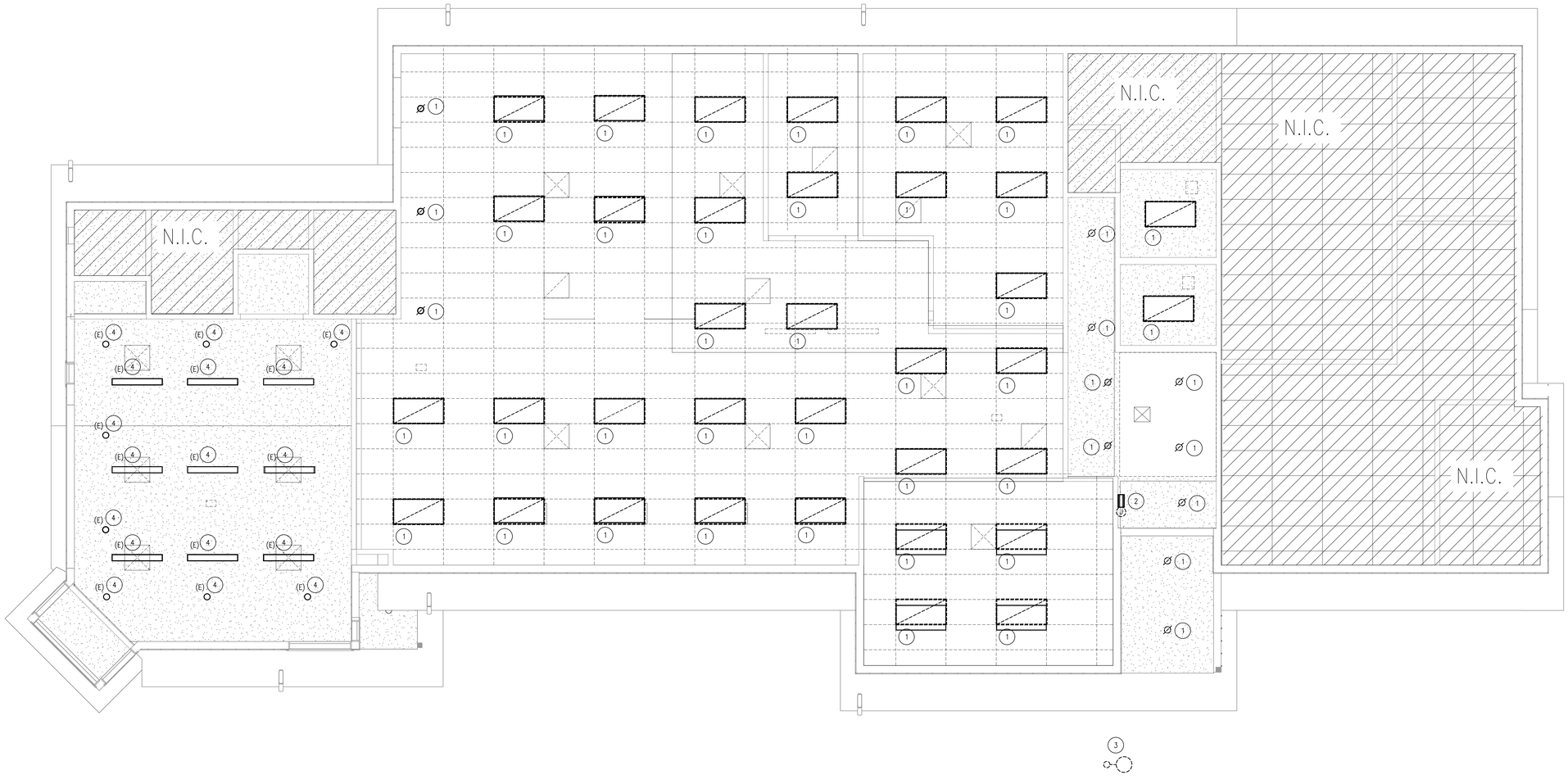
Attachment B

KEY NOTES:

