Ward Spaulding School **Preschool Classroom Renovations** FOR CONSTRUCTION

945 MOUNTAIN RD WEST SUFFIELD, CT 06093

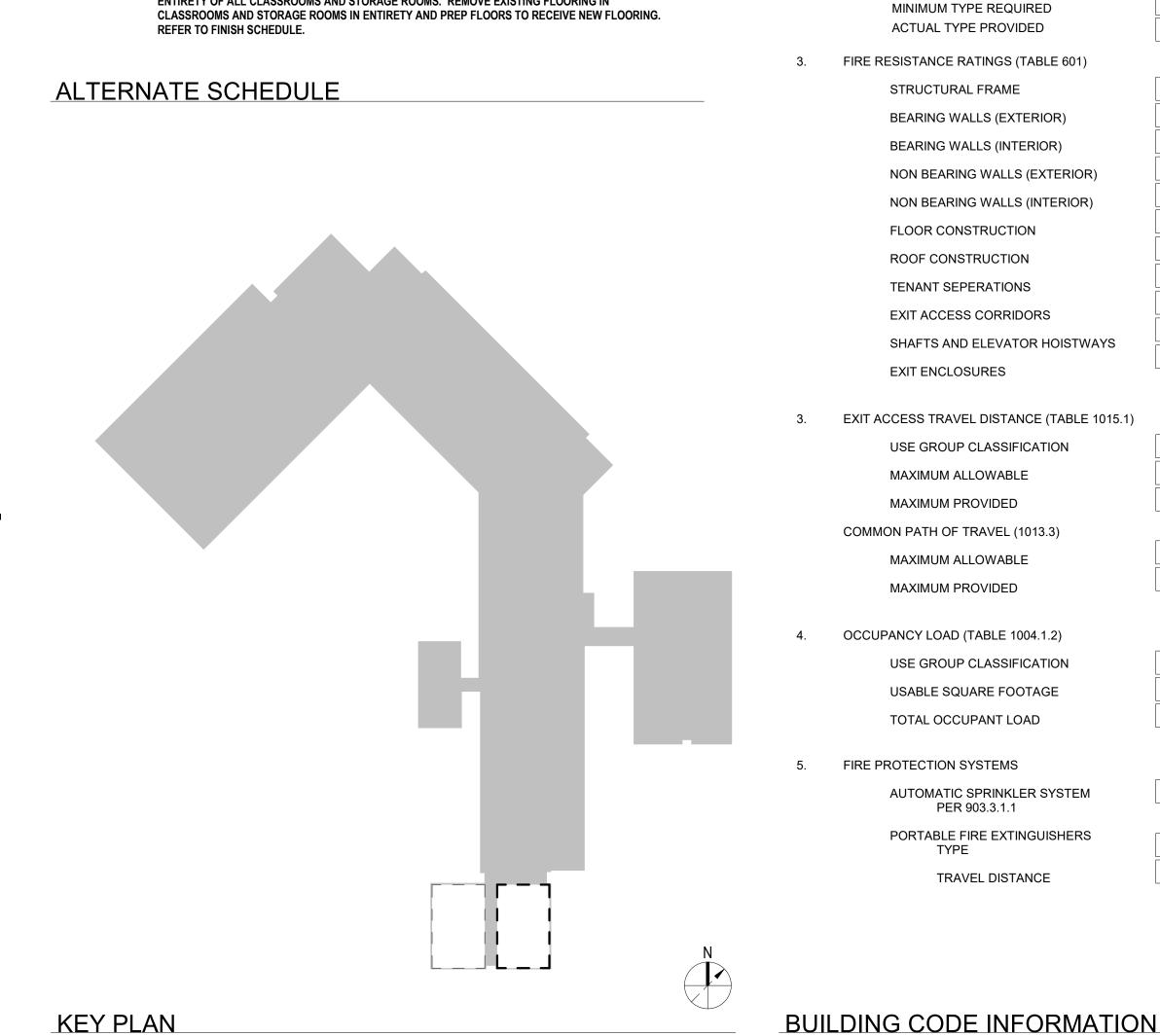
6.01.20

<u>ALTERNATE 1</u>

BASE SCOPE INCLUDES REMOVAL OF EXISTING CUBBIES IN ALL CLASSROOMS. AS ADD ALTERNATE PROVIDE CUSTOM MILLWORK: WALL-MOUNTED CUBBIES AND STORAGE CABINETS IN ALL CLASSROOMS. REFER TO 19/A1.21 FOR TYPICAL SECTION.

ALTERNATE 2

BASE SCOPE INCLUDES VINYL COMPOSITION TILE, VCT-1, IN STORAGE ROOMS AND CLASSROOMS, TO THE EXTENT INDICATED. AS ADD ALTERNATE, PROVIDE RUBBER FLOORING, RB-1, THROUGHOUT ENTIRETY OF ALL CLASSROOMS AND STORAGE ROOMS. REMOVE EXISTING FLOORING IN



STATE BUILDING CODE (IBC International Building Code 2015, as supplemented in 2018)

- 2015 INTERNATIONAL BUILDING CODE, 2018 CONNECTICUT SUPPLEMENT
- 2015 INTERNATIONAL FIRE CODE, 2018 CONNECTICUT SUPPLEMENT - 2010 AMERICANS WITH DISABILITIES ACT AND ASSOCIATED GUIDELINES
- 2009 ICC/ANSI A117.1 ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES, 2018 CONNECTICUT SUPPLEMENT 2015 INTERNATIONAL PLUMBING CODE, 2018 CONNECTICUT SUPPLEMENT
- 2015 INTERNATIONAL MECHANICAL CODE, 2018 CONNECTICUT SUPPLEMEN
- 2015 INTERNATIONAL ENERGY CONSERVATION CODE, 2018 CONNECTICUT SUPPLEMENT - 2017 NATIONAL ELECTRICAL CODE NFPA 70, 2018 CONNECTICUT SUPPLEMENT - 2015 INTERNATIONAL EXISTING BUILDING CODE, 2018 CONNECTICUT SUPPLEMENT

- 2018 CONNECTICUT STATE FIRE SAFETY CODE

APPLICABLE CODES:

Part I: ADMINISTRATIVE

Part II: GENERAL

Part III: NEW CONSTRUCTION, RENOVATION, OR CHANGE OF USE 2015 INTERNATIONAL FIRE CODE Part IV: EXISTING BUILDING / OCCUPANCIES

USE GROUP CLASSIFICATION (SECTION 304) E (EDUCATION) DAY CARE FACILITY FOR 3 TO 5-YEAR-OLDS CONSTRUCTION TYPE (TABLE 503) IIΒ IIB HR(S) 0 HR(S)

ERIOR)	0	HR(S)
(EXTERIOR)	0	HR(S)
(INTERIOR)	0	HR(S)
) N	0	HR(S)
N	0	HR(S)
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S	0	HR(S)
ORS	0	HR(S)
OR HOISTWAYS	0	HR(S)
		HR(S)

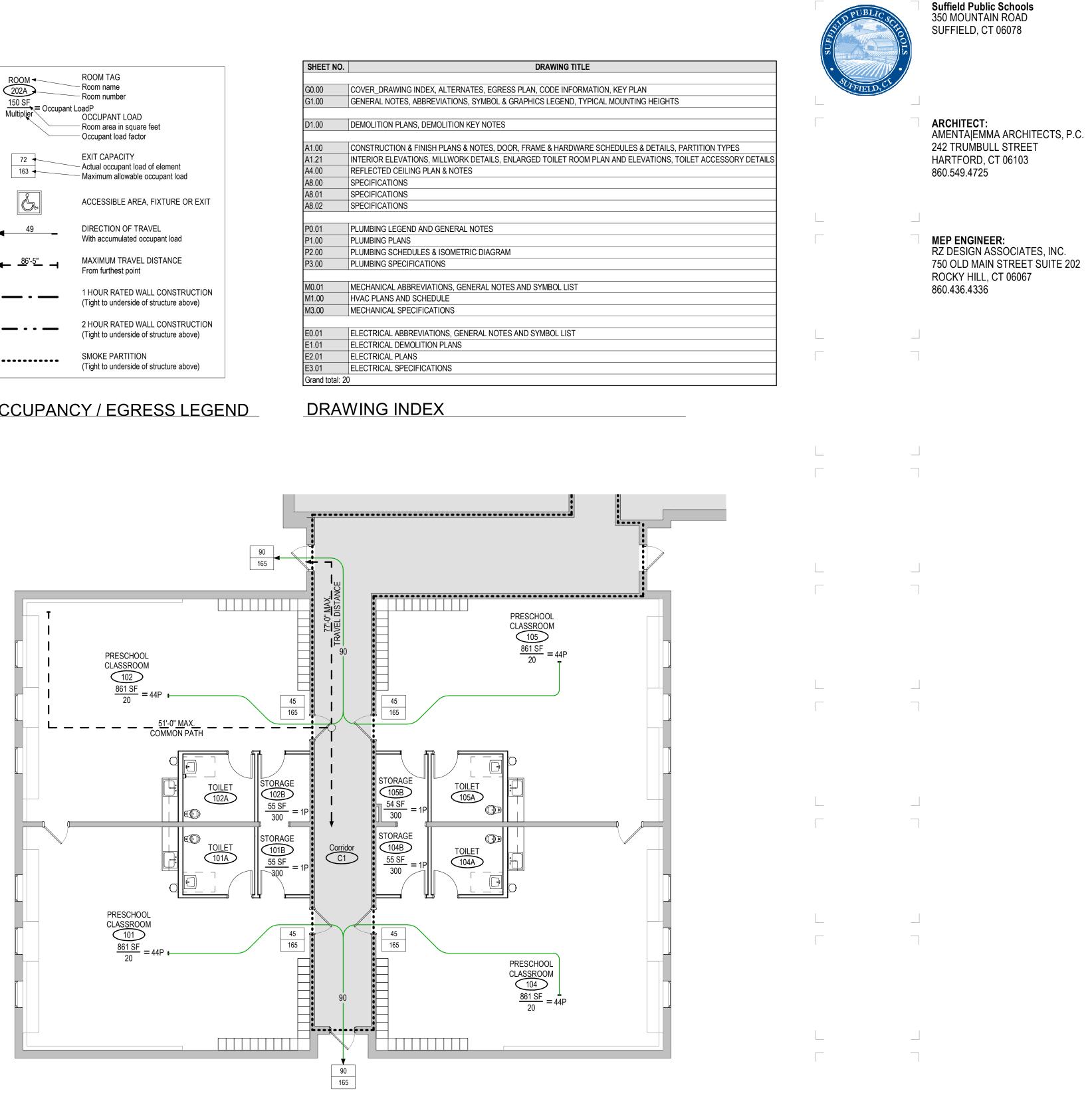
NCE (TABLE 1015.1)	
FICATION	E (EDUCATION)
LE	200'
)	77'
(1013.3)	
LE	75'
)	51'
1004.1.2)	
FICATION	E (EDUCATION)
OTAGE	4,032
	180

ER SYSTEM	
NGUISHERS	ABC 10 LB.
NCE	75' MAXIMUM

ROOM 202A 150 SF Multiplier	ROOM TAG — Room name — Room number LoadP OCCUPANT LOAD — Room area in square feet — Occupant load factor
72 • 163 •	EXIT CAPACITY — Actual occupant load of element — Maximum allowable occupant load
G	ACCESSIBLE AREA, FIXTURE OR EXIT
4 9 −	DIRECTION OF TRAVEL With accumulated occupant load
◄	MAXIMUM TRAVEL DISTANCE From furthest point
<u> </u>	1 HOUR RATED WALL CONSTRUCTION (Tight to underside of structure above)
	2 HOUR RATED WALL CONSTRUCTION (Tight to underside of structure above)
	SMOKE PARTITION (Tight to underside of structure above)

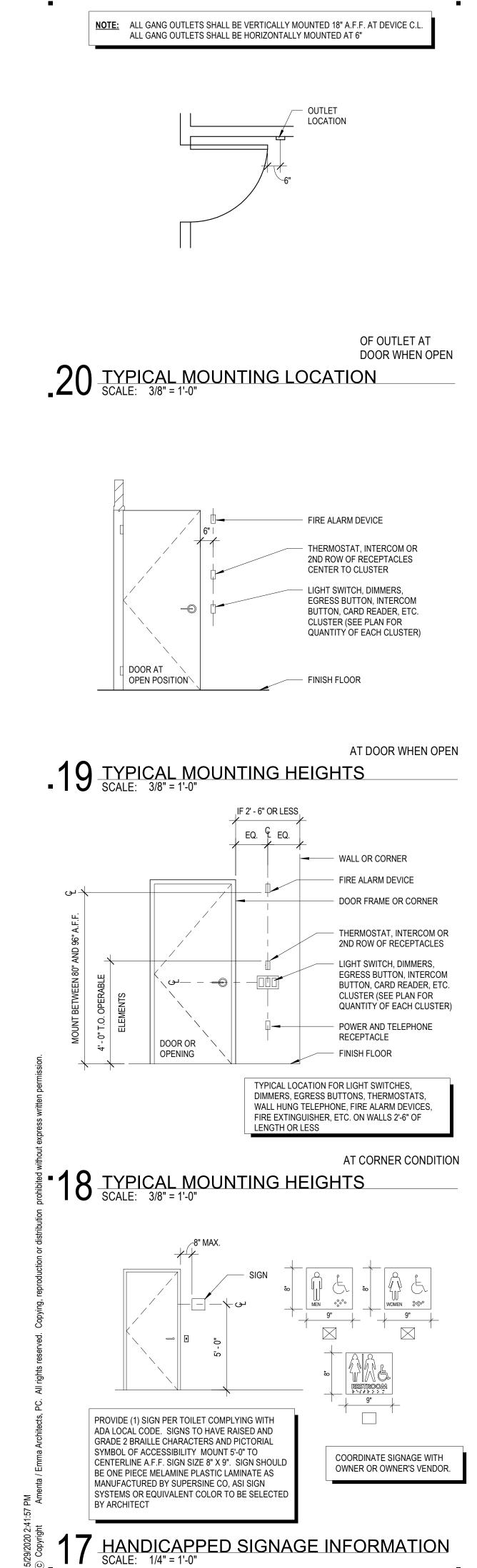
OCCUPANCY / EGRESS LEGI	END

SHEET NO.	
G0.00	COVER_DRAWING IN
G1.00	GENERAL NOTES, A
D1.00	DEMOLITION PLANS
A1.00	CONSTRUCTION & F
A1.21	INTERIOR ELEVATIO
A4.00	REFLECTED CEILING
A8.00	SPECIFICATIONS
A8.01	SPECIFICATIONS
A8.02	SPECIFICATIONS
P0.01	PLUMBING LEGEND
P1.00	PLUMBING PLANS
P2.00	PLUMBING SCHEDU
P3.00	PLUMBING SPECIFIC
M0.01	MECHANICAL ABBRI
M1.00	HVAC PLANS AND S
M3.00	MECHANICAL SPECI
E0.01	ELECTRICAL ABBRE
E1.01	ELECTRICAL DEMOL
E2.01	ELECTRICAL PLANS
E3.01	ELECTRICAL SPECIF
Grand total: 2	0



AMENTA EMMA

ARCHITECTS



GENERAL NOTES THE TERM CONTRACTOR IS USED IN THESE NOTES TO IDENTIFY THE PARTY WHO IS CONTRACT THE OWNER AND WHO CAUSES THE WORK OF THE CONTRACT TO BE PERFORMED EITHER BY HI OWN FORCES OR BY OTHER CONTRACTORS RETAINED BY HIM. THE CONTRACTOR SHALL DO THIS WORK IN ACCORDANCE WITH LOCAL LAWS AND ORDINANCE HAVING JURISDICTION. IN ADDITION TO THE THE BULDING PERMIT, THE CONTRACTOR SHALL OB ALL OTHER PERMITS AND APPROVALS AS REQUIRED BY LAW FOR THE COMPLETION OF THE WO AND ISSUANCE OF A FULL CERTIFICATE OF OCCUPANCY THE SUBMISSION OF A PROPOSAL BY THE CONTRACTOR WILL BE CONSTRUED AS EVIDENCE TH CAREFUL AND THOROUGH EXAMINATION OF THE SITE HAS BEEN MADE AND LATER CLAIMS FOR LABOR, MATERIALS OR EQUIPMENT REQUIRED OR FOR DIFFICULTIES ENCOUNTERED, WHICH CO HAVE BEEN FORESEEN HAD SUCH AN EXAMINATION BEEN MADE. WILL NOT BE RECOGNIZED. 17 SHALL ALSO CONSTITUTE A REPRESENTATION THAT THE CONTRACTOR HAS CHECKED AND VEF ALL QUANTITIES, WORK AND MATERIALS INVOLVED AND THAT HE SHALL TAKE RESPONSIBILITY ANY DEFICIENCIES THEREIN. BEFORE ORDERING ANY MATERIAL OR DOING ANY WORK, EACH TRADE SHALL VERIFY ALL MEASUREMENTS IN THE FIELD AND SHALL BE RESPONSIBLE FOR THE CORRECTNESS OF SAME. EXTRA CHARGE OR COMPENSATION WILL BE ALLOWED ON ACCOUNT OF DIFFERENCE BETWEEN ACTUAL DIMENSIONS AND THE MEASUREMENTS INDICATED ON THE DRAWINGS: ANY DISCREPA BETWEEN THE DRAWINGS AND FIELD CONDITIONS WHICH MAY BE FOUND SHALL BE SUBMITTED THE ARCHITECT FOR CONSIDERATION AND CLARIFICATION BEFORE PROCEEDING WITH THE WC ALL OF THE ARCHITECT'S DRAWINGS AND CONSTRUCTION NOTES ARE COMPLIMENTARY AND W IS CALLED FOR BY EITHER WILL BE BINDING AS IF CALLED FOR BY ALL: ANY WORK SHOWN OR REFERRED TO ON ANY ONE DRAWING SHALL BE PROVIDED AS THOUGH SHOWN ON ALL DRAWIN WHENEVER AN ITEM IS SPECIFIED AND/OR SHOWN ON THE DRAWINGS BY DETAIL OR REFERENCE SHALL BE CONSIDERED TYPICAL FOR OTHER ITEMS WHICH ARE OBVIOUSLY INTENDED TO BE TH SAME EVEN THOUGH NOT SO DESIGNATED OR SPECIFICALLY NAMED BUT DO SERVE THE SAME FUNCTION. THE WORK TO BE PERFORMED CONSISTS OF FURNISHING ALL LABOR, EQUIPMENT, TOOLS, TRANSPORTATION, SUPPLIES, FEES, MATERIALS, AND SERVICES IN ACCORDANCE WITH THESE NOTES AND DRAWINGS AND PERFORMING ALL OPERATIONS NECESSARY TO CONSTRUCT AND INSTALL COMPLETE AND IN SATISFACTORY CONDITION THE VARIOUS MATERIALS AND EQUIPME THE LOCATIONS SHOWN. IT IS INTENDED THAT THE DRAWINGS INCLUDE EVERYTHING REQUISIT AND NECESSARY TO FINISH THE ENTIRE WORK PROPERLY, NOTWITHSTANDING THE FACT THAT EVERY ITEM NECESSARILY INVOLVED MAY NOT BE SPECIFICALLY MENTIONED OR SHOWN. ANY WHICH MAY BE REASONABLY CONSTRUED AS INCIDENTAL TO THE PROPER AND SATISFACTORY COMPLETION OF THE WORK IN ACCORDANCE WITH THE INTENT OF THESE NOTES AND DRAWING HEREBY INCLUDED. THE CONTRACTOR SHALL ABIDE BY AND COMPLY WITH THE TRUE INTENT AND MEANING OF THE DRAWINGS AND NOTES TAKEN AS A WHOLE AND SHALL NOT AVAIL HIMSELF OF ANY OBVIOUS ERRORS OR OMISSIONS, SHOULD ANY EXIST. SHOULD ANY ERROR OR DISCREPANCY APPEAR ANY DOUBT ARISE AS TO THE TRUE MEANING OF THE DRAWINGS OR NOTES, THE CONTRACTOR SHALL BRING SUCH ITEMS TO THE ATTENTION OF THE ARCHITECT BEFORE SUBMISSION OF PROPOSAL FOR EXPLANATION OR CORRECTION OF SAME. AFTER THE SUBMISSION OF PROPOS THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR ALL SUCH ITEMS THE CHARACTER AND SCOPE OF THE WORK ARE ILLUSTRATED BY THE DRAWINGS AND NOTES. INTERPRET AND EXPLAIN THE DRAWINGS OTHER INFORMATION DEEMED NECESSARY BY THE ARCHITECT WILL BE FURNISHED TO THE CONTRACTOR WHEN AND AS REQUIRED BY THE WORK IT IS TO BE UNDERSTOOD THAT SAID ADDITIONAL INFORMATION OR DRAWINGS ARE TO BE OF EC FORCE WITH THESE. FULL SIZE OR LARGE SCALE DETAILS OR DRAWINGS SHALL GOVERN SMALL SCALE DRAWINGS V THEY ARE INTENDED TO AMPLIFY. DETAILS OR CONDITIONS INDICATED FOR A PORTION OF THE BUT NOT CARRIED OUT FULLY FOR OTHER PORTIONS SHALL APPLY THROUGHOUT TO ALL SIMIL PORTIONS EXCEPT AS OTHERWISE SPECIFICALLY NOTED. IN EVERY CASE THE GREATER QUAN OR A MORE EXPENSIVE ITEM OR METHOD SHALL BE ASSUMED OVER A LESSER QUANTITY OR A I EXPENSIVE ONE AND DIMENSIONS SHALL BE FIGURED RATHER THAN DETERMINED BY RULE OR SCALE. ALL PARTITIONS ARE DIMENSIONED TO THE FINISHED FACES OF WALLS. ALL PARTITION THICKNESSES SHOWN ARE NOMINAL DIMENSIONS. ALL MISCELLANEOUS WOOD BLOCKING, GROUNDS, FURRING AS REQUIRED, TO BE FIRE RETARE TREATED. THE PROJECT HAS BEEN DESIGNED AND DETAILED FOR THE SPECIFIC MATERIALS AND EQUIPM SPECIFIED. NO SUBSTITUTIONS SHALL BE MADE WITHOUT THE EXPRESS WRITTEN CONSENT OF ARCHITECT. IF THE SPECIFIED MATERIAL IS NOT AVAILABLE. THE CONTRACTOR SHALL PROPOSE ALTERNATE MATERIAL AND SHALL PROVIDE DRAWINGS, SAMPLES, SPECIFICATIONS, MANUFACTURER'S LITERATURE, PERFORMANCE DATA, ETC. IN ORDER THAT THE ARCHITECT CA EVALUATE THE PROPOSED SUBSTITUTION. IF THE SUBSTITUTION AFFECTS A CORRELATED FUNCTION, ADJACENT CONSTRUCTION, OR THE WORK OF ANY OTHER CONTRACTOR OR TRADE NECESSARY CHANGES AND MODIFICATIONS TO THE AFFECTED WORK SHALL BE SUBMITTED WIT THE SUBSTITUTION AND ACCOMPLISHED BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO OWNER. NO REQUESTS FOR SUBSTITUTES WILL BE ENTERTAINED BY THE ARCHITECT DUE TO CONTRACTOR'S FAILURE TO ORDER MATERIALS IN A TIMELY MANNER. THE STANDARD SPECIFICATIONS OF THE MANUFACTURERS APPROVED FOR USE IN THE PROJECTION ARE HEREBY MADE A PART OF THESE NOTES WITH THE SAME FORCE AND EFFECT AS THOUGH HEREIN WRITTEN OUT IN FULL, EXCEPT THAT WHEREVER THE DRAWINGS REQUIRE HEAVIER MEMBERS, BETTER QUALITY MATERIALS OR ARE OTHERWISE MORE STRINGENT, THESE STRING REQUIREMENTS SHALL GOVERN. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IMMEDIATELY IF HE CANNOT FOR ANY REASO COMPLY WITH ALL THE REQUIREMENTS OF THESE NOTES AND DRAWINGS. THE CONTRACTOR SHALL COORDINATE AND SUPERVISE THE WORK OF ALL SUB-CONTRACTORS SHALL BE RESPONSIBLE FOR GIVING ALL TRADES SUCH INFORMATION, PLANS OR DETAILS AS M REQUIRED FOR THE PROPER INSTALLATION AND COMPLETION OF THEIR WORK. THE CONTRACTOR SHALL SUBMIT ALL FABRICATION SHOP DRAWINGS, SAMPLES, AND FIXTURE FOR THE ARCHITECT'S REVIEW AS REQUIRED AND/OR INDICATED ON DRAWINGS. THE ARCHITEC REVIEW SHALL NOT BE CONSTRUED AS AN INDICATION THAT SUBMITTAL IS CORRECT OR SUITA NOR THAT WORK REPRESENTED BY SUBMITTAL COMPLIES WITH THE DRAWINGS. EXCEPT AS T MATTERS OF FINISH, COLOR, AND OTHER AESTHETIC MATTERS. ACTION NOTED ABOVE DOES N RELIEVE THE CONTRACTOR FROM RESPONSIBILITY TO COORDINATE ALL TRADES AND TO CHEC QUANTITIES AND DIMENSIONS AGAINST CONDITIONS IN THE FIELD. CONTRACTORS AND ENGINE SHALL ASSUME RESPONSIBILITY FOR ALL ERRORS ON THEIR DRAWINGS. ALL MATERIALS REQUIRED FOR THE PERFORMANCE OF THIS CONTRACT SHALL BE NEW AND OF BEST QUALITY OF KINDS SPECIFIED, ALL SUBJECT TO THE APPROVAL OF THE ARCHITECT. THE OF OLD OR SECOND-HAND MATERIALS IS STRICTLY FORBIDDEN. THE CONTRACTOR SHALL, IF REQUIRED, FURNISH SATISFACTORY EVIDENCE AS TO THE KIND AND QUALITY OF MATERIALS AI WORKMANSHIP. MATERIALS SHALL BE USED IN ACCORDANCE WITH MANUFACTURER'S PRINTED INSTRUCTIONS. UPON REQUEST, THE MANUFACTURER'S REPRESENTATIVE SHALL GO TO THE S AND INSTRUCT THE MECHANICS IN THE USE OF THE MATERIALS OR SHALL SUPERVISE THEIR US THE CONTRACTOR SHALL PROVIDE BLOCKING AT ALL LOCATIONS FOR SCHEDULED WALL CABIN AND/OR TV WALL MOUNTING BRACKETS; REFER TO DRAWINGS FOR LOCATION. FOR THE EXECUTION OF THE WORK TO BE PERFORMED UNDER THIS CONTRACT AND FOR THE MANUFACTURE OR TRANSPORTATION OF ANY OF THE MATERIALS OR EQUIPMENT TO BE USED INSTALLED, THE CONTRACTOR SHALL EMPLOY ONLY SUCH LABOR THROUGHOUT AS WILL NOT INTERFERE WITH THE SPEEDY AND UNINTERRUPTED COMPLETION OF THE PROJECT. ALL WOR SHALL BE DONE BY MECHANICS SKILLED IN THEIR TRADE AND SHALL BE INSTALLED IN A NEAT AI WORKMANLIKE MANNER IN ACCORDANCE WITH THE BEST TRADE PRACTICES. ANY MATERIALS DELIVERED OR WORK PERFORMED, CONTRARY TO THE DRAWINGS AND SPECIFICATIONS AND APPROVED SHOP DRAWINGS, SHALL BE REMOVED BY THE CONTRACTOR A OWN EXPENSE, AND THE SAME SHALL BE REPLACED WITH OTHER MATERIALS OR WORK SATISFACTORY TO THE ARCHITECT. THE CONTRACTOR SHALL ALSO ASSUME THE COST OF REPLACING THE WORK WHICH MAY BE DISTURBED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROPERLY AND ACCURATELY LAYING OUT THE WORK AND FOR THE LINES AND MEASUREMENTS HEREIN. HE SHALL ESTABLISH NECESSARY REFERENCE LINES AND PERMANENT BENCH MARKS FROM WHICH BUILDING LINES AND ELEVATION SHALL BE TAKEN. ELEVATION HEIGHTS OF ALL WORK INCLUDING BUT NOT LIMITED TO SOFFITS, CEILINGS, DOORS, HOLLOW METAL SHALL BE TRUE AND LEVEL WITHIN A MAXIMUM TOLERANCE 1/8" OVERALL THE ENTIRE PROJECT. FOR ALL PARTITIONS REFER TO PARTITION SYMBOLS ON DRAWINGS AND THE PARTITION TYPE DETAILS WHICH SHOWS PARTITION CORES AND FINISHES. REFER TO LIFE SAFETY DRAWINGS FO

LOCATION OF RATED PARTITIONS, IF APPLICABLE. THE CONTRACTOR SHALL KEEP THE ARCHITECT INFORMED OF THE PROGRESS OF HIS WORK. N WORK SHALL BE CLOSED OR COVERED UNTIL IT HAS BEEN DULY INSPECTED AND APPROVED. SHOULD UNINSPECTED WORK BE COVERED, THE CONTRACTOR SHALL, AT HIS OWN EXPENSE UNCOVER ALL SUCH WORK SO THAT IT CAN BE PROPERLY INSPECTED AND AFTER SUCH INSPEC HE SHALL PROPERLY REPAIR AND REPLACE ALL WORK INTERFERED WITH.

THE WORK IS SUBJECT TO INSPECTION BY THE ARCHITECT AND ACCEPTANCE BY THE OWNER. PROTECT OWNER'S PROPERTY, EQUIPMENT AND EMPLOYEES FROM INJURY AND DAMAGE. ALL HVAC, PLUMBING, SPRINKLER AND ELECTRICAL LINES ARE TO BE COORDINATED SO THAT NO CONFLICTS OCCUR. ANY CONFLICTS WHICH RESULT IN A RELOCATION OF A FINISHED SURFACE BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER PRIOR TO INSTALLATION. CONTRACTOR SHALL CONSULT WITH ELECTRICAL AND PLUMBING SUB-CONTRACTORS FOR

LOCATIONS OF CONDUIT AND PIPES IN FOUNDATION, SLABS ON GRADE, AND EXTERIOR WALLS A SHALL INSTALL WATERTIGHT PIPE SLEEVES AT THEIR RESPECTIVE LOCATIONS.

