NEGAUNEE PUBLIC SCHOOLS
NEGAUNEE, MI 49866

2020 BOND PROJECTS - MIDDLE SCHOOL

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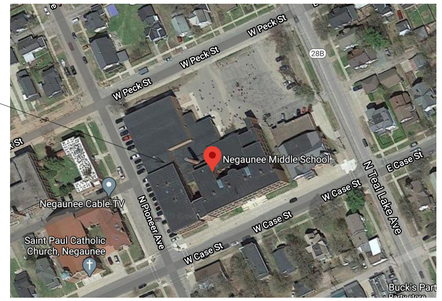


IDI PROJECT NO. 20-907

ABBREVIATIONS

CIVIL

ABUT.	ABUTMENTS
AGG.BSE.CSE.	AGGREGATE BASE COURSE
ASPH.	ASPHALT
B TO B	BACK TO BACK OF CURB
B/C	BACK OF CURB
BIT.	BITUMINOUS
B.M.	BENCH MARK
BR.	BRIDGE
B.S.	BACKSLOPE
C	CENTERLINE
C.	CUT (PROFILE ONLY)
C.B.	CATCH BASIN
C–C	CENTER TO CENTER
CEN.	CENTER
C & G	CURB AND GUTTER
CIP	COMPACTED IN PLACE
C.I.P.	CAST IRON PIPE
C.M.P.	CORRUGATED METAL PIPE
C.O.	SANITARY SEWER CLEANOUT
CO.	COUNTY
COMB.	COMBINED
COMP.	COMPACTED
CONC.	CONCRETE
CONST.	CONSTRUCT
COR.	CORNER
CORR.	CORRUGATED
CR.	CREEK
C.S.P.	CORRUGATED STEEL PIPE
CULV.	CULVERT
CYD	CUBIC YARDS
D.	DEGREE OF CURVE
DEFL.	DEFLECTION
DEP.	DEPENDENT DITCH
DET.	DETAIL
D.I.P.	DUCTILE IRON PIPE
DR.	DRIVE
DWY.	DRIVEWAY
E.	EXTERNAL TO CURVE
E.G.	EARTHGRADE
EL.	ELEVATION
ELEC.	ELECTRIC
EMB.	EMBANKMENT
ENG.	ENGINEER
ENC.	ENCASED
EXIST.	EXISTING
EXC.	EXCAVATION
EXP.	EXPANSION
F.	FILL (PROFILE ONLY)
F.A.	FEDERAL AID
F.B.	FLAT BOTTOM
F/C	FACE CURB
F–F	FACE TO FACE OF CURB
FL.	FLOOR
F.L.	FLOW LINE
F.S.	FORE SLOPE
FT.	FOOT/FEET
FTG.	FOOTING
G.D.E.	GRADE
G.I.	GRADE INSPECTION
G.S.	GRADE SEPARATION
G.R.	GUARD RAIL
HDW.	HEADWALL
H.W.	HIGH WATER
HWY.	HIGHWAY
HYD.	HYDRANT
I.E.	INVERT ELEVATION
I.G.L.D.	INTERNATIONAL GREAT LAKES DATUM
I.L.	INLET
IN	INCH
IND.	INDEPENDENT DITCH
INSP.	INSPECTION (INSPECTOR)
INTER.	INTERSECTION
L.	LENGTH OF CURVE
LB.	POUND
LEV.CSE.	LEVEL COURSE
LFT	LINEAL FEET
L.M.	LOOSE MEASURE
L.W.	LOW WATER
MAINT.	MAINTENANCE
M.H.	MANHOLE
MON.	MONUMENT
N.G.V.D.	NATIONAL GEODETIC VERTICAL DATUM
N.W.	NORMAL WATER
O.H.	OVERHEAD
PAV'T.	PAVEMENT
P.C.	POINT OF CURVATURE
P.C.C.	POINT OF COMPOUND CURVATURE
P.I.	POINT OF INTERSECTION
P.L.	PROPERTY LINE
P.P.	POWER POLE
P.O.T.	POINT OF TANGENT
P.R.C.	POINT REVERSE CURVATURE
PROJ.	PROJECT
PROP.	PROPERTY
PROP.	PROPOSED
P.T.	POINT OF TANGENCY
P.V.C.	POINT VERTICAL CURVATURE
P.V.I.	POINT VERTICAL INTERSECTION
P.V.T.	POINT VERTICAL TANGENCY
R.B.	ROUND BOTTOM
R.C.P.	REINFORCED CONCRETE PIPE
RDY.	ROADWAY
R.E.C.P.	REINFORCE ELLIPTICAL CONCRETE PIPE
REINF.	REINFORCING OR REINFORCEMENT
ROW	RIGHT OF WAY
R.R.	RAILROAD
SALV.	SALVAGED
SAN.	SANITARY
SEC.	SECTION (LAND SURVEY)
SEW.	SEWER
S.G.	SUBGRADE
SHR.	SHRINKAGE
SHLD.	SHOULDER
SIG.	SIGNAL
SPEC.	SPECIAL
SPEC.	SPECIFICATIONS
SPEC.PROV.	SPECIAL PROVISIONS
SAN.	SANITARY SEWER
STD.SPEC.	STANDARD SPECIFICATIONS
ST.	STORM SEWER
SUB.	SUBBASE
SUPER ELEV.	SUPERELEVATION
SURF.	SURFACE
S.W.	SIDEWALK
T.	TANGENT
T/C	TOP CURB
T.CSE	TOP COURSE
T.L.	TRUNK LINE
TRANS.	TRANSMISSION
TWP.	TOWNSHIP
U.C.	UNDERCLEARANCE
U.G.	UNDERGROUND
UNIF.	UNIFORM
V.C.	VERTICAL CURVE
V.F.	VERTICAL FEET
VIT.	VITRIFIED
W.M.	WATER MAIN
W.S.	WATER SERVICE

ARCHITECTURAL

A.B.	ANCHOR BOLT
A/C	AIR CONDITIONING
ADD	ADDENDUM
ADH	ADHESIVE
ADJT	ADJUSTABLE
AFF	ABOVE FINISHED FLOOR
AGG	AGGREGATE
AL	ALUMINUM
ALT	ALTERNATE
ANOD	ANODIZED
ARCH	ARCHITECTURAL
ASB	ASBESTOS
ASPH.	ASPHALT
AUTO	AUTOMATIC
AVE.	AVENUE
AV.	AVERAGE
BD	BOARD
BF	BOARD FEET
BIT	BITUMINOUS
BLDG.	BUILDING
BLK(G)	BLOCKING
BM	BEAM
BOT	BOTTOM
BRG	BEARING
BRK	BRICK
BRZ	BRONZE
BS	BOTH SIDES
BSMT	BASEMENT
BTWN	BETWEEN
BUR	BUILT UP ROOFING
BVL	BEVELED
BW	BOTH WAYS
CAB	CABINET
C.B.	CATCH BASIN
CEM	CEMENT
CER	CERAMIC
CFM	CUBIC FEET PER MINUTE
CFS	CUBIC FEET PER SECOND
CFT	CUBIC FEET
CHAM	CHAMFER
C.I.	CAST IRON
CIR	CIRCLE
CIRC	CIRCUMFERENCE
CJ	CONTROL JOINT
CLG	CEILING
CLR	CLEAR
CK(G)	CAULKING
CMU	CONCRETE MASONRY UNIT
CNTR	COUNTER
C.O.	CLEANOUT
COL	COLUMN
COMB	COMBINATION
CONC.	CONCRETE
CONN.	CONNECTION
CONST.	CONSTRUCTION
CONT.	CONTINUOUS
CONTR	CONTRACTOR
CORG	CORRUGATED
CORR	CORRIDOR
CRS	COURSE(S)
CPT	CARPET(ED)
CSMT	CASEMENT
CT	CERAMIC TILE
CTR	CENTER
CTSK	COUNTERSUNK SCREW
CYD	CUBIC YARD
DBL	DOUBLE
DEM	DEMOLISH
DEPT.	DEPARTMENT
DET.	DETAIL
D.F.	DRINKING FOUNTAIN
D.H.	DOUBLE HUNG
DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DISP	DISPENSER
DIV.	DIVISION
DL	DEAD LOAD
D.O.	DOOR OPENING
DO	DITTO
DP	DAMPPROOFING
DR	DRIVE
DRWG	DRAWING
DT	DRAIN TILE
DW	DUMBWAITER
DWR	DRAWER
E	EAST
EA	EACH
E.C.	ELECTRICAL CONTRACTOR
E.F.	EACH FACE
E.J.	EXPANSION JOINT
ELEC	ELECTRICAL
ELEV	ELEVATOR
EMER	EMERGENCY
ENCL	ENCLOSURE
ENGR	ENGINEER
E.O.	ELECTRICAL OUTLET
EQ	EQUAL
EQUIP	EQUIPMENT
ESC	ESCALATOR
EST	ESTIMATE
E.W.	EACH WAY
EWC	ELECTRIC WATER COOLER
EXC	EXCAVATE
EXH	EXHAUST
EXIST	EXISTING
EXP	EXPANSION
EXPO	EXPOSED
EXS	EXISTING STRONG
EXT	EXTERIOR
F.A.	FIRE ALARM
F.B.	FACE BRICK
FBO	FINISHING BY OTHERS
F.D.	FLOOR DRAIN
F.E.	FIRE EXTINGUISHER
F.E.C.	FIRE EXTINGUISHER CABINET
F.F.L.	FINISHED FLOOR LINE
F.H.C.	FIRE HOSE CABINET
FOC	FACE OF CABINET
F.O.F.	FACE OF FINISH
FOM	FACE OF MASONRY
F.O.S.	FACE OF STUDS
FDN	FOUNDATION
FIN	FINISH
FLR	FLOOR
FLASH	FLASHING
FLUOR	FLUORESCENT
FP	FIREPROOF
FR	FRAME(D)(ING)
FS	FULL SIZE
FT	FOOT or FEET
FTG	FOOTING
FURR	FURR(ING)(ED)
FUT.	FUTURE
G	GUTTER
G.B.	GRAB BAR
G.C.	GENERAL CONTRACTOR
G.L.	GIRT LINE
GA	GAUGE
GAL	GALLON
GALV	GALVANIZED
GL	GLASS
GLB	GLASS BLOCK
GND	GROUND
GR	GRADE
GST	GLAZED STRUCTURAL TILE
GVL	GRAVEL
GYP	GYPSUM
HB	HOSEBIB
HBD	HARDBOARD
H.C.	HOLLOW CORE
H.M.	HOLLOW METAL
HDR	HEADER
HDW	HARDWARE
HK	HOOK
HORIZ	HORIZONTAL
H.R.	HANDRAIL
HR	HOUR
HT	HEIGHT
HTG	HEATING
HVAC	HEATING,VENTILATION,A/C
HWD	HARDWOOD
HWH	HOT WATER HEATER
I.D.	INSIDE DIAMETER
IN	INCHES
INCL	INCLUDE
INSUL	INSULATION
INT	INTERIOR
INTM	INTERMEDIATE
INV	INVERT
JAN	JANITOR
JC	JANITOR'S CLOSET
JST	JOIST
JT	JOINT
KIT	KITCHEN
KO	KNOCKOUT
KPL	KICKPLATE
LAB	LABORATORY
LAD	LADDER
LAM	LAMINATE
LAV	LAVATORY
LB	LOG BOLT
lb	POUND
LBL	LABEL
LH	LEFT HAND
LIN	LINEAR
LKR	LOCKER
L.L.	LIVE LOAD
L.O.A.	LENGTH OVERALL
LP	LIGHT PROOF
LPT	LOW POINT
L.S.	LICENSED SURVEYOR
LT	LIGHT
LTG	LIGHTING
LTL	LINTEL
LVR	LOUVER
LW	LIGHTWEIGHT
LWC	LIGHTWEIGHT CONCRETE
MAS	MASONRY
MAT	MATERIAL
MAX	MAXIMUM
MBR	MEMBER
M.C.	MECHANICAL CONTRACTOR
MECH	MECHANICAL
MED	MEDIUM
MED	MEDICINE
MEM	MEMBRANE
MET	METAL
MEZZ	MEZZANINE
MFG	MANUFACTURING
MFR	MANUFACTURER
M.H.	MANHOLE
MIN	MINIMUM
MIR	MIRROR
MISC	MISCELLANEOUS
M.O.	MASONRY OPENING
MOD	MODULAR
MOV	MOVABLE
MSRY	MASONRY
MTD	MOUNTED
MUL	MULLION
N	NORTH
NAT	NATURAL
N.I.C.	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NR	NOISE REDUCTION
NRC	NOISE REDUCTION COEFFICIENT
N.T.S.	NOT TO SCALE
O.A.	OVERALL
OBS	OBSCURE
O.C.	ON CENTER
O.D.	OUTSIDE DIAMETER
OFF	OFFICE
OH	OVERHEAD
OP	OPAQUE
OPG	OPENING
OPH	OPPOSITE HAND
OPP.	OPPOSITE
OPS	OPPOSITE SURFACE
PAR	PARALLEL
PART	PARTITION
PART BD.	PARTICLE BOARD
PB	PANIC BAR
PCC	PRECAST CONCRETE
pcf	POUNDS PER CUBIC FOOT
PCS	PIECES
PED	PEDESTAL
PERF	PERFORATE(D)
PERI	PERIMETER
PERM	PERMINATE
PERP	PERPENDICULAR
PFB	PREFABRICATE(D)
PFN	PREFINISHED
PG	PLATE GLASS
PK(G)	PARKING
P.L.	PROPERTY LINE
PL	PLATE
P.LAM.	PLASTIC LAMINATE
PLAS	PLASTER
PLF	POUNDS PER LINEAL FEET
PLYWD	PLYWOOD
PNL	PANEL
PNT	PAINT(ED)
PR	PAIR
PRF	PREFORMED
psf	POUNDS PER SQUARE FOOT
psi	POUNDS PER SQUARE INCH
PT	POINT
P.T.D.	PAPER TOWEL DISPENSER
P.T.R.	PAPER TOWEL RECEPTACLE
PVMT	PAVEMENT
PWR	POWER
Q.T.	QUARRY TILE
R	RISER
RAD	RADIUS
R.B.	RUBBER BASE
R.D.	ROOF DRAIN
REF	REFERENCE
REFR	REFRIGERATOR
REINF	REINFORCED
REQ'D	REQUIRED
RES	RESILIENT
RET	RETURN
REV	REVISION
RFH	ROOF HATCH
RFG	ROOFING
RH	RIGHT HAND
RM	ROOM
R.O.	ROUGH OPENING
R.O.W.	RIGHT OF WAY
R.R.	RAILROAD
RVS	REVERSE SIDE
S	SOUTH
S.C.	SOLID CORE
SCH	SCHEDULE
SCT	STRUCTURAL CLAY TILE
S.D.	STORM DRAIN
SECT.	SECTION
SH	SHELF
SHO	SHOR(ING)(ED)
SHT	SHEET
SHTH	SHEATHING
SHWR	SHOWER
SIM	SIMILAR
SNT	SEALANT
SP	SOUNDPROOF
SPEC	SPECIFICATION
SPKR	SPEAKER
SPRKLR	SPRINKLER
SQ	SQUARE
S.S.	STAINLESS STEEL
SSR	SERVICE SINK
STA	STATION
STD	STANDARD
STG	SEATING
STL	STEEL
STOR	STORAGE
STRUCT.	STRUCTURAL
SUSP	SUSPENDED
SYM	SYMMETRICAL
SYS	SYSTEM
T.B.	TOWEL BAR
T.CONC.	TOP OF CONCRETE
TEL	TELEPHONE
TER	TERRAZZO
T&G	TONGUE AND GROOVE
THK	THICK
THR	THRESHOLD
TOL	TOLERANCE
TPD	TOILET PAPER DISPENSER
TPTN	TOILET PARTITION
T.PVMT	TOP OF PAVEMENT
TR	TREAD
T.SLAB	TOP OF SLAB
T.V.	TELEVISION
T.WALL	TOP OF WALL
TYP	TYPICAL
U.B.C.	UNIFORM BUILDING CODE
U.L.	UNDERWRITERS LABORATORIES
UNF	UNFINISHED
U.N.O.	UNLESS NOTED OTHERWISE
UR	URINAL
V.A.T.	VINYL ASBESTOS TILE
V.B.	VINYL BASE
VERT.	VERTICAL
VEST.	VESTIBULE
VNR	VENEER
VT	VINYL TILE
W.	WEST
W/	WITH
W.C.	WATER CLOSET
WD.	WOOD
WD	WOOD BASE
WGT	WEIGHT
W.H.	WALL HUNG
WI	WROUGHT IRON
WIN	WINDOW
W.M.	WIRE MESH
W/O	WITHOUT
WP.	WATERPROOF
WPT	WORKING POINT
WSCT.	WAINSCOT
W.W.F.	WELDED WIRE FABRIC