1. EXISTING LIGHT FIXTURE TO BE DEMOLISHED. MAINTAIN CONDUIT AND CONDUCTOR INFRASTRUCTURE FOR INSTALLATION OF NEW LIGHT FIXTURES. SEE LIGHTING PLAN ON SHEET E300 FOR MORE INFORMATION.
2. REMOVE EXISTING ELECTRIC HEATER AND PROTECT IN PLACE FOR RELOCATION. MAINTAIN CONDUIT AND CONDUCTOR INFRASTRUCTURE FOR REINSTALLATION. SEE POWER PLAN ON SHEET E200 FOR NEW LOCATION.
3. DEMOLISH EXISTING POLE MOUNT LIGHT FIXTURE. MAINTAIN CONDUIT INFRASTRUCTURE AND PROTECT IN PLACE FOR RELOCATION TO NEW LIGHT POLE LOCATION. SEE LIGHTING PLAN ON SHEET E300 FOR MORE INFORMATION.
4. REMOVE EXISTING T5 AND CFL BULBS FOR RETROFIT OF LED BULBS. EXISTING LIGHT FIXTURES TO REMAIN.

SHEET NOTES:

1. ALL ELECTRICAL DEVICES SHOWN ARE EXISTING TO BE DEMOLISHED, U.O.N.
2. EXTERIOR LIGHTING TO REMAIN, U.O.N.
3. DEMOLISH CONDUIT AND CONDUCTORS BACK TO SOURCE PANEL OR NEAREST EXISTING TO REMAIN JUNCTION BOX SERVING OTHER NOT IN SCOPE AREAS.
4. CONTRACTOR TO FIELD VERIFY BRANCH CIRCUITRY PRIOR TO COMMENCEMENT OF WORK.
5. CONTRACTOR TO MAINTAIN CIRCUITRY CONTINUITY TO EXISTING SPACE OUTSIDE THIS SCOPE OF WORK.
6. SEE ARCHITECTURAL SHEETS FOR ADDITIONAL DEMOLITION REQUIREMENTS.
7. ELECTRICAL CONTRACTOR TO MAKE EXISTING ELECTRICAL SYSTEM SAFE FOR DEMO CONTRACTOR. ELECTRICAL CONTRACTOR TO IDENTIFY CONDUIT SYSTEMS THAT ARE TO REMAIN AND CAREFULLY WALK WITH DEMO CONTRACTOR EXPLAINING WHAT NEEDS TO STAY. IT IS THE DEMO CONTRACTOR AND GENERAL CONTRACTORS RESPONSIBILITY TO SET THIS MEETING UP AND MAKE SURE THAT THE COMMUNICATION ON WHAT STAYS IS CRYSTAL CLEAR. ITEMS THAT STAY (FEEDERS TO PANELS ETC) SHOULD BE CLEARLY MARKED ON SITE WITH RED PAINT. ANYTHING MARKED RED SHALL NOT BE DEMOED OR REMOVED.



1 FIRST FLOOR PLAN - DEMO

SCALE: 1/4" = 1'-0"