12 GENERAL NOTES

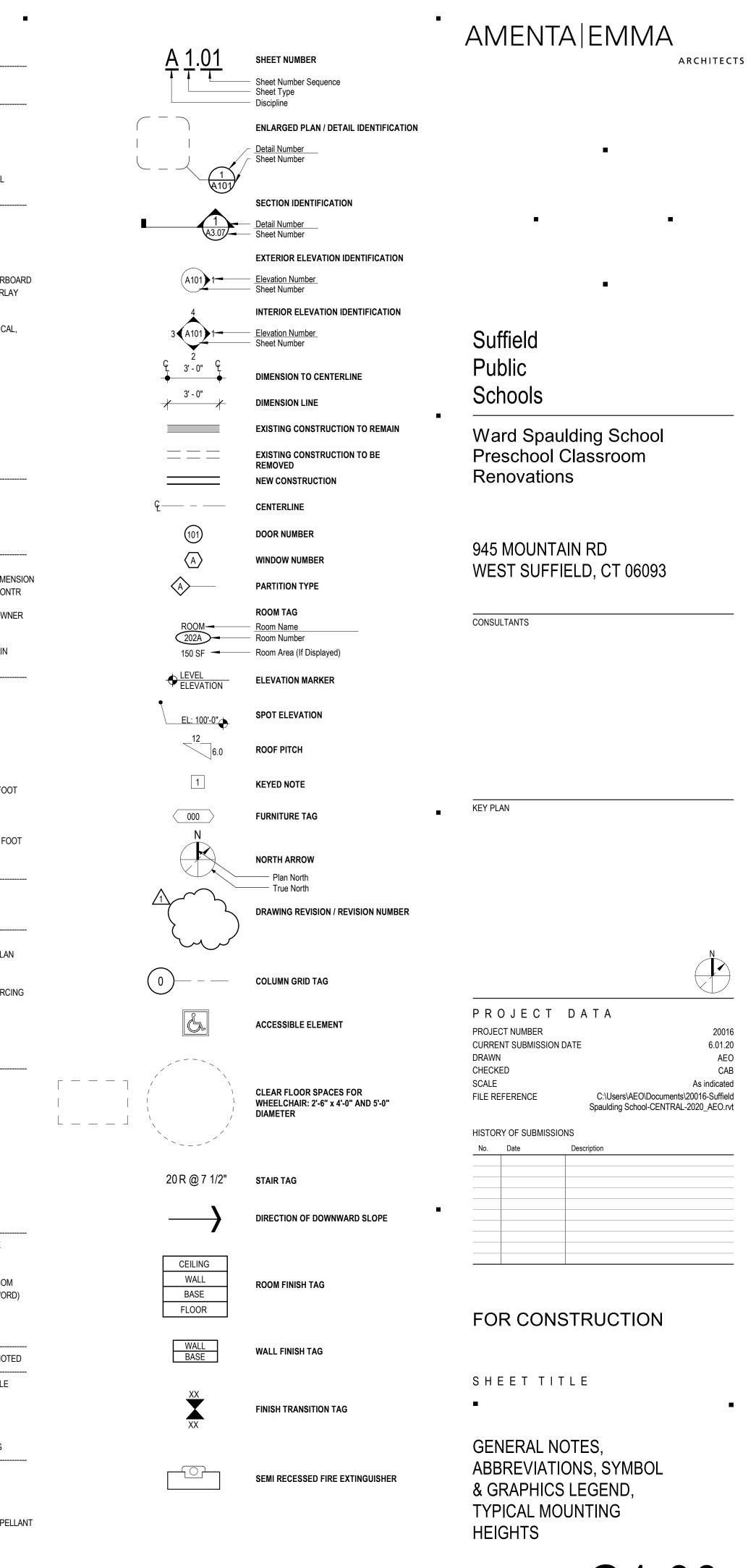
_	A SET OF THE INSTRUCTION MANUALS AND INSTALLATION INSTRUCTIONS OF ALL EQUIPMENT AND ACCESSORIES INSTALLED IN THIS JOB SHALL BE KEPT BY THE CONTRACTOR AND TURNED OVER TO
28	THE OWNER AT THE COMPLETION OF THE JOB. IN ADDITION, AS-BUILT DRAWINGS OF THE
29	COMPLETED WORK ARE TO BE COMPLETED, SIGNED AND SEALED, AND DELIVERED TO THE ARCHITECT AND OWNER AT THE COMPLETION OF THE JOB. PROVIDE ADEQUATE BACKUP AND BLOCKING FOR ALL WALL OR CEILING MOUNTED EQUIPMENT, ARCHITECTURAL WOODWORK, HANDRAILS, LIGHTING OR OTHER MISCELLANEOUS ITEMS AS SHOWN
30	ON DRAWINGS TO ASSURE A SECURE INSTALLATION. SUBMITTALS THAT REQUIRE THE REVIEW OF THE ARCHITECT/ENGINEERING TEAM SHALL BE DELIVERED IN DIGITAL FORMAT, AND IF REQUIRED BY THE ARCHITECTURE/ENGINEERING TEAM, BE SUBMITTED AS HARDCOPY AS WELL. A SEVEN (7) BUSINESS DAY PERIOD OF TIME WILL BE ALOTTED FOR ARCHITECT'S/ENGINEER'S REVIEW OF THE CONSTRUCTION SUBMITTAL, AND IT CANNOT BE GUARANTEED THAT AN EXPEDITED SCHEDULE CAN BE ACCOMMODATED.
31	THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING OR OBTAINING SHOP DRAWINGS FROM THE SUBCONTRACTORS AND MANUFACTURERS. THE APPROVAL AND SUBMITTAL OR SHOP DRAWINGS T THE ARCHITECT REPRESENTS THAT THE CONTRACTOR HAS REVIEWED AND VERIFIED THE USE OF APPROPRIATE MATERIALS, PROPER FIELD MEASUREMENTS, FIELD CONSTRUCTION REQUIREMENTS, AND HAVE COORDINATED THE INFORMATION CONTAINED IN THE SUBMITTAL. DEVIATIONS FROM THI CONTRACT DOCUMENTS MUST BE CALLED TO THE ATTENTION OF THE ARCHITECT IN WRITING AND
	REQUIRES SPECIFIC APPROVAL OF THE ARCHITECT. ARCHITECTURAL APPROVAL OF THE SHOP DRAWINGS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF ERRORS OR OMISSIONS, PER AIA DOCUMENT A201-2007 STANDARDS.
32	ALL QUESTIONS TO THE ARCHITECT/ENGINEERING TEAM SHALL BE SUBMITTED AS REQUEST'S FOR INFORMATION (RFI'S), WITH THE CONSTRUCTION MANAGER'S LETTERHEAD. THE CONSTRUCTION MANAGER WILL PROVIDE A NUMBER TO THE RFI. A ONE (1) WEEK PERIOD OF TIME WILL BE ALOTTED FOR ARCHITECTURAL/ENGINEERING REVIEW OF THE RFI. ALL CORRESPONDENCE REGARDING RFI'S WILL BE FROM THE CONSTRUCTION MANAGER TO THE ARCHITECT. THE ARCHITECT WILL DISSEMINATE THE INFORMATION TO THE APPROPRIATE ENGINEER'S IF REQUIRED. NO SUB-CONTRACTOR IS TO CONTACT THE ARCHITECT OR ENGINEER WITH A QUESTION DIRECTLY; ALL
33	QUESTIONS TO THE ARCHITECTURE/ENGINEERING TEAM SHALL BE SENT THROUGH THE CONSTRUCTION MANAGER. A. THE PREMISES AND THE JOB SITE SHALL BE MAINTAINED IN A REASONABLY NEAT AND ORDERLY
	CONDITION AND KEPT FREE FROM ACCUMULATIONS OF WASTE MATERIALS AND RUBBISH DURING THE ENTIRE CONSTRUCTION PERIOD. REMOVE CRATES, CARTONS AND OTHER FLAMMABLE WASTE MATERIALS OR TRASH FROM THE WORK AREAS AT THE END OF EACH WORKING DAY.
	 B. ELECTRICAL CLOSETS, PIPE AND DUCT SHAFTS, CHASES, FURRED SPACES AND SIMILAR SPACES WHICH ARE GENERALLY UNFINISHED SHALL BE CLEANED AND LEFT FREE FROM RUBBISH, LOOSE PLASTER, MORTAR DRIPPINGS, EXTRANEOUS CONSTRUCTION MATERIALS, DIRT AND DUST. C. CARE SHALL BE TAKEN BY WORKMEN NOT TO MARK, SOIL, OR OTHERWISE DEFACE FINISHED
	SURFACES. IN THE EVENT THAT FINISHED SURFACES BECOME DEFACED, THE CONTRACTOR IS RESPONSIBLE FOR CLEANING AND RESTORING SUCH SURFACES TO THEIR ORIGINAL CONDITION. IF THIS IS NOT POSSIBLE, DAMAGED SURFACES SHALL BE REPLACED.
	D. CLEAN UP IMMEDIATELY UPON COMPLETION OF EACH TRADE'S WORK.E. CLEAN AREAS OF THE BUILDING IN WHICH PAINTING AND FINISHING WORK IS TO BE PERFORMED
	JUST PRIOR TO THE START OF THIS WORK, AND MAINTAIN THESE AREAS IN SATISFACTORY CONDITION FOR PAINTING AND FINISHING.
	F. THIS CLEANING INCLUDES THE REMOVAL OF TRASH AND RUBBISH FROM THESE AREAS, BROOM CLEANING OF FLOORS, THE REMOVAL OF ANY PLASTER, MORTAR, DUST AND OTHER EXTRANEOUS MATERIALS FROM FINISH SURFACES, INCLUDING BUT NOT LIMITED TO, MISCELLANEOUS METAL, WOODWORK, PLASTER, GYPSUM DRYWALL, MASONRY, CONCRETE, MECHANICAL AND ELECTRICAL EQUIPMENT, PIPING, DUCTWORK, CONDUIT, AND SURFACES VISIBLE AFTER GRILLES, REGISTERS AN OTHER SUCH FIXTURES OR DEVICES ARE IN PLACE.
	G. IN ADDITION TO THE CLEANING SPECIFIED ABOVE AND THE MORE SPECIFIC CLEANING WHICH MAY BE REQUIRED IN VARIOUS SECTIONS OF THE SPECIFICATIONS, THE PREMISES SHALL BE PREPARED FOR OCCUPANCY BY:
	(i)A THOROUGH CLEANING THROUGHOUT INCLUDING WASHING OR CLEANING BY OTHER APPROVED METHODS OF ALL FLOORS AND SURFACES ON WHICH DIRT OR DUST HAS COLLECTED AND BY WASHING GLASS, REMOVING ALL PAINT, PUTTY AND STAINS THEREFROM.
	METHODS OF ALL FLOORS AND SURFACES ON WHICH DIRT OR DUST HAS COLLECTED AND BY WASHING GLASS, REMOVING ALL PAINT, PUTTY AND STAINS THEREFROM. (ii)PROVIDING AND MAINTAINING PROTECTION OF EXISTING AND INSTALLED PORTIONS OF THE WOR
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GENERAL NOTES

(E)	EXISTING
(N)	NEW
(R)	RELOCATED
A: AC	AIR CONDITIONING
ACC	ACCESSIBLE
ACT	ACOUSTICAL CEILING TILE
ADD	ADDITIONAL
ADJ	ADJUSTABLE
AFF	ABOVE FINISH FLOOR
ALT	ALTERNATE
ALUM	ALUMINUM
APPROX	APPROXIMATE
ARCH	ARCHITECTURAL
AV B	AUDIO VISUAL
BD	BOARD
BLDG	BUILDING
BO	BOTTOM OF
BUR	BUILT-UP ROOFING
C CB	CATCH BASIN
CG CIP	CORNER GUARD
CJ	CAST-IN-PLACE CONTROL / CONSTRUCTION JOINT
CL	CENTER LINE
CLG	CEILING
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
CO	CLEANOUT
COL	COLUMN
CONC	CONCRETE
CONT	CONTINUOUS
COORD	COORDINATE
CORR	CORRIDOR
CT	CERAMIC TILE
CW D	COLD WATER
DEMO	
DEPT	DEPARTMENT
DF	DRINKING FOUNTAIN
dia	DIAMETER
Dim	DIMENSION
DISP	DISPENSER
DN	DOWN
DO	DOOR OPENING
DP	DIMENSION POINT
DR	DOOR
DS	DOWNSPOUT
DW	DISHWASHER
DWG	DRAWING
E EA	EACH
EFS	EXTERIOR INSULATION & FINISH SYSTEM
EIFS	EXTERIOR FINISH SYSTEM
EJ	EXPANSION JOINT
EL	ELEVATION
ELECT	ELECTRICAL
ELEV	ELEVATOR
EMERG	EMERGENCY
EQ	EQUAL
EQUIP	EQUIPMENT
EWC	ELECTRICAL WATER COOLER
EXH	EXHAUST
EXIST	EXISTING
EXT	EXTERIOR
FD	FLOOR DRAIN
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FF&E	FURNITURE, FINISHES, & EQUIPMENT
FFEL	FINISH FLOOR ELEVATION
FHC	FIRE HOSE CABINET
FL	FLOOR
FND	FOUNDATION
FO	FACE OF
FP	FIRE PROTECTION
FPG	FIREPROOFING
FRTW	FIRE RETARDANT TREATED
FT	WOOD FEET
FURN	FURNITURE
FWC	FABRIC WALLCOVERING
FWP	FABRIC WRAPPED PANEL GROUND
G	
ga	GAUGE / GAGE
Galv	GALVANIZED
GC	GENERAL CONTRACTOR
GFRC	GLASS FIBER REINFORCED
GFRG	CONCRETE GLASS RIBER REINFORCED
GL	GYPSUM GLASS
GYPBD H	GYPSUM WALLBOARD
HB	HOSE BIB
HC	HOLLOW CORE
HCP	HANDICAPPED
HDWD	HARDWOOD
HDWR	HARDWARE
HM	HOLLOW METAL (STEEL FRAME)
HORIZ	HORIZONTAL
HR HVAC	HOUR HEATING, VENTILATION, AIR CONDITIONING
HW	HOT WATER
I ID	INSIDE DIAMETER
IN	INCH
INCL	INCLUDED / INCLUDING
INSUL	INSULATION
INT	INTERIOR
INV	INVERT

AN	JANITOR
C	JANITOR'S CLOSET
AB	LABORATORY
AM	LAMINATE
AV	LAVATORY
3	POUND
=	LINEAR FOOT
_H	LONG LEG HORIZONTAL
_V	LONG LEG VERTICAL
ACH	MACHINE
AINT	MAINTENANCE
ATL	MATERIAL
AX	MAXIMUM
BL	MARBLE
DF	MEDIUM DENSITY FIBERBOA
DO	MEDIUM DENSITY OVERLAY
ECH EP EZZ FR H IN	PLYWOOD MECHANICAL MECHANICAL, ELECTRICAL, PLUMBING MEZZANINE MANUFACTURER MANHOLE MINUMUM
ISC M O TD TG	MISCELLANEOUS MILLIMETER MASONRY OPENING MOUNTED MOUNTING NORTH
A	NOT APPLICABLE
C	NOISE CRITERIA
IC	NOT IN CONTACT
OM	NOMINAL
TS	NOT TO SCALE
C D FCI FOI PP RD VHD	ON CENTER OUTSIDE DIAMETER/DIMENS OWNER FURNISHED, CONTR INSTALLED OWNER FURNISHED, OWNEF INSTALLED OPPOSITE OVERFLOW ROOF DRAIN OVERHEAD
BD C ERF	PAINT PARTICLEBOARD PRECAST CONCRETE PERFORATED
ERIM	PERIMETER
ERP	PERPENDICULAR
L	PLATE
LAM	PLASTIC LAMINATE
LF	POUNDS PER LINEAR FOOT
R	PAIR
REFAB	PREFABRICATED
ROJ	PROJECT
SF	POUNDS PER SQUARE FOOT
T	POINT
TD	PAINTED
T	QUARRY TILE
TY	QUANTITY
F.E.C	RADIUS OR RISER
B	RESILIENT BASE
CP	REFLECTED CEILING PLAN
D	ROOF DRAIN
EF	REFERENCE
EINF	REINFORCED / REINFORCING
EQ'D	REQUIRED
EV	REVISION/REVISED
M	ROOM
O	ROUGH OPENING
WL	RAIN WATER LEADER
C	SOLID CORE
CHED	SCHEDULE
F	SQUARE FEET/FOOT
IM	SIMILAR
P	STANDPIPE
PEC	SPECIFICATION
Q	SQUARE
S	STAINLESS STEEL
TD	STANDARD
TL	STEEL
TOR	STORAGE
TRUCT	STRUCTURAL
&G C EL O V W YP	TONGUE AND GROOVE TREAD TOP OF CURB TELEPHONE OR TELECOM TOP OF (SEE OTHER WORD) TELEVISION TOP OF WALL TYPICAL
.O.N.	UNLESS OTHERWISE NOTED
CT	VINYL COMPOSTION TILE
ERT	VERTICAL
EST	VESTIBULE
IF	VERIFY IN FIELD
T	VINYL TILE
WC	VINYL WALL COVERING
/	WITHOUT
//O	WATER CLOSET
//D	WOOD
//P	WORK POINT
//R	WATER RESISTENT/REPELL/

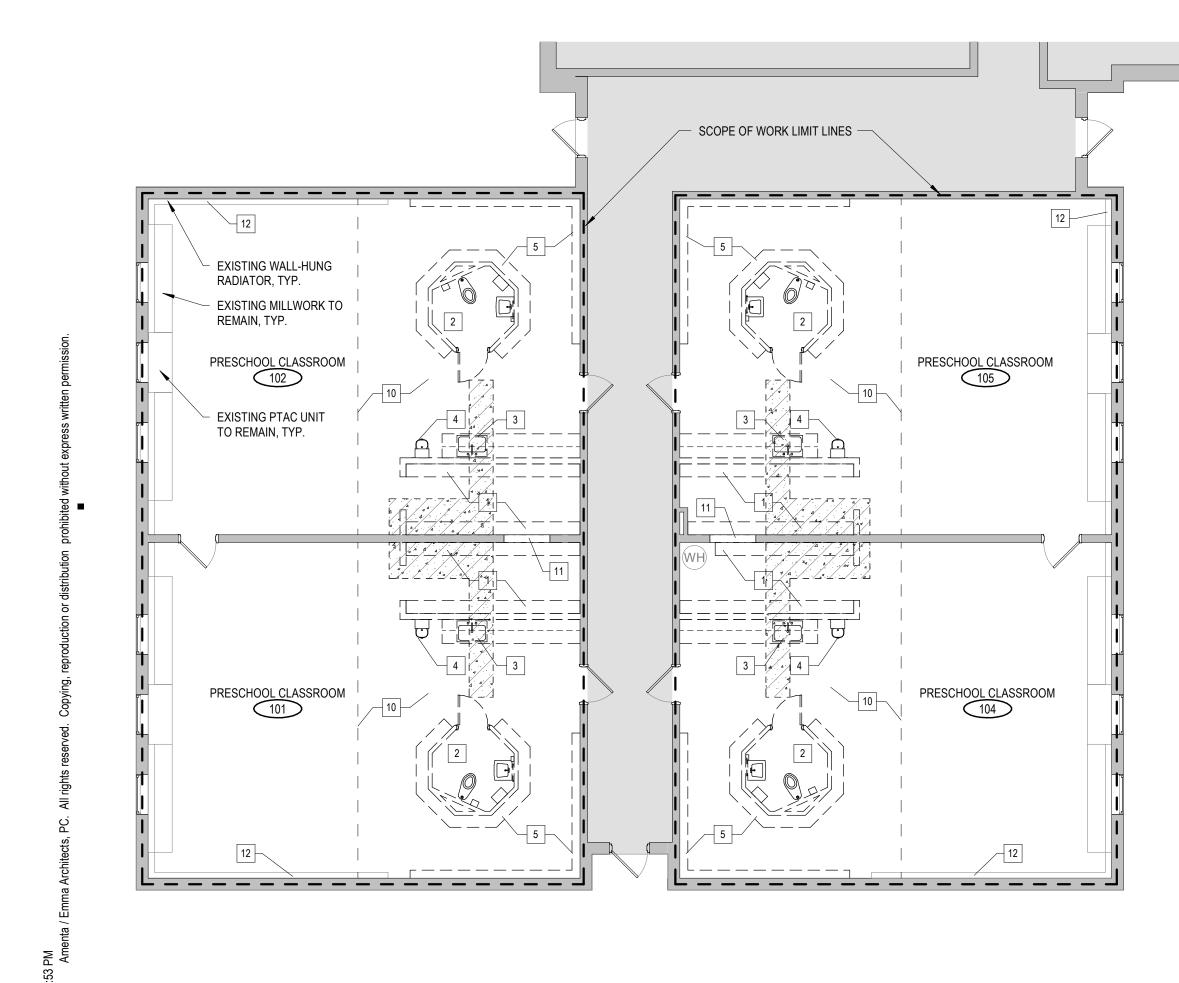
GRAPHICS LEGEND



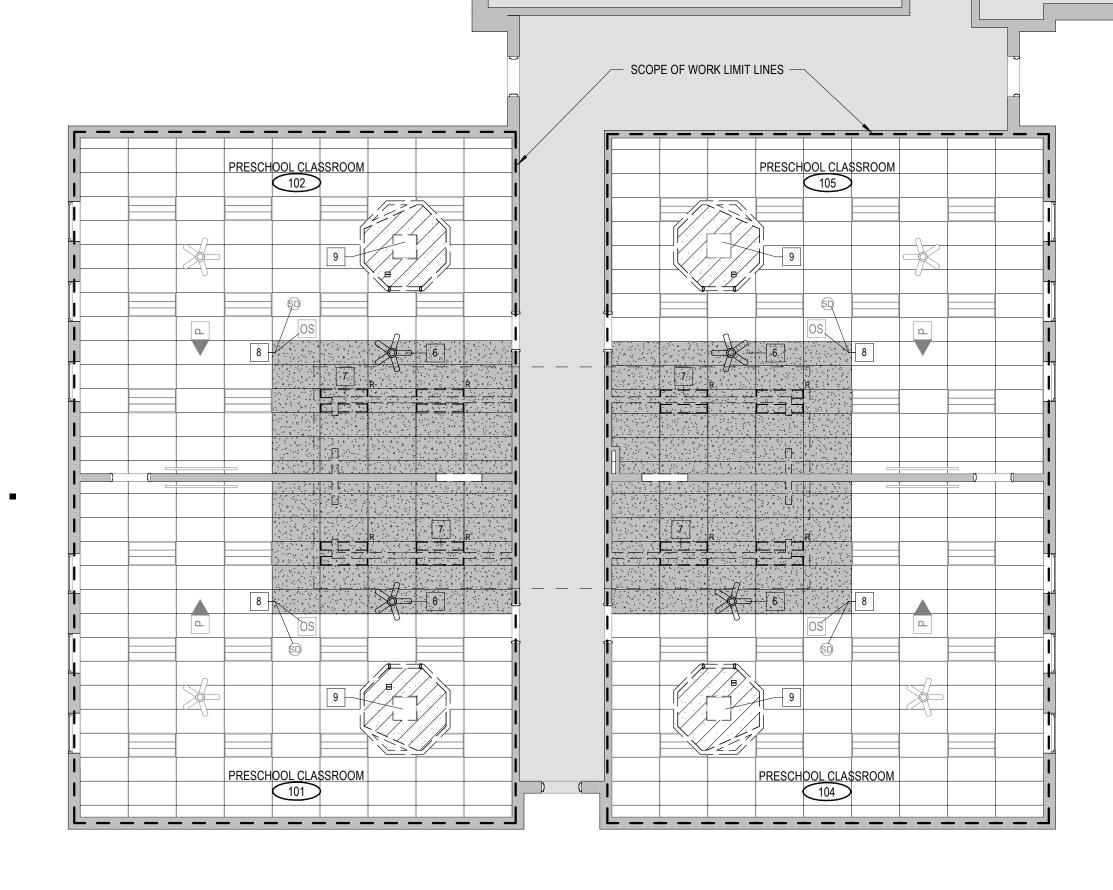
SYMBOL LEGEND

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19 FIRST FLOOR DEMOLITION REFLECTED CEILING PLAN SCALE: 1/8" = 1'-0"



DEMOLITION PLANS SHOW APPROXIMATE LAYOUT OF EXISTING PARTITIONS, DOORS, WINDOWS, FURNITURE, ETC. AND ARE NOT INTENDED TO REPRESENT AS-BUILT CONDITIONS. ALL INFORMATION MUST BE VERIFIED ON SITE. ALL WORK SHALL BE CARRIED OUT IN ACCORDANCE WITH ANSI A10.6, THE STATE DEMOLITION CODE, THE CONSTRUCTION SAFETY AND HEALTH REGULATIONS AND REQUIREMENTS OF THE LOCAL AUTHORITIES. A FIRE WATCH SHALL BE PROVIDED AS REQUIRED. NO BUILDING ELEMENTS SHALL BE LEFT IN A TEMPORARY CONDITION OR EXPOSED FOR AN EXCESSIVE OR UNREASONABLE AMOUNT OF TIME. PARTITIONS AND OTHER ITEMS TO BE REMOVED ARE SHOWN DASHED. WHERE WALLS ARE TO BE REMOVED. SERVICES IN WALLS SHALL ALSO BE REMOVED OR RELOCATED. COORDINATE WITH MEP/FP, STRUCTURAL AND CIVIL. CONTRACTOR TO FIELD VERIFY AL EXISTING ELECTRICAL FIXTURES & RECEPTACLES SCHEDULED TO REMAIN. REMOVE ANY DEVICES AND WIRING THAT DO NOT CORRESPOND WITH PROPOSED ELECTRICAL LAYOUT PLAN. REMOVE ALL ABANDONED ELECTRICAL WIRING FROM ABOVE CEILING & EXISTING WALLS THAT WILL REMAIN; REMOVE WIRING BACK TO PANEL OR NEXT LOGICAL JUNCTION BOX LOCATION. PROVIDE NECESSARY BARRIERS AS REQUIRED TO SECURE SCOPE OF WORK AREA AT THE END OF EACH DAY. ERECT AND MAINTAIN DUST PROOF PARTITIONS AS REQUIRED TO PREVENT SPREAD OF DUST, FUMES, AND SMOKE, ETC. TO OTHER PARTS OF THE BUILDING. ON COMPLETION, REMOVE PARTITIONS AND REPAIR DAMAGED SURFACES TO MATCH ADJACENT SURFACES. IF DEMOLITION IS PERFORMED IN EXCESS OF THAT REQUIRED, RESTORE AFFECTED AREAS AT NO COST TO THE OWNER. PROVIDE PROTECTION OF ADJACENT AREAS AND BUILDING COMPONENTS NOT TO BE DISTURBED, INCLUDING PATHS OF TRAVEL FROM SITE ENTRANCE TO SPECIFIC SCOPE OF WORK AREAS. PROVIDE SUITABLE COVERED CONTAINERS TO RECEIVE DEBRIS. USE OF WATER SHALL BE LIMITED TO A LIGHT SPRAY TO PREVENT THE SPREAD OF DUST. NO BURNING OF MATERIALS SHALL BE PERMITTED. PROVIDE AND MAINTAIN FIRE PROTECTION THROUGHOUT DEMOLITION AND CONSTRUCTION. ANY ITEM NOT SPECIFICALLY IDENTIFIED, BUT REQUIRED TO BE REMOVED OR REPAIRED TO PREPARE THE BUILDING FOR NEW WORK IS THE RESPONSIBILITY OF THE CONTRACTOR. SCHEDULE ALL SHUTDOWNS OF UTILITIES IN OCCUPIED PORTIONS OF THE BUILDING WITH THE OWNER (AND LOCAL FIRE DEPARTMENT IF NECESSARY) PRIOR TO IMPLEMENTING. SEE MEP/FP FOR ASSOCIATED DEMOLITION. CONTRACTOR SHALL COORDINATE DEMOLITION DRAWINGS AND NOTES WITH ALL DISCIPLINES. REMOVE ALL EXISTING FINISH FLOORING DOWN TO EXISTING STRUCTURAL SLAB / FLOOR SUBSTRATE. REPAIR STRUCTURAL FLOOR / FLOORING SUBSTRATE AS REQUIRED TO PREPARE FOR SCHEDULED FLOORING SYSTEMS PER MANUFACTURER SPECIFICATIONS & REQUIREMENTS. ANY ELECTRICAL, PHONE, THERMOSTAT, OR OTHER DEVICES & WIRING LOCATED WITHIN SCOPE OF WORK AREA SCHEDULED TO BE DEMOLISHED SHOULD BE RELOCATED OUT OF REACH FOR FURTHER DEMOLITION BY THEIR RESPECTIVE TRADES. ALL PLUMBING NO LONGER IN USE SHALL BE REMOVED IN ITS ENTIREITY COORDINATE ALL REQUIRED CORE DRILLING & TRENCHING WITH POWER PLANS REMOVE EXISTING LIGHT FIXTURES, DIFFUSERS, ETC. AS REQUIRED DUE TO NEW LAYOUT SAVE CEILING ITEMS FOR REUSE WHERE INDICATED. REFER TO REFLECTED CEILING PLAN FOR SCOPE OF WORK REGARDING NEW CEILING AND EXISTING CEILING TO REMAIN. SPRINKLER PIPING AND DUCTWORK SHALL BE MODIFIED AS REQUIRED TO ACCOMMODATE NEW LAYOUT. REMOVE AND REPLACE EXISTING CEILING PANELS AND SYSTEM AS REQUIRED FOR SCOPE OF WORK. EXISTING BASEBOARD HEATING SYSTEM TO REMAIN; REFER TO MECHANICAL DRAWINGS FOR FURTHER INFORMATION. REMOVE EXISTING PARTITIONS AS REQUIRED FOR SCHEDULED DOORS TO BE INSTALLED UNDER THE NEW SCOPE OF WORK; REFER TO CONSTRUCTION PLAN.

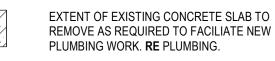
GENERAL DEMOLITION NOTES

AEA KEYNOTES - DEMOLITION PLANS

- 1 REMOVE AND SALVAGE FREESTANDING SHELVING FOR REUSE
- 2 REMOVE PLUMBING FIXTURES AND ACCESSORIES IN THEIR ENTIRETY. CAP PIPING FOR RELOCATION TO NEW LAYOUT.
- 3 REMOVE MILLWORK, SHELVING AND SINK IN ITS ENTIRETY. CAP PIPING FOR RELOCATION
- TO NEW LAYOUT. 4 REMOVE WATER FOUNTAIN AND PAPER TOWEL DISPENSER IN ITS ENTIRETY
- 5 REMOVE CUBBIES AND BENCH IN ITS ENTIRETY

- 6 REMOVE AND SALVAGE CEILING FAN FOR REUSE
- 7 REMOVE AND SALVAGE LIGHT FIXTURE FOR REUSE IN NEW LOCATION.
- 8 REMOVE AND SALVAGE DEVICES FOR REUSE 9 REMOVE EXHAUST FAN. DUCTWORK TO REMAIN FOR NEW EXHAUST.
- 10 REMOVE FLOORING TO THE EXTENT INDICATED IN PLAN.
- SAWTOOTH CUT EXISTING CMU WALL TO CREATE NEW CASED OPENING 3'-6" WIDE X 7'-4" HIGH. REMOVE (2) COURSES OF CMU ABOVE NEW OPENING FOR ADDITION OF LINTELS. PROVIDE TEMPORARY SHORING, AS REQUIRED, TO FACILITATE INSTALLATION OF STEEL LINTELS.
- 12 PREP WALL-HUNG RADIATOR COVERS TO RECEIVE NEW PAINT

DEMOLITION KEYNOTES



EXISTING CONSTRUCTION TO REMAIN

EXISTING CONSTRUCTION TO BE REMOVED



DEMOLITION PLAN LEGEND

_ _ _ _ _

AMENTA EMMA

ARCHITECTS

Suffield Public Schools

Ward Spaulding School Preschool Classroom Renovations

945 MOUNTAIN RD WEST SUFFIELD, CT 06093

CONSULTANTS

KEY PLAN

EXISTING CONSTRUCTION TO REMAIN

2'-0" X 4'-0" RECESSED INDIRECT

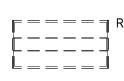
REFLECTED CEILING PLAN

EXISTING CONSTRUCTION TO BE REMOVED

FLUORESCENT FIXTURE; IF INDICATED WITH

TYPE 'R', FIXTURE IS TO BE RELOCATED; SEE

FINISHED GWB CEILING TO BE REMOVED



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_ _ _ _

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NEW PARTITIONS TO DECK

REMOVED AND REWORKED TO ACCOMODATE

EXTENT OF ACOUSTICAL CEILING SYSTEM TO BE

2X4 ACOUSTICAL CEILING SYSTEM

OCCUPANCY SENSOR

CEILING MOUNTED PROJECTOR

PROJECT DATA PROJECT NUMBER CURRENT SUBMISSION DATE DRAWN CHECKED SCALE As indicated FILE REFERENCE C:\Users\AEO\Documents\20016-Suffield Spaulding School-CENTRAL-2020_AEO.rvt

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HISTORY OF SUBMISSIONS

No. Date Descriptior

FOR CONSTRUCTION

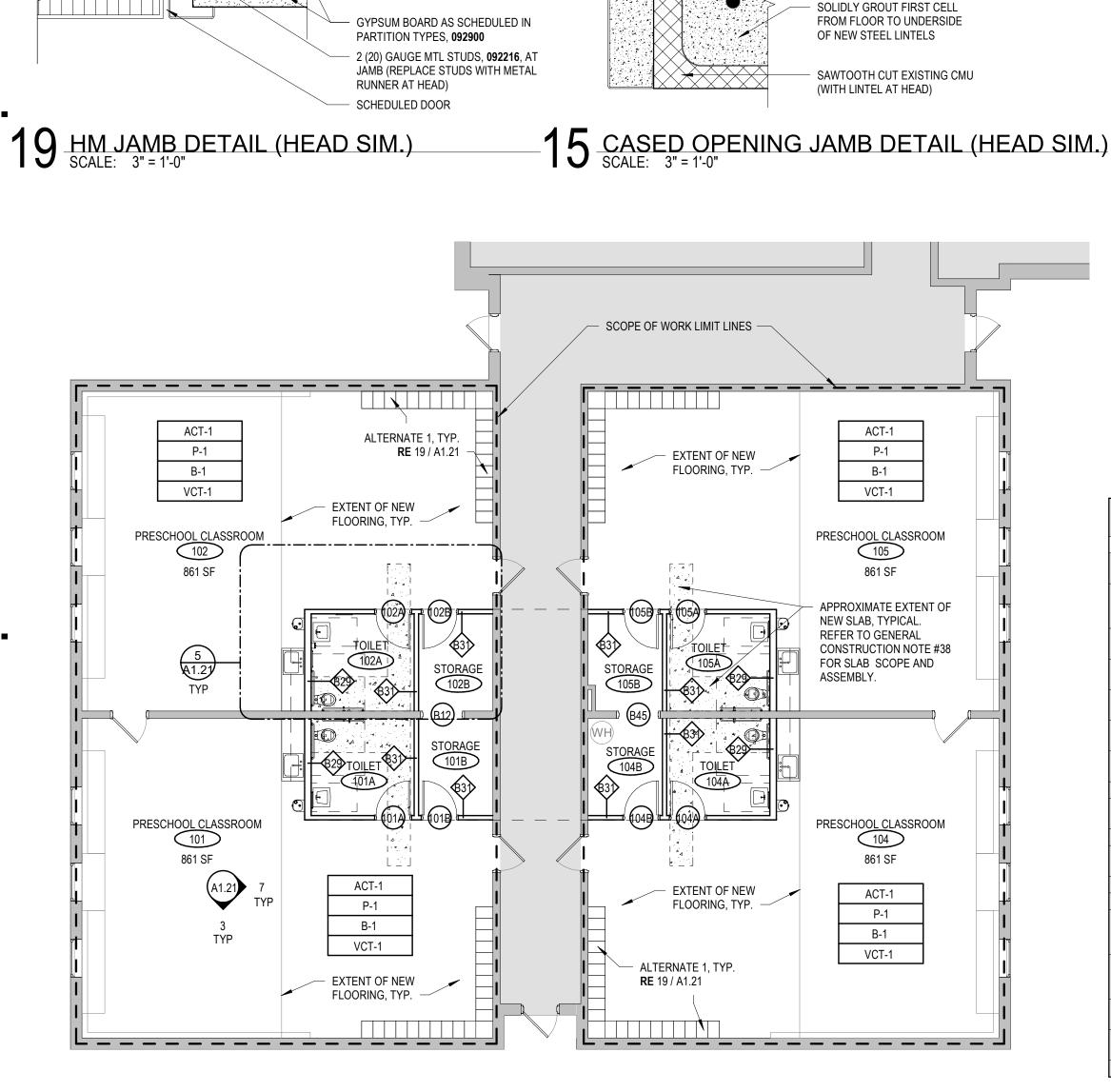
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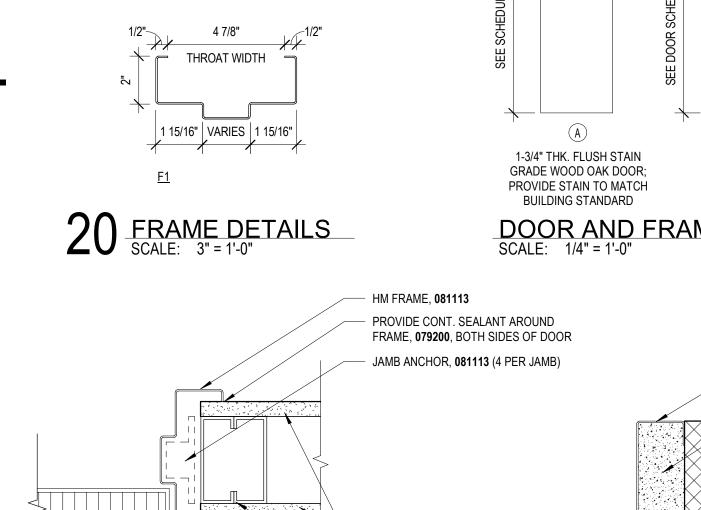
DEMOLITION PLANS, DEMOLITION KEY NOTES

DEMOLITION CEILING PLAN LEGEND



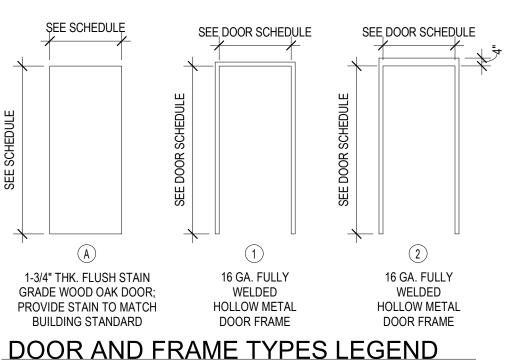
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THROAT WIDTH