STRUCTURAL

ARCH	ARCHITECTURAL
B/	BOTTOM OF
BIT	BITUMINOUS
BM	BEAM
BRDG	BRIDGING
BRG	BEARING
C.J.	CONTROL/CONSTRUCTION JOINT
CANT	CANTILEVER
℄	CENTERLINE
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT(S)
COL	COLUMN
CONC	CONC
CONN	CONNECTION
CONT	CONTINUOUS
COORD	COORDINATE
db	BAR DIAMETER
ø	DIAMETER
DCA	DRILLED IN CONCRETE ANCHOR
DEMO	DEMOLISH/DEMOLITION
DIA	DIAMETER
DL	DEAD LOAD
DWL	DOWEL
E.F.	EACH FACE
E.W.	EACH WAY
EA	EACH
EL	ELEVATION
ELEC	ELECTRICAL
EMBED	EMBEDDED
EQ	EQUAL
EXIST	EXISTING
FIN	FINISH
FLR	FLOOR
FND	FOUNDATION
FS	FAR SIDE
FTG	FOOTING
GA	GAGE
GALV	GALVANIZED
HK	HOOK
HORIZ	HORIZONTAL
I.R.	INSIDE RADIUS
INSUL	INSULATION
ISOL	ISOLATION
JG	JOIST GIRDER
JNT	JOINT
K	KIP(S) (1 KIP = 1000 lbs)
LL	LIVE LOAD
LLBB	LONG LEGS BACK TO BACK
LLH	LONG LEG(S) HORIZONTAL
LLV	LONG LEG(S) VERTICAL
LOCS	LOCATIONS
MAS	MASONRY
MECH	MECHANICAL
MTL	METAL
NIC	NOT IN CONTRACT
NS	NEAR SIDE
O.C.	ON CENTER
O.H.	OPPOSITE HAND
O.R.	OUTSIDE RADIUS
OPNG	OPENING
PC	PIECE
P	PLATE
PREFAB	PREFABRICATED
PSI	POUNDS PER SQUARE INCH
R	RADIUS
REBAR	REINFORCING BAR
REINF	REINFORCE(D) (ING)
REQ'D	REQUIRED
SCHED	SCHEDULE
SIM	SIMILAR
SLBB	SHORT LEGS BACK TO BACK
SP	SPACE(D)
STD	STANDARD
STRUCT	STRUCTURAL
T&B	TOP AND BOTTOM
T/	TOP OF
T/S	TOP OF STEEL
TS	TUBE STEEL
TYP	TYPICAL
U.N.	UNLESS NOTED
USGS	UNITED STATES GEOLOGICAL SURVEY
VERT	VERTICAL
W.P.	WORK POINT
W/	WITH
WWF	WELDED WIRE FABRIC

MECHANICAL

AFF	ABOVE FINISH FLOOR
AP	ACCESS PANEL
AV	AIR VENT
B.A.C.	BUILDING AUTOMATED CONTROLS
BC	BALANCING COCK
BD	BALANCING DAMPER
BT	BATHTUB
C.	COMMON
CO	CLEANOUT
CV	CONTROL VALVE
DF	DRINKING FOUNTAIN
DG	DOOR GRILLE
E.C.	ELECTRICAL CONTRACTOR
EAT	ENTERING AIR TEMPERATURE
EWC	ELECTRIC WATER COOLER
EWT	ENTERING WATER TEMPERATURE
FA	FRESH AIR
FHC	FIRE HOSE CABINET
G.C.	GENERAL CONTRACTOR
IE	INVERT ELEVATION
L	LAVATORY
LAT	LEAVING AIR TEMPERATURE
LWT	LEAVING WATER TEMPERATURE
MA	MIXED AIR
MB	MOP BASIN
M.C.	MECHANICAL CONTRACTOR
N.C.	NORMALLY CLOSED
N.O.	NORMALLY OPEN
OTCS	OPEN TO CEILING SYSTEM
RA	RETURN AIR
RD	ROOF DRAIN
S	SINK
SA	SHOCK ABSORBER
SH	SHOWER
SS	SERVICE SINK
TCC	TEMP CONTROL CENTER
TP	TEMP & PRESSURE TEST POINT
U	URINAL
U.C. 1"	UNDERCUT DOOR 1"
VTR	VENT THROUGH ROOF
WC	WATER CLOSET
WF	WASH FOUNTAIN

ELECTRICAL

AC	ALTERNATING CURRENT
AFF	ABOVE FINISH FLOOR
AFFF	AQUEOUS FILM FORMING FOAM
AHU	AIR HANDLING UNIT
A/C	AMPS INTERRUPTING CAPACITY
AL	ALUMINUM
ALT	ALTERNATE
AMP, A	AMPERE
APPD	APPROVED
APPROX	APPROXIMATE
ARCH	ARCHITECTURAL or ARCHITECT
AUTO	AUTOMATIC
AWG	AMERICAN WIRE GAUGE
BD or BRD	BOARD
BTU	BRITISH THERMAL UNIT
BTUH	BTU PER HOUR
C or COND.	CONDUIT
CCT	CIRCUIT
CCT BKR	CIRCUIT BREAKER
CLG	CEILING
CNTL	CONTROL
COMB	COMBINATION
CONN	CONNECTION
CONSTR	CONSTRUCTION
CORR	CORRIDOR
CPL or ~	CYCLES PER SECOND
DC	DIRECT CURRENT
DEG	DEGREE
DET	DETAIL
DEV	DEVICES
DF	DRINKING FOUNTAIN
DIA or	DIAMETER
DISC	DISCONNECT
DIST	DISTRIBUTION
DIV	DIVISION
DWG	DRAWING
EF	EXHAUST FAN
ELEC	ELECTRIC or ELECTRICAL
EMER	EMERGENCY
ENCL	ENCLOSURE
EP	EXPLOSION PROOF
EQUIP	EQUIPMENT
EST	ESTIMATE
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
EXIST	EXISTING
EXP	EXPOSED
EXPL	EXPLOSION
EXT	EXTERIOR
FC	FOOT CANDLE
FDN	FOUNDATION
DIX	FIXTURE
FL or FLR	FLOOR
FLA	FULL LOAD AMPS
FLEX	FLEXIBLE
FLUOR	FLUORESCENT
FP	FIRE PROTECTION
GA	GAGE or GAUGE
GFI	GROUND FAULT INTERRUPTER
GND or GRND	GROUND
GOVT	GOVERNMENT
HP	HORSE POWER
HPS	HIGH PRESSURE SODIUM
HT	HEIGHT
IC	INTERCOM
ID	INSIDE DIAMETER
IES	ILLUMINATING ENGINEERING SOCIETY
INCAN	INCANDESCENT
JB	JUNCTION BOX
JCT	JUNCTION
K	KEY
KV	KILOVOLTS
KVA	KILOVOLT AMPERES
KVAR	KILOVOLT AMPERES REACTIVE
KW	KILOWATT
L	LUMEN
LD	LOAD
LDG	LOADING
LT	LIGHT
LTG	LIGHTING
MCA	MINIMUM CIRCUIT AMPS
MCM	THOUSAND CIRCULAR MILLS
MECH	MECHANICAL
MET	METAL
MFG	MANUFACTURING
MFF	MANUFACTURE
MG	MOTOR GENERATOR
MG	METAL HALIDE
MIN	MINIMUM
MLO	MAIN LUGS ONLY
MO	MOTOR
MOCP	MAXIMUM OVERCURRENT PROTECTION
MTD	MOUNTED
MV	MERCURY VAPOR
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRIC CODE
NEMA	NATIONAL ELEC MANUFACTURERS ASSOC
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
NO	NUMBER
NO	NORMALLY OPEN
OD	OUTSIDE DIAMETER
OH	OVERHEAD
OPNG	OPENING
OPS	OPERATIONS
P	PUMP
P	POLE
PA	PUBLIC ADDRESS
PBS	PUSH BUTTON STATION
PC	PHOTOCELL
PH	PHASE
PNL	PANEL
P.P.M.	PARTS PER MILLION
PR	PAIR
PRELIM	PRELIMINARY
PROJ	PROJECT
PWR	POWER
R or RSR	RISER
RCVR	RECEIVER
RECP	RECEPTACLE
RECEPT	RECEPTACLE
REFR	REFRIGERATOR
REM	REMOVABLE
REV	REVISIONS
RGE	RANGE
RLA	RATED LOAD AMPS
RM	ROOM
R.P.M.	REVOLUTIONS PER MINUTE
SCH	SCHEDULE
SHT	SHEET
SPEC	SPECIFICATIONS
SPKR	SPEAKER
STD	STANDARD
SURF	SURFACE
SUSP	SUSPENDED
SW	SWITCH
SWBD	SWITCHBOARD
TC	TIMECLOCK
TEL	TELEPHONE
TEMP	TEMPERATURE
TEMP	TEMPORARY
TERM	TERMINAL
TG;L	TOGGLE
TRANSF	TRANSFORMER
TSTAT	THERMOSTAT
TV	TELEVISION
TYP	TYPICAL
UG	UNDERGROUND
UH	UNIT HEATER
UL	UNDERWRITERS LABORATORIES
UON	UNLESS OTHERWISE NOTED
UT	UTILITY
UTIL CO	UTILITY COMPANY
V	VOLT
W	WIRE
W/	WITH
WHM	WATTHOUR METER
W/O	WITHOUT
WP	WEATHER PROOF
XFMR	TRANSFORMER

MECHANICAL SYMBOL LEGEND

CONDENSATE OR EQUIPMENT DRAIN	— D —
CONDENSER SUPPLY	— CS —
CONDENSER RETURN	— CR —
REFRIGERANT LIQUID	— RL —
REFRIGERANT SUCTION	— RS —
LOW PRESSURE STEAM SUPPLY	
LOW PRESSURE STEAM RETURN	
MEDIUM PRESSURE STEAM SUPPLY	
MEDIUM PRESSURE STEAM RETURN	
HIGH PRESSURE STEAM SUPPLY	
HIGH PRESSURE STEAM RETURN	
INDICATION OF FLOW DIRECTION	
INDICATES PITCH DOWN	
PIPE ANCHORS	
PIPE GUIDES	
STORM SEWER LINES	
SANITARY VENT	— V —
COLD WATER	
HOT WATER	
HOT WATER CIRCULATING	
HOT WATER SUPPLY	— HWS —
HOT WATER RETURN	— HWR —
CHILLED WATER SUPPLY	— CWS —
CHILLED WATER RETURN	— CWR —
FIRE SPRINKLER LINE	— F —
EXPANSION TANK LINE	— XL —
GAS	— G —
COMPRESSED AIR	— CA —
SANITARY SEWER LINES	

BUTTERFLY VALVE

GLOBE VALVE

GATE VALVE

BALL VALVE

CHECK VALVE

PLUG VALVE

THERMOSTAT / TEMP. SENSOR

HUMIDISTAT / HUMIDITY SENSOR

1–HR FIRE DAMPER

2–HR FIRE DAMPER

PRESSURE GAGE

THERMOMETER

DOOR GRILLE — DG

UNION

PRESSURE REDUCING VALVE

SAFETY RELIEF VALVE

UNDERCUT DOOR 1" — UC 1"