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LEVEL ONE
DEMO PLAN

E100

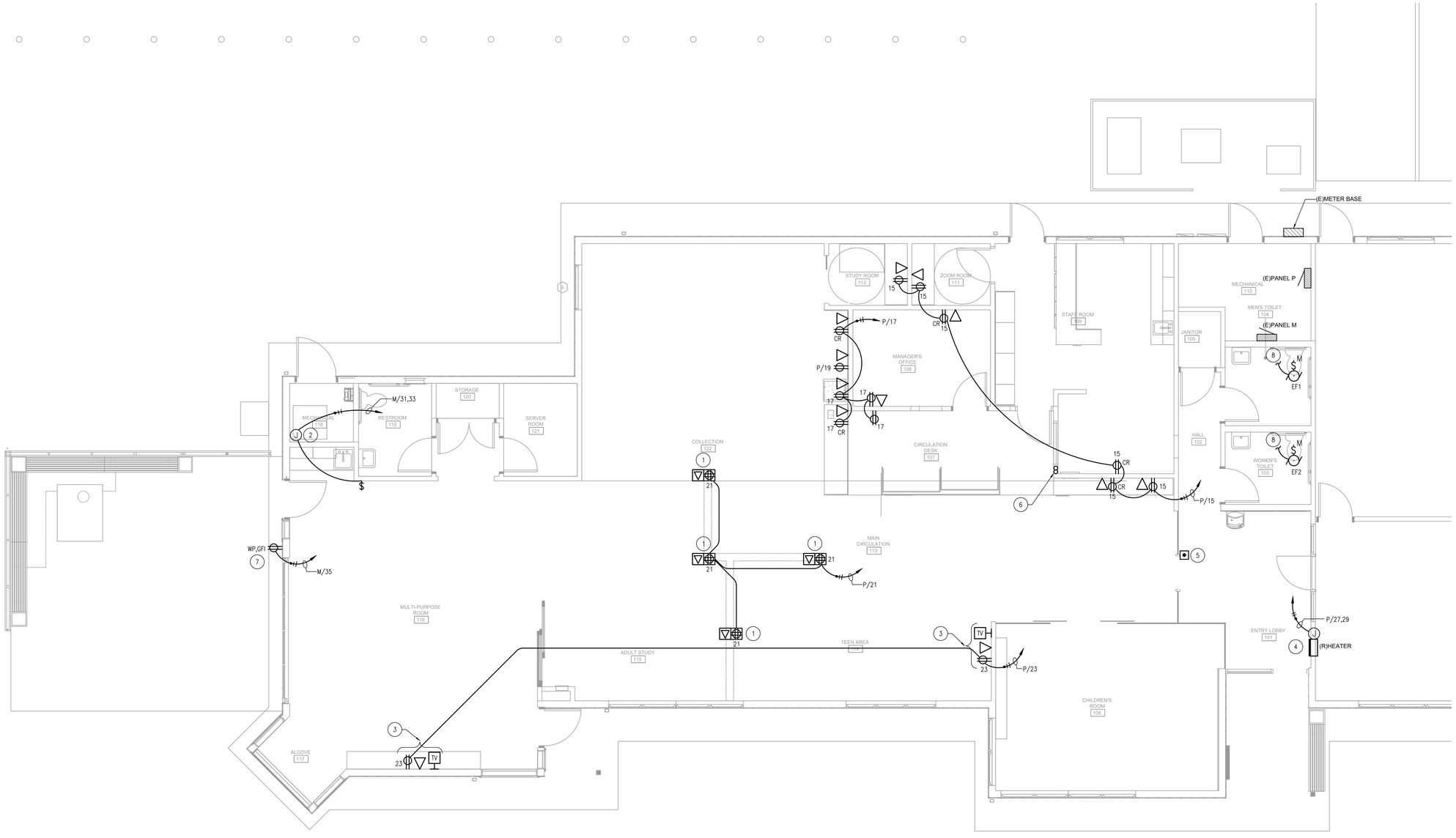
Attachment B

KEY NOTES:

1. ELECTRICAL CONTRACTOR SHALL CUT AND TRENCH FLOOR TO NEW FURNITURE FEED LOCATION. PROVIDE COMBINATION POWER/DATA FLOOR BOX 'ON-GRADE' RATED DEVICE WITH (4) DATA CONNECTIONS. FLOOR BOX MANUFACTURER WIREMOLD, MODEL 880CS3-1 OR EQUAL. COVER PLATE FINISH BY ARCHITECT. PROVIDE ALL NECESSARY COMPONENTS FOR COMPLETE INSTALLATION.
2. PROVIDE 208V, SINGLE PHASE ELECTRICAL CONNECTION TO MOTORIZED DOOR IN APPROXIMATE LOCATION SHOWN. PROVIDE CONDUIT ROUTING TO ACTUATOR SWITCH AS SHOWN.
3. PROVIDE RECESSED DUAL-GANG OUTLET FOR TV POWER AND (4) DATA CONNECTIONS. PROVIDE 3/4" C.O. FOR TV/DATA VENDOR UP WALL AND TERMINATE 6" ABOVE CEILING TILE.
4. PROVIDE ELECTRICAL CONNECTION TO RELOCATED ELECTRICAL HEATER. SEE SHEET E100 FOR MORE INFORMATION.
5. RELOCATE ADA DOOR ACTUATOR TO NEW LOCATION SHOWN. VERIFY WITH ARCHITECTURAL DRAWINGS FOR EXACT LOCATION.
6. EXISTING VERTICAL CONDUIT FEEDING EXISTING FLOOR BOXES SHALL BE PROTECTED FROM DAMAGE AND RELOCATED TO NEW WALL FRAMING LOCATION.
7. PROVIDE WEATHER RESISTANT, GFI RECEPTACLE WITH EXTRA-DUTY, LOCKABLE COVER FOR CONVENIENCE POWER.
8. CONNECT NEW EXHAUST FAN TO EXISTING CIRCUIT CURRENTLY SERVING REPLACED BATHROOM EXHAUST FAN.