7 5/8"



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HM FRAME, 081113

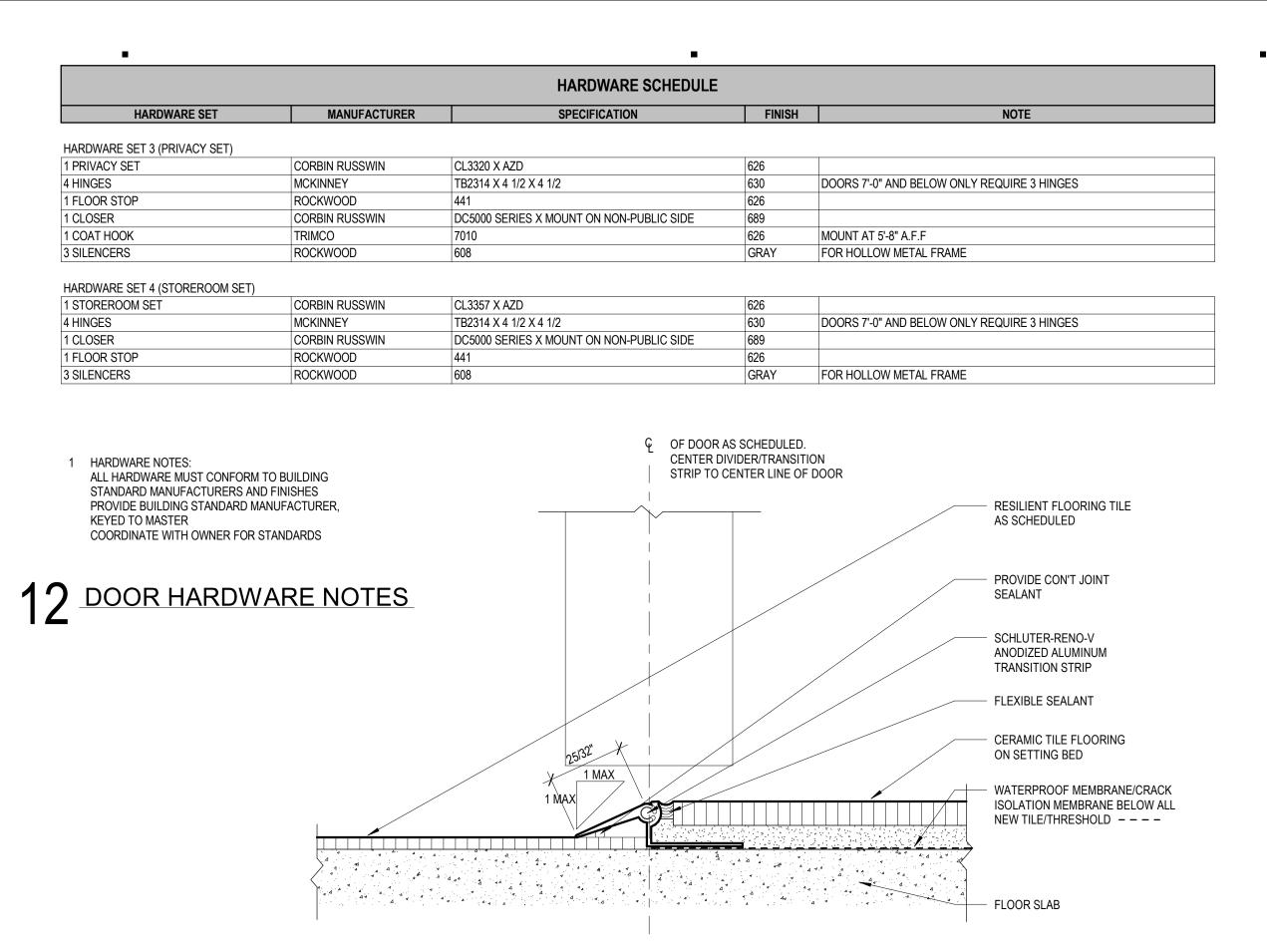
FRAME

SOLIDLY GROUT THE HM

PROVIDE SEGMENTED #5 REBAR IN FIRST CELL TO

UNDERSIDE OF NEW LINTELS

AEA DOOR AND FRAME SCHEDULE											
DOOR	DOOR FRA			RAME	HEAD	HEAD JAMB	SILL				
#	WIDTH	HEIGHT	TYPE	MATERIAL	TYPE	MATERIAL	DETAIL	DETAIL	DETAIL	HARDWARE	REMARKS
101A	3' - 0"	7' - 0"	Α	WD / STAIN	F1	HM	19 / A1.00	19 / A1.00	11 / A1.00	3	
101B	3' - 0"	7' - 0"	A	WD / STAIN	F1	HM	19 / A1.00	19 / A1.00	N/A	4	
102A	3' - 0"	7' - 0"	А	WD / STAIN	F1	HM	19 / A1.00	19 / A1.00	11 / A1.00	3	
102B	3' - 0"	7' - 0"	А	WD / STAIN	F1	HM	19 / A1.00	19 / A1.00	N/A	4	
104A	3' - 0"	7' - 0"	А	WD / STAIN	F1	HM	19 / A1.00	19 / A1.00	11 / A1.00	3	
104B	3' - 0"	7' - 0"	А	WD / STAIN	F1	HM	19 / A1.00	19 / A1.00	N/A	4	
105A	3' - 0"	7' - 0"	А	WD / STAIN	F1	HM	19 / A1.00	19 / A1.00	11 / A1.00	3	
105B	3' - 0"	7' - 0"	А	WD / STAIN	F1	HM	19 / A1.00	19 / A1.00	N/A	4	
B12	3' - 6"	7' - 0"	-	-	F2	HM	15 / A1.00	15 / A1.00	N/A	N/A	
B45	3' - 6"	7' - 0"	-	-	F2	HM	15 / A1.00	15 / A1.00	N/A	N/A	



1 VCT TO CERAMIC TILE TRANSITION SCALE: 12" = 1'-0"

PAINT

P-1 GENERAL WALL PAINT **BENJAMIN MOORE** COLOR: SELECTD BY ARCHITECT FINISH: MATTE P-1A SEMI GLOSS FOR DOOR FRAMES BENJAMIN MOORE COLOR: SELECTED BY ARCHITECT FINISH: SEMI-GLOSS

ACOUSTICAL CEILING ASSEMBLY

ACT-1 MATCH EXISTING ADJACENT

BASE

PROVIDE COVE BASE @ RESILIENT FLOORING

B-1 MANUFACTURER: TARKETT STYLE: 4" RUBBER DURACOVE BASE, 120' CONTINUOUS ROLL COLOR: SELECTED BY ARCHITECT

RESILIENT FLOORING

- VCT-1 MANUFACTURER: TARKETT STYLE: COLOR ESSENCE VET 12X12 COLOR: SELECTED BY ARCHITECT
- ALTERNATE 2: RB-1 MANUFACTURER: TARKETT STYLE: SOLID COLOR RUBBER TILE 24X24 TEXTURE: SMOOTH

COLOR: SELECTED BY ARCHITECT PATTERN: TBD

LAMINATE

PL-1 MANUFACTURER: WILSONART COLOR: FUSION MAPLE 7909-60 PL-2 MANUFACTURER: WILSONART COLOR: SELECTED BY ARCHITECT NOTES: COUNTERTOP & BACKSPLASH

WOOD MILLWORK

WD-1 SPECIES: MAPLE CUT: PLAIN SLICED FINISH: NATURAL / CLEAR

PORCELAIN TILE FLOORING

- PROVIDE COORDINATING COVE BASE 6X12
- MANUFACTURER: FLORIDA TILE PT-1 STYLE: TIME/2.0 PORCELAIN TILE 12X24 PATTERN: STACK BOND COLOR: SELECTED BY ARCHITE GROUT: SELECTED BY ARCHITECT

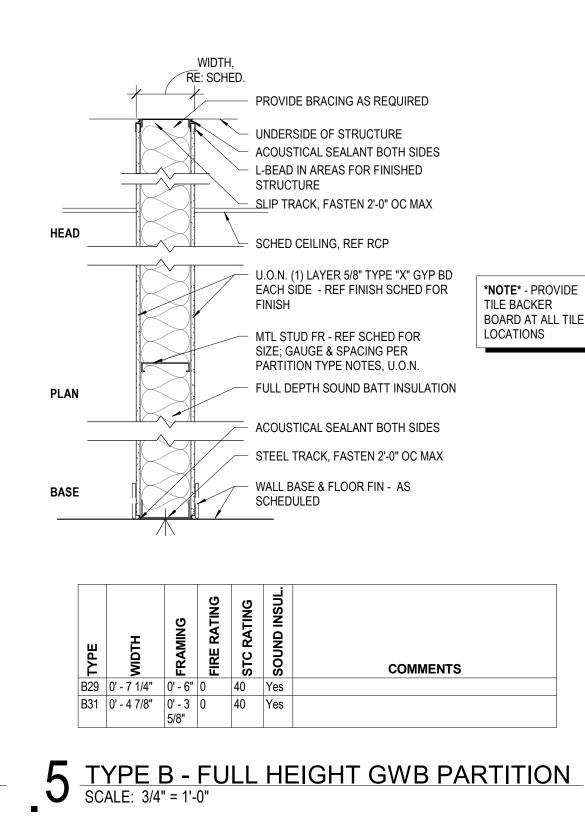
WALL TILE

PROVIDE 3X12 BULLNOSE

MANUFACTURER: FLORIDA TILE WT-1 STYLE: TIME/2.0 PORCELAIN TILE 12X24 PATTERN: VERTICAL STACK BOND COLOR: SELECTED BY ARCHITECT GROUT: SELECTED BY ARCHITECT

FINISH SCHEDULE

	GENERAL FINISH NOTES
1	FLOOR MUST BE CLEAR OF ALL DUST AND DEBRIS PRIOR TO FLOORING INSTALLATION TO INSURE PROPER ADHESION TO SLAB.
2	FLOORING SUBCONTRACTOR SHALL PATCH/REPAIR ANY CRACKS, DEVIATIONS, AND ROUGH SURFACES ON ENTIRE CONCRETE SLAB, PRIOR TO INSTALLATION OF FLOORING MATERIALS.
3	WHERE FLOOR FINISHES CHANGE AT A DOOR, THE LINE OF TRANSITION SHALL BE AT THE CENTERLINE OF THE DOOR.
4	FLOORING SUBCONTRACTOR TO PROPERLY FLASH PATCH FLOOR SLAB PRIOR TO INSTALLATION OF FLOORING MATERIALS.
5	CONTRACTOR SHALL INSTALL BASE ON ALL PARTITIONS, COLUMNS, CABINET BASES. COLOR AS SPECIFIED IN LEGEND, U.O.N.
6	ALL SEAMS & TOP COATED SEALERS MUST BE PROVIDED BY MANUFACTURER FOR DURABLITY.
7	ALL FINISHES SHALL BE APPLIED/INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURERS SPECIFICATIONS OR INSTRUCTIONS.
8	ALL WALLS TO RECEIVE PAINT P-1, U.O.N.
9	ALL FLOORS TO RECEIVE VINYL COMPOSITION TILE, VCT-1, U.O.N. ALIGN EXTENT OF NEW FLOORING WITH FACE OF CASEWORK TOEKICK.
10	ALL BASE TO BE B-1, U.O.N.
11	FOR SPACES TO RECEIVE PORCELAIN TILE (PT-1), COORDINATING BASE SHALL BE PROVIDED.
12	ALL WET WALLS WITHIN TOILET ROOMS TO RECEIVE CERAMIC WALL TILE, CT-1, U.O.N.
13	ALL H.M. DOORS AND FRAMES SHALL BE PAINTED WITH P-1A (SEMI-GLOSS), U.O.N.
14	CONCRETE AND PATCHING AND FLASH PATCHING MATERIALS SHALL BE APPROPRIATE AND COMPATIBLE WITH INSTALLATION REQUIREMENTS OF DECORATIVE FLOOR FINISHES AND EXISTING CONCRETE SLAB.
15	PATCH CONCRETE FLOOR SURFACES TO ENSURE MAXIMUM VARIATION OF 1/8" IN 10'-0" FOF FLOORS TO BE COVERED WITH FLOORING MATERIAL. CONCRETE WORK SHALL BE IN ACCORDANCE WITH ACI 302 AND ACI 304.
16	ALKALINITY AND ADHESION TESTING: PERFORM TESTS RECOMMENDED BY MANUFACTURER. PROCEED WITH INSTALLATION ONLY AFTER SUBSTRATES PASS TESTING
17	ALL SUBCONTRACTORS SHALL REVIEW THE EXISTING CONDITIONS AND REPORT ANY DISCREPANCIES OR CONFLICTIONS TO THE ARCHITECT PRIOR TO INSTALLATION.
18	ALL WALL-HUNG RADIATOR UNITS TO RECEIVE PAINT, P-1, U.O.N.



Q GENERAL FINISH NOTES

GENERAL CONSTRUCTION NOTES

1	ALL WORK SHALL BE INSTALLED PER ALL APPLICABLE CODES AND ALL OTHER AUTHORITIES HAVING JURISDICTION.		
2	OBTAIN AND PAY FOR PERMITS AND INSPECTIONS REQUIRED BY PUBLIC AUTHORITIES GOVERNING THE WORK.		
3	REVIEW DOCUMENTS, VERIFY DIMENSIONS AND FIELD CONDITIONS AND CONFIRM THAT WORK IS BUILDABLE AS SHOWN. REPORT ANY CONFLICTS OR OMISSIONS TO THE ARCHITECT FOR CLARIFICATION PRIOR TO PERFORMING ANY WORK IN QUESTION. REFER TO GENERAL NOTES		
4	REGARDING THE REQUEST FOR INFORMATION (RFI) PROCESS. SUBMIT REQUESTS FOR SUBSTITUTIONS, REVISIONS, OR CHANGES TO ARCHITECT FOR REVIEW PRIOR TO PURCHASE, FABRICATION OR INSTALLATION. REFER TO GENERAL NOTES PAGE REGARDING SUBSTITUTIONS & REVISIONS.		
5	COORDINATE WORK WITH THE OWNER/LANDLORD INCLUDING SCHEDULING TIME AND LOCATIONS FOR DELIVERIES, BUILDING ACCESS, USE OF BUILDING SERVICES AND FACILITIES, AND USE OF ELEVATORS. MINIMIZE DISTURBANCE OF BUILDING FUNCTIONS AND OCCUPANTS.		
6	OWNER WILL PROVIDE WORK NOTED "BY OTHERS" OR "NIC" UNDER SEPARATE CONTRACT. INCLUDE SCHEDULE REQUIREMENTS IN CONSTRUCTION PROGRESS SCHEDULE AND COORDINATE TO ASSURE ORDERLY SEQUENCE OF INSTALLATION.		
7	COORDINATE TELECOMMUNICATIONS, DATA AND SECURITY SYSTEM INSTALLATIONS WITH VENDORS.		
8 9	MAINTAIN WORK AREAS SECURE AND LOCKABLE DURING CONSTRUCTION. COORDINATE WITH TENANT AND LANDLORD TO ENSURE SECURITY. DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS GOVERN. IN CASE OF CONFLICT, CONSULT		
10	THE ARCHITECT. THE ARCHITECT'S RESPONSIBILITY IN GENERAL ADMINISTRATION OF CONSTRUCTION IS FOR THE PURPOSE OF DETERMINING THAT THE WORK WHEN COMPLETED WILL BE IN CONFORMANCE WITH THE CONTRACT DOCUMENTS AND ENDEAVOR TO GUARD THE OWNER AGAINST DEFECTS AND DEFICIENCIES IN THE WORK. THE ARCHITECT WILL NOT HAVE CONTROL OVER OR CHARGE OF AND WILL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, PROCEDURES OR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK. THESE ARE SOLELY THE CONTRACTOR'S RESPONSIBILITY.	Suff Pub Sche	li
11	OVERLAPPING/CONFLICTING REQUIREMENTS. MOST STRINGENT (GENERALLY MOST COSTLY) APPLY AND WILL BE ENFORCED. REFER TO ARCHITECT/ENGINEER FOR DECISION BEFORE PROCEEDING.	■ War	_ d
12	CONTRACTOR SHALL BE RESPONSIBLE FOR VISITING THE SITE PRIOR TO BIDDING TO DETERMINE ALL EXISTING CONDITIONS. CONTRACTOR IS RESPONSIBLE FOR VERIFYING EXTENT OF ALL DEMOLITION AND NEW WORK. G.C. SHALL VERIFY CONDITION OF EXISTING WALLS TO REMAIN. G.C. SHALL VERIFY THIS WORK BEFORE PRICING PROJECT. CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THE ARCHITECT OF ANY DISCREPANCIES. FOLLOW GENERAL NOTES REGARDING RFI'S.	Pres	С
13 14	ALL DIMENSIONS NOTED AS "HOLD" ARE CRITICAL. PROVIDE FIRE TREATED WOOD BLOCKING (COMPLYING WITH ASTM E84) WITHIN NEW AND EXISTING WALLS AS REQUIRED FOR ANCHORING OF ALL BUILT-INS, SHELVING, CABINETRY, AND WALL MOUNTED ACCESSORIES. VERIFY LOCATIONS WITH ARCHITECT. COORD. TELEVISION LOCATIONS WITH POWER PLAN & BLOCKING REQUIREMENTS W/ A) AUDIOVISUAL DOCUMENTS AND CONSULTANT, OR B) CLIENT PROVIDED TELEVISION WALL MOUNTED BRACKET.	945 N WES ⁻	
15 16	PROVIDE TWO (2) 20 GAUGE METAL STUDS AT JAMBS OF ALL NEW DOOR OPENINGS. ALL CONCEALED BLOCKING SHALL BE FIRE TREATED, COMPLYING WITH ASTM E84.		•
17	PROVIDE AND INSTALL ONE (1) 4'-0" X 8'-0" FIRE RETARDANT PLYWOOD PANEL AT DATA ROOM.		
18	VERIFY EXACT LOCATION AND REQUIREMENTS WITH ELECTRICAL DRAWINGS. DETAILS NOTED AS TYPICAL APPLY TO ALL SIMILAR LOCATIONS UNLESS OTHERWISE NOTED.	CONSULT	AN
19 20	CONTRACTOR'S PRICE SHALL INCLUDE A COMPLETE CONSTRUCTION CLEANUP. CONTRACTOR TO HAVE A "SHOP VAC" OR SIMILAR EQUIPMENT ON SITE TO KEEP SITE CLEAN		
21	DURING THE CONSTRUCTION PROCESS. INTERIOR DIMENSIONS SHOWN IN PLAN ARE TO FINISHED FACE OF PARTITION, INCLUDING ANY		
22	APPLIED FINISHES SUCH AS CERAMIC TILE, UNLESS OTHERWISE NOTED. PROVIDE CONTINUOUS TAPEABLE J-TRIM AT ALL EXPOSED EDGES OF GYPSUM WALL BOARD.		
23	PROVIDE COMPRESSIBLE BACKER ROD AND SEALANT IF GWB ABUTS ADJACENT CONSTRUCTION. PATCH ALL EXISTING WALLS WHERE REQUIRED TO CREATE SMOOTH SURFACE FOR PAINT, STUCCO, PLASTER, OR CERAMIC TILE FINISH AS SCHEDULED. WHERE NEW FINISH IS NOT SCHEDULED, PATCH WALLS AND/OR TOOTH IN SALVAGED MATERIALS, AS REQUIRED TO MATCH EXISTING ADJACENT FINISH.		
24 25	COORDINATE PARTITION CONSTRUCTION WITH FINISH PLANS. AT ANY EXISTING CONSTRUCTION TO RECEIVE NEW WORK (RE: NEW DOOR, INFILL PARTITION, ETC.) G.C. TO PATCH EXISTING CONSTRUCTION AS REQUIRED TO MATCH EXISTING ADJACENT SURFACE, U.O.N.		
26	ALL NEW DOORS SHALL BE LOCATED 4" OFF FINISH WALL UNLESS OTHERWISE NOTED. (4" TO INSIDE FACE OF FRAME)	KEY PLAN	
27	PROVIDE FIRESTOPPING JOINT SYSTEM AT ALL PENETRATIONS THROUGH ALL FIRE-RATED WALL AND FLOOR SYSTEMS. FIRESTOPPING SHALL BE DESIGNED TO RESIST THE SPREAD OF FIRE FOR A TIME PERIOD NOT LESS THAN THE REQUIRED FIRE RESISTANT RATING OF THE ADJACENT ASSEMBLY. ALL FIRE STOPPING ASSEMBLIES SHALL BE UL ASSEMBLIES.		
28	PROVIDE ACOUSTICAL SEALANT FOR PENETRATIONS THROUGH ANY NON-FIRE RATED PARTITIONS OR ASSEMBLIES.		
29 30	ALL DIMENSIONS TO BE VERIFIED IN FIELD BY CONTRACTOR. REFER TO ELECTRICAL DRAWINGS FOR QUANTITIES AND TYPES OF DEVICES. REFER TO ARCHITECTURAL DRAWING G1.00 FOR TYPICAL MOUNTING HEIGHTS AND LOCATIONS, NOTIFY ARCHITECT OF ANY DISCREPANCIES.		
31	ALL WIRING, CONDUIT, RACEWAYS, ETC. SHALL BE CONCEALED WITHIN WALLS. G.C. TO PROVIDE CUTTING, PATCHING, PLASTER RINGS AND PULL STRINGS AS REQUIRED TO PROVIDE SUCH CONCEALMENT. PATCH AND PAINT ENTIRE WALL AFFECTED BY NEW WORK.		
32	WHERE ANY TELEPHONE, DATA & ELECTRICAL WIRING HAVE BEEN DEMOLISHED, PATCH WALL & FINISH AS SCHEDULED. WHERE ANY EXISTING JUNCTION BOXES OR CONDUIT HAVE BEEN REMOVED, PATCH WALL & FINISH AS SCHEDULED UNLESS INDICATED OTHERWISE.	PRO	J
33	CONTRACTOR TO INCLUDE IN HIS PRICING ALL MECHANICAL, ELECTRICAL, PLUMBING AND FIRE PROTECTION WORK PER ENGINEER'S DRAWINGS TO COORDINATE WITH ARCHITECT'S DESIGN AND PROVIDE COMPLETE SYSTEMS.	PROJECT CURRENT	
34	CONTRACTOR RESPONSIBLE FOR PROTECTING DOOR FRAMES DURING CONSTRUCTION AS REQUIRED.	DRAWN CHECKED	
35 36	WHERE FLOOR TRENCHING IS REQUIRED FOR SCOPE OF WORK, PATCH FLOOR TO MATCH EXISTING ADJACENT STRUCTURAL SLAB / FLOOR SUBSTRATE PREPARE EXISTING FLOOR SUBSTRATE AS REQUIRED FOR SCHEDULED FLOOR FINISH. PROVIDE	SCALE FILE REFE	RE
37	FLOOR LEVELING COMPOUND AS REQUIRED TO PROVIDE LEVEL FINISH (1/4" PER 10' MAX) WITHIN ENTIRE AREA OF WORK. ALL PARTITIONS SHALL BE TYPE B31, U.O.N.	HISTORY	OF
38	WITHIN HATCHED AREAS, PROVIDE NEW 3 000 PSI MINIMI IM CONCRETE SI AR A MINIMI IM OF 6"	No. [)ate

THICK, WITH A 10 MM MINIMUM VAPOR BARRIER BY STEGO WRAP OR EQUAL. PROVIDE WELDED WIRE FABRIC IN NEW SLAB FOR REINFORCEMENT. PROVDIE EPOXY DOWELS, WITH ONE SIDE GREASED. PLACE EVERY 16" O.C. TO TIE NEW SLAB INTO EXISTING SLAB. COMPACT SUBGRADE TO 95% COMPACTION. BED NEW PIPING IN SAND OR PER PIPING MANUFACTURER'S RECOMMENDATIONS.

GENERAL CONSTRUCTION NOTES

- 1 REFER TO PARTITION TYPE DIAGRAMS, REFERENCED BY THE "PARTITION SYMBOL",
- INDICATING THE COMPONENTS AND ASSEMBLY OF EACH PARTITION.
- PROVIDE 20 GAUGE METAL STUDS AT 16" O.C., U.O.N. GYPSUM BOARD SHALL BE 5/8" THICK, U.O.N.
- FIRE-RESISTANCE-RATED & STC-RATED PARTITIONS & STC-RATED SHALL CONFORM TO THE MINIMUM REQUIREMENTS OF THE TESTED ASSEMBLY UNLESS MORE STRINGENT REQUIREMENTS ARE DESIGNATED BY DETAIL.
- FIRESTOP SHALL BE USED AT FIRE RATED PARTITIONS. RECESSED BOXES SHALL BE SEALED AND RUNNERS SHALL BE SET IN 2 BEADS OF SEALANT OR AS REQUIRED BY MANUFACTURER. FIRESTOPPING SHALL BE PROVIDED FOR FOR ALL FIRE RATED WALL OR SLAB PENETRATIONS IN ORDER TO MAINTAIN FIRE RATINGS AS REQUIRED.
- 6 ALL NON-FIRE RATED PARTITIONS SHALL HAVE ALL PENETRATIONS AND
- INTERSECTIONS SEALED AIR TIGHT WITH ACOUSTICAL SEALANT. 7 PROVIDE METAL BACKING PLATES FOR WALL-MOUNTED ACCESSORIES &
- CONSTRUCTION.
- 8 TILE BACKER BOARD IS REQUIRED AT ALL TILE LOCATIONS. COORDINATE WITH
- FINISHES AND ELEVATIONS AS REQUIRED.
- 9 ALL PANEL SURFACES EXPOSED TO VIEW, UNLESS OTHERWISE INDICATED, TO BE LEVEL 4 FINISH.
- 10 PROVIDE MOISTURE RESISTANT GYPSUM BOARD AT ALL TOILET ROOMS AND KITCHEN AREAS WITH SINKS.

AMENTA EMMA

ARCHITECTS

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Spaulding School chool Classroom vations

OUNTAIN RD SUFFIELD, CT 06093

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FOR CONSTRUCTION

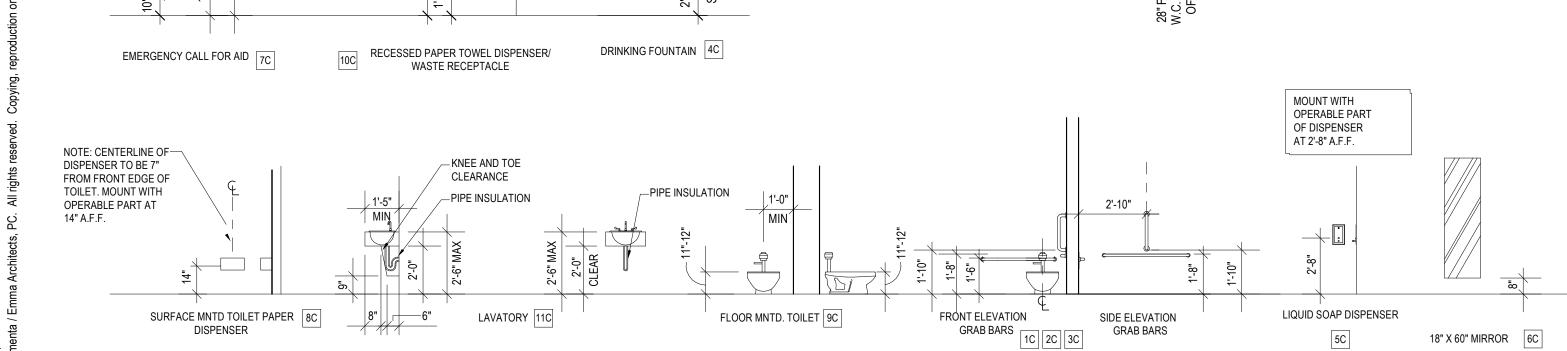
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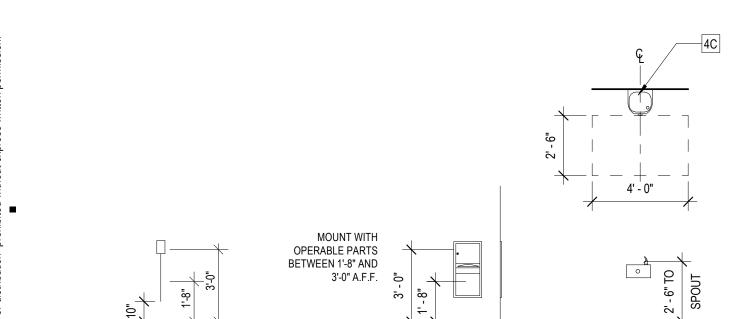
CONSTRUCTION & FINISH PLANS & NOTES, DOOR, FRAME & HARDWARE SCHEDULES & DETAILS, PARTITION TYPES

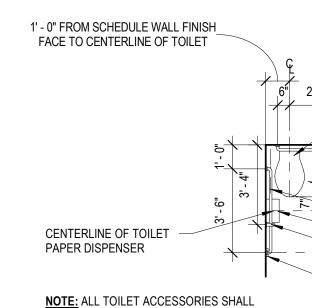


PARTITION TYPE NOTES









BE LOCATED WITHIN 48" OF TOILET

GENERAL MILLWORK NOTES

FINISH UNLESS OTHERWISE INDICATED

FINISH UNLESS OTHERWISE INDICATED

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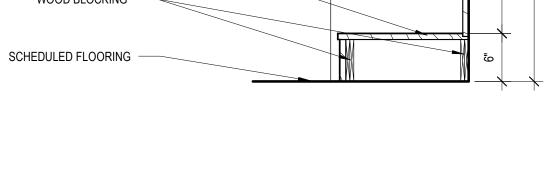


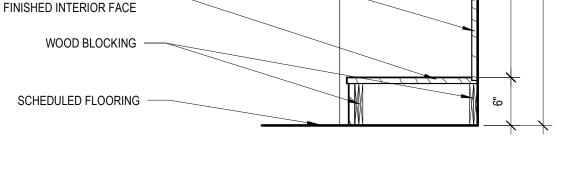
CABINET DOOR HINGES: ALL CABINET DOOR HINGES SHALL BE BLUM 120 DEGREE CLIP-TOP

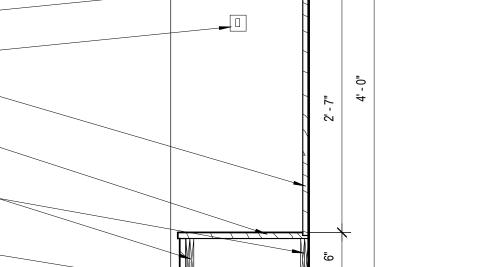
CABINET SHELF PIN: ALL CABINET SHELF PINS SHALL BE BAER SUPPLY #IF1345NP, NICKEL

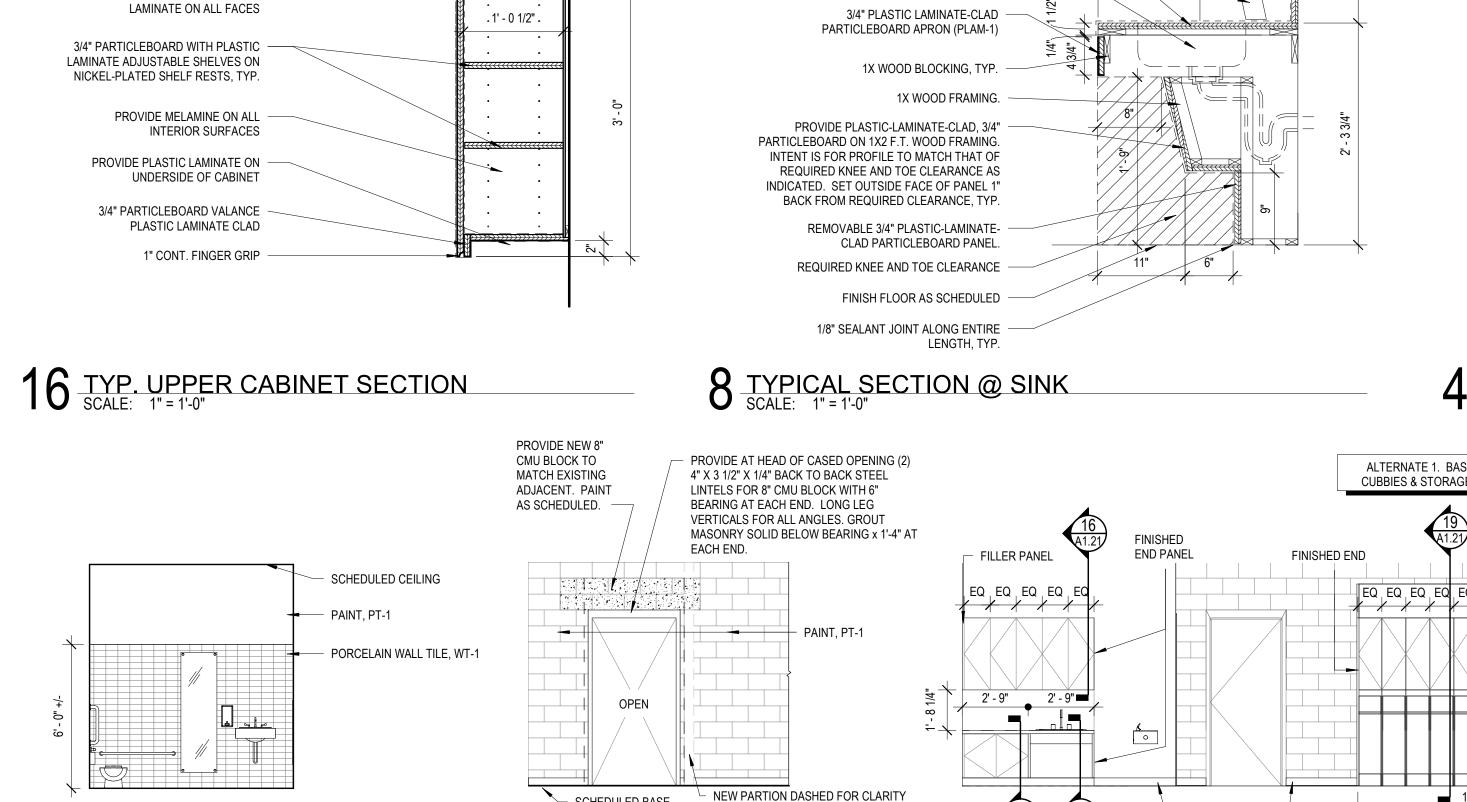
SELF-CLOSING, FULL OVERLAY, PRESS-IN CONCEALED HINGE (P/N: #71T5580), NICKEL PLATED