AUTOMATIC AIR VENT

GRILL, REGISTER, DIFFUSER — SIZE / CFM

PLUMBER RISER DIAGRAM

RADIATION — TYPE; LIN. FT. ELEMENT

MANUAL AIR VENT

FLEXIBLE PIPE CONNECTOR

HOSE END VALVE

BALANCING COCK

AUTOMATIC CONTROL VALVE

3–WAY CONTROL VALVE

STRAINER W/BLOW–OFF VALVE

WALL HYDRANT

GENERAL NOTES

1. DO NOT SCALE DRAWINGS; USE FIGURED DIMENSIONS ONLY. IF DIMENSIONS ARE IN QUESTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING CLARIFICATION FROM THE ARCHITECT BEFORE CONTINUING WITH CONSTRUCTION.
2. FIELD VERIFY: ALL DIMENSIONS AND CONDITIONS BEFORE PROCEEDING WITH WORK.
3. ENLARGED PLANS: WHERE ENLARGED OR PARTIAL PLANS ARE REFERENCED. DIMENSIONS, SPECIAL DETAILING, OR FINISH REQUIREMENTS ARE NOTED ON THE ENLARGED PLANS AND OMITTED ON THE SMALLER SCALE OR OVERALL PLANS.
4. EXPOSED WELDS: GRIND SMOOTH AND FIELD DRESS ALL WELDS TO REMAIN VISIBLE AND NOT CONCEALED BY OTHER FINISHES.
5. FIRE PROTECTION: FOR FIRE PROTECTION REQUIREMENTS OF STRUCTURAL FRAME AND ASSEMBLIES SEE U.L. ASSEMBLY RATING DESCRIPTION THIS SHEET OR DETAILS REFERENCED IN PLANS.
6. DOOR OPENINGS: REFERENCED IDENTIFICATION OF DOOR OPENINGS IS SCHEDULED BY THE CORRESPONDING ROOM NUMBER IN WHICH THE OPENING OCCURS OR GIVES ACCESS TO (DOOR SWING DIRECTION). IF MORE THAN ONE DOOR OCCURS IN A SPACE THE ADDITIONAL DOOR NUMBERS WILL BE FOLLOWED BY A SEQUENTIAL DECIMAL NUMBER.
7. WINDOW OPENINGS: REFERENCED IDENTIFICATION OF WINDOW OPENINGS IS SCHEDULED BY LOWER CASE LETTERS. SIMILAR WINDOWS ARE SCHEDULED BY THE SAME LETTER.
8. PARTITION STANDARD: IT IS INTENDED THAT THE FACE OF EVERY CONTINUOUS PARTITION BE FLUSH, WITHOUT OFFSETS, EVEN AT AN INTERMEDIATE CHANGE IN PARTITION THICKNESS. CHANGES IN PARTITION THICKNESS OCCUR ONLY AT INSIDE OR OUTSIDE CORNERS. THE FACES OF CORRIDOR WALLS MUST ALIGN WITHOUT OFFSETS (UNLESS GRAPHICALLY SHOWN OTHERWISE) ALONG THEIR ENTIRE LENGTH REGARDLESS OF INTERMEDIATE BREAKS OR INTERRUPTIONS. ALL ADJUSTMENTS DUE TO CHANGE IN PARTITION THICKNESS MUST OCCUR ON THE ADJOINING ROOM SIDE OF CORRIDOR PARTITIONS AT THE NEAREST INSIDE OR OUTSIDE CORNER.
9. ALL ELECTRICAL PANELS, FIRE EXTINGUISHER CABINETS, ETC., LOCATED IN RELATED PARTITIONS SHALL BE BACKED WITH GYPSUM BOARD AS REQUIRED TO RETAIN PARTITION RATING.
10. IN SPACES REQUIRING LEAD LINING, ALL WALL PENETRATIONS SHALL BE BACKED AND PROTECTED WITH LEAD SHIELDING TO MAINTAIN SHIELDING CONTINUITY.
11. INTERIOR DIMENSIONS ARE GENERALLY TO FACE OF GYPSUM BOARD AND TO CENTER LINE OF STEEL UNLESS SPECIFICALLY NOTED. ALL PUBLIC CORRIDOR DIMENSIONS ARE GIVEN IN CLEAR DIMENSIONS.
12. EXTEND ALL FIRE RATED PARTITIONS TIGHT TO DECK ABOVE AND FILL ALL VOIDS WITH SAFING MATERIALS OR GYPSUM BOARD MUDDING COMPOUND.
13. WHEN CONTRADICTIONS OCCUR BETWEEN PLANS AND SPECIFICATIONS CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING CLARIFICATION FROM THE ARCHITECT BEFORE CONTINUING WITH CONSTRUCTION.

* SOME GENERAL NOTES ABOVE MAY NOT BE APPLICABLE TO PROJECT HEREIN.

GRAPHIC SYMBOLS

BUILDING SECTION/WALL SECTION

0 / A0.0 — INDICATES SECTION NUMBER; INDICATES NUMBER OF SHEET SECTION IS FOUND

DETAILS

0 / A0.0 — INDICATES DETAIL NUMBER; INDICATES NUMBER OF SHEET DETAIL IS FOUND

INTERIOR ELEVATION

NUMBER INDICATES ELEVATION & SHADING INDICATES INDICATES DIRECTION(S) OF VIEW

LETTER(S) DESIGNATE ELEV. WHERE MULTIPLE

INDICATES NUMBER OF SHEET ELEVATION IS FOUND

OTHER

0 — WALL TYPE

0 — REVISIONS

NAME 000 — ROOM NAME & NUMBER

00.0 — DOOR NUMBER

a — WINDOW TYPE

0 — KEYNOTE

ELECTRICAL SYMBOL LEGEND

LIGHT FIXTURES – NUMBER INDICATES CIRCUIT, LOWER CASE LETTER INDICATES SWITCH LEG, UPPER CASE LETTER INDICATES FIXTURE TYPE, SEE FIXTURE SCHEDULE. DARKENED SYMBOL INDICATES NIGHT LIGHT.

- A/1 a/b — FLUORESCENT RECESSED FIXTURE
- DOWN LIGHT OR INDUSTRIAL AS SCHEDULED
- SURFACE, CHAIN SUSPENDED OR INDIRECT PENDANT MOUNTED FLUORESCENT FIXTURE AS SCHEDULED
- SURFACE MOUNTED SQUARE LIGHT
- EXTERIOR AREA LIGHT
- EXTERIOR POLE MOUNTED FIXTURE
- $ — LIGHT SWITCH – SINGLE POLE UNLESS NOTED OTHERWISE, LOWER CASE LETTER INDICATES SWITCH LEG
  - 3 – THREE WAY SWITCH
  - K – KEYED SWITCH
- EXIT LIGHT
- EMERGENCY BATTERY LIGHT
- FIRE ALARM PULL STATION, MOUNT 48" A.F.F. TO TOP
- DOOR HOLDER/CLOSER
- HORN/STROBE LIGHT MOUNT 80" A.F.F. TO BOTTOM
- STROBE LIGHT, MOUNT 80" A.F.F. TO BOTTOM
- SMOKE DETECTOR (D – DUCT MTD. TYPE)
- SPRINKLER SYSTEM FLOW SWITCH
- MOTOR SYMBOL, NUMBER INDICATES HORSEPOWER, F – FRACTIONAL HORSEPOWER
- DISCONNECT SWITCH, SIZE AND TYPE AS NOTED
  - N.F. – NON FUSED
- MOTOR STARTER
- MSS — MANUAL MOTOR STARTER SWITCH WITH THERMAL OVERLOAD PROTECTION
- COMBINATION MOTOR STARTER/DISCONNECT DEVICE
- JUNCTION BOX (AS NOTED)
- SPECIAL PURPOSE RECEPTACLE, AS NOTED
- WALL MOUNTED CLOCK, AS SPECIFIED, MOUNT 8'–3" A.F.F. TO CENTER
- FLOOR MOUNTED RECEPTACLE OUTLET OR JUNCTION BOX AS NOTED.
- QUADRAPLEX RECEPTACLE
- DUPLEX RECEPTACLE
  - GFI – GROUND FAULT INTERRUPTER
  - WP – WEATHER PROOF COVER
- SIMPLEX RECEPTACLE
- COMMUNCIATION/DATA CABLE OUTLET.
- WIRELESS ACCESS POINT
- CCTV CAMERA
- INTERCOM STATION
- PANELBOARD; FLUSH MTD, SURFACE MTD
- CONDUIT NIPPLE (AS NOTED)
- SURFACE MOUNTED RACEWAY
- CONDUIT RUN CONCEALED IN WALLS OR ABOVE CEILING
- CONDUIT RUN BELOW FLOOR SLAB OR GRADE
- HOMERUN TO PANELBOARD
  - CONDUIT
  - NEUTRAL
  - PHASE WIRE(S)
  - GROUND WIRE
  - PANELBOARD (RLP–1)
  - CIRCUIT(S) (2,4,6)

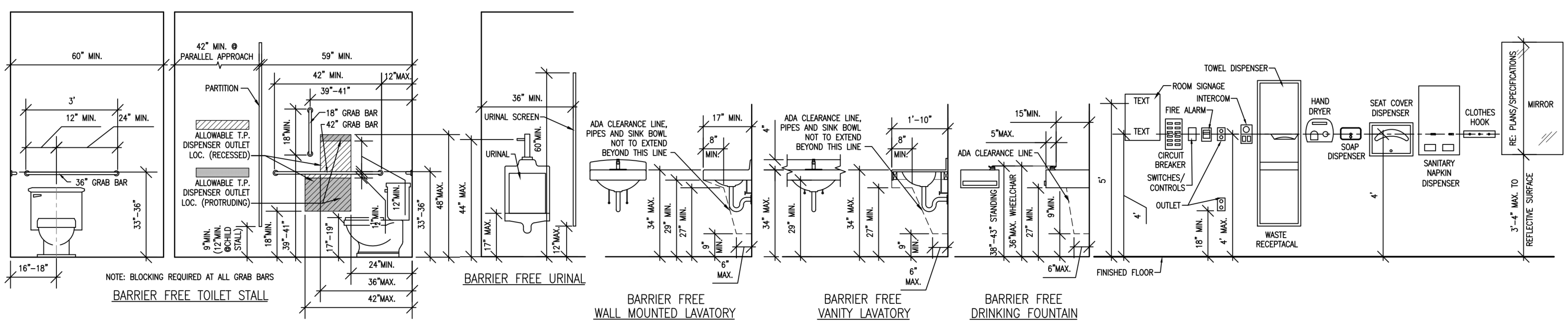
CODE SUMMARY

CODES			
	2015 MICHIGAN BUILDING CODE		FIRE MARSHALL RULES
	STATE OF MICHIGAN BARRIER FREE ACCESS DESIGN RULES (2009 ICC/ANSI A117.1)		MICHIGAN DEPARTMENT OF LABOR CONSTRUCTION CODE COMMISION GENERAL RULES
	NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)		2015 MICHIGAN MECHANICAL CODE
	2015 MICHIGAN PLUMBING CODE		MICHIGAN UNIFORM ENERGY CODE
	NATIONAL ELECTRICAL SAFETY CODE		2017 NATIONAL ELECTRIC CODE (NEC)
CODES FIRE RESISTIVE ANALYSIS			
	CLASSIFICATIONS:		CONSTRUCTION PROTECTION:
3	STORIES	0	INTERIOR NON-BEARING PARTITIONS
E	OCCUPANCY TYPE	0	STRUCTRAL FRAME
3B	CONSTRUCTION TYPE	0	EXTERIOR NON-BEARING WALLS
YES	SPRINKLER SYSTEM	0	ROOF

DRAWING SHEET INDEX

A0.0	COVER
I1.0	INDEX SHEET
ARCHITECTURAL	
A0.1	THIRD FLOOR COMPOSITE PLAN
A1.0	MEDIA CENTER FLOOR PLANS
A2.0	MEDIA CENTER REFLECTED CEILING PLAN
A3.0	WINDOW & DOOR SCHEDULES
A4.0	ROOF PLAN
A5.0	INTERIOR ELEVATIONS
A6.0	DETAILS
A6.1	DETAILS
PLUMBING	
P1.0	3RD FLOOR AND GYM PLUMBING PLANS
ELECTRICAL	
E1.0	ELECTRICAL PLANS
E2.0	DETAILS

BARRIER FREE MOUNTING REQUIREMENTS (ICC A117.1-2009)



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IDI
INTEGRATED DESIGNS, INC.

NEGAUNEE PUBLIC SCHOOLS
2020 BOND PROJECTS - MIDDLE SCHOOL
NEGAUNEE, MI 49866
PROJECT NO. 20-907

	BY	DATE:
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INDEX SHEET

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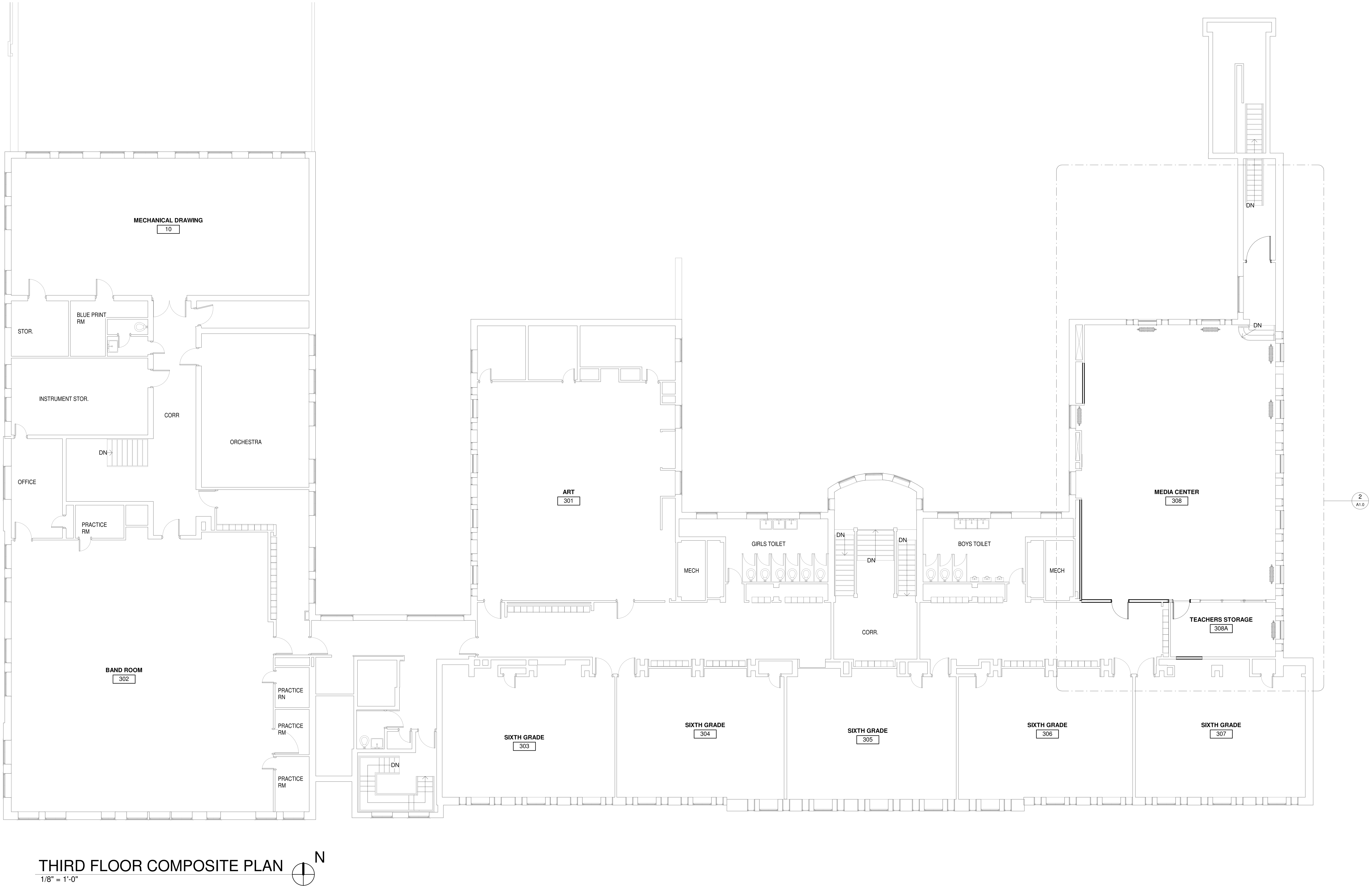

THIRD FLOOR COMPOSITE PLAN

1/8" = 1'-0"