SHEET NOTES:

1. ALL ELECTRICAL DEVICES SHOWN ARE EXISTING TO REMAIN U.O.N.
2. ALL ELECTRICAL FEEDER CONDUITS AND CONDUCTORS ARE EXISTING TO REMAIN.
3. ELECTRICAL PANELS ARE EXISTING TO REMAIN WITH MODIFIED LOADS.
4. NEW CONDUIT SHALL BE EMT WITH SET SCREW FITTINGS FOR INTERIOR APPLICATIONS.
5. NEW CONDUCTORS SHALL BE THWN-2/THHN-2 INSULATION, COPPER MATERIAL.
6. ALL NEW DATA CABLES SHALL BE CAT 6A SHIELDED CABLES.
7. POWER AND DATA MOUNTING HEIGHT TO BE COORDINATED WITH THE ARCHITECT.



1 FIRST FLOOR PLAN - POWER

SCALE: 1/4" = 1'-0"

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LEVEL ONE
POWER PLAN

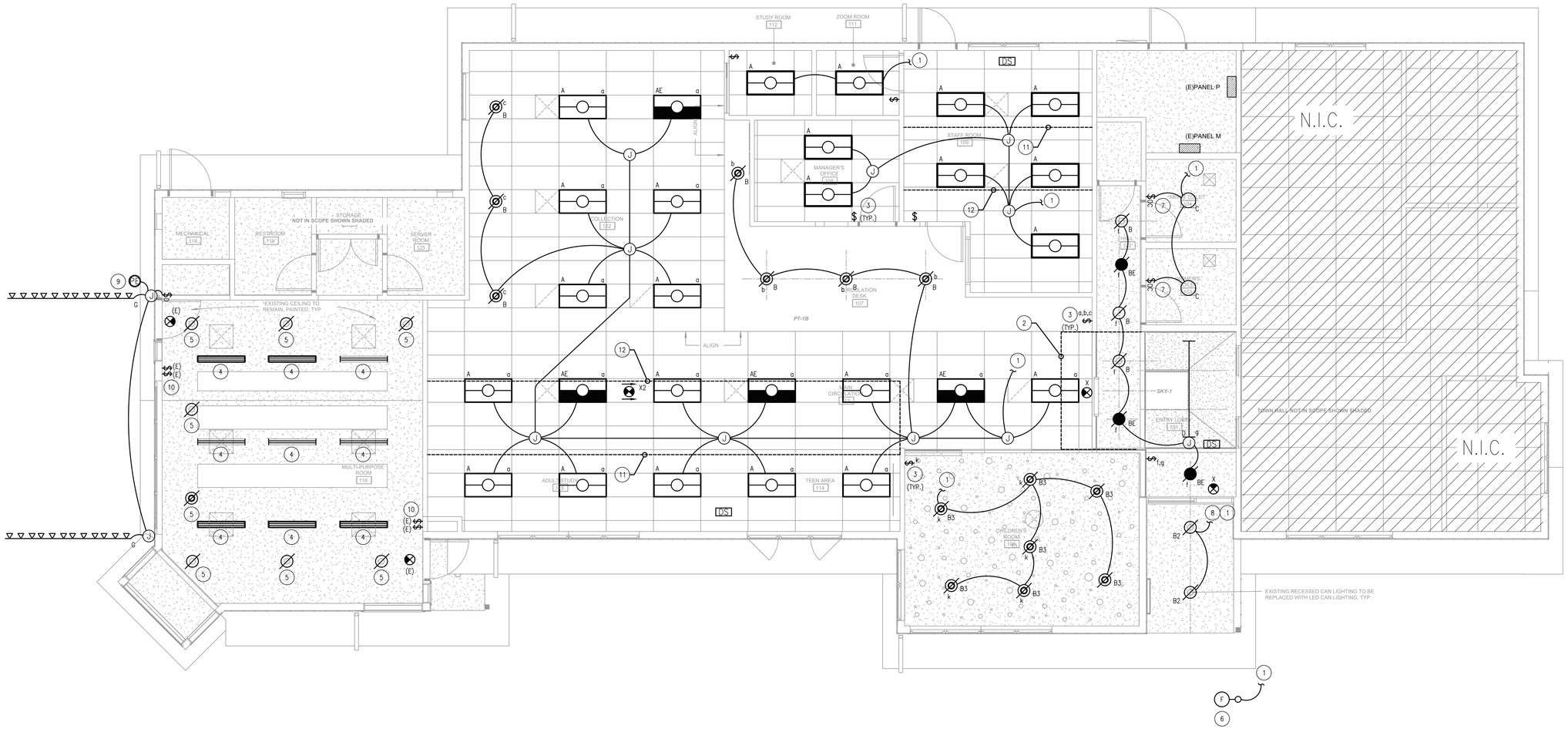
E200

KEY NOTES:

1. CONNECT NEW LIGHTS TO EXISTING LIGHTING CIRCUIT CURRENTLY SERVING THIS AREA.
2. PRIMARY TOPLIT AREA PER WSEC.
3. PROVIDE NLIGHT ENABLED DIMMING SWITCH FOR CONTROL OF LIGHTING IN THIS AREA.
4. RETROFIT EXISTING FLUORESCENT PENDANT MOUNT FIXTURE WITH (2) LED EQUIVALENT TUBES. PROVIDE 4000K TEMPERATURE AND REDUCED FIXTURE WATTAGE.
5. RETROFIT EXISTING DOWNLIGHT WITH LED EQUIVALENT BULBS. PROVIDE REDUCED FIXTURE WATTAGE.
6. NEW LED POLE MOUNTED LIGHT FIXTURE. REUSE EXISTING CIRCUIT FROM DEMOLISHED POLE MOUNT LIGHT FIXTURE. PROVIDE POLE AND CONCRETE BASE AS REQUIRED.