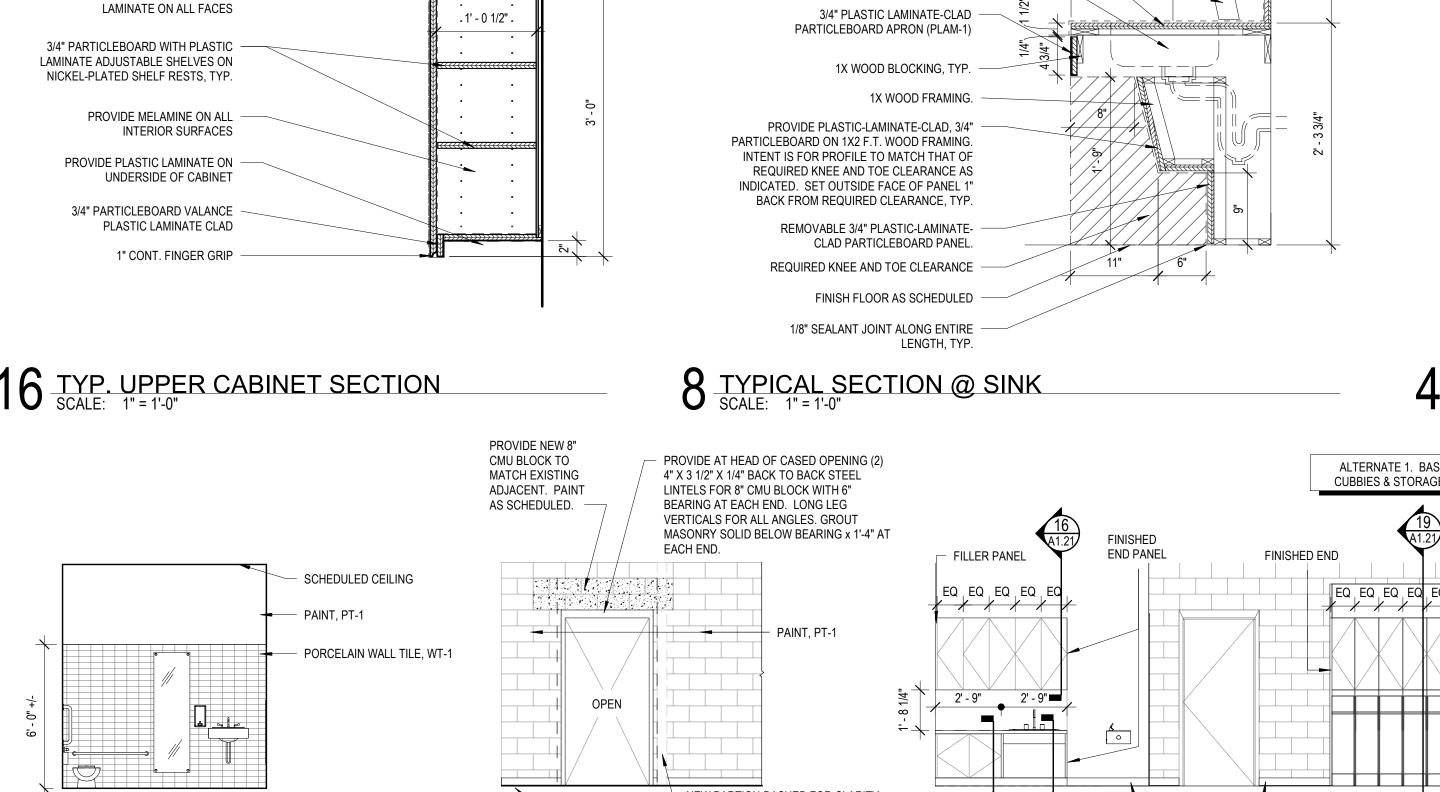


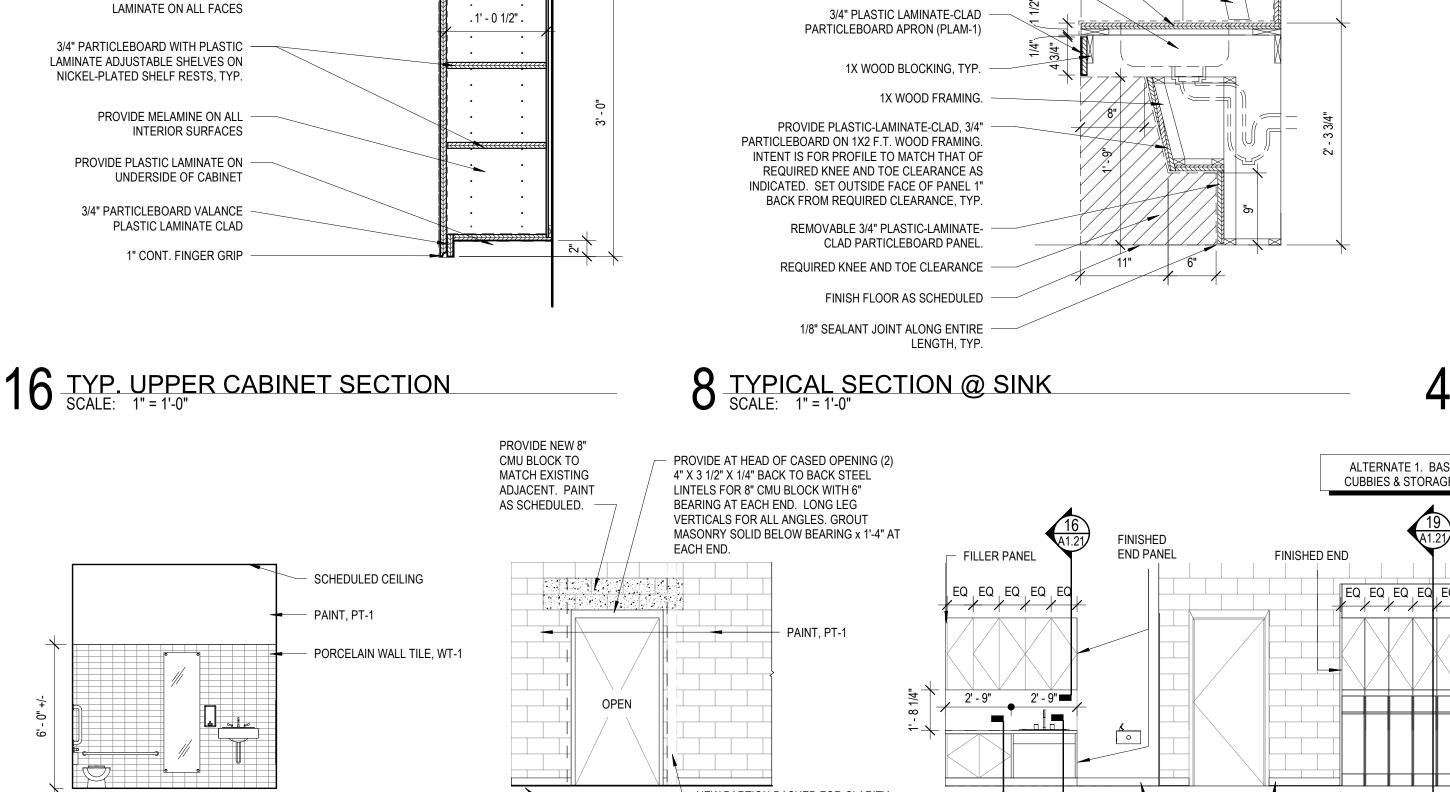


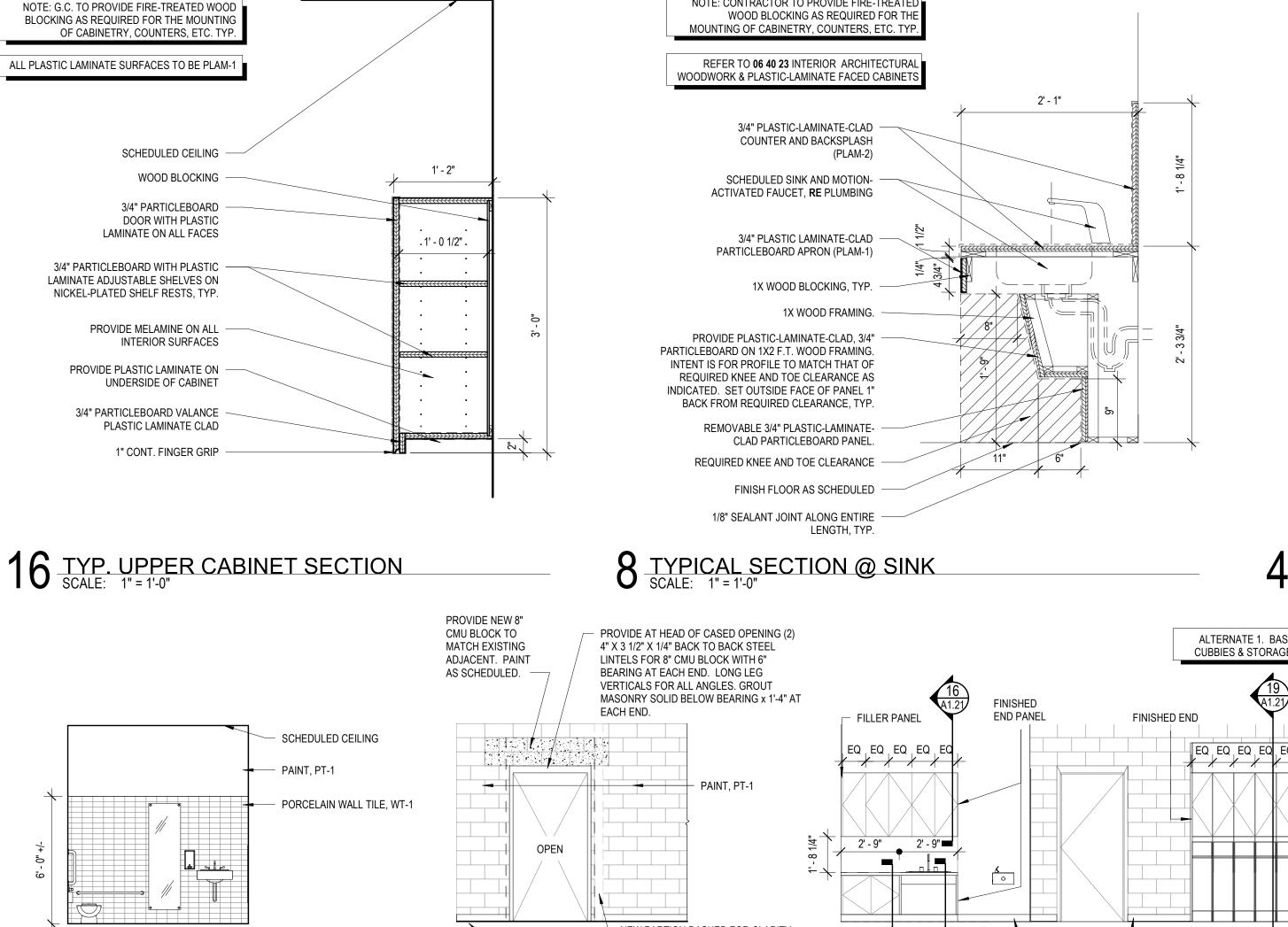












ALTERNATE 1. BASIS OF DESIGN EXCLUDES CUBBIES & STORAGE CABINETS (BY OWNER)

NOTE: G.C. TO PROVIDE FIRE-TREATED WOOD BLOCKING AS REQUIRED FOR THE MOUNTING OF CABINETRY, COUNTERS, ETC. TYP

ALL WOOD MILLWORK TO BE CONSTRUCTED

OF WD-1, U.O.N

SCHEDULED CEILING

WOOD BACK PANEL,

FINISHED INTERIOR FACE

FINISHED ON ALL FACES

1" WOOD INTERIOR ADJUSTABLE

SHELVES ON NICKEL PLATED SHELF

1" WOOD DOOR,

RESTS, TYP.

FACE

1" WOOD PANEL,

FINISHED INTERIOR

1" CONT. FINGER GRIP

1" WOOD VALANCE

1" WOOD PANEL,

FINISHED ON ALL FACES

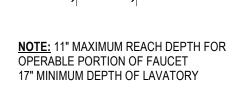
PANEL-MOUNTED COAT HOOK, BOTH SIDES

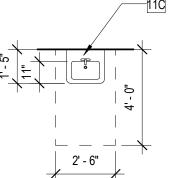
WOOD BACK PANEL,

1" WOOD PANEL,

FINISHED INTERIOR FACE



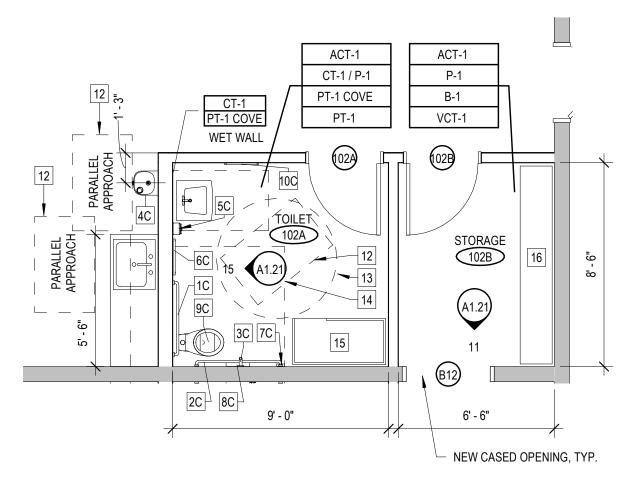




PLACE FLUSH VALVE ON

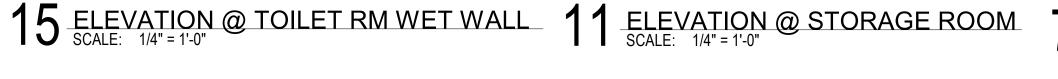
WIDE SIDE

OF STALL



8 A1.21

4 A1.21



- SCHEDULED BASE

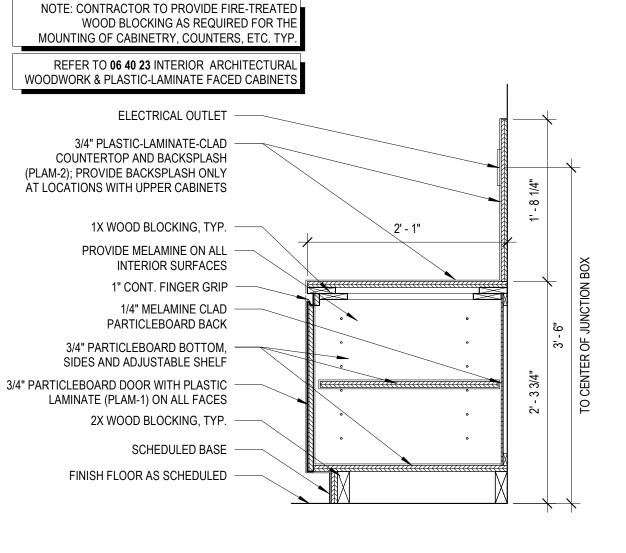


SCHEDULED BASE

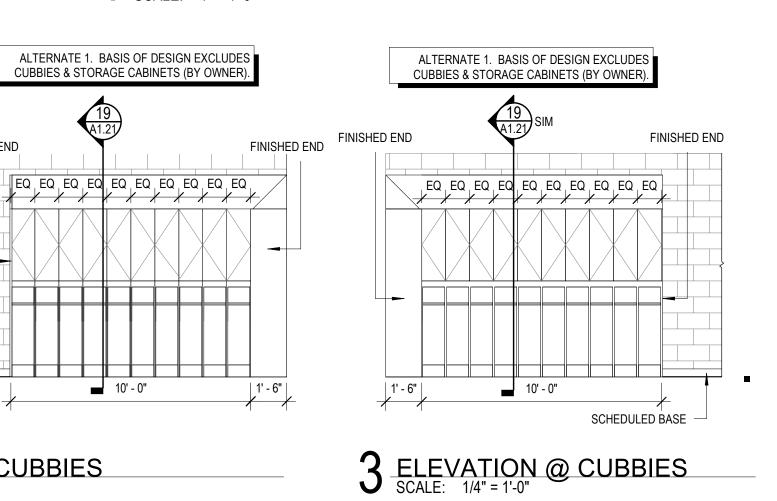
NOTE: CONTRACTOR TO PROVIDE FIRE-TREATED

AMENTA EMMA

ARCHITECTS



4 TYPICAL SECTION AT BASE CABINET SCALE: 1" = 1'-0"



Suffield Public Schools

CONSULTANTS

KEY PLAN

Ward Spaulding School Preschool Classroom Renovations

945 MOUNTAIN RD WEST SUFFIELD, CT 06093

PROJECT DATA

PROJECT NUMBER

FILE REFERENCE

DRAWN

SCALE

CHECKED

CURRENT SUBMISSION DATE

HISTORY OF SUBMISSIONS

Date

20016

6.01.20

As indicated

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EY TE #	TOILET ACCESSORY / PLUMBING FIXTURE / FURNITURE BY OWNER
1C	36" LONG GRAB BAR, 102800
2C	42" LONG GRAB BAR, 102800
BC	18" TALL GRAB BAR, 102800
łC	WALL-MOUNTED DRINKING FOUNTAIN, RE: PLUMBING
БС	WALL-MOUNTED SOAP DISPENSER, 102800
SC	18" X 60" FRAMELESS MIRROR, 102800
′C	EMERGENCY CALL FOR AID, 102800
BC	WALL-MOUNTED TOILET PAPER DISPENSER, 102800. HORIZONTAL DISTANCE FROM CENTER OF DISPENSER TO FRONT OF TOILET TO BE 7"-9"
9C	FLOOR-MOUNTED TOILET, RE: PLUMBING

RECESSED PAPER TOWEL DISPENSER / WASTE RECEPTACLE, 102800

[11C] WALL-MOUNTED LAVATORY SINK WITH MOTION-ACTIVATED FAUCET, RE: PLUMBING

10C

12 2'-6" X 4'-0" CLEAR FLOOR AREA

13 5'-0" DIAMETER TURNING RADIUS AREA

14 4'-8" X 5'-0" CLEAR FLOOR AREA FOR TOILET

16 FREESTANDING SHELVING BY OWNER (N.I.C.)

15 FREESTANDING DIAPER-CHANGING STATION BY OWNER (N.I.C.)

FOR CONSTRUCTION

SHEET TITLE

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INTERIOR ELEVATIONS, MILLWORK DETAILS, ENLARGED TOILET ROOM PLAN AND ELEVATIONS, TOILET ACCESSORY DETAILS

TOILET ACCESSORY, FIXTURE & FURNITURE KEYNOTES SCALE: 1/4" = 1'-0"



SCOPE OF WORK LIMIT LINES -

GENERAL REFLECTED CEILING PLAN 9 NOTES

RUNNERS AT THE OTHER TWO WALLS. C. PROVIDE VERTICAL SUPPORT AS REQUIRED IN BUILDING CODES. IN ADDITION, VERTICALLY SUPPORT ENDS OF RUNNERS WITH 8" OF DISCONTINUITIES SUCH AS MAY OCCUR WHERE THE CEILING IS INTERRUPTED BY A WALL. D. SUPPORT LIGHT FIXTURES AND AIR DIFFUSERS DIRECTLY TO THE STRUCTURE ABOVE. RESET ALL EXISTING FIXTURES TO REMAIN WITHIN CEILING SYSTEMS SO THAT THEY ARE

DENOTES PORTION OF EXIST. CLG. TILE & GRID TO BE EXTENDED AND TO BE TIED INTO NEW DEMISING WALL AFTER CONSTRUCTION IS FINISHED. 2X4 ACOUSTICAL CEILING SYSTEM EXISTING CEILING FAN 2'-0" X 4'-0" RECESSED LAY-IN LED FIXTURE OCCUPANCY SENSOR CEILING MOUNTED PROJECTOR

	AEA KEYNOTES - REFLECTED CEILING PLAN
1	PATCH TO MATCH EXISTING CEILING TILE AND GRID TO MAKE CEILING COMPLETE WHERE EXHAUST FAN OR PLUMBING CHASE WAS REMOVED & RELOCATED.
2	SALVAGED CEILING FAN IN NEW LOCATION.

GENERAL REFLECTED CEILING PLAN NOTES

SCHEDULED CEILING HEIGHT SHALL BE MAINTAINED. EXISTING HVAC AND PLUMBING

ALL NEW OR RELOCATED SPRINKLER HEADS, RECESSED CAN LIGHT FIXTURES, ETC. SHOWN

TO BE RELOCATED WITHIN CENTER OF 2X2 OR 2X4 CEILING TILE UNLESS OTHERWISE NOTED ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF ALL WIRING ABOVE

WHERE NEW OR EXISTING CEILING TILES HAVE A TEGULAR EDGE, KERF ALL CUT CEILING TILES OR TILES THAT PASS OVER PARTITIONS TO MATCH EXISTING EDGE DESIGN.

DESIGN SUSPENDED CEILING FRAMING SYSTEMS TO RESIST A LATERAL % OF THE WEIGHT OF

THE CEILING ASSEMBLY AND ANY FORCE OF 20 LOADS TRIBUTARY TO THE SYSTEM. USE A

MINIMUM CEILING WEIGHT OF 5 POUNDS PER SQUARE FOOT TO DETERMINE THE LATERAL

PARTITIONS ARE NOT CONNECTED TO THE CEILING SYSTEM, THE FOLLOWING BRACING

A. PROVIDE LATERAL SUPPORT BY FOUR WIRES OF MINIMUM NO. 12 GAUGE SPLAYED IN FOUR DIRECTIONS 90 DEGRESS APART, AND CONNECTED TO THE MAIN RUNNER WITHIN 2" OF THE CROSS RUNN AND TO THE STRUCTURE ABOVE AT AN ANGLE NOT EXCEEDING 45

DEGREES FROM THE PLANE OF THE CEILING. PROVIDE THESE LATERAL SUPPORT POINTS 12

FEET ON CENETER IN EACH DIRECTION, WITH THE FIRST POINT WITHIN 4' FROM EACH WALL.

B. ALLOW FOR LATERAL MOVEMENT OF THE SYSTEM. ATTACH MAIN RUNNERS AND CROSS

RUNNERS AT TWO ADJACENT WALLS; MAINTAIN CLEARANCE BETWEEN THE WALL AND THE

WHERE CEILING LOADS DO NO EXCEED 5 POUNDS PER SQUARE FOOT AND WHERE

SYSTEMS SHALL BE MODIFIED AS REQUIRED TO MEET CEILING HEIGHTS.

THE CEILING WHICH IS ABANDONED AS PART OF THIS OR PAST WORK

CONTRACTOR TO NOTIFY ARCHITECT IF ANY DISCREPANCIES EXIST BETWEEN

ALL CABLES MUST BE SUSPENDED OFF THE LAY-IN CEILING

ARCHITECTURAL RCP AND ELECTRICAL WIRING PLAN.

FORCE.

METHODS MAY BE EMPLOYED:

LEVEL, IF APPLICABLE.

↑ € ↑
† ₽ †

EMERGENCY LIGHT FIXTURE (BATTERY BACKUP CONCEALED IN WALL)

STROBE TIED TO BUILDING FIRE ALARM

LED EXIT SIGN, CEILING MOUNTED

LED EXIT SIGN, WALL MOUNTED

HORN / STROBE TIED TO BUILDING FIRE ALARM

REFLECTED CEILING PLAN LEGEND SCALE: 1/4" = 1'-0"

PROJECTOR SCREEN MANUAL

OPS ∎

AMENTA EMMA ARCHITECTS

Suffield Public Schools

Ward Spaulding School Preschool Classroom Renovations

945 MOUNTAIN RD WEST SUFFIELD, CT 06093

CONSULTANTS

KEY PLAN

PROJECT DATA PROJECT NUMBER 20016 CURRENT SUBMISSION DATE 6.01.20 DRAWN AEO CHECKED CAB SCALE As indicated FILE REFERENCE C:\Users\AEO\Documents\20016-Suffield Spaulding School-CENTRAL-2020_AEO.rvt

HISTORY OF SUBMISSIONS



FOR CONSTRUCTION

SHEET TITLE

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REFLECTED CEILING PLAN & NOTES



SECTION 007000 GENERAL CONDITIONS

- 1. Conform work to the Contract Documents which include the Owner/Contractor Agreement, the Drawings, and all Addenda and Modifications issued by the Architect.
- 2. The General Conditions of the Contract is the American Institute of Architects (AIA), document A201, "General Conditions of the Contract for Construction," current edition, which is made part of the contract documents as if bound herein and shall be adhered to except as modified below. The Architect will provide a single copy of document upon request. 3. G.C. shall furnish information on the Site Supervisor, Fire Guard and provide the Property Manager with all

SECTION 007300 SUPPLEMENTARY CONDITIONS

- 1. No substitutions of materials or products will be made without approval of the Architect. Accompany substitution request with complete technical data and list changes this substitution would cause, including time, cost. etc.
- 2. All work shall be done in accordance with manufacturers written recommendations and recognized acceptable standards of good practice.
- 3. Provide one (1) year warranty for material and workmanship except where more stringent requirements are
- 4. In case of an inconsistency between the drawings and specifications, the better quality or greater quantity of work shall be provided in accordance with the architect's interpretation.

SECTION 061000 ROUGH CARPENTRY

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

applicable licenses.

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.
- 1.2 SUMMARY A. This Section includes the following:
- Wood blocking, cants, and nailers.
- Wood furring and grounds.
- 3. Plywood backing panels.

1.3 DEFINITIONS

- A. Dimension Lumber: Lumber of 2 inches nominal or greater but less than 5 inches nominal in least dimension. 1.4 SUBMITTALS A. Product Data: For each type of process and factory-fabricated product. Indicate component materials and
 - dimensions and include construction and application details. 1. Include data for wood-preservative treatment from chemical treatment manufacturer and certification by
 - treating plant that treated materials comply with requirements. Indicate type of preservative used and net amount of preservative retained. 2. Include data for fire-retardant treatment from chemical treatment manufacturer and certification by treating
 - plant that treated materials comply with requirements. Include physical properties of treated materials based on testing by a qualified independent testing agency. 3. For products receiving a waterborne treatment, include statement that moisture content of treated
 - materials was reduced to levels specified before shipment to Project site. . Include copies of warranties from chemical treatment manufacturers for each type of treatment.
- B. Research/Evaluation Reports: For the following, showing compliance with building code in effect for Project: . Preservative-treated wood. Fire-retardant-treated wood.
- 1.5 DELIVERY, STORAGE, AND HANDLING
- A. Stack lumber flat with spacers between each bundle to provide air circulation. Provide for air circulation around stacks and under coverings.
- PART 2 PRODUCTS
- 2.1 WOOD PRODUCTS, GENERAL
- A. Lumber: DOC PS 20 and applicable rules of grading agencies indicated. If no grading agency is indicated, provide lumber that complies with the applicable rules of any rules-writing agency certified by the ALSC Board of Review. Provide lumber graded by an agency certified by the ALSC Board of Review to inspect and grade lumber under the rules indicated.
- Factory mark each piece of lumber with grade stamp of grading agency. Where nominal sizes are indicated, provide actual sizes required by DOC PS 20 for moisture content specified. Where actual sizes are indicated, they are minimum dressed sizes for dry lumber.
- 3. Provide dressed lumber, S4S, unless otherwise indicated.
- 2.2 WOOD-PRESERVATIVE-TREATED MATERIALS A. Preservative Treatment by Pressure Process: AWPA C2, except that lumber that is not in contact with the
 - ground and is continuously protected from liquid water may be treated according to AWPA C31 with inorganic boron (SBX). Preservative Chemicals: Acceptable to authorities having jurisdiction and containing no arsenic or
- chromium. B. Kiln-dry lumber after treatment to a maximum moisture content of 19 percent. Do not use material that is
- warped or does not comply with requirements for untreated material. C. Mark lumber with treatment quality mark of an inspection agency approved by the ALSC Board of Review.
- D. Application: Treat items indicated on Drawings, and the following: 1. Wood cants, nailers, curbs, equipment support bases, blocking, stripping, and similar members in rection with rooming, hashing, vapor barners, and waterproomin
- Blocking, furring, and similar concealed members in contact with masonry or concrete.
- 2.3 FIRE-RETARDANT-TREATED MATERIALS A. General: Comply with performance requirements in AWPA C20 (lumber) and AWPA C27 (plywood). All fire treated material shall meet or exceed ASTM E84.
 - Use treatment that does not promote corrosion of metal fasteners. Use Exterior type or Interior Type A, for all locations, where fire-retardent-treated material is indicated.
- B. Identify fire-retardant-treated wood with appropriate classification marking of testing and inspecting agency
- acceptable to authorities having jurisdiction.
- C. Application: Treat items indicated on Drawings, and the following:

Concealed blocking. Plywood backing panels.

2.4 MISCELLANEOUS LUMBER

- A. General: Provide miscellaneous lumber indicated and lumber for support or attachment of other construction, including the following:
- 1. Blocking.
- Nailers.
- Cants. Furring.
- Grounds.
- Utility shelving.
- Rooftop equipment bases and support curbs. B. For items of dimension lumber size, provide Standard, Stud, or No. 3 grade lumber with 19 percent maximum moisture content of any species.
- C. For exposed boards, provide lumber with 15 percent maximum moisture content and any of the following species and grades:
- Eastern white pine, Idaho white, Iodgepole, ponderosa, or sugar pine; Premium or 2 Common (Sterling) grade; NeLMA, NLGA, WCLIB, or WWPA.
- Mixed southern pine, No. 2 grade; SPIB.
- . Hem-fir or hem-fir (north), Construction or No. 2 Common grade; NLGA, WCLIB, or WWPA. 4. Spruce-pine-fir (south) or spruce-pine-fir, Select Merchantable or No. 1 Common grade; NeLMA,
- NLGA, WCLIB, or WWPA D. For concealed boards, provide fire-retardant treated lumber with 19 percent maximum moisture content and
- any of the following species and grades:
- Mixed southern pine, No. 2 grade; SPIB. . Spruce-pine-fir (south) or spruce-pine-fir, Construction or 2 Common grade; NeLMA, NLGA, WCLIB, or
- E. For blocking not used for attachment of other construction Utility, Stud, or No. 3 grade lumber of any species may be used provided that it is cut and selected to eliminate defects that will interfere with its attachment and
- F. For blocking and nailers used for attachment of other construction, select and cut lumber to eliminate knots and
- other defects that will interfere with attachment of other work. G. For furring strips for installing plywood or hardboard paneling, select boards with no knots capable of producing
- bent-over nails and damage to paneling.
- 2.5 PLYWOOD BACKING PANELS A. Telephone and Electrical Equipment Backing Panels: DOC PS 1, Exposure 1, C-D Plugged, fire-retardant
- treated, in thickness indicated or, if not indicated, not less than 1/2-inch nominal thickness. 2.6 FASTENERS
- A. General: Provide fasteners of size and type indicated that comply with requirements specified in this Article for material and manufacture.
- . Where carpentry is exposed to weather, in ground contact, pressure-preservative treated, or in area of high relative humidity, provide fasteners with hot-dip zinc coating complying with ASTM A 153/A 153M. B. Power-Driven Fasteners: NES NER-272.
- Wood Screws: ASME B18.6.1.
- D. Screws for Fastening to Cold-Formed Metal Framing: ASTM C 954, except with wafer heads and reamer wings, length as recommended by screw manufacturer for material being fastened.
- Lag Bolts: ASME B18.2.1. . Bolts: Steel bolts complying with ASTM A 307, Grade A; with ASTM A 563 hex nuts and, where indicated, flat
- washers. G. Expansion Anchors: Anchor bolt and sleeve assembly of material indicated below with capability to sustain, without failure, a load equal to 6 times the load imposed when installed in unit masonry assemblies and equal to 4 times the load imposed when installed in concrete as determined by testing per ASTM E 488 conducted by a qualified independent testing and inspecting agency.
- 1. Material: Carbon-steel components, zinc plated to comply with ASTM B 633, Class Fe/Zn 5. 2.7 MISCELLANEOUS MATERIALS
- A. Adhesives for Gluing Furring to Concrete or Masonry: Formulation complying with ASTM D 3498 that is approved for use indicated by adhesive manufacturer.
- PART 3 EXECUTION 3.1 INSTALLATION, GENERAL

A. Set carpentry to required levels and lines, with members plumb, true to line, cut, and fitted. Fit carpentry to other construction; scribe and cope as needed for accurate fit. Locate furring, nailers, blocking, grounds, and similar supports to comply with requirements for attaching other construction.

SECTION 061000 ROUGH CARPENTRY (CONT'D)

- Do not splice structural members between supports, unless otherwise indicated. D. Provide blocking and framing as indicated and as required to support facing materials, fixing
- 1. Provide metal clips for fastening gypsum board or lath at corners and intersections blocking does not provide a surface for fastening edges of panels. Space clips not
- E. Provide fire blocking in furred spaces, stud spaces, and other concealed cavities as indica
- 1. Fire block furred spaces of walls, at each floor level, at ceiling, and at not more than solid wood blocking or noncombustible materials accurately fitted to close furred spa 2. Fire block concealed spaces of wood-framed walls and partitions at each floor level,
- story, and at not more than 96 inches o.c. Where fire blocking is not inherent in fran provide closely fitted solid wood blocks of same width as framing members and 2-ind thickness. F. Sort and select lumber so that natural characteristics will not interfere with installation or
- materials to lumber. Do not use materials with defects that interfere with function of mem too small to use with minimum number of joints or optimum joint arrangement.
- G. Comply with AWPA M4 for applying field treatment to cut surfaces of preservative-treated Use inorganic boron for items that are continuously protected from liquid water. Use copper naphthenate for items not continuously protected from liquid water.
- H. Securely attach carpentry work to substrate by anchoring and fastening as indicated, cor
- NES NER-272 for power-driven fasteners.
- 2. Table 2304.9.1, "Fastening Schedule," in ICC's International Building Code. I. Use common wire nails, unless otherwise indicated. Select fasteners of size that will not members where opposite side will be exposed to view or will receive finish materials. Ma between members. Install fasteners without splitting wood; do not countersink nail heads
- indicated. 3.2 WOOD GROUND, SLEEPER, BLOCKING, AND NAILER INSTALLATION
- A. Install where indicated and where required for screeding or attaching other work. Form t
- cut as required for true line and level of attached work. Coordinate locations with other wo B. Attach items to substrates to support applied loading. Recess bolts and nuts flush with su
- otherwise indicated. C. Provide permanent grounds of dressed, pressure-preservative-treated, key-beveled lumb 1/2 inches wide and of thickness required to bring face of ground to exact thickness of finit
- temporary grounds when no longer required. 3.3 WOOD FURRING INSTALLATION A. Install level and plumb with closure strips at edges and openings. Shim with wood as req
- finish work B. Furring to Receive Plywood or Hardboard Paneling: Install 1-by-3-inch nominal- size furr inches o.c
- 3.4 PROTECTION
- A. Protect wood that has been treated with inorganic boron (SBX) from weather. If, despite boron-treated wood becomes wet, apply EPA-registered borate treatment. Apply borate comply with EPA-registered label. B. Protect rough carpentry from weather. If, despite protection, rough carpentry becomes w
- registered borate treatment. Apply borate solution by spraying to comply with EPA-regist

Contractor.