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THIRD FLOOR COMPOSITE PLAN

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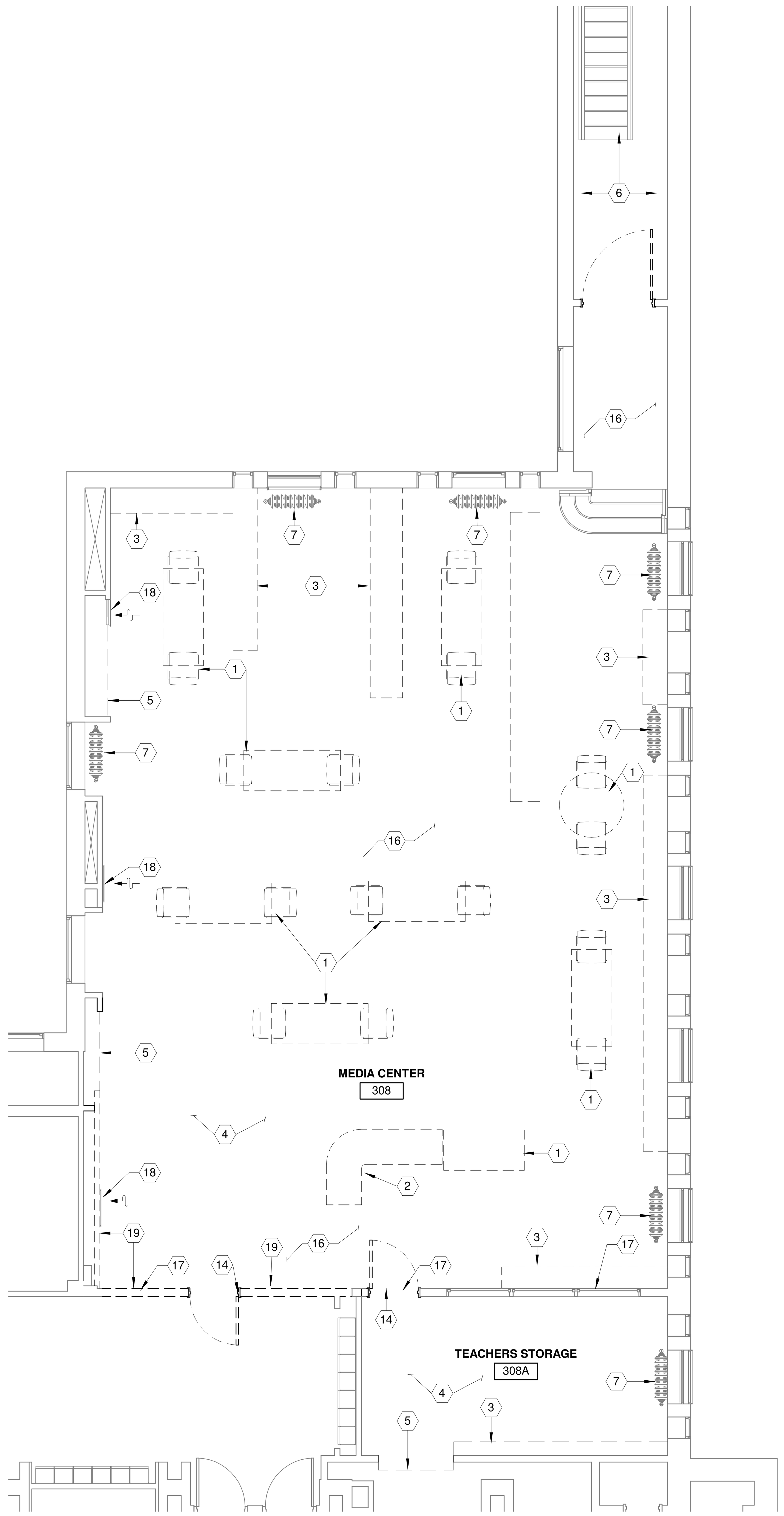
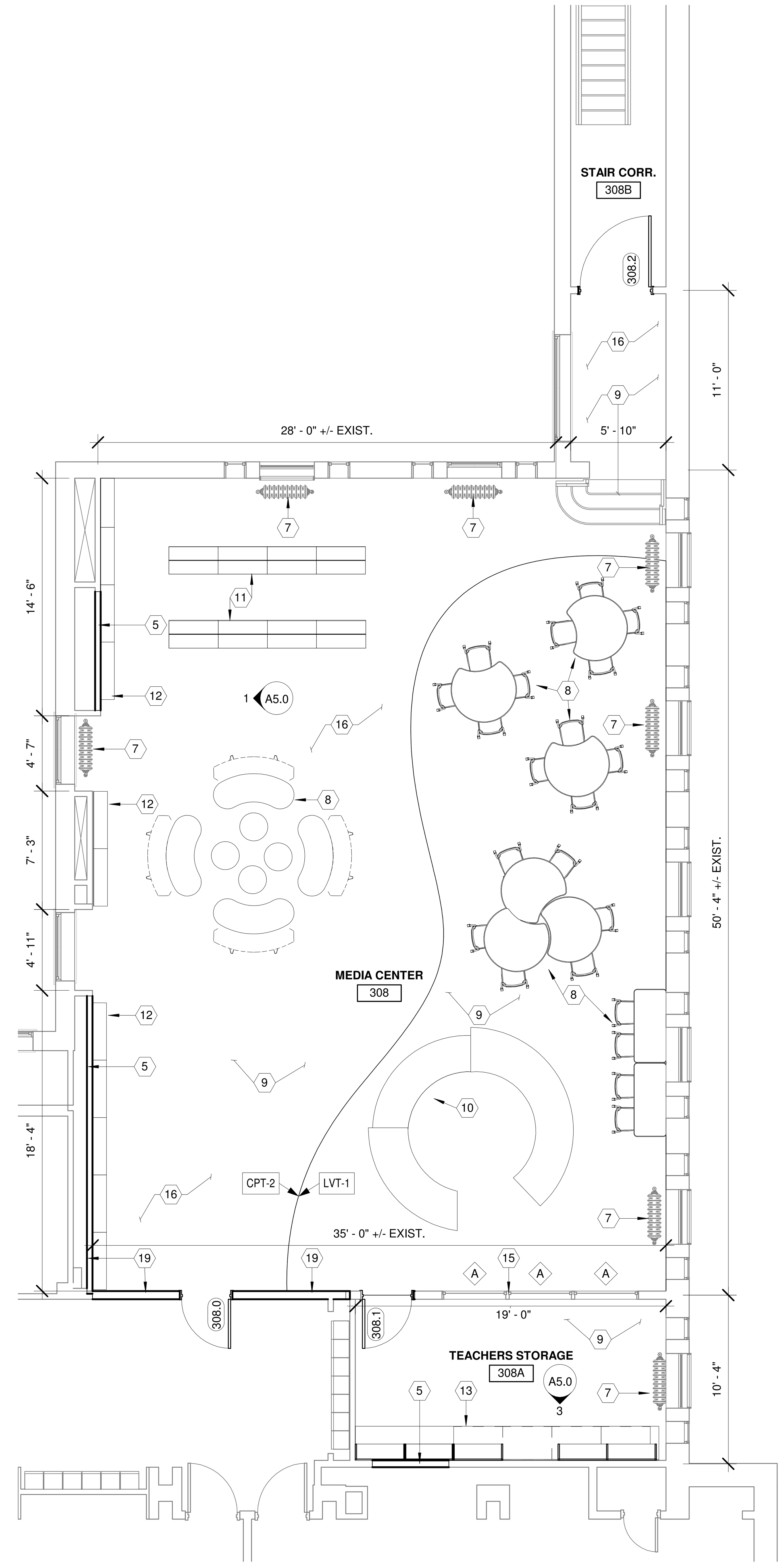


DEMOLITION LIBRARY FLOOR PLAN

3/16" = 1'-0"



NEW WORK LIBRARY FLOOR PLAN

3/16" = 1'-0"

KEYNOTES

1. LOOSE FURNITURE TO BE REMOVED BY OWNER PRIOR TO THE START OF CONSTRUCTION
2. REMOVE BUILT IN RECEPTION DESK
3. REMOVE BOOKSHELVES
4. REMOVE EXISTING FLOOR SYSTEM IN ITS ENTIRETY TO CONCRETE SLAB AND PREPARE FOR NEW FLOOR INSTALLATION. RE: SCHEDULE
5. REMOVE BUILT IN SHELVING, INFILL WITH METAL STUDS AND GYPSUM TO TO BE FLUSH WITH EXISTING AT ROOM SIDE
6. PATCH BACK EXIT STAIRS WALL, PREP FOR PAINT
7. EXISTING RADIATORS TO REMAIN. CLEAN RADIATORS AS NECESSARY.
8. LOOSE FURNITURE BY OWNER
9. NEW FLOORING. RE: SCHEDULES
10. CIRCULATION DESK. RE: PLAN AND DETAILS A6.0
11. LIBRARY STACKS. RE: INTERIOR ELEVATION 2/A5.0
12. NEW BOOKSHELVES. RE: INTERIOR ELEVATION 1/A5.0
13. NEW STORAGE CASEWORK. RE: INTERIOR ELEVATION 3/A5.0 AND DETAILS 3/A6.1
14. REMOVE AND REPLACE DOOR AND FRAME, PREP FOR NEW
15. KEEP EXISTING WINDOWS, REPAINT FRAMES RE: SCHEDULES.
16. EXISTING FIRE SPRINKLERS AND PIPING SHALL REMAIN. COORDINATE WITH NEW LIGHTING FIXTURES.
17. EXISTING SUPPLY GRILLES HIGH ON WALL TO REMAIN. CLEAN AND PAINT TO MATCH EXISTING CONDITIONS.
18. EXISTING RETURN GRILLES LOW ON WALL TO REMAIN. CLEAN AND PAINT TO MATCH EXISTING CONDITIONS.
19. REMOVE FILLED WINDOWS AND INFILL WITH METAL STUDS AND DRYWALL. WALL TO BE FLUSH WITH EXISTING, BOTH SIDES.

GENERAL NOTES

1. EXISTING CONDITIONS SHOWN ON THESE DRAWINGS HAVE BEEN OBTAINED FROM EXISTING DRAWINGS AND FIELD INSPECTIONS. CONTRACTOR SHALL BE RESPONSIBLE TO FIELD VERIFY THE EXISTING CONDITIONS REGARDING DEMOLITION AND NEW WORK BEFORE SUBMITTING A BID FOR THIS PROJECT. CONTRACTOR SHALL REPORT ANY DISCREPANCIES TO OWNER OR OWNERS REPRESENTATIVE.
2. HALF-TONE LINES INDICATE EXISTING CONDITIONS. DASHED LINES INDICATE DEMOLITION WORK. BOLD LINES INDICATE NEW WORK. REFER TO KEYNOTES FOR DESCRIPTION.
3. ANY EXISTING CONDITIONS TO REMAIN THAT ARE DISTURBED ARE TO BE PATCHED/REPAIRED TO MATCH ADJACENT CONDITIONS.
4. WORK SHALL BE IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL CODES, LAWS, AND REGULATIONS.
5. REFER ALSO TO ELECTRICAL, MECHANICAL, STRUCTURAL, AND CIVIL DRAWINGS AS APPLICABLE FOR ADDITIONAL SCOPE OF WORK.
6. REFER TO WALL SECTIONS AND BUILDING SECTIONS FOR WALL CONSTRUCTION, MATERIALS, HEIGHTS, ETC.
7. ALL DOOR FRAMES ARE 4" FROM ADJACENT WALL, UNLESS NOTED OTHERWISE OR IN EXISTING OPENING.
8. INTERIOR/EXTERIOR DIMENSIONS ARE FROM FACE OF WALL.

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MEDIA CENTER FLOOR PLANS

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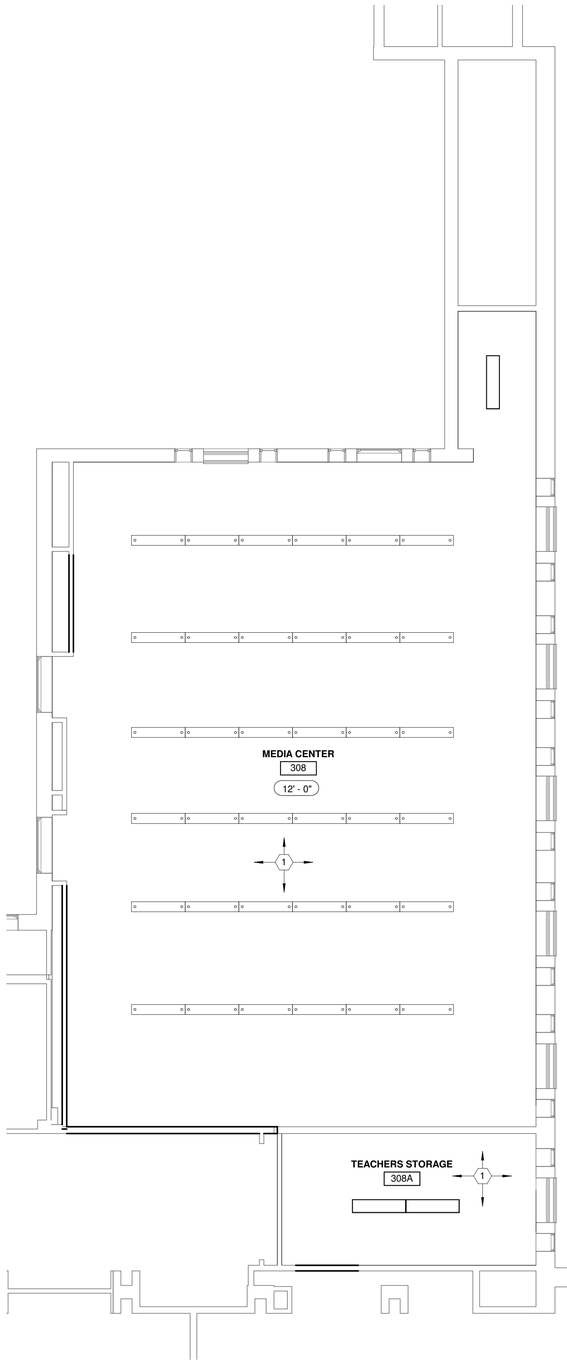

NEW WORK LIBRARY REFLECTED CEILING PLAN

3/16" = 1'-0"

KEYNOTES

1. EXISTING CEILING TO REMAIN AND BE PAINTED. PAINT SPRINKLER SYSTEM PIPING TO MATCH CEILING. RE: ELECTRICAL AND SCHEDULES FOR EXTENT OF WORK

SYMBOL LEGEND

- LAY-IN ACOUSTICAL CEILING TO BE REMOVED.
- GYPSUM BOARD CEILING/SOFFIT TO BE REMOVED.
- ALUMINUM SOFFIT TO BE REMOVED.
- MECHANICAL DIFFUSER TO BE REMOVED.
- LIGHT FIXTURE TO BE REMOVED.
- CEILING MOUNTED EXIT LIGHT TO BE REMOVED.
- RECESSED CAN LIGHT TO BE REMOVED.
- 2'x2' LAY-IN ACOUSTICAL CEILING.
- GYPSUM BOARD CEILING/SOFFIT.
- VENTED ALUMINUM SOFFIT.
- MECHANICAL DIFFUSER.
- SUSPENDED LIGHT FIXTURE.
- CEILING MOUNTED EXIT LIGHT.
- RECESSED CAN LIGHT.
- 10'-0" CEILING HEIGHT.