7. PROVIDE OCCUPANCY SENSOR/DIMMING SWITCH FOR CONTROL OF LIGHTING IN THIS AREA.
8. MAINTAIN CONNECTION TO EXISTING EXTERIOR PHOTOCELL.
9. PROVIDE DIMMING ROCKER SWITCH AND PHOTOCELL FOR NEW EXTERIOR STRING LIGHTING.
10. MAINTAIN EXISTING SWITCHING CONTROL TO LIGHT FIXTURES IN THIS AREA.
11. PRIMARY DAYLIT AREA PER WSEC.
12. SECONDARY DAYLIT AREA PER WSEC.

SHEET NOTES:

1. CONTRACTOR TO MAINTAIN CIRCUITRY CONTINUITY TO EXISTING SPACE OUTSIDE THIS SCOPE OF WORK.
2. SEE LUMINAIRE SCHEDULE ON SHEET E002 FOR ADDITIONAL LIGHTING REQUIREMENTS.
3. FIXTURES WITH EMERGENCY BATTERY BACKUPS AND EXIT SIGNS SHALL BE CONNECTED TO THE LIGHTING CIRCUIT SERVING THE NORMAL LIGHTING IN THE AREA AND TO BE CONNECTED AHEAD OF ANY LOCAL SWITCHES. ALL THESE FIXTURES TO BE EQUIPPED WITH A BATTERY SUITABLE RATING AND CAPACITY TO SUPPLY AND MAINTAIN THE FIXTURE LOAD FOR A MINIMUM PERIOD OF 90 MINUTES.
4. AREA CONSISTS OF EXPOSED CEILING PROVIDE EMT CONDUIT BACK TO PLENUM CEILING OR PANELBOARD WHERE REQUIRED.
5. SEE ARCHITECTURAL SHEETS FOR ADDITIONAL REQUIREMENTS.
6. PROVIDE CAT6 TO ALL NLIGHT ENABLED FIXTURES. SEE TYPICAL LIGHTING CONTROL DETAIL ON SHEET E002 FOR MORE INFORMATION.