PART 1 - GENERAL

- 1.1 SUMMARY
- A. This Section includes the following:
- Architectural Woodwork. Cabinetwork

SECTION 061000 ROUGH CARPENTRY (CONT'D)	SECTION 079200 JOINT SEALANTS	SECTION 079200 JOINT SEALANTS (CONT'D)
 B. Framing Standard: Comply with AF&PA's "Details for Conventional Wood Frame Construction," unless otherwise indicated. C. Do not splice structural members between supports, unless otherwise indicated. 	 PART 1 - GENERAL 1.1 RELATED DOCUMENTS A. Drawings and general provisions of the Contract, including General and Supplementary Conditions 	PART 2 - PRODUCTS 2.1 MANUFACTURERS A. Products: Subject to compliance with requirements, provide one of the products listed in other Part 2
 D. Provide blocking and framing as indicated and as required to support facing materials, fixtures, specialty items, and trim. 1. Provide metal clips for fastening gypsum board or lath at corners and intersections where framing or 	and Division 1 Specification Sections, apply to this Section. 1.2 SUMMARY A. This Section includes joint sealants for the following applications, including those specified by	articles. 2.2 MATERIALS, GENERAL
blocking does not provide a surface for fastening edges of panels. Space clips not more than 16 inches o.c.	reference to this Section: Interior joints in the following vertical surfaces and horizontal nontraffic surfaces: Control and expansion joints on exposed interior surfaces of exterior walls. 	A. Compatibility: Provide joint sealants, backings, and other related materials that are compatible with one another and with joint substrates under conditions of service and application, as demonstrated by sealant manufacturer, based on testing and field experience.
 Provide fire blocking in furred spaces, stud spaces, and other concealed cavities as indicated and as follows: 1. Fire block furred spaces of walls, at each floor level, at ceiling, and at not more than 96 inches o.c. with solid wood blocking or noncombustible materials accurately fitted to close furred spaces. 	b. Perimeter joints of exterior openings where indicated.c. Tile control and expansion joints.	 B. Colors of Exposed Joint Sealants: As selected by Architect from manufacturer's full range. 2.3 ELASTOMERIC JOINT SEALANTS A. Elastomeric Sealants: Comply with ASTM C 920 and other requirements indicated for each liquid-
 Fire block concealed spaces of wood-framed walls and partitions at each floor level, at ceiling line of top story, and at not more than 96 inches o.c. Where fire blocking is not inherent in framing system used, provide closely fitted solid wood blocks of same width as framing members and 2-inch nominal- 	 d. Vertical joints on exposed surfaces of concrete walls and partitions. e. Perimeter joints between interior wall surfaces and frames of interior doors and windows. f. Joints between plumbing fixtures and adjoining walls, floors, and counters. 	 applied chemically curing sealant specified, including those referencing ASTM C 920 classifications for type, grade, class, and uses related to exposure and joint substrates. B. Stain-Test-Response Characteristics: Where elastomeric sealants are specified to be nonstaining to
thickness. F. Sort and select lumber so that natural characteristics will not interfere with installation or with fastening other	 g. Other joints as indicated. B. Related Sections include the following: 1 Division 7 Section "Fire Resistive Joint Systems" for cooling joints in fire resistance rated 	porous substrates, provide products that have undergone testing according to ASTM C 1248 and have not stained porous joint substrates indicated for Project.
materials to lumber. Do not use materials with defects that interfere with function of member or pieces that are too small to use with minimum number of joints or optimum joint arrangement.G. Comply with AWPA M4 for applying field treatment to cut surfaces of preservative-treated lumber.	 Division 7 Section "Fire-Resistive Joint Systems" for sealing joints in fire-resistance-rated construction. Division 8 Section "Glazing" for glazing sealants. 	 C. Suitability for Contact with Food: Where elastomeric sealants are indicated for joints that will come in repeated contact with food, provide products that comply with 21 CFR 177.2600. D. Single-Component Pourable Neutral-Curing Silicone Sealant
 Use inorganic boron for items that are continuously protected from liquid water. Use copper naphthenate for items not continuously protected from liquid water. 	 Division 8 Section "Aluminum Framed Entrances and Storefronts" for structural and other glazing sealants. Division 9 Section "Gypsum Board Assemblies" for sealing perimeter joints of gypsum board 	Use for interior horizontal moving joints 1. Available Products:
 H. Securely attach carpentry work to substrate by anchoring and fastening as indicated, complying with the following: 1. NES NER-272 for power-driven fasteners. 	partitions to reduce sound transmission.5. Division 9 Section "Ceramic Tile" for sealing tile joints.	 a. Dow Corning Corporation; 890-SL. b. Pecora Corporation; 300 Pavement Sealant (Self Leveling). c. Dow Corning Corporation; SL Parking Structure Sealant.
 Table 2304.9.1, "Fastening Schedule," in ICC's International Building Code. Use common wire nails, unless otherwise indicated. Select fasteners of size that will not fully penetrate members where opposite side will be exposed to view or will receive finish materials. Make tight connections 	 Division 9 Section "Acoustical Panel Ceilings" for sealing edge moldings at perimeters of acoustical ceilings. PERFORMANCE REQUIREMENTS 	 Type and Grade: S (single component) and P (pourable). Class: 100/50.
between members. Install fasteners without splitting wood; do not countersink nail heads, unless otherwise indicated.	A. Provide elastomeric joint sealants that establish and maintain watertight and airtight continuous joint seals without staining or deteriorating joint substrates.	 Uses Related to Exposure: NT and T (traffic). Uses Related to Joint Substrates: M, A,and O, as applicable to joint substrates indicated. a. Use O Joint Substrates: Galvanized steel ceramic tile and concrete.
 3.2 WOOD GROUND, SLEEPER, BLOCKING, AND NAILER INSTALLATION A. Install where indicated and where required for screeding or attaching other work. Form to shapes indicated and cut as required for true line and level of attached work. Coordinate locations with other work involved. 	 1.4 SUBMITTALS A. Product Data: For each joint-sealant product indicated. B. Samples for Initial Selection: Manufacturer's color charts consisting of strips of cured sealants 	Use for all interior vertical moving joints 1. Products:
 B. Attach items to substrates to support applied loading. Recess bolts and nuts flush with surfaces, unless otherwise indicated. C. Provide permanent grounds of dressed, pressure-preservative-treated, key-beveled lumber not less than 1- 	 showing the full range of colors available for each product exposed to view. Samples for Verification: For each type and color of joint sealant required, provide Samples with joint sealants in 1/2-inch- wide joints formed between two 6-inch- long strips of material matching the 	 a. Dow Corning Corporation; 790. b. GE Silicones; SilPruf LM SCS2700. c. Pecora Corporation; 864.
1/2 inches wide and of thickness required to bring face of ground to exact thickness of finish material. Remove temporary grounds when no longer required.	appearance of exposed surfaces adjacent to joint sealants. D. SWRI Validation Certificate: For each elastomeric sealant specified to be validated by SWRI's	 d. Polymeric Systems Inc.; PSI-641. e. Sonneborn, Division of ChemRex Inc.; Omniseal. f. Tremco; Spectrem 3.
 3.3 WOOD FURRING INSTALLATION A. Install level and plumb with closure strips at edges and openings. Shim with wood as required for tolerance of finish work. 	 Sealant Validation Program. E. Qualification Data: For Installer. F. Compatibility and Adhesion Test Reports: From sealant manufacturer, indicating the following: 	 Type and Grade: S (single component) and NS (nonsag). Class: 50.
 B. Furring to Receive Plywood or Hardboard Paneling: Install 1-by-3-inch nominal- size furring vertically at 24 inches o.c. 3.4 PROTECTION 	 Materials forming joint substrates and joint-sealant backings have been tested for compatibility and adhesion with joint sealants. Interpretation of test results and written recommendations for primers and substrate preparation 	 Use Related to Exposure: NT (nontraffic). Uses Related to Joint Substrates: M, G, A, and, as applicable to joint substrates indicated, O. a. Use O Joint Substrates: color anodic aluminum galvanized steel ceramic tile wood and
A. Protect wood that has been treated with inorganic boron (SBX) from weather. If, despite protection, inorganic boron-treated wood becomes wet, apply EPA-registered borate treatment. Apply borate solution by spraying to	needed for adhesion. G. Field Test Report Log: For each elastomeric sealant application.	concrete/precast concrete. 6. Stain-Test-Response Characteristics: Nonstaining to porous substrates per ASTM C 1248. F. Single-Component Mildew-Resistant Acid-Curing Silicone Sealant:
 comply with EPA-registered label. B. Protect rough carpentry from weather. If, despite protection, rough carpentry becomes wet, apply EPA-registered borate treatment. Apply borate solution by spraying to comply with EPA-registered label. 	 H. Product Test Reports: Based on comprehensive testing of product formulations performed by a qualified testing agency, indicating that sealants comply with requirements. I. Warranties: Special warranties specified in this Section. 	Use for sealing around interior plumbing fixtures and ceramic tile 1. Products:
	 QUALITY ASSURANCE A. Installer Qualifications: Manufacturer's authorized Installer who is approved or licensed for installation of elastomeric sealants required for this Project. 	 a. Dow Corning Corporation; 786 Mildew Resistant. b. GE Silicones; Sanitary SCS1700. c. Tremco; Tremsil 200 White.
SECTION 064023 INTERIOR ARCHITECTURAL WOODWORK PART 1 - GENERAL	 B. Source Limitations: Obtain each type of joint sealant through one source from a single manufacturer. C. Preconstruction Compatibility and Adhesion Testing: Submit to joint-sealant manufacturers, for 	 Type and Grade: S (single component) and NS (nonsag). Class: 25. Use Related to Exposure: NT (nontraffic).
1.1 SUMMARY A. This Section includes the following: 1. Architectural Woodwork.	 testing indicated below, samples of materials that will contact or affect joint sealants. Use ASTM C 1087 to determine whether priming and other specific joint preparation techniques are required to obtain rapid, optimum adhesion of joint sealants to joint substrates. 	 Uses Related to Joint Substrates: G, A, and, as applicable to joint substrates indicated, O. a. Use O Joint Substrates: anodic aluminum, ceramic tile, and plumbing fixtures.
 Cabinetwork B. Interior architectural woodwork includes wood furring, blocking, shims, and hanging strips unless 	 Submit not fewer than eight pieces of each type of material, including joint substrates, shims, joint-sealant backings, secondary seals, and miscellaneous materials. Schedule sufficient time for testing and analyzing results to prevent delaying the Work. 	 2.4 SOLVENT-RELEASE JOINT SEALANTS A. Butyl-Rubber-Based Solvent-Release Joint Sealant: Comply with ASTM C 1085. Use for threshold setting bed
concealed within other construction before woodwork installation. 1.2 SUBMITTALS A. Product Data: For finishing materials and processes.	 For materials failing tests, obtain joint-sealant manufacturer's written instructions for corrective measures including use of specially formulated primers. 	1. Products: a. Bostik Findley; Bostik 300.
B. Shop Drawings: Show location of each item, dimensioned plans and elevations, large-scale details, attachment devices, and other components.	D. Product Testing: Obtain test results for "Product Test Reports" Paragraph in "Submittals" Article from a qualified testing agency based on testing current sealant formulations within a 36-month period preceding the Notice to Proceed with the Work.	 b. Fuller, H. B. Company; SC-0296. c. Fuller, H. B. Company; SC-0288. d. Pecora Corporation; BC-158.
 C. Samples: 1. Submit three (3) samples of all architectural woodwork finishes; painted, lacquer and plastic laminate to Architect for review and acceptance prior to fabrication. 	 Testing Agency Qualifications: An independent testing agency qualified according to ASTM C 1021 to conduct the testing indicated, as documented according to ASTM E 548. 	 e. Polymeric Systems Inc.; PSI-301 f. Sonneborn, Division of ChemRex Inc.; Sonneborn Multi-Purpose Sealant. g. Tremco; Tremco Butyl Sealant.
 D. Woodwork Quality Standard Compliance Certificates: AWI Quality Certification Program certificates. E. Submit certification of fire-treated of wood stating name of fire-retardant materials used, and compliance with AWPA specification C1 and C20 for lumber and C27 for plywood. 	 Test elastomeric joint sealants for compliance with requirements specified by reference to ASTM C 920, and where applicable, to other standard test methods. 	2.5 LATEX JOINT SEALANTS A. Latex Sealant: Comply with ASTM C 834, Type P, Grade NF.
1.3 QUALITY ASSURANCE A. Installer Qualifications: Fabricator of woodwork.	 Test elastomeric joint sealants according to SWRI's Sealant Validation Program for compliance with requirements specified by reference to ASTM C 920 for adhesion and cohesion under cyclic movement, adhesion-in-peel, and indentation hardness. 	For interior non-moving joints B. Products: 1. Bostik Findley; Chem-Calk 600.
 B. Quality Standard: Unless otherwise indicated, comply with AWI's "Architectural Woodwork Quality Standards." 1. Provide AWI Quality Certification Program labels and certificates for woodwork. 	 Test other joint sealants for compliance with requirements indicated by referencing standard specifications and test methods. Preconstruction Field-Adhesion Testing: Before installing elastomeric sealants, field test their 	 Pecora Corporation; AC-20+. Schnee-Morehead, Inc.; SM 8200. Sonneborn, Division of ChemRex Inc.; Sonolac.
C. Contractor shall have examined the job site in conjunction with Project Documents so as to be satisfied as to the conditions under which the work will be performed, including such matters as unloading facilities, location and size of elevators, equipment or facilities and any other conditons needed	adhesion to Project joint substrates as follows: 1. Locate test joints where indicated on Project or, if not indicated, as directed by Architect.	5. Tremco; Tremflex 834. 2.6 ACOUSTICAL JOINT SEALANTS
preliminary to and during the work. PART 2 - PRODUCTS	 Conduct field tests for each application indicated below: a. Each type of elastomeric sealant and joint substrate indicated. b. Each type of nonelastomeric sealant and joint substrate indicated. 	 A. Acoustical Sealant for Exposed and Concealed Joints: Manufacturer's standard nonsag, paintable, nonstaining latex sealant complying with ASTM C 834 and the following: 1. Product effectively reduces airborne sound transmission through perimeter joints and openings in
 2.1 MATERIALS A. Plastic Laminate: Plastic laminate color, manufacturer and finish as designated on finish plans, shall be of the following types for specific application, conforming to NEMA LD-3 and Architect approved 	 Notify Architect seven days in advance of dates and times when test joints will be erected. Arrange for tests to take place with joint-sealant manufacturer's technical representativepresent. a. Test Method: Test joint sealants according to Method A, Field-Applied Sealant Joint Hand 	 building construction as demonstrated by testing representative assemblies according to ASTM E90. Products: a. Pecora Corporation; AC-20 FTR Acoustical and Insulation Sealant.
 samples. Adhesive: Contact Type, FS MM-A 130, as recommended by manufacturer to suit application. Horizontal Surfaces: General Purpose Type, nominal 0.050 inch. Vertical Surfaces: Vertical Surface Type, nominal 0.032 inch. 	Pull Tab, in Appendix X1 in ASTM C 1193.For joints with dissimilar substrates, verify adhesion to each substrate separately;	 b. United States Gypsum Co.; SHEETROCK Acoustical Sealant. 2.7 JOINT-SEALANT BACKING
 Unexposed Surfaces: Balanced with 0.020 inch backing sheet. Bases: Specified purpose type, nominal 0.125 inch. Postformed countertops. 	extend cut along one side, verifying adhesion to opposite side. opposite side. 5. Report whether sealant in joint connected to pulled-out portion failed to adhere to joint	A. General: Provide sealant backings of material and type that are nonstaining; are compatible with joint substrates, sealants, primers, and other joint fillers; and are approved for applications indicated by sealant manufacturer based on field experience and laboratory testing.
 Postforming Type: Nominal 0.040 inch. Semi-exposed Surfaces: Cabinet Liner, low pressure polyester overlay, nominal 0.020 inch, unless noted to recieve plastic laminate on Drawings. 	substrates or tore cohesively. Include data on pull distance used to test each type of product and joint substrate. For sealants that fail adhesively, retest until satisfactory adhesion is obtained.	B. Cylindrical Sealant Backings: ASTM C 1330, Type C (closed-cell material with a surface skin) or any of the preceding types, as approved in writing by joint-sealant manufacturer for joint application indicated, and of size and density to control sealant depth and otherwise contribute to producing optimum sealant
 2.3 FIRE-RETARDANT-TREATED MATERIALS A. Fire-Retardant-Treated Lumber and Plywood by Pressure Process: Comply with performance requirements of AWPA C20 (lumber), AWPA C27 (plywood), and ASTM E84. Use Interior Type A. Use 	6. Evaluation of Preconstruction Field-Adhesion-Test Results: Sealants not evidencing adhesive failure from testing, in absence of other indications of noncompliance with requirements, will be	performance: C. Elastomeric Tubing Sealant Backings: Neoprene, butyl, EPDM, or silicone tubing complying with ASTM D 1056, nonabsorbent to water and gas, and capable of remaining resilient at temperatures down to minus
fire-retardant-treatment formulations that do not bleed through or otherwise adversely affect finishes. Kiln-dry material after treatment. 2.4 MISCELLANEOUS MATERIALS	considered satisfactory. Do not use sealants that fail to adhere to joint substrates during testing. F. Mockups: Build mockups incorporating sealant joints, as follows, to verify selections made under	26 deg F. Provide products with low compression set and of size and shape to provide a secondary seal, to control sealant depth, and to otherwise contribute to optimum sealant performance.
 A. Adhesives, General: Do not use adhesives that contain urea formaldehyde. B. Cabinet hardware and related accessories shall be indicated on millwork details. 	 sample submittals and to demonstrate aesthetic effects and set quality standards for materials and execution: Joints in mockups of assemblies specified in other Sections that are indicated to receive 	D. Bond-Breaker Tape: Polyethylene tape or other plastic tape recommended by sealant manufacturer for preventing sealant from adhering to rigid, inflexible joint-filler materials or joint surfaces at back of joint where such adhesion would result in sealant failure. Provide self-adhesive tape where applicable.
 2.5 FABRICATION A. General: Complete fabrication to maximum extent possible before shipment to Project site. Where necessary for fitting at site, provide allowance for scribing, trimming, and fitting. 	elastomeric joint sealants, which are specified by reference to this Section. G. Preinstallation Conference: Conduct conference at Project site to comply with requirements in	 2.8 MISCELLANEOUS MATERIALS A. Primer: Material recommended by joint-sealant manufacturer where required for adhesion of sealant to joint substrates indicated, as determined from preconstruction joint-sealant-substrate tests and field tests.
 Interior Woodwork Grade: Premium. Shop cut openings to maximum extent possible. Sand edges of cutouts to remove splinters and burge. Scale edges of openings in countertons with a cost of varnich. 	Division 1 Section "Project Management and Coordination." 1.6 PROJECT CONDITIONS A. Do not proceed with installation of joint sealants under the following conditions:	B. Cleaners for Nonporous Surfaces: Chemical cleaners acceptable to manufacturers of sealants and sealant backing materials, free of oily residues or other substances capable of staining or harming joint
 burrs. Seal edges of openings in countertops with a coat of varnish. B. Interior Standing and Running Trim: 1. For transparent-finished trim items wider than available lumber, use veneered construction. Do not also forgoitht 	 When ambient and substrate temperature conditions are outside limits permitted by joint-sealant manufacturer or are below 40 deg F. When joint substrates are wet. 	substrates and adjacent nonporous surfaces in any way, and formulated to promote optimum adhesion of sealants to joint substrates.C. Masking Tape: Nonstaining, nonabsorbent material compatible with joint sealants and surfaces adjacent
 not glue for width. Backout or groove backs of flat trim members and kerf backs of other wide, flat members, except for members with ends exposed in finished work. 	 Where joint widths are less than those allowed by joint-sealant manufacturer for applications indicated. 	to joints. PART 3 - EXECUTION 3.1 EXAMINATION
 Assemble casings in plant except where limitations of access to place of installation require field assembly. Plastic-Laminate or Opaque Einished Millwork: 	 Contaminants capable of interfering with adhesion have not yet been removed from joint substrates. 1.7 WARRANTY 	A. Examine joints indicated to receive joint sealants, with Installer present, for compliance with requirements for joint configuration, installation tolerances, and other conditions affecting joint-sealant performance.
 C. Plastic-Laminate or Opaque Finished Millwork: 1. Grade: Custom. 2.6 SHOP FINISHING 	A. Special Installer's Warranty: Installer's standard form in which Installer agrees to repair or replace elastomeric joint sealants that do not comply with performance and other requirements specified in this Section within specified warranty period.	 B. Proceed with installation only after unsatisfactory conditions have been corrected. 3.2 PREPARATION A. Surface Cleaning of Joints: Clean out joints immediately before installing joint sealants to comply with
 A. Finish architectural woodwork at fabrication shop. Defer only final touchup, cleaning, and polishing until after installation. B. Backpriming: Apply one coat of sealer or primer, compatible with finish coats, to concealed surfaces of 	 Warranty Period: Two years from date of Substantial Completion. B. Special Manufacturer's Warranty: Manufacturer's standard form in which elastomeric sealant 	 joint-sealant manufacturer's written instructions and the following requirements: Remove all foreign material from joint substrates that could interfere with adhesion of joint sealant, including dust, paints (except for permanent, protective coatings tested and approved for sealant
woodwork. Apply two coats to back of paneling. PART 3 - EXECUTION 3.1 PROTECTION	manufacturer agrees to furnish elastomeric joint sealants to repair or replace those that do not comply with performance and other requirements specified in this Section within specified warranty period.	adhesion and compatibility by sealant manufacturer), old joint sealants, oil, grease, waterproofing, water repellents, water, surface dirt, and frost.
A. Protect all architectural woodwork items during transit, delivery, storage and handling to prevent damage, soiling and deterioration. The Woodwork Contractor and General Contractor shall be jointly responsible.	 Warranty Period: Ten years from date of Substantial Completion. Special warranties specified in this Article exclude deterioration or failure of elastomeric joint sealants from the following: 	 Clean porous joint substrate surfaces by brushing, grinding, blast cleaning, mechanical abrading, or a combination of these methods to produce a clean, sound substrate capable of developing optimum bond with joint sealants. Remove loose particles remaining after cleaning operations above by
 3.2 INSTALLATION A. Woodwork Contractor shall notify the Architect in writing of any discrepancies between Drawings and field conditions and shall not proceed with the portion of Work in question until the discrepancies are 	 Movement of the structure resulting in stresses on the sealant exceeding sealant manufacturer's written specifications for sealant elongation and compression caused by structural settlement or 	vacuuming or blowing out joints with oil-free compressed air. Porous joint substrates include the following: a. Concrete.
 clarified. B. Before installation, condition woodwork to average prevailing humidity conditions in installation areas. Examine shop-fabricated work for completion and complete work as required, including removal of 	errors attributable to design or construction.Disintegration of joint substrates from natural causes exceeding design specifications.Mechanical damage caused by individuals, tools, or other outside agents.	b. Unglazed surfaces of ceramic tile.3. Remove laitance and form-release agents from concrete.
packing and backpriming. C. Grade: Install woodwork to comply with requirements for the same grade specified in Part 2 for	 Changes in sealant appearance caused by accumulation of dirt or other atmospheric contaminants. 	 Clean nonporous surfaces with chemical cleaners or other means that do not stain, harm substrates, or leave residues capable of interfering with adhesion of joint sealants. Nonporous joint substrates include the following:
fabrication of type of woodwork involved.D. Install woodwork level, plumb, true, and straight to a tolerance of 1/8 inch in 96 inches (3 mm in 2400 mm). Shim as required with concealed shims.		a. Metal. b. Glass. c. Porcelain enamel.
 E. Scribe and cut woodwork to fit adjoining work, refinish cut surfaces, and repair damaged finish at cuts. F. Anchor woodwork to anchors or blocking built in or directly attached to substrates. Secure with countersunk, concealed fasteners and blind nailing as required for complete installation. Use fine finishing 		 d. Glazed surfaces of ceramic tile. B. Joint Priming: Prime joint substrates, where recommended in writing by joint-sealant manufacturer, based
nails for exposed fastening, countersunk and filled flush with woodwork and matching final finish if transparent finish is indicated.		on preconstruction joint-sealant-substrate tests or prior experience. Apply primer to comply with joint- sealant manufacturer's written instructions. Confine primers to areas of joint-sealant bond; do not allow spillage or migration onto adjoining surfaces.
G. Standing and Running Trim: Install with minimum number of joints possible, using full-length pieces (from maximum length of lumber available) to greatest extent possible. Fill gaps, if any, between top of base and wall with plastic wood filler, sand smooth, and finish same as wood base if finished.		 Masking Tape: Use masking tape where required to prevent contact of sealant with adjoining surfaces that otherwise would be permanently stained or damaged by such contact or by cleaning methods required to remove sealant smears. Remove tape immediately after tooling without disturbing joint seal.
 H. Countertops: Anchor securely by screwing through corner blocks of supports into underside of countertop. Caulk space between backsplash and wall with sealant specified in Division 07 Section "Joint Sealants." 		required to remove sedicint sinears. Themove tape infinitediately after tooling without disturbing joint sedi.
I. Just prior to Owner acceptance, remove protective covering, touch up as required, wipe clean, adjust and lubricate hardware, and check for proper operation of all items. Coordinate this with the Conoral		

I. Just prior to Owner acceptance, remove protective covering, touch up as required, wipe clean, adjust

and lubricate hardware, and check for proper operation of all items. Coordinate this with the General

SECTION 079200 JOINT SEALANTS (CONT'D)

3.3 INSTALLATION OF JOINT SEALANTS

- A. General: Comply with joint-sealant manufacturer's written installation instructions for products and applications indicated, unless more stringent requirements apply.
- B. Sealant Installation Standard: Comply with recommendations in ASTM C 1193 for use of joint sealants
- as applicable to materials, applications, and conditions indicated.
- Acoustical Sealant Application Standard: Comply with recommendations in ASTM C 919 for use of joint sealants in acoustical applications as applicable to materials, applications, and conditions indicated.
- Install sealant backings of type indicated to support sealants during application and at position required to produce cross-sectional shapes and depths of installed sealants relative to joint widths that allow optimum sealant movement capability.
- 1. Do not leave gaps between ends of sealant backings. Do not stretch, twist, puncture, or tear sealant backings.
- Remove absorbent sealant backings that have become wet before sealant application and replace them with dry materials.
- Install bond-breaker tape behind sealants where sealant backings are not used between sealants and backs of joints.

F. Install sealants using proven techniques that comply with the following and at the same time backings are

- 1. Place sealants so they directly contact and fully wet joint substrates. Completely fill recesses in each joint configuration. Produce uniform, cross-sectional shapes and depths relative to joint widths that allow optimum sealant movement capability
- G. Tooling of Nonsag Sealants: Immediately after sealant application and before skinning or curing begins, tool sealants according to requirements specified below to form smooth, uniform beads of configuration
- indicated; to eliminate air pockets; and to ensure contact and adhesion of sealant with sides of joint. Remove excess sealant from surfaces adjacent to joints.
- Use tooling agents that are approved in writing by sealant manufacturer and that do not discolor sealants or adjacent surfaces. Provide concave joint configuration per Figure 5A in ASTM C 1193, unless otherwise indicated.
- 4. Provide recessed joint configuration of recess depth and at locations indicated per Figure 5C in ASTM C 1193.
- a. Use masking tape to protect surfaces adjacent to recessed tooled joints. 3.4 FIELD QUALITY CONTROL
- A. Field-Adhesion Testing: Field test joint-sealant adhesion to joint substrates as follows: 1. Extent of Testing: Test completed elastomeric sealant joints as follows:
- a. Perform 10 tests for the first 1000 feet of joint length for each type of elastomeric sealant and ioint substrate
- b. Perform 1 test for each 1000 feet of joint length thereafter or 1 test per each floor per elevation. 2. Test Method: Test joint sealants according to Method A, Field-Applied Sealant Joint Hand Pull Tab in Appendix X1 in ASTM C 1193, as appropriate for type of joint-sealant application indicated.
- a. For joints with dissimilar substrates, verify adhesion to each substrate separately; do this by extending cut along one side, verifying adhesion to opposite side. Repeat procedure for opposite side. 3. Inspect joints for complete fill, for absence of voids, and for joint configuration complying with
- specified requirements. Record results in a field-adhesion-test log.
- Inspect tested joints and report on the following:
- a. Whether sealants in joints connected to pulled-out portion failed to adhere to joint substrates or tore cohesively. Include data on pull distance used to test each type of product and joint substrate. Compare these results to determine if adhesion passes sealant manufacturer's field-adhesion handpull test criteria.
- b. Whether sealants filled joint cavities and are free of voids.
- Whether sealant dimensions and configurations comply with specified requirements. Record test results in a field-adhesion-test log. Include dates when sealants were installed, names of persons who installed sealants, test dates, test locations, whether joints were primed, adhesion
- results and percent elongations, sealant fill, sealant configuration, and sealant dimensions. Repair sealants pulled from test area by applying new sealants following same procedures used originally to seal joints. Ensure that original sealant surfaces are clean and that new sealant contacts original sealant.
- Evaluation of Field Test Results: Sealants not evidencing adhesive failure from testing or noncompliance with other indicated requirements will be considered satisfactory. Remove sealants that fail to adhere to joint substrates during testing or to comply with other requirements. Retest failed applications until test results prove sealants comply with indicated requirements. 3.5 CLEANING
- A. Clean off excess sealant or sealant smears adjacent to joints as the Work progresses by methods and with cleaning materials approved in writing by manufacturers of joint sealants and of products in which joints occur.
- 3.6 PROTECTION
- A. Protect joint sealants during and after curing period from contact with contaminating substances and from damage resulting from construction operations or other causes so sealants are without deterioration or damage at time of Substantial Completion. If, despite such protection, damage or deterioration occurs, cut out and remove damaged or deteriorated joint sealants immediately so installations with repaired areas are indistinguishable from original work.

AMENTA EMMA

ARCHITECTS

Suffield Public Schools

Ward Spaulding School Preschool Classroom Renovations

945 MOUNTAIN RD WEST SUFFIELD. CT 06093

CONSULTANTS

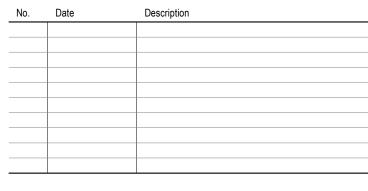
KEY PLAN



PROJECT DATA PROJECT NUMBER 20016 CURRENT SUBMISSION DATE 6.01.20 AEO DRAWN CHECKED CAB SCALE 1:1 FILE REFERENCE C:\Users\AEO\Documents\20016-Suffield

Spaulding School-CENTRAL-2020_AEO.rvt

HISTORY OF SUBMISSIONS



FOR CONSTRUCTION

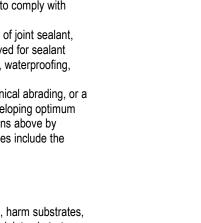
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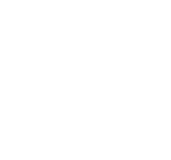
SPECIFICATIONS

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SECTION 092900 GYPSUM BOARD

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section. 1.2 SUMMARY

- A. This Section includes the following:
- 1. Interior gypsum board.
- B. Related Sections include the following:
- 1. Division 7 Section "Joint Sealants" for acoustical sealants installed in assemblies that incorporate avpsum board. 2. Division 9 Section "Non-Load-Bearing Steel Framing" for non-structural framing and suspension
- systems that support gypsum board. 3. Division 9 painting Sections for primers applied to gypsum board surfaces.
- 1.3 SUBMITTALS
- A. Product Data: For each type of product indicated. 1.4 STORAGE AND HANDLING
- A. Store materials inside under cover and keep them dry and protected against damage from weather, condensation, direct sunlight, construction traffic, and other causes. Stack panels flat to prevent
- 1.5 PROJECT CONDITIONS
- A. Environmental Limitations: Comply with ASTM C 840 requirements or gypsum board manufacturer's
- written recommendations, whichever are more stringent. B. Do not install interior products until installation areas are enclosed and conditioned.
- C. Do not install panels that are wet, those that are moisture damaged, and those that are mold
- damaged. 1. Indications that panels are wet or moisture damaged include, but are not limited to, discoloration, sagging, or irregular shape.
- 2. Indications that panels are mold damaged include, but are not limited to, fuzzy or splotchy surface contamination and discoloration.
- PART 2 PRODUCTS 2.1 PANELS, GENERAL
- A. Size: Provide in maximum lengths and widths available that will minimize joints in each area and that correspond with support system indicated.