GENERAL NOTES

1. EXISTING CONDITIONS SHOWN ON THESE DRAWINGS HAVE BEEN OBTAINED FROM EXISTING DRAWINGS AND FIELD INSPECTIONS. CONTRACTOR SHALL BE RESPONSIBLE TO FIELD VERIFY THE EXISTING CONDITIONS REGARDING DEMOLITION AND NEW WORK BEFORE SUBMITTING A BID FOR THIS PROJECT. CONTRACTOR SHALL REPORT ANY DISCREPANCIES TO OWNER OR OWNERS REPRESENTATIVE.
2. HALF-TONE LINES INDICATE EXISTING CONDITIONS. DASHED LINES INDICATE DEMOLITION WORK. BOLD LINES INDICATE NEW WORK. REFER TO KEYNOTES FOR DESCRIPTION.
3. ANY EXISTING CONDITIONS TO REMAIN THAT ARE DISTURBED ARE TO BE PATCHED/REPAIRED TO MATCH ADJACENT CONDITIONS.
4. WORK SHALL BE IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL CODES, LAWS, AND REGULATIONS.
5. REFER ALSO TO ELECTRICAL, MECHANICAL, STRUCTURAL, AND CIVIL DRAWINGS AS APPLICABLE FOR ADDITIONAL SCOPE OF WORK.
6. REFER TO WALL SECTIONS AND BUILDING SECTIONS FOR WALL CONSTRUCTION, MATERIALS, HEIGHTS, ETC.
7. ALL DOOR FRAMES ARE 4" FROM ADJACENT WALL, UNLESS NOTED OTHERWISE.
8. INTERIOR/EXTERIOR DIMENSIONS ARE FROM FACE OF GYPSUM BOARD.

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MEDIA CENTER REFLECTED CEILING PLAN

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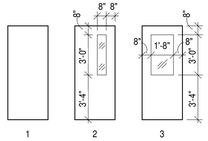
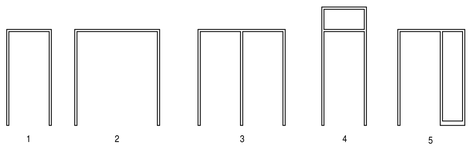
DOOR SCHEDULE

DOOR NUMBER	FRAME		DOOR					HARDWARE SET	DETAIL REFERENCE				REMARKS
	MATERIAL	TYPE	MATERIAL	TYPE	FIRE RATING	SIZE WIDTH	SIZE HEIGHT		HEAD	JAMB	THRESHOLD	MULLION	
308.1	HM	1	SCWV	3	--	3' - 0"	7' - 0"		2/A6.1	2/A6.1	--	--	1
308.0	HM	1	SCWV	3	--	3' - 0"	7' - 0"		2/A6.1	2/A6.1	--	--	1
308.2	HM	1	SCWV	1	45MIN.	4' - 4"	7' - 0"		1/A6.1	1/A6.1	--	--	1

DOOR TYPES



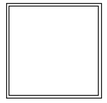
DOOR FRAMES



WINDOW SCHEDULE

WINDOW DESIG.	WINDOW MATERIAL	TYPE	GLAZING	SIZE WIDTH	SIZE HEIGHT	DETAIL REFERENCE JAMB	SILL	MULLION	REMARKS
A	EXIST.	1	-	4' - 0"	4' - 0"	-	-	-	1

WINDOW TYPES



1 (FIXED)

CODE TO DOOR & WINDOW SCHEDULES

RU	ROLL UP COILING DOOR
AL	ALUMINUM
SCPL	SOLID CORE DOOR, PLASTIC LAMINATE FACE
SCWV	SOLID CORE DOOR, WOOD VENEER FINISH
HM	HOLLOW METAL
FP	FOLDING ACCORDION PARTITION
OH	OVERHEAD STEEL SECTIONAL DOOR
HCV	HOLLOW CORE, WOOD VENEER FINISH
ST	STEEL
STI	STEEL INSULATED
SS	STAINLESS STEEL
IOH	INSULATED OVERHEAD SECTIONAL DOOR
WOH	WOOD OVERHEAD SECTIONAL DOOR
CLAD	ALUMINUM CLAD WOOD
WF	WOOD FRAME
PWG	1/4" POLISHED WIRE GLAZING
INS	INSULATED GLAZING
TCG	TEMPERED CLEAR GLAZING
SIG	SOLAR INSULATED GLAZING
SSG	SINGLE STRENGTH GLAZING
HSG	HEAT STRENGTHENED GLAZING
LSG	LAMINATED SAFETY GLAZING
PG	PATTERNED GLAZING
LG	LEXAN GLAZING
TG	TRIPLE GLAZING

GENERAL NOTES TO DOOR SCHEDULE

1. DOOR NUMBER: SEE FLOOR PLAN(S) FOR LOCATION OF DOORS.
2. FRAME: SEE CODE TO "DOOR/WINDOW SCHEDULE" FOR DEFINITION OF DESIGNATIONS IN MATERIAL COLUMN. SEE "DOOR FRAMES" FOR DESCRIPTION OF DESIGNATIONS IN FRAME TYPE COLUMN.
3. DOOR: SEE CODE TO "DOOR/WINDOW SCHEDULE" FOR DEFINITION OF DESIGNATIONS IN MATERIAL COLUMN. SEE "DOOR TYPES" FOR DESCRIPTION OF DESIGNATIONS IN DOOR TYPE COLUMN.
4. FIRE RATING: LABELING INDICATED IS PER NFPA 80. LABELS SHALL BE APPROVED AND PERMANENTLY AFFIXED.
5. SIZE: SIZE IS GIVEN AS WIDTH x HEIGHT.
6. HARDWARE SET: SEE HARDWARE SPECIFICATIONS FOR DESCRIPTIONS.
7. ALL INTERIOR AND EXTERIOR WINDOWS WITHIN 24" TO THE VERTICAL EDGE OF AN INTERIOR OR EXTERIOR DOOR MUST CONTAIN TEMPERED SAFETY GLASS.

GENERAL NOTES TO WDW. SCHEDULE

1. WINDOW DESIGNATION: SEE FLOOR PLAN(S) FOR LOCATION OF WINDOWS.
2. FRAME: SEE CODE TO "DOOR/WINDOW SCHEDULE" FOR DEFINITION OF DESIGNATIONS IN MATERIAL COLUMN. SEE "WINDOW TYPES" FOR DESCRIPTION OF DESIGNATIONS IN FRAME TYPE COLUMN.
3. WINDOW: SEE CODE TO "DOOR/WINDOW SCHEDULE" FOR DEFINITION OF DESIGNATIONS IN GLAZING COLUMN.
4. SIZE: SIZE IS GIVEN AS WIDTH x HEIGHT.
5. HARDWARE SET: SEE HARDWARE SPECIFICATIONS FOR DESCRIPTIONS.
6. ALL INTERIOR AND EXTERIOR WINDOWS WITHIN 24" TO THE VERTICAL EDGE OF AN INTERIOR OR EXTERIOR DOOR MUST CONTAIN TEMPERED SAFETY GLASS.

ROOM FINISH SCHEDULE

NUMBER	ROOM NAME	CEILING TYPE	FLOOR	BASE	WALLS TYPICAL	WALLS NORTH	WALLS EAST	WALLS SOUTH	WALLS WEST	SIGN TYPE	REMARKS
308	MEDIA CENTER	EXIST-1	CPT-2/LVT-1	RB-1	PNT-2						
308A	TEACHERS STORAGE	GBC-1	LVT-1	RB-1	PNT-2						
308B	STAIR CORR.	--	--	--	PNT-2						1

CODE TO ROOM FINISH SCHEDULES

--CEILING FINISHES--

ATC-1	2x2 LAY IN ACOUSTIC BOARD, REVEAL EDGE, IN PREFINISHED METAL 15/16" T GRID.
ATC-2	2x2 LAY IN ACOUSTIC BOARD, SQUARE EDGE, IN PREFINISHED METAL 15/16" T GRID.
ATC-3	2x2 LAY IN VINYL FACED GYPSUM BOARD, SQUARE EDGE, IN PREFINISHED 15/16" ALUMINUM T-GRID.
GBC-1	EXISTING GYPSUM/PLASTER CEILING TO REMAIN. PREP FOR NEW PAINT.
EXIST-1	EXISTING HERRINGBONE PATTERN CEILING TO REMAIN, PATCH/PREP/PAINT.

--CONCRETE FINISH--

CONC-1	
CONC-2	CONCRETE STEEL TROWELED WITH HARDENER AND SEALANT. CONCRETE PAINTED.

--RESILIENT PRODUCTS--

RB-1	4" RESILIENT BASE - COVED.
RB-2	4 1/2" RESILIENT BASE - COVED. (RENOVATION PROJECTS)
LVT-1	LUXURY VINYL TILE. (5.96" x 48")
LVP-1	LUXURY VINYL PLANK. (_" x _")
RSF-1	RUBBER SPORTS FLOORING. (_" x _")
RS-1	RESILIENT SHEET FLOORING.

-- CARPET --

CPT-1	CARPET TILES. (_" x _")
CPT-2	CARPET PLANK. (18" x 36")
CPT-3	CARPET, ROLLED GOODS.

-- TILE FINISH --

PFT-1	PORCELAIN FLOOR TILE. (_" x _")
PTB-1	PORCELAIN TILE BASE. (_" x _")

-- WALL COVERING --

VWC-1	VINYL WALL COVERING, TYPE 2. COLOR/PATTERN 1.

-- PAINT FINISH --

PNT-1	PAINT - FLAT LATEX, CEILING WHITE.
PNT-2	PAINT - EGG SHELL LATEX.
PNT-3	PAINT - SEMI-GLOSS LATEX.
PNT-4	PAINT - ENAMEL, OIL-BASE, SEMI-GLOSS.
PNT-5	PAINT - DRYFALL, EXPOSED STRUCTURE.

-- WOOD FINISHES --

WB-1	1X4 WOOD BASE
HSF-1	HARDWOOD SPORTS FLOOR SYSTEM

REMARKS TO DOOR SCHEDULE

1. FIELD VERIFY DOOR/FRAME SIZE BEFORE ORDERING.

REMARKS TO FINISH SCHEDULE

1. WALLS TO BE PATCHED AND REPAIRED BEFORE PAINTING

GENERAL NOTES TO FIN. SCHEDULE

1. ROOM: SEE FLOOR PLAN(S) FOR LOCATION OF ROOM NUMBERS AND NAMES.
2. CEILING TYPE, FLOOR, AND BASE: SEE "CODE TO ROOM FINISH SCHEDULE" FOR DEFINITION OF DESIGNATIONS.
3. WALLS: SEE "CODE TO ROOM FINISH SCHEDULE" FOR DEFINITION OF DESIGNATIONS IN TYPICAL, NORTH, SOUTH, EAST, AND WEST COLUMNS.
4. REMARKS: SEE "REMARKS TO FINISH SCHEDULE".
5. SIGN TYPE: SEE SPECIFICATIONS FOR SIGN TYPES. LOCATE SIGN INDICATED ON WALL OUTSIDE ROOM NEAR MAIN ROOM DOOR.

REMARKS TO WINDOW SCHEDULE

1. EXISTING WINDOW TO REMAIN. PAINT FRAME.

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NEGAUNEE PUBLIC SCHOOLS
2020 BOND PROJECTS - MIDDLE SCHOOL
NEGAUNEE, MI 49866
PROJECT NO. 20-907

NO.	REVISIONS	DATE
A	DESIGN DEVELOP	02.16.21
0	CONSTRUCTION	03.16.21

	BY	DATE:
DESIGN	KPR	12.30.20
DRAWN	KPR	12.30.20
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WINDOW & DOOR SCHEDULES

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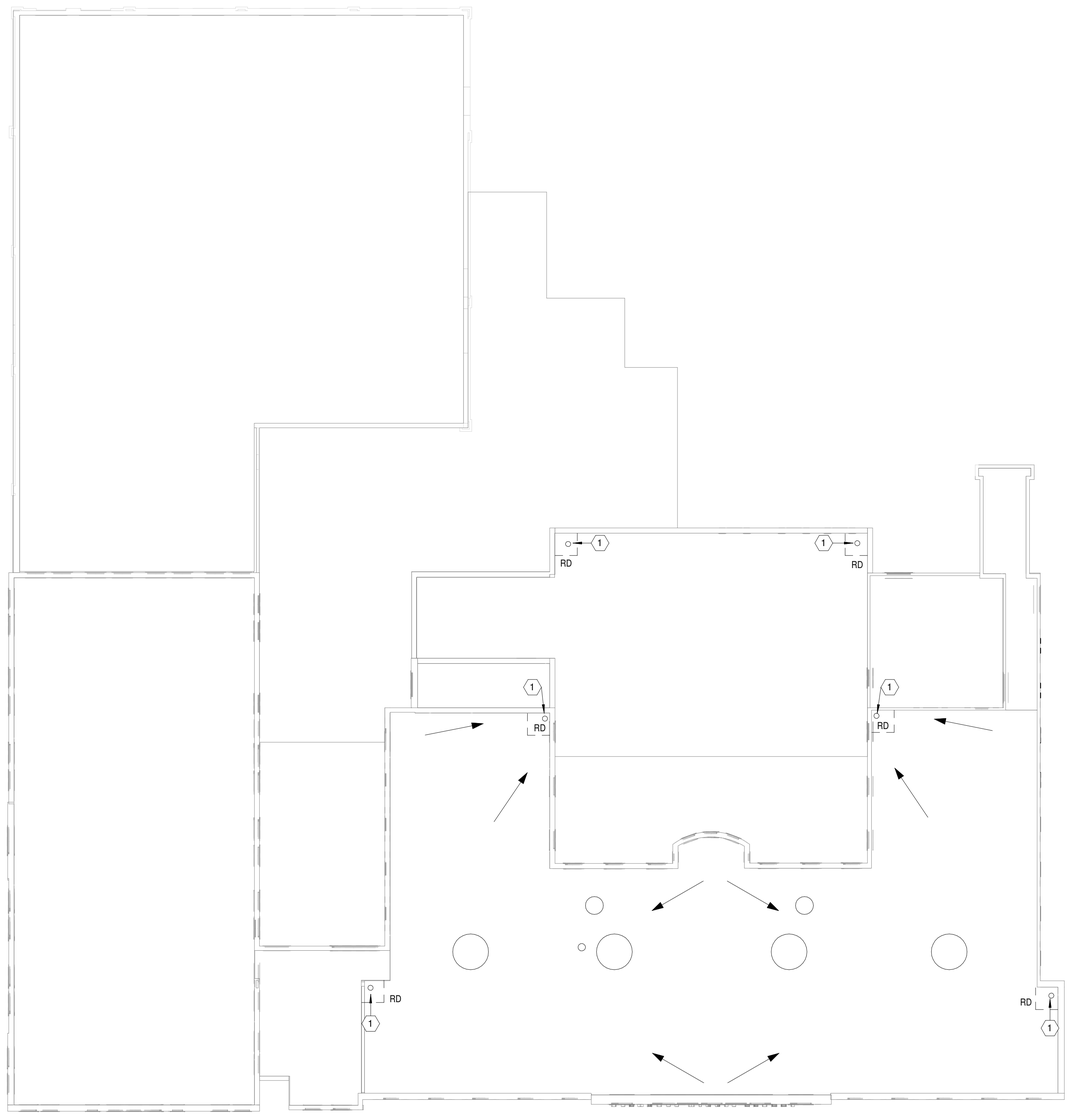

ROOF PLAN
1/16" = 1'-0"

N

KEYNOTES

1. REMOVE SECTION OF EPDM ROOF MEMBRANE AND INSULATION AS REQUIRED FOR NEW ROOF BRAIN AND PIPING REQUIREMENTS. REINSTALL NEW INSULATION AND 60MIL. EPDM MEMBRANE TO ALLOW POSITIVE DRAINING TO NEW DRAIN ASSEMBLY. NEW MEMBRANE PATCH/TIE-IN SHALL BE FOR MANUFACTURERS RECOMMENDATIONS. GENERAL CONTRACTOR SHALL HOLD $10,000 ALLOWANCE FOR WORK REQUIRED BELOW ROOF FOR MODIFICATIONS/PATCHING TO CEILINGS/CABINETRY, ETC, FOR PIPING REMOVED AND REPLACEMENTS.