1 FIRST FLOOR PLAN - LIGHTING

SCALE: 1/4" = 1'-0"

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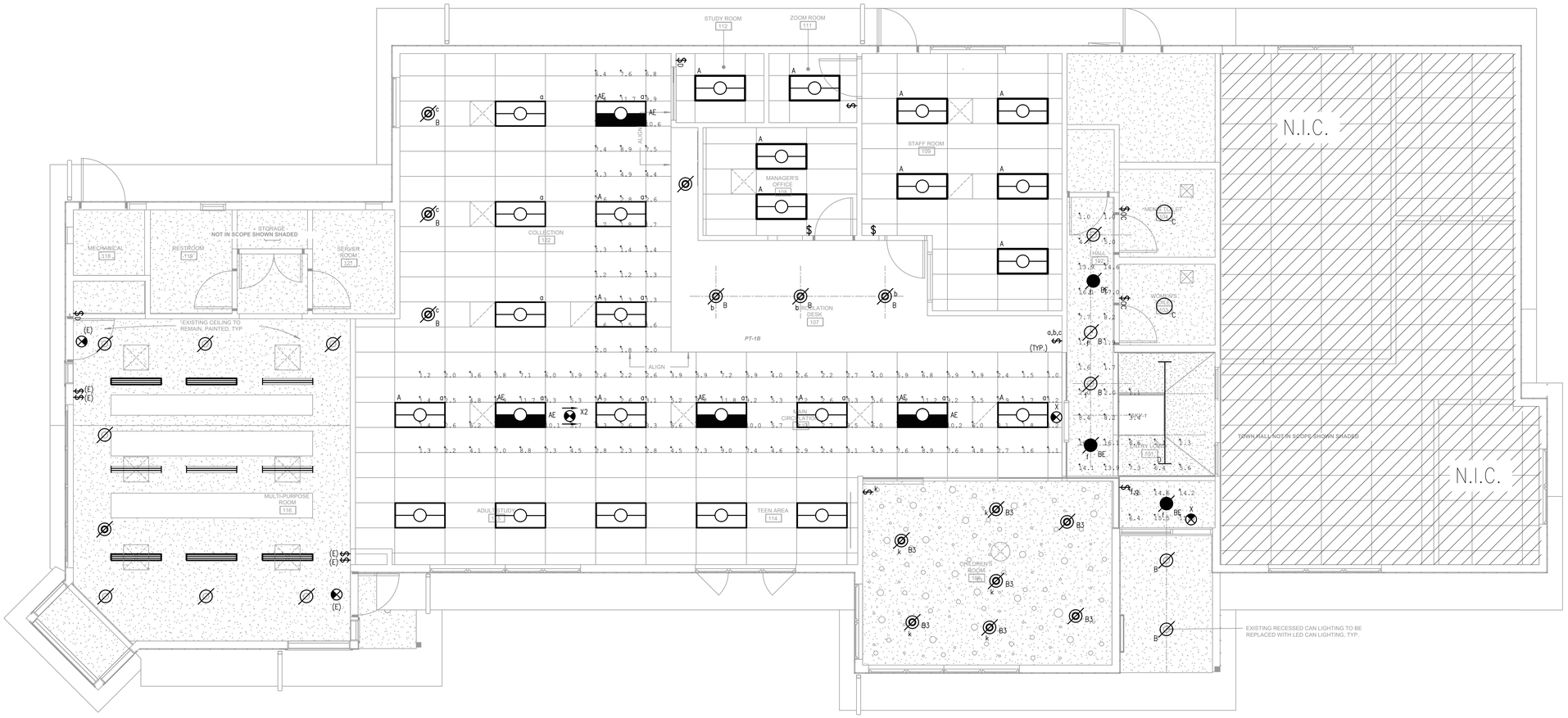
LEVEL ONE
LIGHTING PLAN

E300

Attachment B

SHEET NOTES:

1. VALUES SHOWN FOR EGRESS POINT BY POINT ARE IN FOOT-CANDLE MEASUREMENTS.
2. DO NOT SWITCH EXIT SIGN UNITS (ON CONTINUOUSLY).
3. THE MEANS OF EGRESS SHALL BE ILLUMINATED AT ALL TIMES BUILDING SPACE IS SERVED IN ACCORDANCE WITH WASHINGTON STATE BUILDING CODE.
4. MEANS OF EGRESS ILLUMINATION LEVEL SHALL BE NOT LESS THAN 1-FOOT CANDLE AT THE WALKING SURFACE AND EQUIPMENT MINIMUM 90-MINUTES BATTERY BACKUP.
5. ADDITIONAL ILLUMINATION EXIT SIGNS MAY BE REQUIRED BY THE FIRE DEPARTMENT TO ADEQUATELY INDICATE PATH OF EGRESS.