2.2 INTERIOR GYPSUM BOARD A. General: Complying with ASTM C 36/C 36M or ASTM C 1396/C 1396M, as applicable to type of

- gypsum board indicated and whichever is more stringent. Manufacturers: Subject to compliance with requirements, provide products by one of the
- following:
- a. American Gypsum Co.
- b. BPB America Inc. c. G-P Gypsum.
- d. Gold Bond
- e. Lafarge North America Inc
- f. National Gypsum Company.
- g. PABCO Gypsum. . Temple.
- USG Corporation.
- B. Regular Type:
- . Thickness: 5/8 inch. 2. Long Edges: Tapered.
- 2.3 TRIM ACCESSORIES
- A. Interior Trim: ASTM C 1047.
- 1. Material: Galvanized or aluminum-coated steel sheet, rolled zinc, plastic, or paper-faced galvanized steel sheet Shapes:
- a. Cornerbead.
- b. Bullnose bead.
- c. LC-Bead: J-shaped; exposed long flange receives joint compound.
- d. L-Bead: L-shaped; exposed long flange receives joint compound.
- e. U-Bead: J-shaped; exposed short flange does not receive joint compound. Expansion (control) joint.
- g. Curved-Edge Cornerbead: With notched or flexible flanges.
- 2.4 JOINT TREATMENT MATERIALS
- A. General: Comply with ASTM C 475/C 475M.
- B. Joint Tape:
- 1. Interior Gypsum Wallboard: Paper. C. Joint Compound for Interior Gypsum Wallboard: For each coat use formulation that is compatible with
- other compounds applied on previous or for successive coats.
- 1. Prefilling: At open joints, rounded or beveled panel edges, and damaged surface areas, use setting-type taping compound.
- 2. Embedding and First Coat: For embedding tape and first coat on joints, fasteners, and trim flanges, use setting-type taping compound.
- a. Use setting-type compound for installing paper-faced metal trim accessories.
- 3. Fill Coat: For second coat, use drying-type, all-purpose compound. 4. Finish Coat: For third coat, use drying-type, all-purpose compound.
- 2.5 AUXILIARY MATERIALS
- A. General: Provide auxiliary materials that comply with referenced installation standards and
- manufacturer's written recommendations. B. Laminating Adhesive: Adhesive or joint compound recommended for directly adhering gypsum panels
- to continuous substrate.
- C. Steel Drill Screws: ASTM C 1002, unless otherwise indicated. D. Sound Attenuation Blankets: ASTM C 665, Type I (blankets without membrane facing) produced by
- combining thermosetting resins with mineral fibers manufactured from glass, slag wool, or rock wool.
- Acoustical Sealant: As specified in Division 7 Section "Joint Sealants." Thermal Insulation: As specified in Division 7 Section "Building Insulation."
- G. Vapor Retarder: As specified in Division 7 Section "Building Insulation."
- 1.3 SUBMITTALS
- A. Product Data: For each type of product indicated.
- 1.4 STORAGE AND HANDLING
- A. Store materials inside under cover and keep them dry and protected against damage from weather, condensation, direct sunlight, construction traffic, and other causes. Stack panels flat to prevent
- 1.5 PROJECT CONDITIONS
- A. Environmental Limitations: Comply with ASTM C 840 requirements or gypsum board manufacturer's written recommendations, whichever are more stringent.
- B. Do not install interior products until installation areas are enclosed and conditioned.
- C. Do not install panels that are wet, those that are moisture damaged, and those that are mold damaged.
- 1. Indications that panels are wet or moisture damaged include, but are not limited to, discoloration,
- sagging, or irregular shape.
- 2. Indications that panels are mold damaged include, but are not limited to, fuzzy or splotchy surface contamination and discoloration.
- PART 2 PRODUCTS

2.1 PANELS, GENERAL

- A. Size: Provide in maximum lengths and widths available that will minimize joints in each area and that correspond with support system indicated.
- 2.2 INTERIOR GYPSUM BOARD
- A. General: Complying with ASTM C 36/C 36M or ASTM C 1396/C 1396M, as applicable to type of gypsum board indicated and whichever is more stringent.
- Manufacturers: Subject to compliance with requirements, provide products by one of the following:
- a. American Gypsum Co.
- b. BPB America Inc.
- c. G-P Gypsum. d. Gold Bond
- e. Lafarge North America Inc.
- f. National Gypsum Company.
- g. PABCO Gypsum. h. Temple.
- i. USG Corporation.
- B. Regular Type:
- 1. Thickness: 5/8 inch. 2. Long Edges: Tapered.
- 2.3 TRIM ACCESSORIES
- A. Interior Trim: ASTM C 1047. 1. Material: Galvanized or aluminum-coated steel sheet, rolled zinc, plastic, or paper-faced
- galvanized steel sheet
- 2. Shapes: a. Cornerbead.
- b. Bullnose bead.
- c. LC-Bead: J-shaped; exposed long flange receives joint compound.
- d. L-Bead: L-shaped; exposed long flange receives joint compound. e. U-Bead: J-shaped; exposed short flange does not receive joint compound.
- Expansion (control) joint.
- g. Curved-Edge Cornerbead: With notched or flexible flanges. 2.4 JOINT TREATMENT MATERIALS
- A. General: Comply with ASTM C 475/C 475M.
- B. Joint Tape: 1. Interior Gypsum Wallboard: Paper.

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- C. Joint Compound for Interior Gypsum Wallboard: For each coat use formulation that is compatible with
- other compounds applied on previous or for successive coats.
- 1. Prefilling: At open joints, rounded or beveled panel edges, and damaged surface areas, use setting-type taping compound.
- 2. Embedding and First Coat: For embedding tape and first coat on joints, fasteners, and trim flanges, use setting-type taping compound.
- a. Use setting-type compound for installing paper-faced metal trim accessories. 3. Fill Coat: For second coat, use drying-type, all-purpose compound.

4. Finish Coat: For third coat, use drying-type, all-purpose compound.

SECTION 092900 GYPSUM BOARD (CONT'D)	SECTION 081213 HOLLOW METAL FRAMES	SECTION 081213 HOLLOW METAL FRAMES (CONT'D)
2.5 AUXILIARY MATERIALS A. General: Provide auxiliary materials that comply with referenced installation standards and	PART 1 - GENERAL 1.1 RELATED DOCUMENTS	PART 3 - EXECUTION
manufacturer's written recommendations. B. Laminating Adhesive: Adhesive or joint compound recommended for directly adhering gypsum panels	 A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section. 1.2 SUMMARY 	 3.1 EXAMINATION A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of standard steel frames.
to continuous substrate. C. Steel Drill Screws: ASTM C 1002, unless otherwise indicated. D. Sound Attenuation Blankets: ASTM C 665, Type I (blankets without membrane facing) produced by	A. This Section includes the following: 1. Standard hollow-metal steel frames.	 Examine roughing-in for embedded and built-in anchors to verify actual locations of standard steel frame connections before frame installation.
combining thermosetting resins with mineral fibers manufactured from glass, slag wool, or rock wool. E. Acoustical Sealant: As specified in Division 7 Section "Joint Sealants."	 B. Related Sections include the following: 1. Division 9 painting Sections for field painting standard steel frames. 	 Proceed with installation only after unsatisfactory conditions have been corrected. PREPARATION Remove welded-in shipping spreaders installed at factory.
 F. Thermal Insulation: As specified in Division 7 Section "Building Insulation." G. Vapor Retarder: As specified in Division 7 Section "Building Insulation." PART 3 - EXECUTION 	 1.3 DEFINITIONS A. Minimum Thickness: Minimum thickness of base metal without coatings. 1.4 SUBMITTALS 	 B. Prior to installation and with installation spreaders in place, adjust and securely brace standard steel door frames for squareness, alignment, twist, and plumb to the following tolerances:
 3.1 EXAMINATION A. Examine areas and substrates, with Installer present, and including welded hollow-metal frames and 	A. Product Data: Include construction details, material descriptions, core descriptions, label compliance, fire- resistance rating, and finishes for each type of steel frame specified.	 Squareness: Plus or minus 1/16 inch, measured at door rabbet on a line 90 degrees from jamb perpendicular to frame head. Alignment: Plus or minus 1/16 inch, measured at isome an a horizontal line percented to a long of well.
framing, for compliance with requirements and other conditions affecting performance. B. Examine panels before installation. Reject panels that are wet, moisture damaged, and mold	 B. Shop Drawings: In addition to requirements below, provide a schedule of standard steel frames using same reference numbers for details and openings as those on Drawings: 1. Frame details for each frame type, including dimensioned profiles. 	 Alignment: Plus or minus 1/16 inch, measured at jambs on a horizontal line parallel to plane of wall. Twist: Plus or minus 1/16 inch, measured at opposite face corners of jambs on parallel lines, and perpendicular to plane of wall.
damaged. C. Proceed with installation only after unsatisfactory conditions have been corrected. 3.2 APPLYING AND FINISHING PANELS, GENERAL	 Details and locations of reinforcement and preparations for hardware. Details of each different wall opening condition. 	 Plumbness: Plus or minus 1/16 inch, measured at jambs on a perpendicular line from head to floor. Drill and tap frames to receive nontemplated mortised and surface-mounted door hardware.
A. Comply with ASTM C 840.B. Install ceiling panels across framing to minimize the number of abutting end joints and to avoid abutting	 Details of anchorages, accessories, joints, and connections. Coordination Drawings: Drawings of each opening, including frame, drawn to scale and coordinating door hardware. Show elevations of each door frame type, showing dimensions, and locations of door hardware. 	 3.3 INSTALLATION A. General: Provide frames of sizes, thicknesses, and designs indicated. Install standard steel frames plumb, rigid, properly aligned, and securely fastened in place; comply with Drawings and manufacturer's written
end joints in central area of each ceiling. Stagger abutting end joints of adjacent panels not less than one framing member.C. Install panels with face side out. Butt panels together for a light contact at edges and ends with not	 D. Qualification Data: For Installer. E. Product Test Reports: Based on evaluation of comprehensive fire tests performed by a qualified testing 	instructions. 1. Install with no exposed fastners.
more than 1/16 inch of open space between panels. Do not force into place. D. Locate edge and end joints over supports, except in ceiling applications where intermediate supports or	agency, for each type of standard steel frame. 1.5 QUALITY ASSURANCE	B. Standard Steel Frames: Install standard steel frames for doors, of size and profile indicated. Comply with SDI 105.
gypsum board back-blocking is provided behind end joints. Do not place tapered edges against cut edges or ends. Stagger vertical joints on opposite sides of partitions. Do not make joints other than control joints at corners of framed openings.	 A. Installer Qualifications: An employer of workers trained and approved by manufacturer. B. Source Limitations: Obtain standard steel frames through one source from a single manufacturer. 1.6 DELIVERY, STORAGE, AND HANDLING 	 Set frames accurately in position; plumbed, aligned, and braced securely until permanent anchors are set. After wall construction is complete, remove temporary braces, leaving surfaces smooth and
 E. Form control and expansion joints with space between edges of adjoining gypsum panels. F. Cover both faces of support framing with gypsum panels in concealed spaces (above ceilings, etc.), 	 Deliver frames palletized, wrapped, or crated to provide protection during transit and Project-site storage. Do not use nonvented plastic. 	undamaged. a. At fire-protection-rated openings, install frames according to NFPA 80. b. Where frames are fabricated in sections due to shipping or handling limitations, field splice at
 except in chases braced internally. Unless concealed application is indicated or required for sound, fire, air, or smoke ratings, coverage may be accomplished with scraps of not less than 8 sq. ft. in area. 	 B. Deliver welded frames with two removable spreader bars across bottom of frames, tack welded to jambs. C. Store frames under cover at Project site. Place units in a vertical position with heads up, spaced by blocking, on minimum 4-inch- high wood blocking. Avoid using nonvented plastic or canvas shelters that 	approved locations by welding face joint continuously; grind, fill, dress, and make splice smooth, flush, and invisible on exposed faces.
 Fit gypsum panels around ducts, pipes, and conduits. Where partitions intersect structural members projecting below underside of floor/roof slabs and 	could create a humidity chamber. 1.7 PROJECT CONDITIONS	 c. Install frames with removable glazing stops located on secure side of opening. d. Install door silencers in frames before grouting. e. Remove temporary braces necessary for installation only after frames have been properly set and
 decks, cut gypsum panels to fit profile formed by structural members; allow 1/4- to 3/8-inch- wide joints to install sealant. G. Isolate perimeter of gypsum board applied to non-load-bearing partitions at structural abutments, 	 A. Field Measurements: Verify openings by field measurements before fabrication and indicate measurements on Shop Drawings. 1. Established Dimensions: Where field measurements cannot be made without delaying the Work, 	f. Check plumb, squareness, and twist of frames as walls are constructed. Shim as necessary to
except floors. Provide 1/4- to 1/2-inch- wide spaces at these locations, and trim edges with edge trim where edges of panels are exposed. Seal joints between edges and abutting structural surfaces with	establish opening dimensions and proceed with fabricating standard steel frames without field measurements. Coordinate wall construction to ensure that actual opening dimensions correspond to	comply with installation tolerances. 2. Floor Anchors: Provide floor anchors for each jamb and mullion that extends to floor and secure with
acoustical sealant. H. Attachment to Steel Framing: Attach panels so leading edge or end of each panel is attached to open (unsupported) edges of stud flanges first.	established dimensions. PART 2 - PRODUCTS 2.1 MANUFACTURERS	 postinstalled expansion anchors. Metal-Stud Partitions: Solidly pack mineral-fiber insulation behind frames. Installation Tolerances: Adjust standard steel door frames for squareness, alignment, twist, and plumb
APPLYING INTERIOR GYPSUM BOARD A. Install interior gypsum board in the following locations:	 A. Manufacturers: Subject to compliance with requirements, provide products by one of the following: 1. Amweld Building Products, LLC. 	to the following tolerances: a. Squareness: Plus or minus 1/16 inch, measured at door rabbet on a line 90 degrees from jamb
 Regular Type: As indicated on Drawings. Ceiling Type: As indicated on Drawings. 	 Ceco Door Products; an ASSA ABLOY Group Company. CURRIES Company; an ASSA ABLOY Group Company. Fleming Door Products Ltd.; an ASSA ABLOY Group Company. 	perpendicular to frame head. b. Alignment: Plus or minus 1/16 inch, measured at jambs on a horizontal line parallel to plane of wall.
 B. Single-Layer Application: 1. On ceilings, apply gypsum panels before wall/partition board application to greatest extent possible and at right angles to framing, unless otherwise indicated. 	 Kewanee Corporation (The). Pioneer Industries, Inc. 	c. Twist: Plus or minus 1/16 inch, measured at opposite face corners of jambs on parallel lines, and perpendicular to plane of wall.
 On partitions/walls, apply gypsum panels horizontally (perpendicular to framing), unless otherwise indicated or required by fire-resistance-rated assembly, and minimize end joints. 	 Republic Builders Products Company. 8. Steelcraft; an Ingersoll-Rand Company. 2.2 MATERIALS 	 d. Plumbness: Plus or minus 1/16 inch, measured at jambs at floor. 3.4 ADJUSTING AND CLEANING A. Final Adjustments: Check and readjust operating hardware items immediately before final inspection.
 a. Stagger abutting end joints not less than one framing member in alternate courses of panels. 3. Fastening Methods: Apply gypsum panels to supports with steel drill screws. 	 A. Cold-Rolled Steel Sheet: ASTM A 1008/A 1008M, Commercial Steel (CS), Type B; suitable for exposed applications. 	Leave work in complete and proper operating condition. Remove and replace defective work, including standard steel frames that are warped, bowed, or otherwise unacceptable.
3.4 INSTALLING TRIM ACCESSORIES A. General: For trim with back flanges intended for fasteners, attach to framing with same fasteners	 B. Hot-Rolled Steel Sheet: ASTM A 1011/A 1011M, Commercial Steel (CS), Type B; free of scale, pitting, or surface defects; pickled and oiled. C. Matellia Coasted Sheet: ACTM A CE2/A CE2MA Commercial Steel (CS). Type B: with minimum A 40. 	 B. Clean grout and other bonding material off standard steel frames immediately after installation. C. Prime-Coat Touchup: Immediately after erection, sand smooth rusted or damaged areas of prime coat and apply touchup of compatible air-drying primer.
used for panels. Otherwise, attach trim according to manufacturer's written instructions. B. Interior Trim: Install in the following locations: 1. Cornerbead: Use at outside corners.	 Metallic-Coated Steel Sheet: ASTM A 653/A 653M, Commercial Steel (CS), Type B; with minimum A40 zinc-iron-alloy (galvannealed) coating designation. Electrolytic Zinc-Coated Steel Sheet: ASTM A 591/A 591M, Commercial Steel (CS), Class B coating; mill 	
 LC-Bead: Use at exposed panel edges. Curved-Edge Cornerbead: Use at curved openings. 	phosphatized. E. Supports and Anchors: After fabricating, galvanize units to be built into exterior walls according to ASTM A	SECTION 081416 FLUSH WOOD DOORS
 FINISHING GYPSUM BOARD A. General: Treat gypsum board joints, interior angles, edge trim, control joints, penetrations, fastener heads, surface defects, and elsewhere as required to prepare gypsum board surfaces for decoration. 	 153/A 153M, Class B. F. Inserts, Bolts, and Fasteners: Provide items to be built into exterior walls, hot-dip galvanized according to ASTM A 153/A 153M. 	PART 1 - GENERAL 1.1 SUMMARY
Promptly remove residual joint compound from adjacent surfaces. B. Prefill open joints, rounded or beveled edges, and damaged surface areas.	G. Bituminous Coating: Cold-applied asphalt mastic, SSPC-Paint 12, compounded for 15-mil dry film thickness per coat. Provide inert-type noncorrosive compound free of asbestos fibers, sulfur components,	 A. Section Includes: 1. Solid-core doors with wood-veneer faces. 2. Factory finishing flush wood doors.
 C. Apply joint tape over gypsum board joints, except those with trim having flanges not intended for tape. D. Gypsum Board Finish Levels: Finish panels to levels indicated below: 1. Level 4: At panel surfaces that will be exposed to view, unless otherwise indicated. 	and other deleterious impurities. 2.3 STANDARD STEEL FRAMES A. General: Comply with ANSI A250.8 and with details indicated for type and profile.	 SUBMITTALS A. Product Data: For each type of door indicated. Include factory-finishing specifications.
 a. Primer and its application to surfaces are specified in other Division 9 Sections. 3.6 PROTECTION 	B. Interior Frames: Fabricated from cold-rolled steel sheet, unless otherwise indicated to comply with exterior frame requirements.	 B. Shop Drawings: Indicate location, size, and hand of each door; elevation of each kind of door; construction details not covered in Product Data; location and extent of hardware blocking; and other pertinent data. Indicate dimensions and locations of mortises and holes for hardware.
 A. Protect installed products from damage from weather, condensation, direct sunlight, construction, and other causes during remainder of the construction period. B. Remove and replace panels that are wet, moisture damaged, and mold damaged. 	 Fabricate frames with mitered or coped and welded face corners and seamless face joints. Frames for Wood Doors: 0.053-inch- thick (16 gauge) steel sheet. Hardware Reinforcement: Fabricate reinforcement plates from same material as frames to comply with the 	 Indicate dimensions and locations of cutouts. Indicate doors to be factory finished and finish requirements.
 Indications that panels are wet or moisture damaged include, but are not limited to, discoloration, sagging, or irregular shape. 	following minimum sizes: 1. Hinges: Minimum 0.123 inch thick by 1-1/2 inches wide by 6 inches longer than hinge, secured by not	 Indicate fire-protection ratings for fire-rated doors. Samples: For factory-finished doors. QUALITY ASSURANCE
 Indications that panels are mold damaged include, but are not limited to, fuzzy or splotchy surface contamination and discoloration. 	less than 6 spot welds.Pivots: Minimum 0.167 inch thick by 1-1/2 inches wide by 6 inches longer than hinge, secured by not less than 6 spot welds.	A. Quality Standard: In addition to requirements specified, comply with AWI's "Architectural Woodwork Quality Standards Illustrated."
	 Lock Face, Flush Bolts, Closers, and Concealed Holders: Minimum 0.067 inch thick. All Other Surface-Mounted Hardware: Minimum 0.067 inch thick. 	PART 2 - PRODUCTS 2.1 MANUFACTURERS A. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that
	 D. Supports and Anchors: Fabricated from electrolytic zinc-coated or metallic-coated steel sheet. E. Jamb Anchors: Stud-Wall Type: Designed to engage stud, welded to back of frames; not less than 0.042 inch thick. 	may be incorporated into the Work include, but are not limited to, the following: 1. Masonite, Inc
	 Floor Anchors: Formed from same material as frames, not less than 0.042 inch thick, and as follows: Monolithic Concrete Slabs: Clip-type anchors, with two holes to receive fasteners. 	2. Marshfield Door Systems, Inc. 2.2 DOOR CONSTRUCTION, GENERAL A. Doors for Transparent Finish:
	 G. Fabricate concealed stiffeners and hardware reinforcement from either cold- or hot-rolled steel sheet. H. Plaster Guards: Formed from same material as frames, not less than 0.016-inch thick. 2.4 FABRICATION 	 Grade: Premium, with Grade A faces. Species: Maple or Oak to Match Building Standard.
	A. General: Fabricate standard steel frames to be rigid and free of defects, warp, or buckle. Accurately form metal to required sizes and profiles, with minimum radius for thickness of metal. Where practical, fit and	 Cut: Plain sliced (flat sliced). Match between Veneer Leaves: Book match. Assembly of Veneer Leaves on Door Faces: Running match.
	assemble units in manufacturer's plant. To ensure proper assembly at Project site, clearly identify work that cannot be permanently factory assembled before shipment.	 Assembly of veneer Leaves on Door Faces. Running match. Room Match: Match door faces within each separate room or area of building. Corridor door faces do not need to match where they are separated by 20 feet or more.
	 B. Standard Steel Frames: Where frames are fabricated in sections due to shipping or handling limitations, provide alignment plates or angles at each joint, fabricated of same thickness metal as frames. 1. Welded Frames: Weld flush face joints continuously; grind, fill, dress, and make smooth, flush, and 	 Construction: Five ply. Stiles and rails are bonded to core, then entire unit abrasive planed before veneering. Advantage: Type Lagr WDMA_TM 6
	invisible.Provide countersunk, flat- or oval-head exposed screws and bolts for exposed fasteners, unless	 Adhesives: Type I per WDMA TM-6. 9. Core: Particleboard. 2.3 FABRICATION
	otherwise indicated. 3. Floor Anchors: Weld anchors to bottom of jambs and mullions with at least four spot welds per anchor.	 A. Factory machine doors for hardware that is not surface applied. 2.4 FACTORY FINISHING A. General: Comply with referenced quality standard for factory finishing. Complete fabrication, including
	 Jamb Anchors: Provide number and spacing of anchors as follows: a. Stud-Wall Type: Locate anchors not more than 18 inches from top and bottom of frame. Space 	 General. Complete labreation, including fitting doors for openings and machining for hardware that is not surface applied, before finishing. Finish faces, all four edges, edges of cutouts, and mortises. Stains and fillers may be omitted on
	 anchors not more than 32 inches o.c. and as follows: 1) Three anchors per jamb up to 60 inches in height. 2) Four anchors per jamb from 60 to 90 inches in height. 	bottom edges, and mortises. B. Finish doors at factory that are indicated to receive transparent finish. C. Transparent Finish:
	 3) Five anchors per jamb from 90 to 96 inches in height. 4) Five anchors per jamb plus 1 additional anchor per jamb for each 24 inches or fraction 	 Transparent Finish. 1. Grade: Premium. 2. Finish: AWI conversion varnish system.
	 thereof more than 96 inches in height. 5) Two anchors per head for frames more than 42 inches wide and mounted in metal-stud partitions. 	 Staining: Match Architect's sample or As selected by Architect from manufacturer's full range. Sheen: Semigloss.
	 Door Silencers: Except on weather-stripped doors, drill stops to receive door silencers as follows. Provide plastic plugs to keep holes clear during construction. 	PART 3 - EXECUTION 3.1 INSTALLATION A. Hardware: For installation, refer to manufacturer's written instructions.
	 a. Single-Door Frames: Drill stop in strike jamb to receive three door silencers. C. Hardware Preparation: Factory prepare standard steel frames to receive templated mortised hardware; include cutouts, reinforcement, mortising, drilling, and tapping, according to the Door Hardware Schedule 	B. Installation Instructions: Install doors to comply with manufacturer's written instructions and the referenced quality standard, and as indicated.
	and templates furnished as specified in Division 8 Section "Door Hardware."Reinforce frames to receive nontemplated mortised and surface-mounted door hardware.	C. Job-Fitted Doors: Align and fit doors in frames with uniform clearances and bevels; do not trim stiles and rails in excess of limits set by manufacturer or permitted for fire-rated doors. Machine doors for hardware. Seal edges of doors, edges of cutouts, and mortises after fitting and machining.
	 Comply with applicable requirements in ANSI A250.6 and ANSI/DHI A115 Series specifications for frame preparation for hardware. Locate hardware as indicated on Shop Drawings or, if not indicated, according to ANSI A250.8. 	 Clearances: Provide 1/8 inch (3.2 mm) at heads, jambs, and between pairs of doors. Provide 1/8 inch (3.2 mm) from bottom of door to top of decorative floor finish or covering unless otherwise
	 STEEL FINISHES A. General: Comply with NAAMM's "Metal Finishes Manual for Architectural and Metal Products" for 	indicated. Where threshold is shown or scheduled, provide 1/4 inch (6.4 mm) from bottom of door to top of threshold unless otherwise indicated. D. Factory-Finished Doors: Restore finish before installation if fitting or machining is required at Project site.
	 recommendations for applying and designating finishes. 1. Finish standard steel frames after assembly. B. Metallic-Coated Steel Surface Preparation: Clean surfaces with nonpetroleum solvent so surfaces are free 	
	of oil and other contaminants. After cleaning, apply a conversion coating suited to the organic coating to be applied over it. Clean welds, mechanical connections, and abraded areas, and apply galvanizing repair	
	 paint specified below to comply with ASTM A 780. Galvanizing Repair Paint: High-zinc-dust-content paint for regalvanizing welds in steel, complying with SSPC-Paint 20. 	
	C. Steel Surface Preparation: Clean surfaces to comply with SSPC-SP 1, "Solvent Cleaning"; remove dirt, oil, grease, or other contaminants that could impair paint bond. Remove mill scale and rust, if present, from	
	uncoated steel; comply with SSPC-SP 3, "Power Tool Cleaning," or SSPC-SP 6/NACE No. 3, "Commercial Blast Cleaning."	
	D. Factory Priming for Field-Painted Finish: Apply shop primer specified below immediately after surface preparation and pretreatment. Apply a smooth coat of even consistency to provide a uniform dry film thickness of not less than 0.7 mils.	
	1. Shop Primer: Manufacturer's standard, fast-curing, lead- and chromate-free primer complying with ANSI A250.10 acceptance criteria; recommended by primer manufacturer for substrate; compatible	

with substrate and field-applied finish paint system indicated; and providing a sound foundation for

field-applied topcoats despite prolonged exposure.

		092216	NON-STRUCTURAL METAL FRAMING	AMENTA EMMA
	REL		general provisions of the Contract, including General and Supplementary Conditions and	ARCHITECTS
1.2		IMARY	cification Sections, apply to this Section.	
		 Interior fr Interior s 	aming systems (e.g., supports for partition walls, framed soffits, furring, etc.). uspension systems (e.g., supports for ceilings, suspended soffits, etc.).	
	В.	1. Division	ons include the following: 7 Section "Building Insulation" for insulation associated with framing. 9 Section "Gypsum Board" for cladding of metal framing.	-
1.3		MITTALS	For each type of product indicated.	
	NON		ING STEEL FRAMING, GENERAL	
	А.		bers, General: Comply with ASTM C 754 for conditions indicated. eet Components: Comply with ASTM C 645 requirements for metal, unless otherwise	· ·
		2. Protectiv indicated	e Coating: manufacturer's standard corrosion-resistant zinc coating, unless otherwise	
2.2	Α.	Tie Wire: AST	STEM COMPONENTS IM A 641/A 641M, Class 1 zinc coating, soft temper, 0.1055-inch- diameter wire.	
		1. Anchors:	ments to Concrete: Fabricated from corrosion-resistant materials with holes or loops for attaching wire and capable of sustaining, without failure, a load equal to 5 times that imposed by	•
		construct agency.	tion as determined by testing according to ASTM E 488 by an independent testing	
		2. Powder-/	e: Postinstalled, chemical anchor or expansion anchor. Actuated Fasteners: Suitable for application indicated, fabricated from corrosion-resistant with clips or other devices for attaching hangers of type indicated, and capable of	Suffield
		sustainin	g, without failure, a load equal to 10 times that imposed by construction as determined by coording to ASTM E 1190 by an independent testing agency.	Public
		Carrying Char	ASTM A 641/A 641M, Class 1 zinc coating, soft temper, 0.162-inch diameter. Cold-rolled, commercial-steel sheet with a base-metal thickness of 0.0538 inch	Schools
	E.	1. Depth: A	1/2-inch- wide flanges. As indicated on Drawings. on System for Ceilings: ASTM C 645, direct-hung system composed of main beams	
	∟.	and cross-furr 1. Products	ing members that interlock. : Subject to compliance with requirements, provide one of the following:	Ward Spaulding School Preschool Classroom
		b. Chi	nstrong World Industries, Inc.; Drywall Grid Systems. cago Metallic Corporation; 660-C Drywall Furring System.	Renovations
2.3		EL FRAMING	G Corporation; Drywall Suspension System. FOR FRAMED ASSEMBLIES nd Runners: ASTM C 645.	
		1. Minimum	Base-Metal Thickness: As indicated on Drawings. d Joints: Where indicated, provide the following:	
		interior p	n Track: Steel sheet top runner manufactured to prevent cracking of finishes applied to artition framing resulting from deflection of structure above; in thickness not less than	945 MOUNTAIN RD
		a. Pro	for studs and in width to accommodate depth of studs. ducts: Subject to compliance with requirements, provide one of the following: Steel Network Inc. (The); VertiTrack VTD Series.	WEST SUFFIELD, CT 06093
	C.	2)	Superior Metal Trim; Superior Flex Track System (SFT). Backing Plate: Steel sheet for blocking and bracing in length and width indicated.	
		1. Minimum Cold-Rolled C	Base-Metal Thickness: 0.027 inch. hannel Bridging: 0.0538-inch bare-steel thickness, with minimum 1/2-inch- wide flanges.	CONSULTANTS
24			-1/2 inches. e: Not less than 1-1/2 by 1-1/2 inches, 0.068-inch- thick, galvanized steel.	
2.4		General: Prov	vide auxiliary materials that comply with referenced installation standards. s for Metal Framing: Of type, material, size, corrosion resistance, holding power, and	
		other pro Isolation Strip	perties required to fasten steel members to substrates. at Exterior Walls: Provide the following:	
D۸E			asket: Adhesive-backed, closed-cell vinyl foam strips that allow fastener penetration bam displacement, 1/8 inch thick, in width to suit steel stud size.	
	EXA	MINATION	s and substrates, with Installer present, and including welded hollow-metal frames, cast-in	
		anchors, and s performance.	structural framing, for compliance with requirements and other conditions affecting	
3.2		PARATION	with installation only after unsatisfactory conditions have been corrected.	
		structure to er	sure that inserts and other provisions for anchorages to building structure have been evice hangers at spacing required to support the Work and that hangers will develop their	KEY PLAN
		full strength. 1. Furnish c	concrete inserts and other devices indicated to other trades for installation in advance of	
3.3		FALLATION, G	ded for coordination and construction. ENERAL andard: ASTM C 754.	
			Board Assemblies: Also comply with requirements in ASTM C 840 that apply to framing	
		bars, toilet acc	nentary framing, and blocking to support fixtures, equipment services, heavy trim, grab cessories, furnishings, or similar construction.	
		Do not bridge	at terminations in assemblies. building control and expansion joints with non-load-bearing steel framing members. des of joints independently.	
3.4		TALLING SUSF	PENSION SYSTEMS sion system components in sizes and spacings indicated on Drawings, but not less than	
		those required components in	by referenced installation standards for assembly types and other assembly ndicated.	
		structure to pr	nsion systems from building structure where they abut or are penetrated by building event transfer of loading imposed by structural movement. gers from building structure as follows:	PROJECT DATA
	0.	1. Install ha that are r	ngers plumb and free from contact with insulation or other objects within ceiling plenum not part of supporting structural or suspension system.	PROJECT NUMBER20016CURRENT SUBMISSION DATE6.01.20
		by t	ay hangers only where required to miss obstructions and offset resulting horizontal forces oracing, countersplaying, or other equally effective means.	DRAWN AEO CHECKED CAB
		interfere	idth of ducts and other construction within ceiling plenum produces hanger spacings that with locations of hangers required to support standard suspension system members, pplemental suspension members and hangers in the form of trapezes or equivalent	SCALE 1 : 1 FILE REFERENCE C:\Users\AEO\Documents\20016-Suffield
		devices. a. Size	e supplemental suspension members and hangers to support ceiling loads within	Spaulding School-CENTRAL-2020_AEO.rvt
		3. Wire Har	formance limits established by referenced installation standards. Ingers: Secure by looping and wire tying, either directly to structures or to inserts, eye	HISTORY OF SUBMISSIONS No. Date Description
		manner t	or other devices and fasteners that are secure and appropriate for substrate, and in a hat will not cause hangers to deteriorate or otherwise fail. ttach hangers to steel roof deck.	
		5. Do not at through f	ttach hangers to permanent metal forms. Furnish cast-in-place hanger inserts that extend orms.	
		7. Do not co	ttach hangers to rolled-in hanger tabs of composite steel floor deck.	
	E.	Seismic Braci	e-Rated Assemblies: Wire tie furring channels to supports. ng: Sway-brace suspension systems with hangers used for support. on Systems: Attach perimeter wall track or angle where grid suspension systems meet	
		vertical surfactor to fit into wall	es. Mechanically join main beam and cross-furring members to each other and butt-cut track.	
			lerances: Install suspension systems that are level to within 1/8 inch in 12 feet measured each member that will receive finishes and transversely between parallel members that	
3.5	INST	TALLING FRAM	isnes. /IED ASSEMBLIES are installed directly against exterior masonry walls or dissimilar metals at exterior walls,	FOR CONSTRUCTION
	В.	install isolation Install studs so	n strip between studs and exterior wall. o flanges within framing system point in same direction.	
	C.	or substrates	runners) at floors and overhead supports. Extend framing full height to structural supports above suspended ceilings, except where partitions are indicated to terminate at ilings. Continue framing around ducts penetrating partitions above ceiling.	
		1. Slip-Type	ilings. Continue framing around ducts penetrating partitions above ceiling. Head Joints: Where framing extends to overhead structural supports, install to produce tops of framing systems that prevent axial loading of finished assemblies.	SHEET TITLE
		2. Door Op track sec	enings: Screw vertical studs at jambs to jamb anchor clips on door frames; install runner tion (for cripple studs) at head and secure to jamb studs.	
		b. Inst	all two studs at each jamb, unless otherwise indicated. all cripple studs at head adjacent to each jamb stud, with a minimum 1/2-inch clearance a jamb stud to allow for installation of control joint in finished accombly.	
		c. Exte	n jamb stud to allow for installation of control joint in finished assembly. end jamb studs through suspended ceilings and attach to underside of overhead cture.	
		3. Other Fra door ope	amed Openings: Frame openings other than door openings the same as required for nings, unless otherwise indicated. Install framing below sills of openings to match	SPECIFICATIONS
		4. Fire-Res	equired above door heads. istance-Rated Partitions: Install framing to comply with fire-resistance-rated assembly and support closures and to make partitions continuous from floor to underside of solid	

structure.

from the plane formed by faces of adjacent framing.