GENERAL NOTES

1. EXISTING CONDITIONS SHOWN ON THESE DRAWINGS HAVE BEEN OBTAINED FROM EXISTING DRAWINGS AND FIELD INSPECTIONS. CONTRACTOR SHALL BE RESPONSIBLE TO FIELD VERIFY THE EXISTING CONDITIONS REGARDING DEMOLITION AND NEW WORK BEFORE SUBMITTING A BID FOR THIS PROJECT. CONTRACTOR SHALL REPORT ANY DISCREPANCIES TO OWNER OR OWNERS REPRESENTATIVE.
2. HALF-TONE LINES INDICATE EXISTING CONDITIONS. DASHED LINES INDICATE DEMOLITION WORK. BOLD LINES INDICATE NEW WORK. REFER TO KEYNOTES FOR DESCRIPTION.
3. ANY EXISTING CONDITIONS TO REMAIN THAT ARE DISTURBED ARE TO BE PATCHED/REPAIRED TO MATCH ADJACENT CONDITIONS.
4. WORK SHALL BE IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL CODES, LAWS, AND REGULATIONS.
5. REFER ALSO TO ELECTRICAL, MECHANICAL, STRUCTURAL, AND CIVIL DRAWINGS AS APPLICABLE FOR ADDITIONAL SCOPE OF WORK.
6. REFER TO WALL SECTIONS AND BUILDING SECTIONS FOR WALL CONSTRUCTION, MATERIALS, HEIGHTS, ETC.

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NEGAUNEE PUBLIC SCHOOLS
2020 BOND PROJECTS - MIDDLE SCHOOL
NEGAUNEE, MI 49866
PROJECT NO. 20-907

	BY	DATE:
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ROOF PLAN

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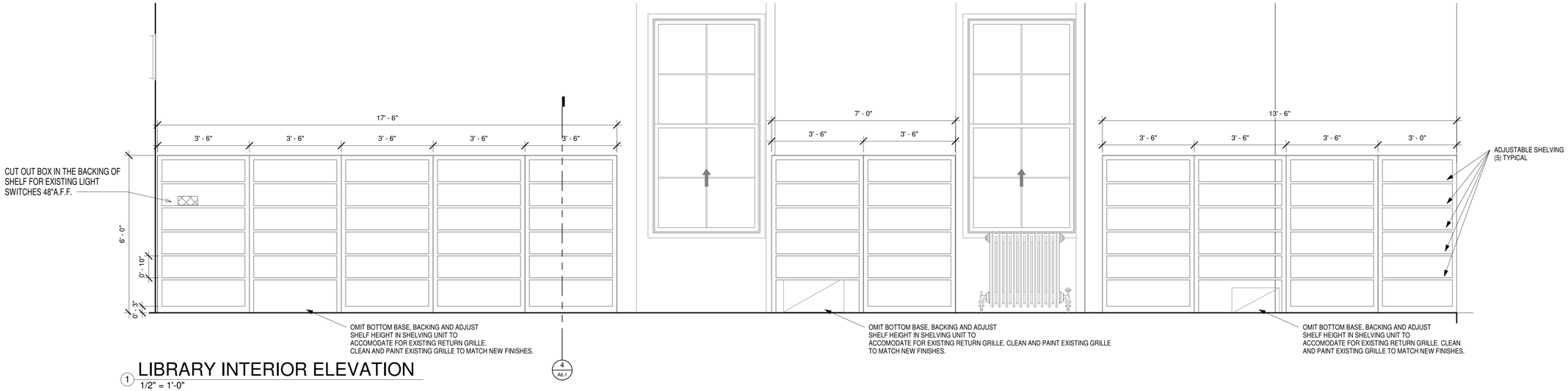
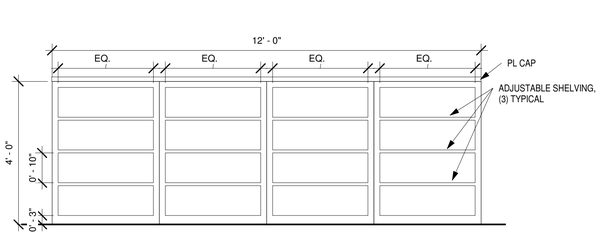
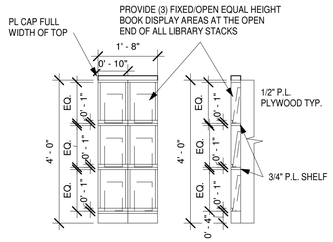


1 LIBRARY INTERIOR ELEVATION
1/2" = 1'-0"

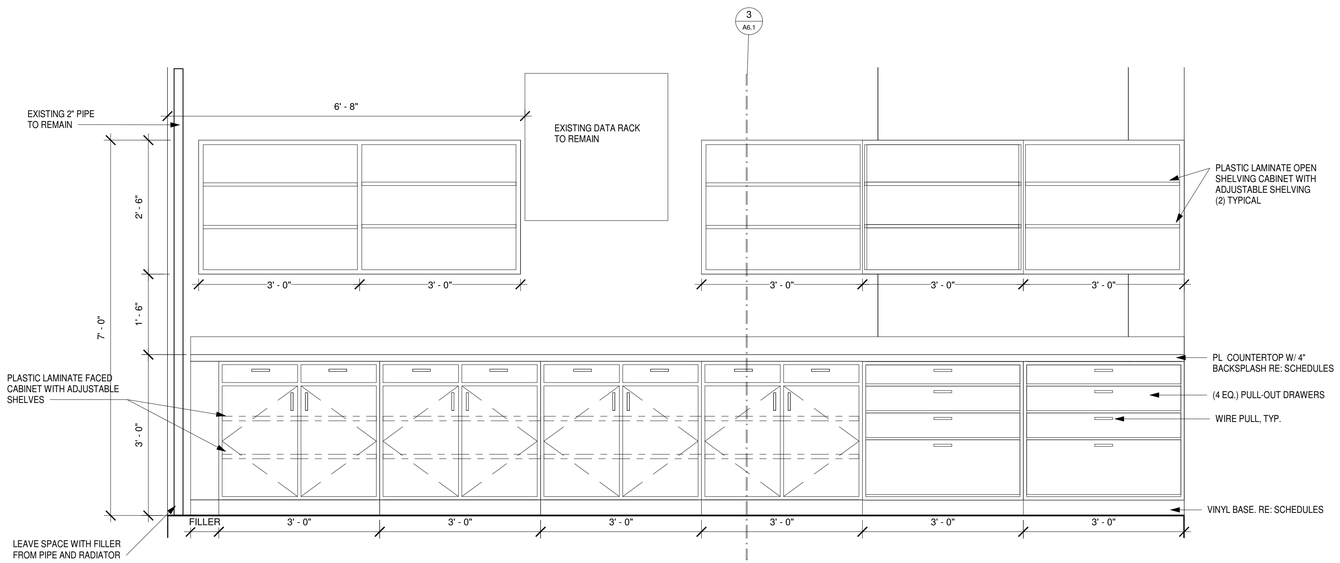


2 LIBRARY STACKS
1/2" = 1'-0"



BOOK DISPLAY FRONT

SECTION A



3 TEACHER STORAGE CASEWORK ELEVATION
3/4" = 1'-0"

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NEGAUNEE PUBLIC SCHOOLS
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INTERIOR ELEVATIONS

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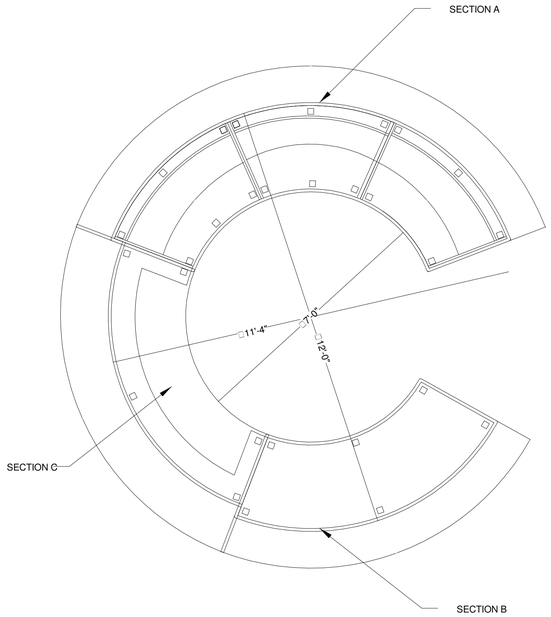
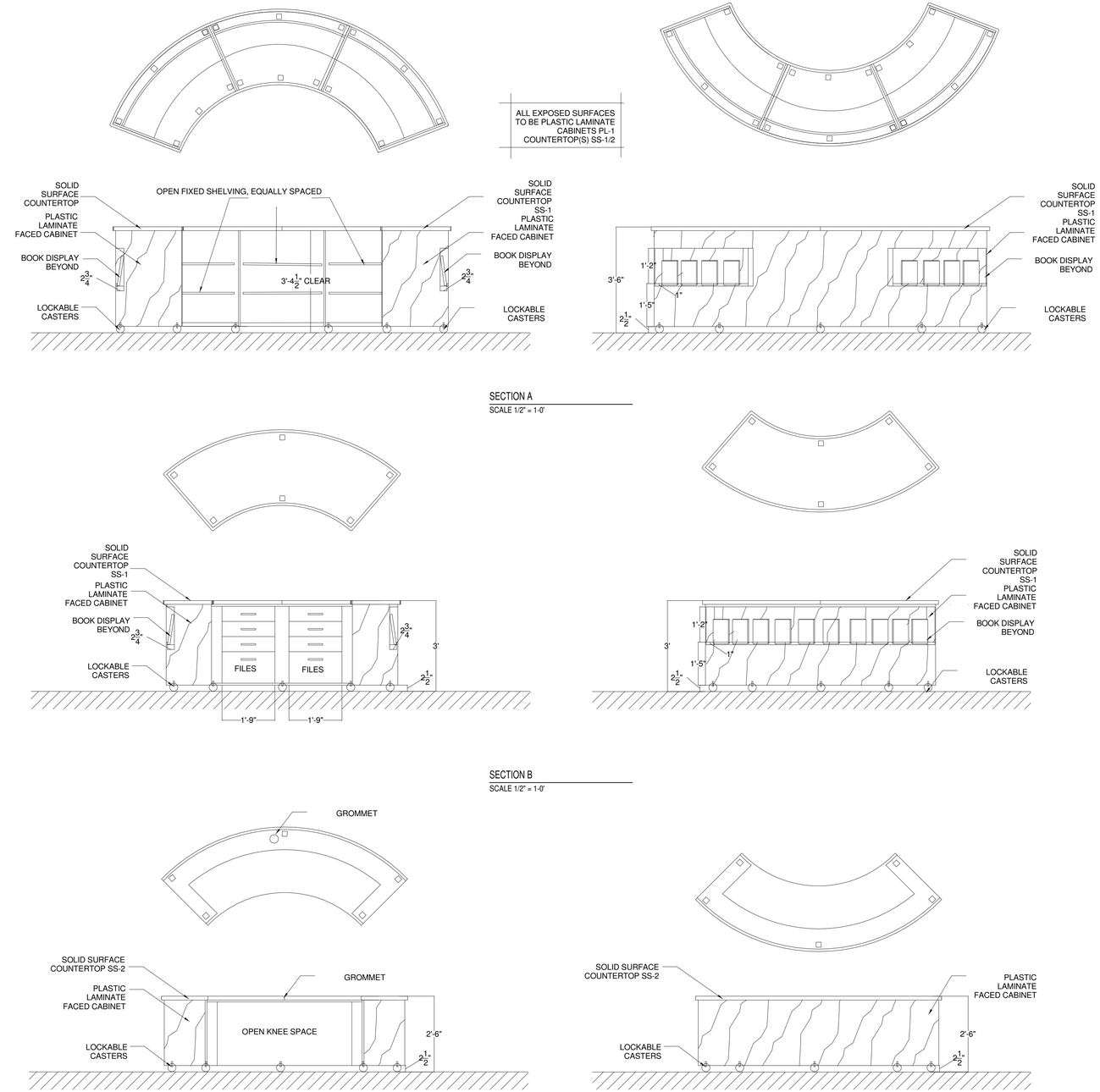


CIRCULATION DESK

1/2" = 1'-0"



CIRCULATION DESK (A,B,C)

SCALE: 1/2" = 1-0'