1 FIRST FLOOR PLAN - EGRESS LIGHTING

0 2' 4' 8'

SCALE: 1/4" = 1'-0"

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LEVEL ONE
EGRESS LIGHTING
PLAN

E400

PANEL NAME: M
LOCATION: MECH/ELEC 110
SHORT CIRCUIT RATING: 10K AIC
MOUNTING: SURFACE
NEMA RATING: 1

BUS RATING (AMP): 400 3 PHASE
VOLTAGE 120 / 208 4 WIRE
MAIN BKR: 400
FEED: TOP
NUMBER OF POLES: 42

	NO.	CIRCUIT DESCRIPTION	CB/PH	KVA	PH	KVA	CB/PH	CIRCUIT DESCRIPTION	NO.	
1	1	RECEPTS	20/1	0.90	A	0.72	20/1	RECEPTS	2	1
	3	RECEPTS	20/1	0.90	B	1.08	20/1	RECEPTS	4	
	5	RECEPTS	20/1	1.08	C	0.90	20/1	RECEPTS	6	
	7	RECEPTS	20/1	1.08	A	0.54	20/1	RECEPTS	8	
	9	RECEPTS	20/1	0.72	B	0.54	20/1	RECEPTS	10	
	11	RECEPTS	20/1	0.72	C	0.90	20/1	RECEPTS	12	
	13	RECEPTS	20/1	1.08	A	9.60	100/2	HP-1	14	
	15	RECEPTS	20/1	1.26	B	9.60			16	
	17	RECEPTS	20/1	1.26	C	1.20	20/1	EF-5	18	
	19	RECEPTS	20/1	1.44	A	0.72	20/1	RECEPTS	20	
	21	RECEPTS	20/1	1.26	B	0.90	20/1	RECEPTS	22	
	23	RECEPTS	20/1	0.90	C	0.70	20/1	LIGHTING	24	
	25	RECEPTS	20/1	0.90	A		20/1	SPARE	26	
	27	RECEPTS	20/1	0.90	B	1.50	20/2	DWH-1	28	1
	29	EF-4	20/1	1.00	C	1.50			30	
2	31	MOTORIZED PATIO GARAGE DOOR	20/2	0.80	A		20/1	SPARE	32	
	33			0.80	B		20/1	SPARE	34	
	35	RECEPTS CONV. PATIO	20/1	0.18	C		20/1	SPARE	36	
	37	SPACE			A	20.12	200/3	PANEL - P	38	3
	39	SPACE			B	19.27			40	
	41	SPACE			C	22.09			42	

LOAD	CON LD (KVA)	DEM FCT (%)	DEM LD (KVA)
SUB FEED	61.48	100%	61.48
LIGHTING	0.70	125%	0.88
RECEPT <10KVA	10.00	100%	10.00
RECEPT >10KVA	10.88	50%	5.44
MOTORS ALL	2.20	100%	2.20
LARGEST		25%	
HEATING			
COOLING	19.20	100%	19.20
KITCHEN		100%	
MISC. & COMP		100%	
MISC CONT.	4.60	125%	5.75

KVA/PHASE A:	37.90	CONNECTED LOAD IN KVA:	109
KVA/PHASE B:	38.73	DEMAND LOAD IN KVA:	105
KVA/PHASE C:	32.43	DEMAND IN AMPS:	291

SPECIAL INSTRUCTIONS:
NOTE:

PANEL NAME: P
LOCATION: MECH/ELEC 110
SHORT CIRCUIT RATING: 10K AIC
MOUNTING: SURFACE
NEMA RATING: 1

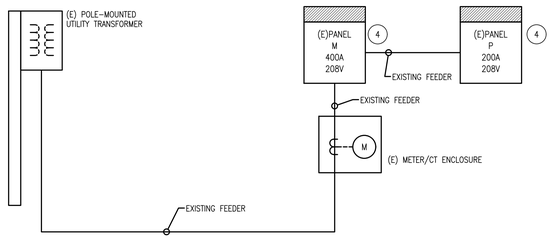
BUS RATING (AMP): 200 3 PHASE
VOLTAGE 120 / 208 4 WIRE
MAIN BKR: MLO
FEED: TOP
NUMBER OF POLES: 42