5. Sound-Rated Partitions: Install framing to comply with sound-rated assembly indicated.

D. Installation Tolerance: Install each framing member so fastening surfaces vary not more than 1/8 inch

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PART 1 - GE 1.1 SUMMA		SECTION 093013 CERAMIC TILING (CONT'D) I. Metal Edge Strips: Install at locations indicated. J. Grout Sealer: Apply grout sealer to cementitious grout joints in tile floors and walls according to
	ction Includes: Ceramic tile.	5. Grout Sealer. Apply grout sealer to certaintidus grout joints in the noors and waits according to sealer manufacturer's written instructions. As soon as grout sealer has penetrated grout joints, excess sealer and sealer from tile faces by wiping with soft cloth.
1. 2. 3.	Stone thresholds. Waterproof membrane.	 K. Install cementitious backer units and treat joints according to ANSI A108.11 and manufacturer's instructions for type of application indicated. Use latex-portland cement mortar for bonding mate
4.	Crack isolation membrane. Tile backing panels.	unless otherwise directed in manufacturer's written instructions. L. Install waterproofing to comply with ANSI A108.13 and manufacturer's written instructions to pr
1.2 SUBMIT		waterproof membrane of uniform thickness and bonded securely to substrate. M. Install crack isolation membrane to comply with ANSI A108.17 and manufacturer's written instru
	Each type and composition of tile and for each color and finish required.	produce membrane of uniform thickness and bonded securely to substrate. 3.4 INTERIOR TILE INSTALLATION SCHEDULE
2.	Assembled samples, with grouted joints, for each type and composition of tile and for each color and finish required.	 A. Interior Floor Installations, Concrete Subfloor: 1. Tile Installation F122: Thin-set mortar on waterproof crack-suppression membrane; TCA
	Stone thresholds in 6-inch (150-mm) lengths. MATERIALS	a. Tile Type: PT-1. b. Thin-Set Mortar: Latex-portland cement mortar.
A. Fu	rnish extra materials that match and are from same production runs as products installed and that are ckaged with protective covering and identified with labels describing contents.	 c. Grout: Polymer-modified unsanded grout. d. Waterproofing / Crack-isolation membrane.
	Tile and Trim Units: Furnish quantity of full-size units equal to 3 percent of amount installed for each type, composition, color, pattern, and size indicated.	 B. Interior Wall Installations, Metal Studs or Furring: 1. Tile Installation W244: Thin-set mortar on cementitious backer units or fiber cement unde
RT 2 - PR TILE PF	ODUCTS	TCA W244. a. Tile Type: WT-1.
	SI Ceramic Tile Standard: Provide Standard grade tile that complies with ANSI A137.1 for types, nositions, and other characteristics indicated.	 b. Thin-Set Mortar: Latex- portland cement mortar. c. Grout: Polymer-modified sanded grout.
B. Tile 1.		
2. 3.	Grout Color: As selected by Architect from manufacturer's full range.	SECTION 096513 RESILIENT BASE AND ACCESSORIES
4.	Trim Units: Coordinated with sizes and coursing of adjoining flat tile where applicable and matching characteristics of adjoining flat tile. Provide shapes as follows, selected from	PART 1 - GENERAL 1.1 SUMMARY
	manufacturer's standard shapes: a. Base: Coved with surface bullnose top edge, 6 x 12 face size.	A. Section Includes: 1. Resilient base.
C. Tile 1.	e Type WT-1: Through-body Porcealin Wall Tile (for use in Toilet Rooms wet wall). Basis-of-Design Product: Time/2.0 Porcelain Tile by Floridatile.	 1.2 SUBMITTALS A. Product Data: For each type of product indicated. B. Somelan, For each type of product indicated.
	a. Wearing Surface: Nonabrasive, smooth.b. Facial Dimensions: 12 x 24 inches.	 B. Samples: For each type of product indicated, in manufacturer's standard-size Samples but not 12 inches (300 mm) long, of each resilient product color, texture, and pattern required. 1.3 PROJECT CONDITIONS
TUDEO	 c. Color: To be selected by Architect. d. Trin Units: Provide bullnose to coordinate with basis-of-design product. 	A. Maintain ambient temperatures within range recommended by manufacturer in spaces to receive
	neral: Fabricate to sizes and profiles indicated or required to provide transition between adjacent	products. B. Until Substantial Completion, maintain ambient temperatures within range recommended by manufacturer.
floo 1.	or finishes. Bevel edges as indicated on Drawings. Limit height of threshold to 1/2 inch (12.7 mm) or less above adjacent floor surface	manufacturer. C. Install resilient products after other finishing operations, including painting, have been complete PART 2 - PRODUCTS
	above adjacent floor surface. rble Thresholds: ASTM C 503, with a minimum abrasion resistance of 12 per ASTM C 1353 or TM C 241 and with board finich	2.1 RESILIENT BASE B-1
1.	TM C 241 and with honed finish. Description: As selected by Architect from manufacturer's full range.	 A. Resilient Base: 1. Manufacturers: a Estrie Products International: American Biltrite (Canada) Ltd
	CKING PANELS mentitious Backer Units: ANSI A118.9 or ASTM C 1325. Braduate: Subject to compliance with requirements, excilable products that may be incorporated	 a. Estrie Products International; American Biltrite (Canada) Ltd. B. Resilient Base Standard: ASTM F 1861. 1. Material Requirement: Type TS (rubber, yulcanized thermoset)
1.	Products: Subject to compliance with requirements, available products that may be incorporated into the Work include, but are not limited to, the following:	 Material Requirement: Type TS (rubber, vulcanized thermoset). Manufacturing Method: Group I (solid, homogeneous). Stude: Cove (base with too).
-	 a. FinPan, Inc.; Util-A-Crete Concrete Backer Board. b. USG Corporation; DUROCK Cement Board. Thickness, 1/2 isob (12.7 mm) 	 Style: Cove (base with toe). Minimum Thickness: 0.125 inch (3.2 mm). Height: 4 inches (102 mm).
WATER	Thickness: 1/2 inch (12.7 mm). PROOF AND CRACK SUPPRESION MEMBRANE	 D. Height: 4 inches (102 mm). E. Lengths: Coils in manufacturer's standard length. E. Outside Corners: Job formed
ma	neral: Manufacturer's standard product that complies with ANSI A118.10 and is recommended by the nufacturer for the application indicated.	 F. Outside Corners: Job formed. G. Inside Corners: Preformed. H. Einich: As selected by Architect from manufacturer's full range.
	bric-Reinforced, Fluid-Applied Membrane: System consisting of liquid-latex rubber or elastomeric ymer and continuous fabric reinforcement.	 H. Finish: As selected by Architect from manufacturer's full range. I. Colors and Patterns: As selected by Architect from full range of industry colors. 2.3 INSTALLATION MATERIALS
1.	Products: Subject to compliance with requirements, provide one of the following: a. Custom Building Products; Trowel & Seal Waterproofing and Anti-Fracture Membrane	A. Trowelable Leveling and Patching Compounds: Latex-modified, portland cement based or blen
	 b. Laticrete International, Inc.; Laticrete 9235 Waterproof Membrane. c. MAPEI Corporation; PRP M19. 	 hydraulic-cement-based formulation provided or approved by manufacturer for applications indi B. Adhesives: Water-resistant type recommended by manufacturer to suit resilient products and s
	d. Summitville Tiles, Inc.; S-9000. G AND GROUTING MATERIALS	conditions indicated. PART 3 - EXECUTION
	nufacturers: Atlas Minerals & Chemicals, Inc. Beierdi Braduate Correctation	 3.1 PREPARATION A. Prepare substrates according to manufacturer's written instructions to ensure adhesion of resili
2. 3.	Boiardi Products Corporation. Bonsal, W. R., Company.	products. B. Fill cracks, holes, and depressions in substrates with trowelable leveling and patching compour
4. 5.	Bostik. C-Cure.	remove bumps and ridges to produce a uniform and smooth substrate. D. Do not install resilient products until they are same temperature as the space where they are to
6. 7.	Custom Building Products. DAP, Inc.	installed. 1. Move resilient products and installation materials into spaces where they will be installed a
8. 9.	Jamo Inc. LATICRETE International Inc.	hours in advance of installation. E. Sweep and vacuum clean substrates to be covered by resilient products immediately before installation.
11.	MAPEI Corporation. Southern Grouts & Mortars, Inc.	 3.2 RESILIENT BASE INSTALLATION A. Comply with manufacturer's written instructions for installing resilient base.
13.	Summitville Tiles, Inc. TEC Specialty Products Inc.	 B. Apply resilient base to walls, columns, pilasters, casework and cabinets in toe spaces, and othe permanent fixtures in rooms and areas where base is required.
1.	ex-Portland Cement Mortar (Thin Set): ANSI A118.4. For wall applications, provide nonsagging mortar.	 Install resilient base in lengths as long as practicable without gaps at seams and with tops of ac pieces aligned.
1.	lymer-Modified Tile Grout: ANSI A118.7. Polymer Type: Liquid-latex form for addition to prepackaged dry-grout mix.	 D. Tightly adhere resilient base to substrate throughout length of each piece, with base in continuo with horizontal and vertical substrates.
A. Ge	DMERIC SEALANTS neral: Provide sealants, primers, backer rods, and other sealant accessories that comply with the	E. Do not stretch resilient base during installation.3.3 CLEANING AND PROTECTION
B. On	owing requirements and with the applicable requirements in Division 07 Section "Joint Sealants." e-Part, Mildew-Resistant Silicone Sealant: ASTM C 920; Type S; Grade NS; Class 25; Uses NT, G, and, as applicable to nonporous joint substrates indicated, O; formulated with fungicide, intended for	 A. Comply with manufacturer's written instructions for cleaning and protection of resilient products B. Floor Polish: Remove soil, visible adhesive, and surface blemishes from resilient stair treads b
sea	aling interior ceramic tile joints and other nonporous substrates that are subject to in-service	applying liquid floor polish. 1. Apply two coat(s).
ex 1.	 posures of high humidity and extreme temperatures. Products: Subject to compliance with requirements, provide one of the following: a. Dow Corning Corporation; Dow Corning 786. 	C. Cover resilient products until Substantial Completion.
	 b. GE Silicones, a division of GE Specialty Materials; Sanitary 1700. c. Pecora Corporation; Pecora 898 Sanitary Silicone Sealant. 	
MISCEL	d. Tremco Incorporated; Tremsil 600 White. LANEOUS MATERIALS	SECTION 096519 RESILIENT TILE FLOORING
A. Tro	welable Underlayments and Patching Compounds: Latex-modified, portland cement-based mulation provided or approved by manufacturer of tile-setting materials for installations indicated.	PART 1 - GENERAL 1.1 SUMMARY
B. Me	tal Edge Strips: Angle or L-shape, half-hard brass exposed-edge material.	A. Section Includes:1. Vinyl composition floor tile.
cha	but Sealer: Manufacturer's standard silicone product for sealing grout joints and that does not ange color or appearance of grout.	1.2 SUBMITTALS A. Product Data: For each type of product indicated.
EXAMIN		 B. Samples: Full-size units of each color and pattern of floor tile required. C. Maintenance data.
CO	amine substrates, areas, and conditions where tile will be installed, with Installer present, for npliance with requirements for installation tolerances and other conditions affecting performance of talled tile.	 PROJECT CONDITIONS Maintain ambient temperatures within range recommended by manufacturer in spaces to receive
-	talled tile. Verify that substrates for setting tile are firm, dry, clean, free of coatings that are incompatible with tile setting materials including curing compounds and other substances that contain soan, way, oil	floor tile. B. Until Substantial Completion, maintain ambient temperatures within range recommended by
	tile-setting materials including curing compounds and other substances that contain soap, wax, oil, or silicone; and comply with flatness tolerances required by ANSI A108.01 for installations indicated	manufacturer. C. Close spaces to traffic during floor tile installation.
		 D. Close spaces to traffic for 48 hours after floor tile installation. E. Install floor tile after other finishing operations, including painting, have been completed.
rec	cracks, holes, and depressions with trowelable leveling and patching compound specifically commended by tile-setting material manufacturer.	PART 2 - PRODUCTS 2.1 VINYL COMPOSITION FLOOR TILE VCT-1
ins	anding: For tile exhibiting color variations, use factory blended tile or blend tiles at Project site before talling.	 A. Products: Subject to compliance with requirements, provide the following: 1. Color Essense VET by Tarkett.
fro	Id-Applied Temporary Protective Coating: If indicated under tile type or needed to prevent grout m staining or adhering to exposed tile surfaces, precoat them with continuous film of temporary	B. Tile Standard: ASTM F 1066, Class 1, solid-color tile.C. Thickness: 0.125 inch (3.2 mm).
INSTAL		 D. Size: 12 by 12 inches (305 by 305 mm). E. Colors and Patterns: As selected by Architect from full range of industry colors.
ins	mply with TCA's "Handbook for Ceramic Tile Installation" for TCA installation methods specified in tile tallation schedules. Comply with parts of the ANSI A108 Series "Specifications for Installation of	2.2 INSTALLATION MATERIALS A. Trowelable Leveling and Patching Compounds: Latex-modified, portland cement based or bler
ар	ramic Tile" that are referenced in TCA installation methods, specified in tile installation schedules, and oly to types of setting and grouting materials used.	hydraulic-cement-based formulation provided or approved by manufacturer for applications indi B. Adhesives: Water-resistant type recommended by manufacturer to suit floor tile and substrate
wit	tend tile work into recesses and under or behind equipment and fixtures to form complete covering hout interruptions unless otherwise indicated. Terminate work neatly at obstructions, edges, and	conditions indicated. C. Floor Polish: Provide protective liquid floor polish products as recommended by manufacturer.
C. Ac	ners without disrupting pattern or joint alignments. curately form intersections and returns. Perform cutting and drilling of tile without marring visible	PART 3 - EXECUTION 3.1 PREPARATION
Fit	faces. Carefully grind cut edges of tile abutting trim, finish, or built-in items for straight aligned joints. tile closely to electrical outlets, piping, fixtures, and other penetrations so plates, collars, or covers	 A. Prepare substrates according to manufacturer's written instructions to ensure adhesion of resili products.
D. Joi	erlap tile. nting Pattern: Lay tile in grid pattern unless otherwise indicated. Lay out tile work and center tile	 B. Concrete Substrates: Prepare according to ASTM F 710. 1. Verify that substrates are dry and free of curing compounds, sealers, and hardeners.
pie	ds in both directions in each space or on each wall area. Lay out tile work to minimize the use of ces that are less than half of a tile. Provide uniform joint widths unless otherwise indicated.	 Remove substrate coatings and other substances that are incompatible with adhesives ar contain soap, wax, oil, or silicone, using mechanical methods recommended by manufacting
E. Joi	nt Widths: Unless otherwise indicated, install tile with the following joint widths: Ceramic Mosaic Tile: 1/16 inch (1.6 mm).	Do not use solvents. 3. Alkalinity and Adhesion Testing: Perform tests recommended by manufacturer. Proceed
2. 3.	Quarry Tile: 3/8 inch (9.5 mm). Glazed Wall Tile: 1/16 inch (1.6 mm).	 Arkaling and Addesion resting. Perform tests recommended by mandracturer. Proceed installation only after substrates pass testing. C. Fill cracks, holes, and depressions in substrates with trowelable leveling and patching compour
	Decorative Thin Wall Tile: 1/16 inch (1.6 mm). y out tile wainscots to dimensions indicated or to next full tile beyond dimensions indicated.	 D. Do not install floor tiles until they are same temperature as space where they are to be installed
G. Ex	pansion Joints: Provide expansion joints and other sealant-filled joints, including control, contraction, d isolation joints, where indicated. Form joints during installation of setting materials, mortar beds,	 Do not install noor thes until they are same temperature as space where they are to be installed a Move resilient products and installation materials into spaces where they will be installed a 48 hours in advance of installation.
	d tile. Do not saw-cut joints after installing tiles. Where joints occur in concrete substrates, locate joints in tile surfaces directly above them.	 E. Sweep and vacuum clean substrates to be covered by resilient products immediately before installation.
2.	Prepare joints and apply sealants to comply with requirements in Division 07 Section "Joint Sealants."	 3.2 FLOOR TILE INSTALLATION A. Comply with manufacturer's written instructions for installing floor tile.
	one Thresholds: Install stone thresholds in same type of setting bed as adjacent floor unless erwise indicated.	
OIU		

	SECTION 096519 RESILIENT TILE FLOORING (CONTINUED)	SECTION 102800 TOILET ACCESSORIES
ile floors and walls according to grout-	B. Lay out floor tiles from center marks established with principal walls, discounting minor offsets, so tiles at opposite edges of room are of equal width. Adjust as necessary to avoid using cut widths that equal	PART 1 - GENERAL 1.1 SUMMARY
ler has penetrated grout joints, remove	less than one-half tile at perimeter. 1. Lay tiles square with room axis.	A. Section Includes: 1. Restroom accessories.
SI A108.11 and manufacturer's written ement mortar for bonding material	C. Scribe, cut, and fit floor tiles to butt neatly and tightly to vertical surfaces and permanent fixtures including built-in furniture, cabinets, pipes, outlets, and door frames.	2. Underlavatory guards. 1.2 ACTION SUBMITTALS
urer's written instructions to produce	D. Extend floor tiles into toe spaces, door reveals, closets, and similar openings. Extend floor tiles to center of door openings.	A. Product Data: For each type of product indicated.B. Product Schedule: Indicating types, quantities, sizes, and installation locations by room of each acces
to substrate. nd manufacturer's written instructions to	E. Maintain reference markers, holes, and openings that are in place or marked for future cutting by repeating on floor tiles as marked on substrates. Use chalk or other nonpermanent, nonstaining	required. 1. Identify locations using room designations indicated.
substrate.	marking device. F. Adhere floor tiles to flooring substrates using a full spread of adhesive applied to substrate to produce	 Identify products using designations indicated. 1.3 INFORMATIONAL SUBMITTALS
suppression membrane; TCA F122.	a completed installation without open cracks, voids, raising and puckering at joints, telegraphing of adhesive spreader marks, and other surface imperfections.	 A. Warranty: Sample of special warranty. 1.4 CLOSEOUT SUBMITTALS
	 3.3 CLEANING AND PROTECTION A. Comply with manufacturer's written instructions for cleaning and protection of floor tile. 	A. Maintenance data. 1.5 WARRANTY
	 Floor Polish: Remove soil, visible adhesive, and surface blemishes from floor tile surfaces before applying liquid floor polish. 	A. Special Mirror Warranty: Manufacturer's standard form in which manufacturer agrees to replace mirror that develop visible silver spoilage defects and that fail in materials or workmanship within specified
ker units or fiber cement underlayment;	 Apply two coat(s). Cover floor tile until Substantial Completion. 	warranty period. 1. Warranty Period: 15 years from date of Substantial Completion.
•		PART 2 - PRODUCTS 2.1 RESTROOM ACCESSORIES
	SECTION 099123 INTERIOR PAINTING	A. Basis-of-Design Product: Subject to compliance with requirements, provide product indicated on Draw or comparable product by one of the following:
	PART 1 - GENERAL 1.1 SUMMARY A This Section includes surface proposition and the application of point surfaces on the following interior	 A & J Washroom Accessories, Inc. American Specialties, Inc.
	 A. This Section includes surface preparation and the application of paint systems on the following interior substrates: 	 Bobrick Washroom Equipment, Inc. Bradley Corporation.
	 Clay masonry. Wood and Simulated Wood. Cursum based 	 GAMCO Specialty Accessories; a division of Bobrick Washroom Equipment, Inc. Tubular Specialties Manufacturing, Inc.
	 Gypsum board. Plaster. Steel. 	 B. Toilet Tissue (Roll) Dispenser, Stainless Steel, Surface-Mounted: 1. Basis-of-Design Product: Bobrick B-274
	1.2 SUBMITTALS A. Product Data: For each type of product indicated.	 Provide where indicated. Paper Towel Dispenser / Waste Receptacle, Recessed:
standard-size Samples but not less than and pattern required.	 B. Samples: For each finish and for each color and texture required. C. Product List: Printout of current "MPI Approved Products List" for each product category specified in Part 	 Basis-of-Design Product: Bobrick B-262 Provide where indicated.
anufacturer in spaces to receive resilient	 2, with the proposed product highlighted. 1.3 QUALITY ASSURANCE 	 D. Grab Bars at all toilets: 1. Basis-of-Design Products:
nin range recommended by	A. MPI Standards: 1. Products: Complying with MPI standards indicated and listed in "MPI Approved Products List."	 a. Side, Fixed: Bobrick B-6806.99 x 42 inches (horizontal) b. Rear, Fixed: Bobrick B-6806.99 x 42 inches (horizontal)
painting, have been completed.	 Products: Complying with with standards indicated and instead in with Approved Froducts List. Preparation and Workmanship: Comply with requirements in "MPI Architectural Painting Specification Manual" for products and paint systems indicated. 	c. Side, Fixed: Bobrick B-6806.99 x 18 inches (vertical) E. Mirror Unit:
	 1.4 DELIVERY, STORAGE, AND HANDLING A. Store materials not in use in tightly covered containers in well-ventilated areas with ambient temperatures 	 Frameless mirror, 18 wide x 60 inches high. Provide at all toilet rooms.
	 continuously maintained at not less than 45 deg F. Maintain containers in clean condition, free of foreign materials and residue. 	 F. Soap Dispenser, Stainless steel, Surface-Mounted: 1. Basis of Design Product: Bobrick B-2111
a) Ltd.	 Remove rags and waste from storage areas daily. 1.5 PROJECT CONDITIONS 	2. Provide where indicated.
set).	 A. Apply paints only when temperature of surfaces to be painted and ambient air temperatures are between 50 and 95 deg F. 	2.2 UNDERLAVATORY GUARDS A. Basis-of-Design Product: The design for accessories is based on products indicated. Subject to
	 B. Do not apply paints when relative humidity exceeds 85 percent; at temperatures less than 5 deg F above the dew point; or to damp or wet surfaces. 	compliance with requirements, provide the named product or a comparable product by one of the following:
	 1.6 EXTRA MATERIALS A. Furnish extra materials described below that are from same production run (batch mix) as materials 	 Plumberex Specialty Products, Inc. TCI Products.
	 applied and that are packaged for storage and identified with labels describing contents. Quantity: Furnish an additional 1 gallon of each material and color applied. 	 Truebro, Inc. B. Underlavatory Guard:
ndustry colors.	PART 2 - PRODUCTS 2.1 MANUFACTURERS	 Basis-of-Design Product: Trubro: Lav-Guard Kit for P-trap and hot 7 cold supply valves, Color: White.
portland cement based or blended	 A. Manufacturers: Subject to compliance with requirements, provide products by one of the following: 1. Benjamin Moore & Co. 	 Provide at all handi-cap accessible lavatories. FABRICATION
nufacturer for applications indicated. to suit resilient products and substrate	 PPG Architectural Finishes, Inc. Sherwin-Williams Company (The). 	A. General: Fabricate units with tight seams and joints, and exposed edges rolled. Hang doors and acce panels with full-length, continuous hinges. Equip units for concealed anchorage and with corrosion-
	2.2 PAINT, GENERAL A. Material Compatibility:	resistant backing plates. B. Keys: Provide universal keys for internal access to accessories for servicing and resupplying. Provide
ns to ensure adhesion of resilient	 Provide materials for use within each paint system that are compatible with one another and substrates indicated, under conditions of service and application as demonstrated by manufacturer, 	minimum of six keys to Owner's representative. PART 3 - EXECUTION
eveling and patching compound and	based on testing and field experience.	 3.1 INSTALLATION A. Install accessories according to manufacturers' written instructions, using fasteners appropriate to
strate.	 For each coat in a paint system, provide products recommended in writing by manufacturers of topcoat for use in paint system and on substrate indicated. B. Colors: As selected by Architect from manufacturer's full range. 	substrate indicated and recommended by unit manufacturer. Install units level, plumb, and firmly anch in locations and at heights indicated.
s where they will be installed at least 48	 2.3 PRIMERS/SEALERS A. Interior Latex Primer/Sealer: MPI #50. 	B. Grab Bars: Install to withstand a downward load of at least 250 lbf, when tested according to method i ASTM F 446.
roducts immediately before installation.	 B. Wood-Knot Sealer: Sealer recommended in writing by topcoat manufacturer for use in paint systems indicated. 	
ient base.	2.4 METAL PRIMERS	
abinets in toe spaces, and other	 A. Alkyd Anticorrosive Metal Primer: MPI #79. B. Cementitious Galvanized-Metal Primer: MPI #26. 2.5 WOOD PRIMERS 	
s at seams and with tops of adjacent	A. Interior Latex-Based Wood Primer: MPI #39. 2.6 LATEX PAINTS	
ch piece, with base in continuous contact	A. Interior Latex (Eggshell): MPI #52 (Gloss Level 3). 2.7 ALKYD PAINTS	
	A. Interior Alkyd (Eggshell): MPI #51 (Gloss Level 3). 2.8 TEXTURED COATING	
protection of resilient products. es from resilient stair treads before	A. Latex Stucco and Masonry Textured Coating: MPI #42. PART 3 - EXECUTION	
	 3.1 EXAMINATION A. Examine substrates and conditions, with Applicator present, for compliance with requirements for 	
	 A. Examine substrates and conditions, with Applicator present, for compliance with requirements for maximum moisture content and other conditions affecting performance of work. B. Maximum Moisture Content of Substrates: When measured with an electronic moisture meter as follows: 	
	 Maximum Molsture Content of Substrates. When measured with an electronic molsture meter as follows. Masonry (Clay): 12 percent. Wood: 15 percent. 	
	 Gypsum Board: 12 percent. Plaster: 12 percent. 	
	C. Verify suitability of substrates, including surface conditions and compatibility with existing finishes and	
	 primers. D. Begin coating application only after unsatisfactory conditions have been corrected and surfaces are dry. 1. Beginning coating application constitutes Contractor's acceptance of substrates and conditions. 	
	 3.2 PREPARATION AND APPLICATION A. Comply with manufacturer's written instructions and recommendations in "MPI Architectural Painting 	
uired.	 Specification Manual" applicable to substrates indicated. B. Clean substrates of substances that could impair bond of paints, including dirt, oil, grease, and 	
anufacturer in spaces to receive	incompatible paints and encapsulants. 1. Remove incompatible primers and reprime substrate with compatible primers as required to produce	
nin range recommended by	paint systems indicated. C. Apply paints to produce surface films without cloudiness, spotting, holidays, laps, brush marks, roller	
	 Tracking, runs, sags, ropiness, or other surface imperfections. Cut in sharp lines and color breaks. D. Protect work of other trades against damage from paint application. Correct damage to work of other 	
have been completed.	trades by cleaning, repairing, replacing, and refinishing, as approved by Architect, and leave in an undamaged condition.	
	 At completion of construction activities of other trades, touch up and restore damaged or defaced painted surfaces. 	
following:	3.3 INTERIOR PAINTING SCHEDULE A. Clay-Masonry Substrates:	
	 Latex System: MPI INT 4.1A. a. Prime Coat: Interior latex matching topcoat. 	
ndustry colors.	 b. Intermediate Coat: Interior latex matching topcoat. c. Topcoat: Interior latex (eggshell). 	
portland cement based or blended	B. Steel Substrates: 1. Alkyd System: MPI INT 5.1E.	
nufacturer for applications indicated. to suit floor tile and substrate	a. First Coat: Oil-Based Enamel.b. Second Coat: Oil-Based Enamel (semi-gloss)	
commended by manufacturer.	c. Third Coat: Oil-Based Enamel (semi-gloss) C. Metal Door Frames:	
	 a. Prime Coat: Alkyd anticorrosive metal primer. b. Intermediate Coat: Interior alkyd matching topcoat. 	
ns to ensure adhesion of resilient	c. Topcoat: Interior alkyd (eggshell). D. Gypsum Board Substrates:	
, sealers, and hardeners.	 Cypstill Doard Gubstrates. 1. Latex System: MPI INT 9.2A. a. Prime Coat: Interior latex primer/sealer. 	
ncompatible with adhesives and that Is recommended by manufacturer.	 b. Intermediate Coat: Interior latex matching topcoat. c. Topcoat: Interior latex (eggshell). 	
ed by manufacturer. Proceed with	 E. Dressed Lumber and Wood Panel Substrates for Opaque Finish: Including finish carpentry and flush wood doors. 	
eveling and patching compound and	 Latex System: MPI INT 9.2A. a. Prime Coat: Interior latex primer/sealer. 	
strate. where they are to be installed.	 b. Intermediate Coat: Interior latex matching topcoat. c. Topcoat: Interior latex (eggshell). 	
s where they will be installed at least	F. Plaster Substrates: 1. Latex System: MPI INT 9.2A.	
roducts immediately before	 a. Prime Coat: Interior latex primer/sealer. b. Intermediate Coat: Interior latex matching topcoat. 	
tile.	b. Intermediate Coat: Interior latex matching topcoat.c. Topcoat: Interior latex (eggshell).	

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cating types, quantities, sizes, and installation locations by room of each accessory

: Manufacturer's standard form in which manufacturer agrees to replace mirrors

t: Subject to compliance with requirements, provide product indicated on Drawings

s with tight seams and joints, and exposed edges rolled. Hang doors and access

I keys for internal access to accessories for servicing and resupplying. Provide

recommended by unit manufacturer. Install units level, plumb, and firmly anchored

thstand a downward load of at least 250 lbf, when tested according to method in

Suffield Public Schools

Ward Spaulding School Preschool Classroom Renovations

945 MOUNTAIN RD WEST SUFFIELD, CT 06093

CONSULTANTS

KEY PLAN

PROJECT DATA PROJECT NUMBER 20016 CURRENT SUBMISSION DATE 6.01.20 DRAWN AEO CHECKED CAB SCALE 12" = 1'-0" FILE REFERENCE C:\Users\AEO\Documents\20016-Suffield Spaulding School-CENTRAL-2020_AEO.rvt

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HISTORY OF SUBMISSIONS

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FOR CONSTRUCTION

SHEET TITLE

SPECIFICATIONS



- OWNER.
- INFORMATION SOURCE FOR CONSTRUCTION PURPOSES.
- ADDITIONAL INFORMATION.
- TRADES BEFORE COMMENCING WORK.
- APPURTENANCES.
- WITH THE PROJECT DOCUMENTS OF ALL TRADES.
- FIELD AND ADJUST AS NECESSARY.
- FIXTURE.
- ACCORDANCE WITH THE PLUMBING CODE.
- THE ARCHITECT. MOUNTING HEIGHTS SHALL BE APPROVED BY THE ARCHITECT.
- RECOMMENDATION.
- THAT THIS WORK HAS BEEN COMPLETED.
- INSULATION AND THE LOCATION SHALL BE MADE INFILTRATION FREE.

	PLUMBING SYMBOLS
	COLD WATER
	HOT WATER
	HOT WATER RECIRCULATING
	VENT
s	SOIL OR WASTE PIPE
0	FLOOR DRAIN

PLUMBING GENERAL NOTES

1. ALL WORK SHALL BE PERFORMED IN COMPLIANCE WITH CURRENT APPLICABLE CODES, ORDINANCES, THE REGULATORY AGENCIES HAVING JURISDICTION AND THE SPECIFICATIONS. THE SPECIFICATIONS MAY EXCEED THE REQUIREMENTS OF THE CODE, IN WHICH CASE, THE SPECIFICATION MUST BE FOLLOWED.

2. THE INTENT OF THESE DOCUMENTS IS FOR THE MEP TRADES TO FURNISH AND INSTALL COMPLETE MECHANICAL AND ELECTRICAL SYSTEMS. THE SPECIFIED PLUMBING SYSTEM SHALL BE COMPLETE IN ALL RESPECTS; OPERATIONAL, TESTED, ADJUSTED, APPROVED BY THE AUTHORITIES HAVING JURISDICTION AND READY FOR BENEFICIAL USE BY THE

3. THE TRADES SHALL OBTAIN AND REVIEW ALL CONTRACT DOCUMENTS BEFORE SUBMITTING A BID. INFORMATION IS PROVIDED ON THE VARIOUS DRAWINGS, SCHEDULES, SPECIFICATIONS AND ALL OF THE VARIOUS DOCUMENTS IN THE BIDDING PACKAGE. THE CONTRACT DOCUMENTS ARE COMPLEMENTARY AND FORM A TOTAL PROJECT DESIGN AND

4. THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS AND WORK INCLUDED IN THE CONTRACT. COORDINATE LOCATIONS OF EQUIPMENT WITH OTHER TRADES BEFORE AND DURING CONSTRUCTION. ANY MODIFICATION TO THE EQUIPMENT LAYOUT, REQUIRED FOR INSTALLATION, IS TO BE PERFORMED UNDER THE CONTRACT AGREEMENT, AT NO ADDITIONAL COST. REFER TOP DETAILS, SCHEDULES AND SPECIFICATIONS FOR

5. THE CONTRACTOR SHALL BECOME THOROUGHLY FAMILIAR WITH THE PROJECT DOCUMENTS OF ALL TRADES. THE DRAWINGS ARE DIAGRAMMATIC AND SHOW THE GENERAL ARRANGEMENT OF EQUIPMENT AND PIPING. THE CONTRACTOR SHALL COORDINATE THE EXACT LOCATION OF EQUIPMENT AND PIPING INSTALLATION WITH ALL THE

6. EQUIPMENT SHALL BE INSTALLED IN ACCESSIBLE LOCATIONS, WHEN EQUIPMENT MUST BE LOCATED ABOVE AN INACCESSIBLE CEILING (GYP BOARD OR EQUIVALENT), OR BEHIND A WALL, AN APPROPRIATE ACCESS DOOR SHALL BE PROVIDED. IF AN ACCESS DOOR IS REQUIRED, IT SHALL BE OF A RATING APPROPRIATE FOR THE WALL/CEILING IN WHICH IT IS TO BE INSTALLED. THE CONTRACTOR SHALL COORDINATE LOCATIONS OF ACCESS PANELS FOR ALL VALVES AND DEVICES, REQUIRING ACCESS, WITH THE ARCHITECT, PRIOR TO INSTALLATION OF SUCH DEVICES OR OTHER

7. WHERE A CONFLICT OCCURS BETWEEN THE DOCUMENTS, IT SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT. CARRY AS PART OF THE BID THE LARGER QUANTITY AND/OR MORE EXPENSIVE ITEM(S).