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DETAILS

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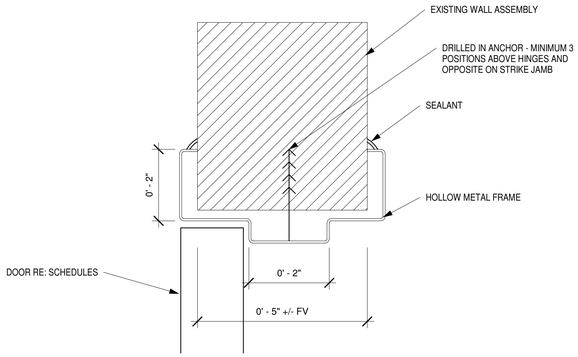
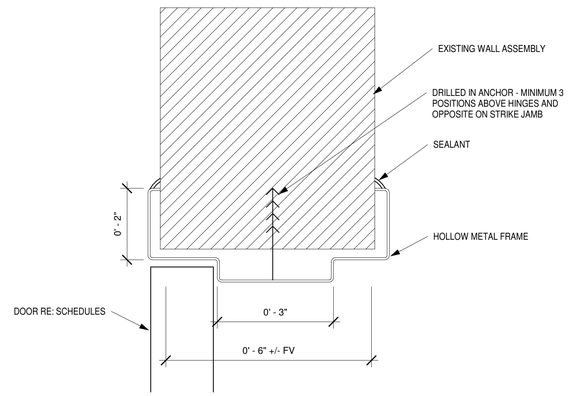
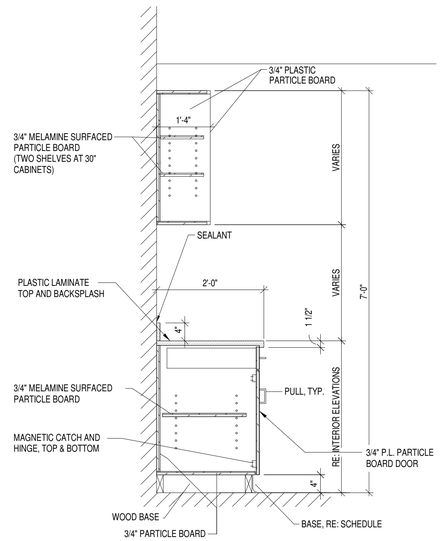


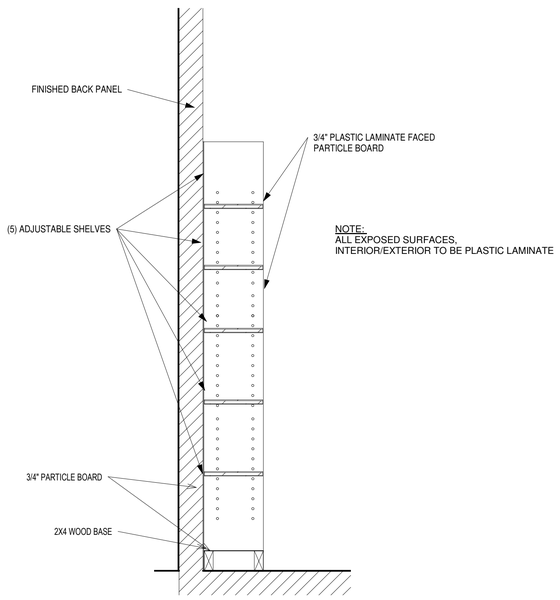
1 H.M. DOOR DETAIL
6" = 1'-0"



2 HM DOOR DETAIL 2
6" = 1'-0"



3 CASEWORK DETAIL
3/4" = 1'-0"



4 LIBRARY STACK DETAIL
1" = 1'-0"

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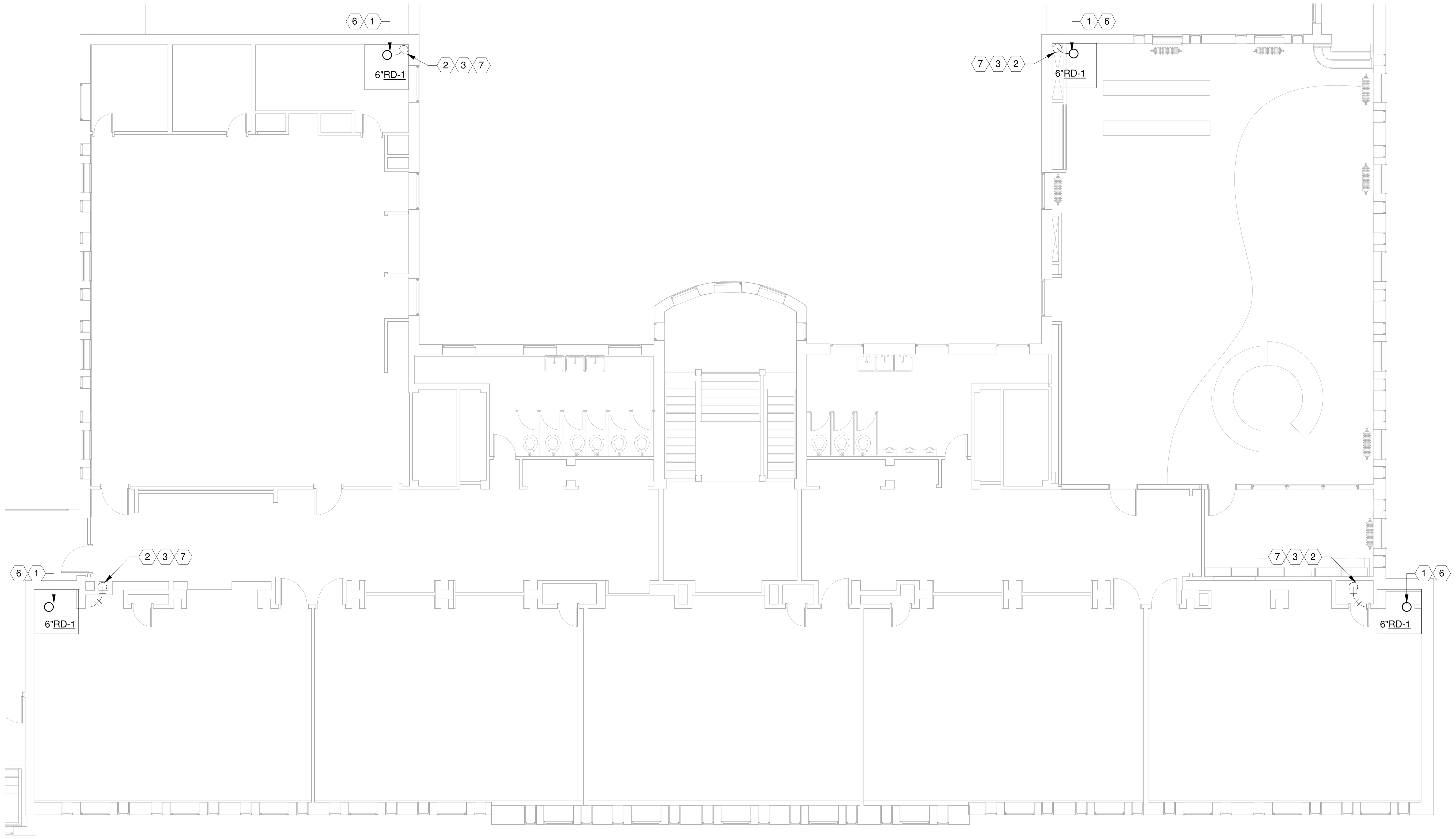

PLUMBING PLAN - 3RD FLOOR

1/8" = 1'-0"

PLUMBING PLAN - GYM

1/8" = 1'-0"

KEYNOTES

1. REPLACE EXISTING 6" ROOF DRAIN (F.V. SIZE PRIOR TO ORDERING NEW). REPLACE PORTION OF EXISTING 6" STORM PIPING TO INSTALL NEW DRAIN. REFER TO ARCHITECTURAL PLANS FOR ROOF AND CEILING REPAIR AROUND DRAIN.
2. REINSULATE EXISTING 6" STORM PIPING FROM ROOF DRAIN DOWN TO INSIDE CABINET OF STORAGE ROOM ON THE 3RD FLOOR WHERE ACCESSIBLE.
3. REFER TO ARCHITECTURAL PLANS FOR REPAIR/REPLACEMENT OF EXISTING CABINETRY/WALLS TO ACCESS STORM PIPING.
4. REPLACE EXISTING 4" ROOF DRAIN (F.V. SIZE PRIOR TO ORDERING NEW).
5. INSULATE EXISTING 4" STORM PIPING EXPOSED IN GYM.
6. NEW ROOF DRAIN, RD-1, SHALL BE EQUAL TO ZURN MODEL Z-100, 15" DIAMETER ROOF DRAIN WITH LOW SILHOUETTE POLY-DOME, CAST IRON BODY AND GRAVEL STOP.
7. PLUMBING CONTRACTOR SHALL INSTALL ELECTRIC HEAT TRACING (PROVIDED BY ELECTRICAL CONTRACTOR) FROM NEW ROOF DRAIN DOWN IN PIPE TO HORIZONTAL PIPE BELOW GRADE. PLUMBING CONTRACTOR SHALL FIELD VERIFY LENGTH OF HEAT TRACING NEEDED. COORDINATE WITH ELECTRICAL CONTRACTOR.

GENERAL NOTES

1. THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL EXTENT OF THE WORK. PROVIDE PLUMBING SYSTEMS COMPLETE AND PER APPLICABLE CODES INCLUDING REQUIRED COMPONENTS, OFFSETS REQUIRED TO AVOID STRUCTURE, ETC.
2. CONTRACTOR SHALL COORDINATE THE INSTALLATION OF PLUMBING AND PIPING WITH THE WORK OF ALL OTHER TRADES.
3. PROVIDE ACCESS DOORS FOR CLEANOUTS OR VALVES LOCATED ABOVE HARD CEILINGS. COORDINATE WITH ARCHITECT. PROVIDE CODE REQUIRED CLEARANCE/ACCESS DOORS FOR ALL CLEANOUTS INSTALLED IN SANITARY WASTE AND VENT PIPING SYSTEMS.
4. COORDINATE LOCATIONS/SIZES OF ALL FLOOR/WALL PENETRATIONS AND SLEEVES WITH STRUCTURAL AND ARCHITECTURAL TRADES.

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NEGAUNEE PUBLIC SCHOOLS
2020 BOND PROJECTS - MIDDLE SCHOOL
NEGAUNEE, MI 49866
PROJECT NO. 20-907

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3RD FLOOR AND GYM
PLUMBING PLANS

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KEYNOTES

1. EXISTING DATA/COMMUNICATION TERMINATION EQUIPMENT TO REMAIN.
2. REMOVE EXISTING LIGHT FIXTURES AND SWITCHES IN THIS ROOM/AREA. RECONFIGURE EXISTING CIRCUITRY TO FEED AND CONTROL NEW LIGHTING AND SWITCHES AS INDICATED ON NEW WORK PLAN. PROVIDE NEW BLANK COVER PLATES FOR ALL DEVICE BOXES NOT BEING REUSED.
3. REMOVE EXISTING CONDUIT AND DEVICES, EXISTING BRACH CIRCUITRY SHALL BE REUSED.
4. PROVIDE EATON WAVELINX #W2SL-RLV 2 BUTTON LARGE RAISE/LOWER WALL STATION.
5. PROVIDE EATON WAC-120 WIRELESS AREA CONTROLLER.
6. PROVIDE APPROXIMATELY 100' HEAT TRACE (FIELD VERIFY EXACT LENGTH PRIOR TO ORDERING), RAYCHEM #GM1XT, CONNECTION KIT C75100A, ECW-GF THERMOSTAT, OR APPROVED EQUAL, IN EXISTING ROOF DRAIN. PROVIDE POWER CONNECTION FROM NEW ELECTRICAL PANEL '21A', SEE ALSO PANELBOARD SCHEDULE. PROVIDE 1 - 20A/2P 30mA RATED GFCI TYPE BRANCH CIRCUIT BREAKER. POWER FEED CONNECTIONS SHALL BE MADE AT ROOF LEVEL NEAR DRAIN, COORDINATE WORK TO MAINTAIN EXISTING ROOF WARRANTY.
7. PROVIDE APPROXIMATELY 75' HEAT TRACE (FIELD VERIFY EXACT LENGTH PRIOR TO ORDERING), RAYCHEM #GM1XT, CONNECTION KIT C75100A, ECW-GF THERMOSTAT, OR APPROVED EQUAL, IN EXISTING ROOF DRAIN, LOCATED IN LOWER LEVEL GYMNASIUM. PROVIDE POWER CONNECTION FROM NEW ELECTRICAL PANEL '21A', SEE ALSO PANELBOARD SCHEDULE. PROVIDE 1 - 20A/2P 30mA RATED GFCI TYPE BRANCH CIRCUIT BREAKER. POWER FEED CONNECTIONS SHALL BE MADE AT ROOF LEVEL NEAR DRAIN, COORDINATE WORK TO MAINTAIN EXISTING ROOF WARRANTY.
8. WIRELESS ACCESS POINT, BY OWNER. PROVIDE 1-CATEGORY 6 CABLE FROM DEVICE TO EXISTING DATA/COMMUNICATION TERMINATION RACK, SEE KEYNOTE #1. TERMINATE BOTH ENDS PER SPECIFICATIONS.
9. EXTEND EXISTING LIGHTING BRANCH CIRCUITRY, AHEAD OF SWITCH LEG, TO FEED FIXTURE.
10. PROVIDE LEVITON #PT5440 POKE-THRU FLOORBOX SYSTEM, WITH 2 DUPLEX RECEPTACLES, PT544 COVER WITH (1) 3/4" CONDUIT STUB AND (1) 1-1/2" CONDUIT STUB TO CEILING SPACE BELOW. PROVIDE 4-CATEGORY 6 (DATA) CABLES FROM OUTLET LOCATION TO EXISTING DATA RACK LOCATION, SEE KEYNOTE #1. TERMINATE BOTH ENDS PER SPECIFICATIONS. PROVIDE BRANCH CIRCUITRY FROM NEW ELECTRICAL PANEL '21A', SEE ALSO PANELBOARD SCHEDULE. PROVIDE SURFACE MOUNTED RACEWAY TO CONCEAL WIRING ALONG CLASSROOM CEILING BELOW.
11. LIGHT FIXTURE TO BE DUAL FED WITH SWITCH LEG FOR CONTROL AS INDICATED AND AHEAD OF SWITCH LEG FOR EMERGENCY BATTERY BACK-UP FEED. LIGHT FIXTURE TO BE CONTROLLED BY SWITCH LEG DURING NORMAL OPERATION AND AUTOMATICALLY TRANSFER 'ON' DURING NORMAL POWER FAILURE.
12. PROVIDE NEW SURFACE MOUNTED RACEWAY AND DEVICES AS INDICATED. EXTEND EXISTING BRANCH CIRCUIT WIRING AS REQUIRED TO FEED NEW DEVICES SHOWN.