	NO.	CIRCUIT DESCRIPTION	CB/PH	KVA	PH	KVA	CB/PH	CIRCUIT DESCRIPTION	NO.	
1	1	LIGHTING	20/1	0.90	A	1.08	20/1	RECEPTS	2	1
	3	LIGHTING	20/1	0.90	B	1.08	20/1	RECEPTS	4	
	5	LIGHTING	20/1	1.10	C	1.08	20/1	RECEPTS	6	
	7	LIGHTING	20/1	1.10	A	0.54	20/1	RECEPTS	8	
	9	LIGHTING	20/1	0.80	B	0.54	20/1	RECEPTS	10	
	11	LIGHTING	20/1	0.80	C	0.90	20/1	RECEPTS	12	
	13	LIGHTING	20/1	0.75	A	0.90	20/1	RECEPTS	14	
2	15	RECEPTS - CENTRAL DESKS	20/1	1.08	B	0.90	20/1	RECEPTS	16	
	17	RECEPTS - PRINTER COUNTER	20/1	0.90	C	0.90	20/1	RECEPTS	18	
	19	COPIER	20/1	1.50	A	0.72	20/1	RECEPTS	20	
	21	FLOOR BOX -MAIN AREA	20/1	1.44	B	0.90	20/1	RECEPTS	22	
	23	TV - MAIN AREA	20/1	0.65	C	0.90	20/1	RECEPTS	24	
	25	SPARE	20/1		A	1.08	20/1	RECEPTS	26	
5	27	HEATER - ENTRY	20/2	1.50	B	1.08	20/1	RECEPTS	28	
	29			1.50	C	1.26	20/1	RECEPTS	30	
1	31	ACU-1 (INDOOR)	50/3	3.90	A	1.25	20/2	WATER HEATER	32	
	33			3.90	B	1.25			34	
	35			3.90	C	4.30	50/2	ACU-2 (OUTDOOR)	36	
	37	ACU-1 (INDOOR)	50/3	2.10	A	4.30			38	
	39			2.10	B	1.80	50/2	ACU-2 (OUTDOOR)	40	
	41			2.10	C	1.80			42	

LOAD	CON LD (KVA)	DEM FCT (%)	DEM LD (KVA)
SUB FEED		100%	
LIGHTING	6.35	125%	7.94
RECEPT <10KVA	10.00	100%	10.00
RECEPT >10KVA	8.78	50%	4.39
MOTORS ALL		100%	
LARGEST		25%	
HEATING	3.00	100%	3.00
COOLING	30.20	100%	30.20
KITCHEN		100%	
MISC. & COMP	3.15	100%	3.15
MISC CONT.		125%	

KVA/PHASE A:	20.12	CONNECTED LOAD IN KVA:	62
KVA/PHASE B:	19.27	DEMAND LOAD IN KVA:	59
KVA/PHASE C:	22.09	DEMAND IN AMPS:	163

SPECIAL INSTRUCTIONS:
NOTE:



SINGLE LINE DIAGRAM
SCALE: NO SCARE

SHEET NOTES:

1. ALL ELECTRICAL DEVICES SHOWN ARE EXISTING TO REMAIN U.O.N.
2. ALL ELECTRICAL FEEDER CONDUITS AND CONDUCTORS ARE EXISTING TO REMAIN.
3. ELECTRICAL PANELS ARE EXISTING TO REMAIN WITH MODIFIED LOADS.
4. NEW CONDUIT SHALL BE EMT WITH SET SCREW FITTINGS FOR INTERIOR APPLICATIONS ARE RAIN TIGHT COMPRESSION FITTINGS FOR EXTERIOR APPLICATIONS.
5. NEW CONDUCTORS SHALL BE THWN-2/THHN-2 INSULATION, COPPER MATERIAL.

KEY NOTES:

1. EXISTING BREAKER WITH EXISTING LOAD TO REMAIN.
2. PROVIDE NEW CIRCUIT BREAKER IN SPACE CIRCUIT POSITION. NEW CIRCUIT BREAKER TO MATCH EXISTING MANUFACTURER AND AIC VALUE.
3. EXISTING BREAKER WITH NEW LOAD.
4. REVISED LOAD TO EXISTING ELECTRICAL PANEL FOR NEW TENANT IMPROVEMENT WORK.
5. CIRCUIT TO BE RELOCATED AND REUSED FOR SCOPE OF WORK.

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ELECTRICAL
SINGLE-LINE AND
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E500