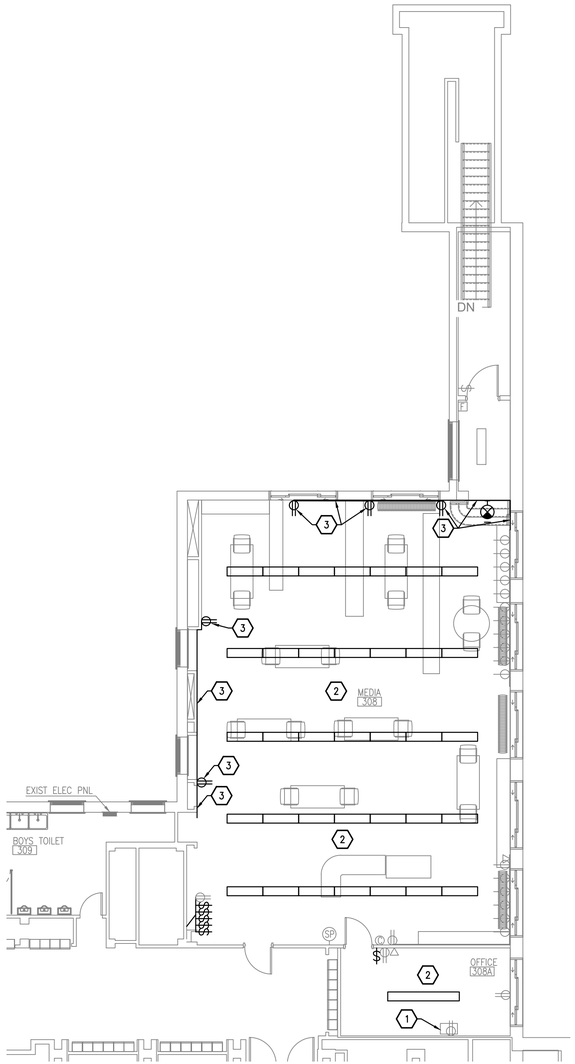
GENERAL NOTES

1. UNLESS NOTED OTHERWISE, ALL LIGHTING, DEVICES, EQUIPMENT, CIRCUITRY, ETC. DENOTED WITH BOLD (DARK) LINES REPRESENT WORK TO BE PERFORMED. ALL LIGHTING, DEVICES, EQUIPMENT, CIRCUITRY, ETC. DENOTED WITH LIGHT (SCREENED) LINES REPRESENT EXISTING TO REMAIN AND BE MAINTAINED.
2. EXISTING CONDITIONS SHOWN ON THESE DRAWINGS HAVE BEEN OBTAINED FROM EXISTING DRAWINGS AND FIELD INSPECTIONS. CONTRACTOR SHALL VERIFY EXACT LOCATIONS. REPORT DISCREPANCIES TO ARCHITECT/ENGINEER BEFORE DEMOLITION.
3. ALL NEW FEEDER AND BRANCH CIRCUIT CONDUIT AND WIRING SHALL BE RUN CONCEALED WITHIN EXISTING WALL CAVITIES OR ABOVE CEILINGS. EXPOSED RACEWAY ACCEPTABLE ONLY WHERE APPROVED BY OWNER, AND ENGINEER IN WHICH CASES WIREMOLD 700, OR EQUAL, SURFACE MOUNTED RACEWAY IS ACCEPTABLE. MATCH WALL COLOR. CONTRACTORS SHALL FIELD VERIFY EXISTING CONSTRUCTION CONDITIONS PRIOR TO BIDDING.

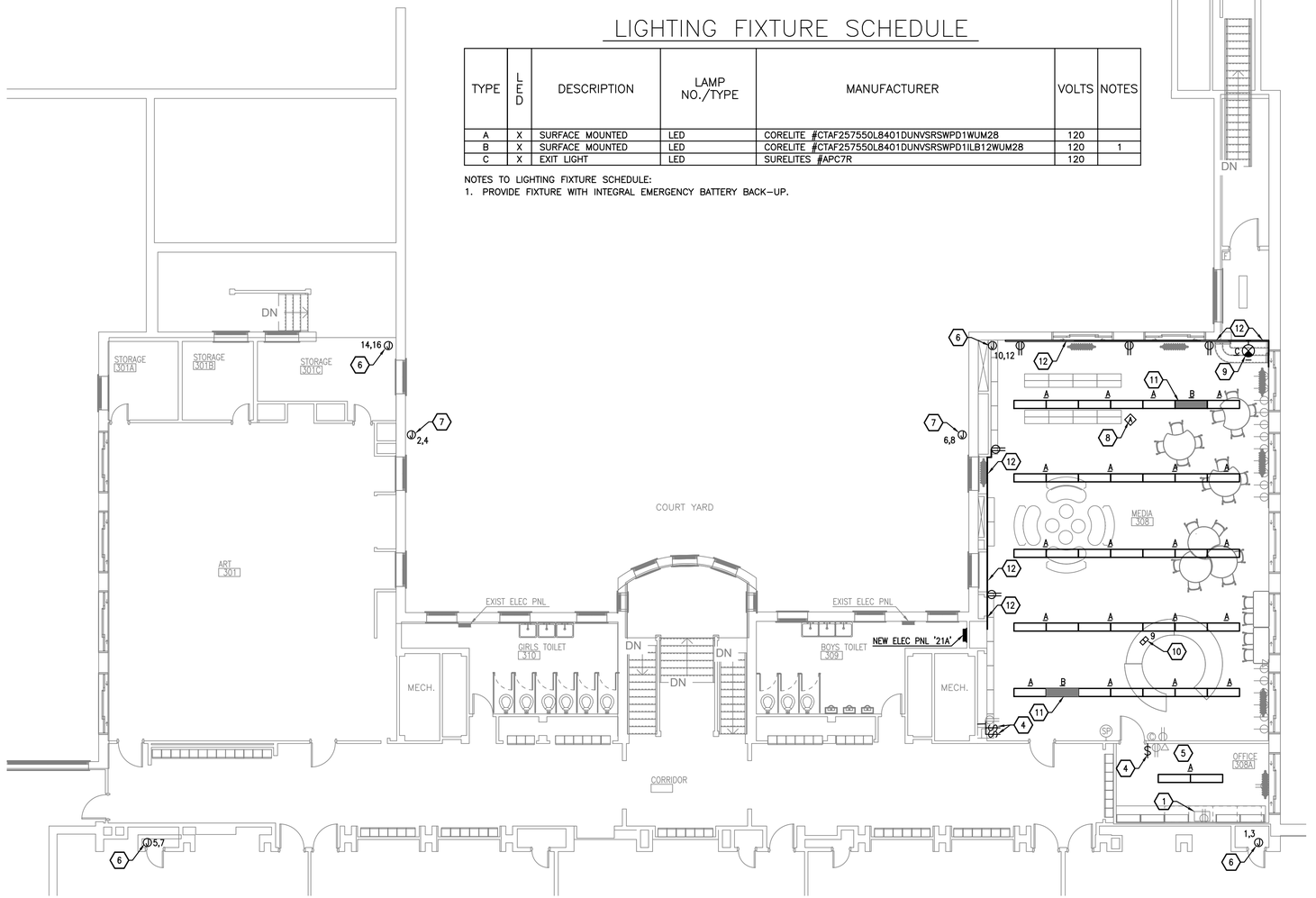
LIGHTING FIXTURE SCHEDULE

TYPE	LED	DESCRIPTION	LAMP NO./TYPE	MANUFACTURER	VOLTS	NOTES
A	X	SURFACE MOUNTED	LED	CORELITE #CTAF257550L8401DUNVSRSWPD1WUM28	120	
B	X	SURFACE MOUNTED	LED	CORELITE #CTAF257550L8401DUNVSRSWPD1ILB12WUM28	120	1
C	X	EXIT LIGHT	LED	SURELITES #APC7R	120	

NOTES TO LIGHTING FIXTURE SCHEDULE:
1. PROVIDE FIXTURE WITH INTEGRAL EMERGENCY BATTERY BACK-UP.



ELECTRICAL DEMOLITION PLAN
SCALE: 1/8" = 1'-0"



ELECTRICAL PLAN (NEW WORK)
SCALE: 1/8" = 1'-0"

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2020 BOND PROJECTS - MIDDLE SCHOOL
NEGAUNEE, MI
PROJECT NO. 20-907

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ELECTRICAL PLANS

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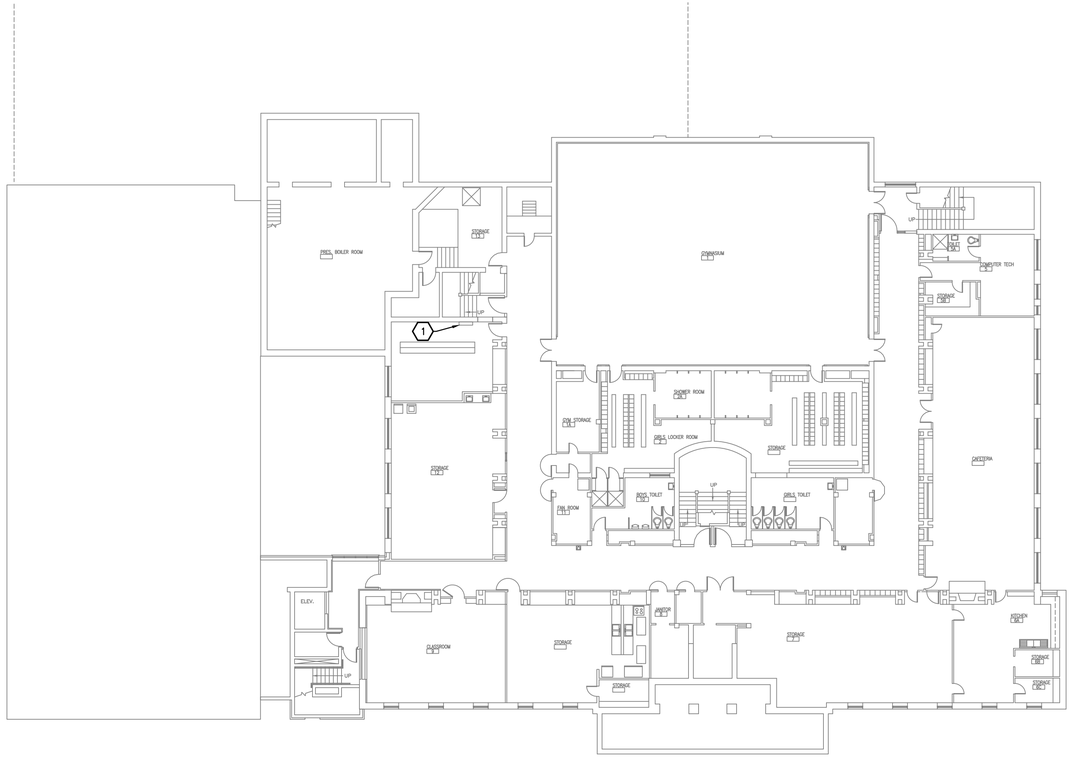
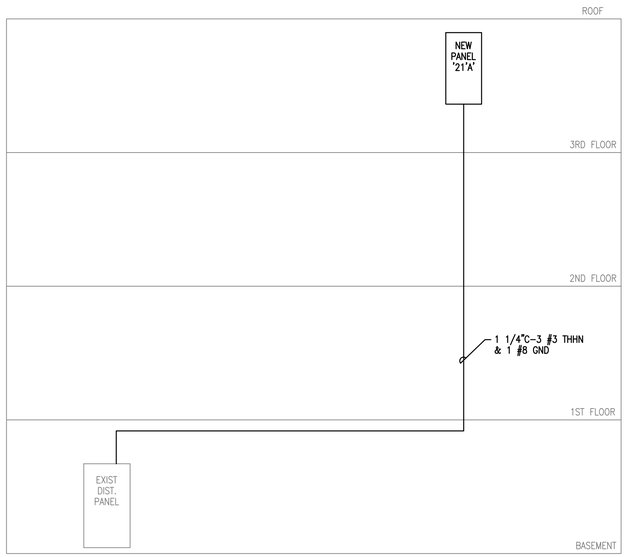
E1.0



BASEMENT ELECTRICAL PLAN

SCALE: 1/16" = 1'-0"

N



PARTIAL RISER DIAGRAM

N.T.S.

PANELBOARD SCHEDULE
PANEL '21-A'

100A, 120/240V, 1ø, 3W, MLO, SURF. MTD, 24 POLE

DESCRIPTION	CONN KVA	CCT BRKR AMP/POLES	CCT. NO.	CCT. NO.	CCT BRKR AMP/POLES	CONN KVA	DESCRIPTION
ROOF DRAIN HEAT TRACE SOUTHEAST	1.00	20/2 *	1A	2A	20/2 *	.50	ROOF DRAIN HEAT TRACE GYM
ROOF DRAIN HEAT TRACE SOUTHEAST	1.00	–	3B	4B	–	.50	ROOF DRAIN HEAT TRACE GYM
ROOF DRAIN HEAT TRACE SOUTHWEST	1.00	20/2 *	5A	6A	20/2 *	.50	ROOF DRAIN HEAT TRACE GYM
ROOF DRAIN HEAT TRACE SOUTHWEST	1.00	–	7B	8B	–	.50	ROOF DRAIN HEAT TRACE GYM
RECEP-MEDIA CENTER FLOOR BOX	.36	20/1	9A	10A	20/2 *	1.00	ROOF DRAIN HEAT TRACE MEDIA CTR
SPARE	–	20/1	11B	12B	–	1.00	ROOF DRAIN HEAT TRACE MEDIA CTR
SPACE	–	–	13A	14A	20/2 *	1.00	ROOF DRAIN HEAT TRACE ART RM
SPACE	–	–	15B	16B	–	1.00	ROOF DRAIN HEAT TRACE ART RM
SPACE	–	–	17A	18A	–	–	SPACE
SPACE	–	–	19B	20B	–	–	SPACE
SPACE	–	–	21A	22A	–	–	SPACE
SPACE	–	–	23B	24B	–	–	SPACE

* PROVIDE 30 mA RATED GFCI TYPE BREAKER

CONNECTED LOAD
PHASE A 5.36 KVA
PHASE B 5.00 KVA
TOTAL 10.36 KVA

10.36 KVA ⁄. [240 ⁄. 1000] = 43.17 A

KEYNOTES

1. EXISTING DISTRIBUTION PANEL. USE EXISTING SPARE 70A/2P BRANCH CIRCUIT DEVICE TO FEED NEW ELECTRICAL PANEL '21-A', LOCATED ON THIRD FLOOR. SEE SHEET E1.0 FOR PANEL LOCATION. SEE ALSO RISER DIAGRAM.

GENERAL NOTES

1. UNLESS NOTED OTHERWISE, ALL LIGHTING, DEVICES, EQUIPMENT, CIRCUITRY, ETC. DENOTED WITH BOLD (DARK) LINES REPRESENT WORK TO BE PERFORMED. ALL LIGHTING, DEVICES, EQUIPMENT, CIRCUITRY, ETC. DENOTED WITH LIGHT (SCREENED) LINES REPRESENT EXISTING TO REMAIN AND BE MAINTAINED.
2. EXISTING CONDITIONS SHOWN ON THESE DRAWINGS HAVE BEEN OBTAINED FROM EXISTING DRAWINGS AND FIELD INSPECTIONS. CONTRACTOR SHALL VERIFY EXACT LOCATIONS. REPORT DISCREPANCIES TO ARCHITECT/ENGINEER BEFORE DEMOLITION.

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NEGAUNEE PUBLIC SCHOOLS
2020 BOND PROJECTS - MIDDLE SCHOOL
NEGAUNEE, MI
PROJECT NO. 20-907

	BY	DATE
DESIGN	AJM	12.30.20
DRAWN	THH	12.30.20
CHECKED	AJM	3.15.21
APPROVED	AJM	3.16.21

NO.	REVISIONS	DATE
A	DESIGN DEVELOP	2.16.21
0	FOR CONSTRUCTION	3.16.21
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DETAILS

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E2.0