8. THIS CONTRACT SHALL INCLUDE ALL THE NECESSARY PIPING, FITTINGS, TRANSITIONS, OFFSETS, ETC. AS REQUIRED TO INSTALL PIPING, EQUIPMENT, MAINTAINING PROPER CLEARANCES AND TO AVOID ANY CONFLICTS WITH OTHER TRADES. AND THE BUILDING STRUCTURE. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY ASSUMPTIONS, OMISSIONS OR ERRORS HE MAKES AS A RESULT OF HIS FAILURE TO COORDINATE WITH OTHER TRADES OR BECOME FULLY FAMILIAR

9. DO NOT INSTALL ANY PIPING OVER ELECTRICAL PANELS, TRANSFORMERS, SPECIAL EQUIPMENT, OR THROUGH ELECTRICAL ROOMS, DATA ROOMS, ELEVATOR MACHINE ROOM, STAIRWELL OR STAIRWELL WALLS THAT ARE NOT ASSOCIATED WITH OR SERVE THE RESPECTIVE ROOMS. COORDINATE THE LOCATION OF ELECTRICAL EQUIPMENT IN THE

10. IT IS NOT THE INTENT OF THE DRAWINGS TO SHOW INDIVIDUAL BRANCH PIPING TO EACH PLUMBING FIXTURE; ONLY THE BRANCH PIPING TO GROUPS OF FIXTURES IS INDICATED. EACH AND EVERY FIXTURE SHALL BE PROPERLY PIPED TO WATER, WASTE, AND VENT PIPING SYSTEMS. REFER TO THE PLUMBING SCHEDULES FOR INDIVIDUAL PIPE SIZES TO EACH

11. PROVIDE PROPER PIPING SYSTEM IDENTIFICATION LABELS, SLOPES FOR DRAIN PIPING, CLEANOUTS, HANGERS, ETC. IN

12. REFER TO THE ARCHITECTURAL DRAWINGS FOR THE EXACT LOCATION AND MOUNTING HEIGHTS OF PLUMBING FIXTURES OR EQUIPMENT. ALL SUCH EQUIPMENT AND EQUIPMENT COLORS AND FINISHES SHALL BE COORDINATED WITH

13. INSTALL WATER HAMMER ARRESTORS (WHA) AT ALL QUICK CLOSING VALVES (FLUSH VALVES, SOLENOID VALVES, ETC.); SIZE SHALL BE BASED ON FIXTURE UNITS PER PDI STANDARDS AND INSTALLED PER MANUFACTURER'S

14. ALL PIPING, DRAINS, STRAINERS, FAUCETS, FAUCET AERATORS, FILTERS, ETC. SHALL BE THOROUGHLY CLEANED AND FLUSHED IMMEDIATELY BEFORE PROJECT COMPLETION. PROVIDE CERTIFICATION ON CONTRACTOR'S LETTER HEAD

15. DOMESTIC WATER DROPS AND RISERS INSTALLED IN EXTERIOR WALLS SHALL BE INSTALLED ON THE WARM SIDE OF

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Suffield Public Schools

Ward Spaulding School Preschool Classroom Renovations

945 MOUNTAIN RD WEST SUFFIELD, CT 06093

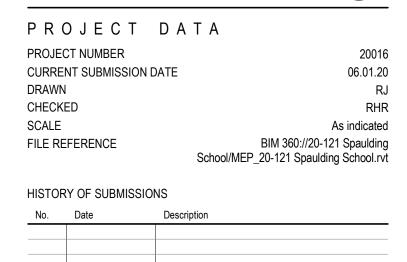
CONSULTANTS

RZ Design Associates, In MECHANICAL, ELECTRICAL, AND STRUCTURAL ENGINEERING 750 OLD MAIN STREET SUITE 202 ROCKY HILL, CT 06067 P: (860) 436-4336 F: (860) 436-4450 www.rzdesignassociates.com

KEY PLAN



<u>F</u>	ITTINGS AND VALVES
	BALL VALVE
ტ	TAKEOFF FROM TOP OF MAIN PIPE
`````	TAKEOFF FROM BOTTOM OF MAIN PIPE
0	PIPE ELBOW UP OR PIPE TEE UP
	PIPE ELBOW DOWN
	PIPE TEE DOWN
	WALL CLEANOUT OR BLIND FLANGE
	FLOOR CLEANOUT
	"P" TRAP WATER HAMMER ARRESTOR



FOR CONSTRUCTION

SHEET TITLE

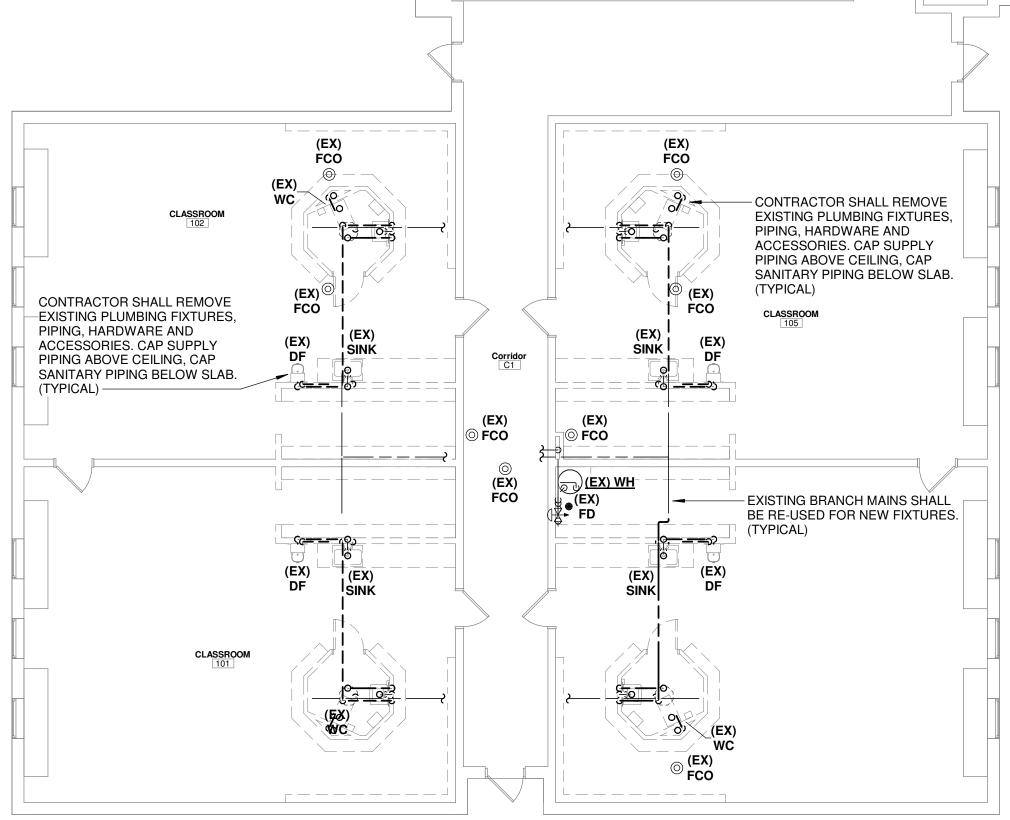
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PLUMBING LEGEND AND **GENERAL NOTES**

P0.01

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AMENTA|EMMA ARCHITECTS

Suffield Public Schools

Ward Spaulding School Preschool Classroom Renovations

945 MOUNTAIN RD WEST SUFFIELD, CT 06093

CONSULTANTS

KEY PLAN

RZ Design Associates, Inc. MECHANICAL, ELECTRICAL, AND STRUCTURAL ENGINEERING 750 OLD MAIN STREET SUITE 202 ROCKY HILL, CT 06067 P: (860) 436-4336 F: (860) 436-4450

RJ

PROJECT DATA PROJECT NUMBER 20016 CURRENT SUBMISSION DATE 06.01.20 DRAWN CHECKED RHR SCALE 1/8" = 1'-0" FILE REFERENCE BIM 360://20-121 Spaulding School/MEP_20-121 Spaulding School.rvt HISTORY OF SUBMISSIONS No. Date Descriptior FOR CONSTRUCTION

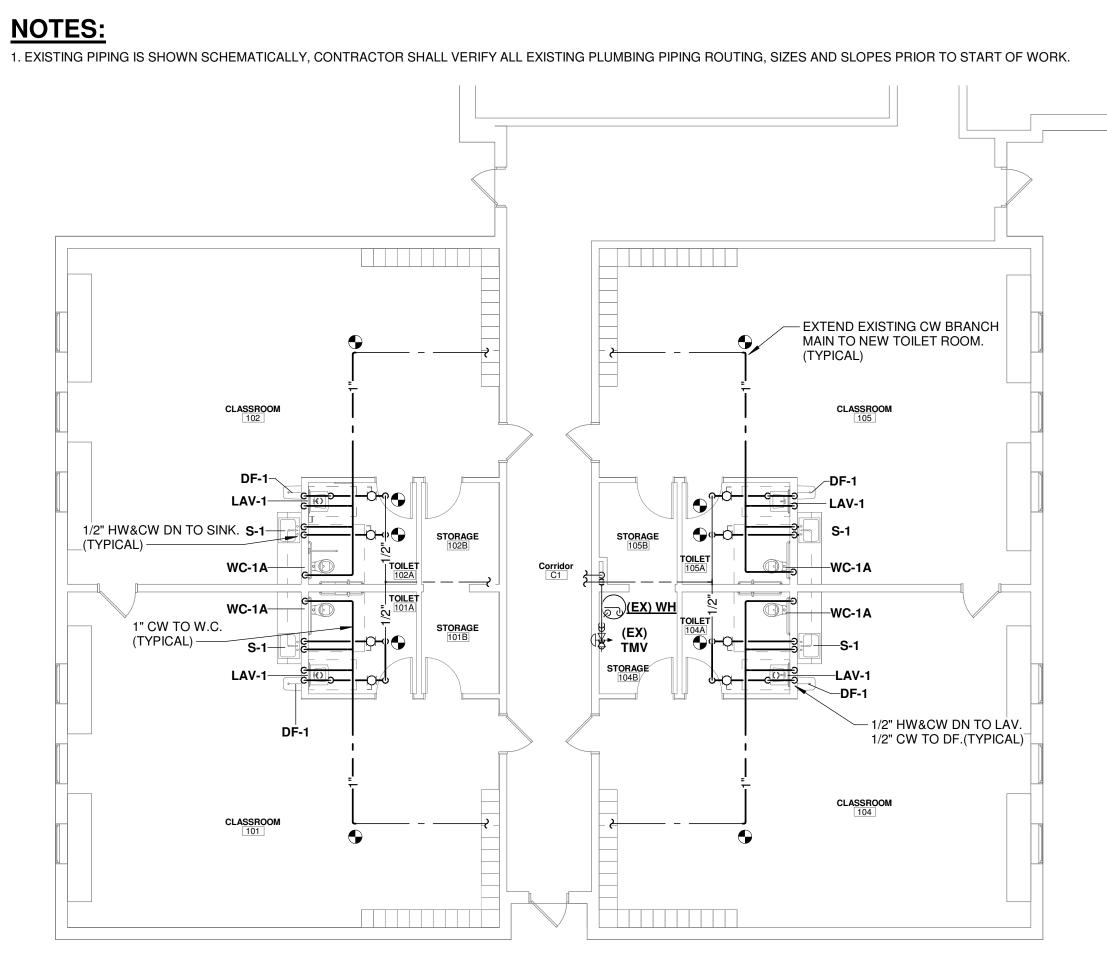
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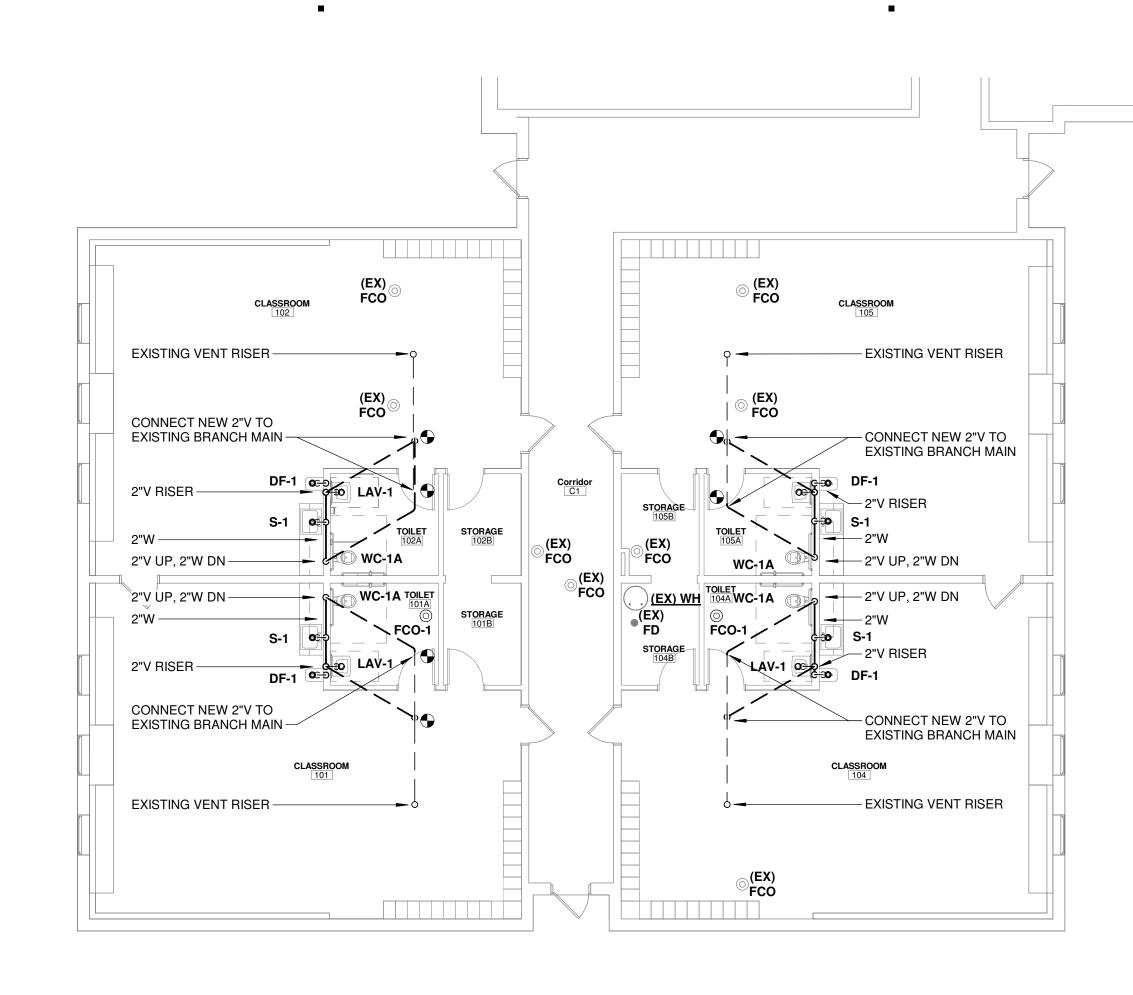
PLUMBING DEMOLITION PLAN

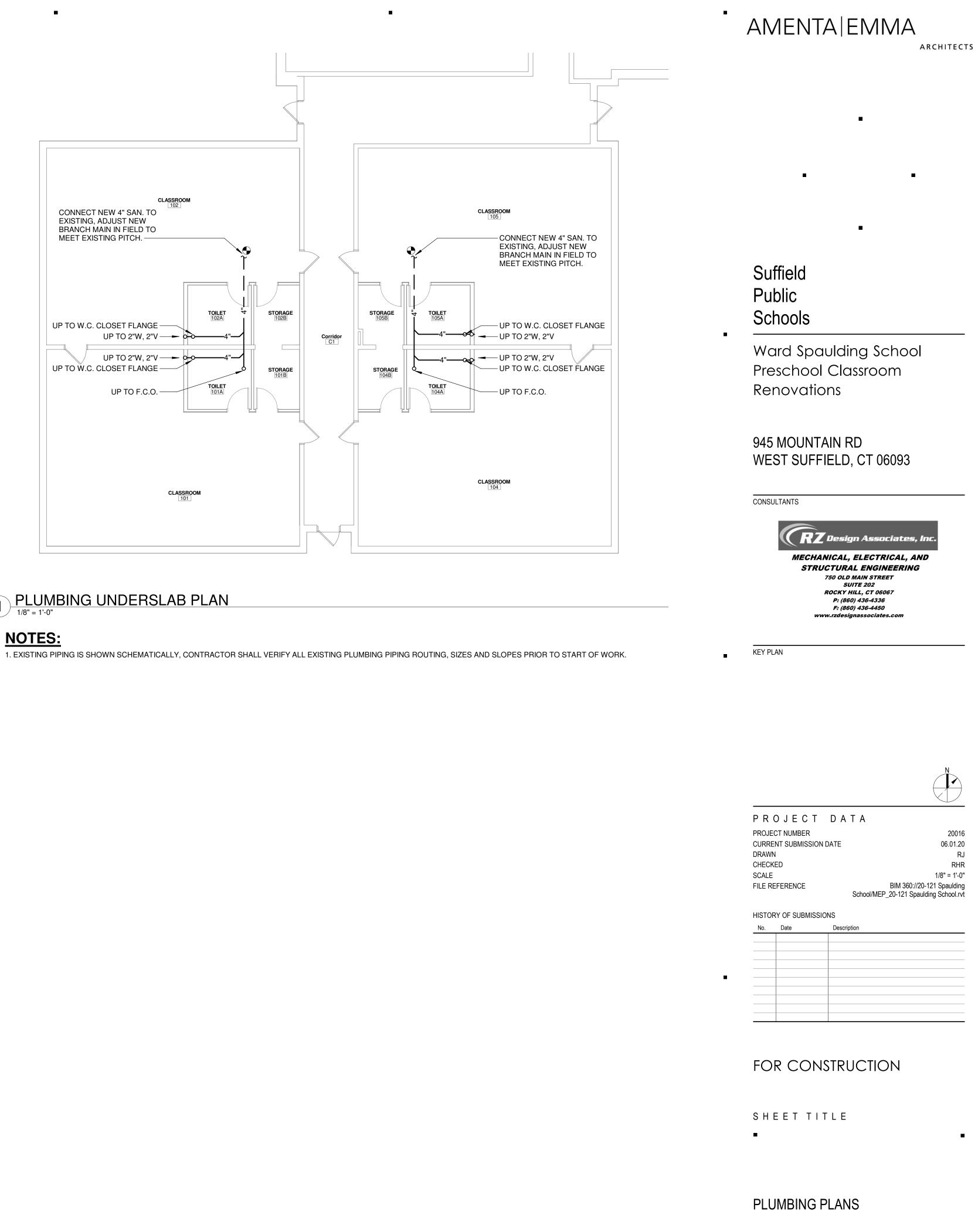
P1.01

3 FIRST FLOOR PLUMBING SUPPLY PLAN



2 FIRST FLOOR DRAINAGE PLAN 1/8" = 1'-0"

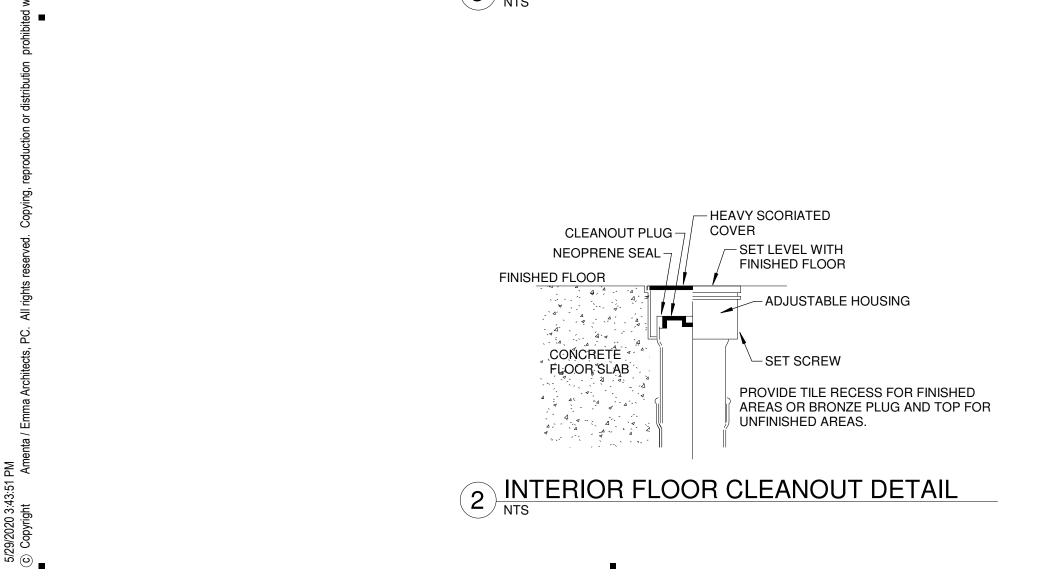




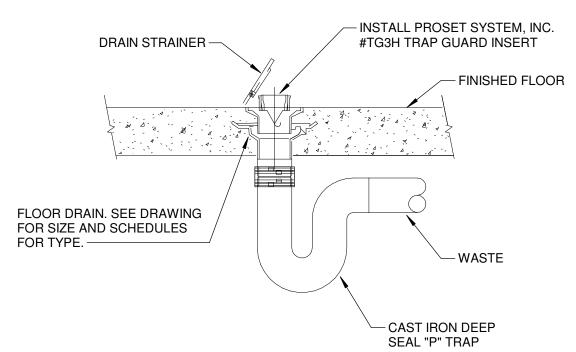
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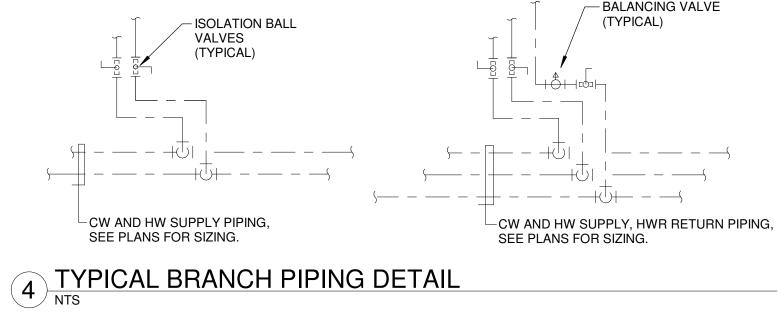
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3 TYPICAL FLOOR DRAIN WITH TRAP GUARD INSERT DETAIL





PLUMBING FIXTURE SCHEDULE

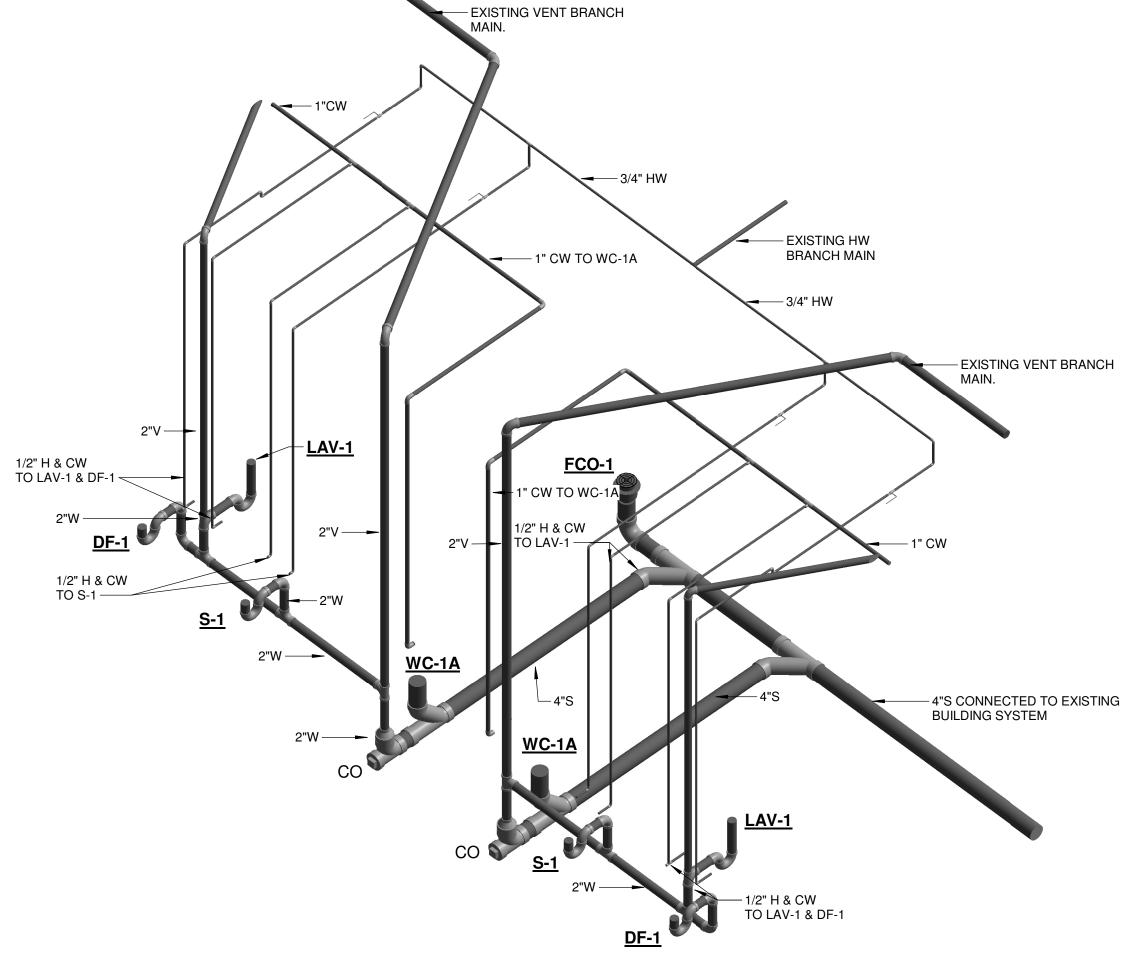
GENERAL NOTES:

PIPE SIZES SHOWN ARE FOR SUPPLY AND DRAINAGE ONLY. PROVIDE SUPPLIES WITH SCREWDRIVER STOPS, WALL ESCUTCHEON, 17-GAUAGE SEMICAST "P" TRAPS WITH CLEANOUT PLUGS, PLUMBING FIXTURE SUPPORTS AND NECESSARY FITTINGS TO MAKE FINAL CONNETION. REFER TO SPECIFICATIONS FOR EQUIVALENTS. REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING ELEVATION OF PLUMBING FIXTURES, CLEARANCE BELOW SINKS AND LAVATORIES AND OFFSET DRAIN LOCATIONS. OFFSET DRAINS SHALL BE OFFSET LEFT REAR OR OFFSET RIGHT REAR. COORDINATE MOUNTING HEIGHTS FOR CHILDREN AND ADULT FIXTURES WITH ARCHITECTURAL DRAWINGS.

<u>TAG</u>	TYPE	<u>ADA</u>	<u>COLD</u>	<u> HOT</u>	<u>SAN</u>	<u>VENT</u>	DESCRIPTION	REMARKS
DF-1	ELECTRIC WATER COOLER	Yes	1/2"		2"	1 1/2"	EDFP210C.	REFER TO ARCHITECTURAL FOR MOUNTING HEIGHT
LAV-1	LAVATORY	Yes	1/2"	1/2"	2"	1 1/2"	AMERICAN STANDARD "LUCERNE" WALL HUNG BARRIER FREE LAVATORY, MODEL# 0355.012 FOR WALL HANGER (INCLUDED) OR CONCEALED ARM SUPPORT, 4" CENTERS, PROVIDE CHICAGO TOUCHLESS FAUCET MODEL# EQ-A12A-11ABCP BATTERY OPERATED, SENSOR FAUCET, 4" CENETERS, 0.5 GPM, WATTS HYDRO GUARD LFE480 MIXING VALVE, TAIL PIECE, SHUT OFFS AND HARDWARE	REFER TO ARCHITECTURAL FOR MOUNTING HEIGHT
S-1	HAND SINK	Yes	1/2"	1/2"	2"	1 1/2"	ELKAY "LUSTERTONE CLASSIC STAINLESS STEELSINGLE BOWL 19 1/2"x22x6 1/2" DROP IN SINK WITH PERFECT DRAIN MODEL# LRAD202265PD, SINGLE HOLE. PROVIDE CHICAGO FAUCET TOUCHLESS BATTERY OPERATED FAUCET MODEL# 116.877.AB.1, 0.5 GPM.	
WC-1A	WATER CLOSET	Yes	1"		4"	2"	AMERICAN STANDARD "BABY DEVORO" FLO WISE FLOOR MOUNTED TOILET MODEL#2282.001 WITH SEAT MODEL# 5001G.055. PROVIDE SLAON "G2" BATTERY OPERATED SENSOR FLUSHOMETER MODEL# G2 8113-1.28, 1.28 GPF, SHUT-OFF, HARDWARE.	

TYPE SPECIALTY ITEM MANUFACTURER MODEL	
FCO-1 FLOOR CLEANOUT WATTS CO12 3" PVC A	DJUSTAE

- BALANCING VALVE



1 TYPICAL TOILET GROUP ISOMETRIC

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DULE DESCRIPTION ABLE FLOOR CLEANOUT WITH BRONZE PLUG. **REMARKS**



Ward Spaulding School Preschool Classroom Renovations

945 MOUNTAIN RD WEST SUFFIELD, CT 06093

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KEY PLAN

PROJECT DA	ТА
PROJECT NUMBER	20016
CURRENT SUBMISSION DATE	06.01.20
DRAWN	RJ
CHECKED	RHR
SCALE	NTS
FILE REFERENCE	BIM 360://20-121 Spaulding School/MEP_20-121 Spaulding School.rvt
HISTORY OF SUBMISSIONS	
No Doto Docor	rintian



FOR CONSTRUCTION

SHEET TITLE

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SCHEDULES & ISOMETRIC DIAGRAM

P2.02.

GENERAL

- OPERATION.
- - · INTERNATIONAL BUILDING CODE
 - · INTERNATIONAL EXISTING BUILDING CODE

- SEISMIC RESTRAINTS
- **COORDINATION**
- SHOP DRAWINGS
- PRIOR TO CONSTRUCTION.
- **OWNER'S MANUAL AND AS-BUILT DRAWINGS**
- BE PURCHASED.
- COMPARISONS.
 - BASES, HANGERS AND SUPPORTS

 - PIPE SEALS AND FIRE-STOPS
 - CONSTRUCTION.
 - SEALING MATERIAL.

1. IT IS THE INTENT OF THE SPECIFICATIONS AND DRAWINGS TO PROVIDE FOR FINISHED WORK, TESTED AND READY FOR OPERATION.

2. WORK OF THIS SECTION SHALL BE GOVERNED BY THE CONTRACT DOCUMENTS. PROVIDE MATERIALS, LABOR, EQUIPMENT AND SERVICES NECESSARY TO FURNISH, DELIVER AND INSTALL ALL WORK AS SPECIFIED AND AS REQUIRED BY JOB CONDITIONS. WHERE A CONFLICT EXISTS BETWEEN THESE NOTES, THE DRAWINGS AND THE FOLLOWING SPECIFICATIONS, THE MORE STRINGENT REQUIREMENT SHALL APPLY.

3. ITEMS AND SERVICES NOT SHOWN ON THE DRAWINGS OR STATED IN THE SPECIFICATIONS, BUT REQUIRED TO RENDER THE WORK COMPLETE AND READY FOR OPERATION, SHALL BE PROVIDED WITHOUT ADDITIONAL COST.

4. DRAWINGS ARE DIAGRAMMATIC AND ARE NOT TO BE SCALED. DRAWINGS INDICATE A GENERAL ARRANGEMENT OF WORK AND ARE NOT TO BE CONSIDERED SUB-CONTRACTOR DOCUMENTS. IT IS THE INTENT OF THESE DOCUMENTS TO INCLUDE THE PROVISION AND INSTALLATION OF ALL NECESSARY WORK AND MATERIALS FOR COMPLETE, OPERATIONAL AND CODE COMPLIANT SYSTEMS BY THE CONTRACTOR.

5. GENERAL DESIGN CONCEPTS INDICATED MUST BE FOLLOWED OR BETTERED.

6. THE BID SHALL INCLUDE OFFSETS, ADDITIONAL PIPING, VALVES, EQUIPMENT AND COMPONENTS AS REQUIRED TO MEET CONSTRUCTION CONDITIONS FOR PROPER

7. THE CONTRACTOR SHALL OBTAIN ALL PERMITS REQUIRED AND PAY ALL APPLICABLE FEES. INCLUDED SHALL BE ANY UTILITY COST ASSOCIATED WITH ANY NEW OR MODIFIED SERVICES. CONSULT ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR SPACE CONDITIONS AND ADDITIONAL REQUIREMENTS.

8. PERFORM THE WORK IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONTRACT'S GENERAL CONDITIONS AND IN COORDINATION WITH ALL OTHER TRADES. ALL WORK SHALL BE DONE IN CONFORMANCE AND PROVISIONS OF ALL APPLICABLE ADOPTED LOCAL, STATE AND FEDERAL CODES AND LAWS AS REFERENCED OR STATED.

CONNECTICUT CODES AND STANDARDS:

· INTERNATIONAL ENERGY CONSERVATION CODE WITH AMENDMENTS

 INTERNATIONAL MECHANICAL CODE INTERNATIONAL PLUMBING CODE

· NATIONAL ELECTRICAL CODE (NFPA 70)

· 1CC/ANSI A117.1-2009 ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES 9. WORK SHALL INCLUDE ALL INCIDENTALS, LABOR, MATERIAL, EQUIPMENT, APPLIANCES,

SERVICES, HOISTING, SCAFFOLDING, SUPPORTS, TOOLS, CONSUMABLE ITEMS, AND ADMINISTRATIVE TASKS/DUTIES REQUIRED TO COMPLETE AND MAKE OPERABLE WORK SHOWN ON THE DRAWINGS OR SPECIFIED HEREIN.

10. STORE MATERIALS INSIDE AND PROTECTED FROM DEBRIS, WEATHER AND MOISTURE.

1. THE PROJECT IS IN A SEISMIC ZONE AND ALL WORK SHALL BE INSTALLED, SUPPORTED, AND SEISMICALLY RESTRAINED IN ACCORDANCE WITH CURRENT SEISMIC REQUIREMENTS.

1. CONTRACTOR IS REQUIRED TO OBTAIN COMPLETE SETS OF THE CONTRACT DOCUMENTS FOR COORDINATION WITH ALL OTHER TRADES.

1. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ENGINEER INITIAL REVIEW AND APPROVAL, REVISED IF REQUIRED AND RESUBMITTED AS PER ENGINEER'S COMMENTS

2. ACCEPTANCE OF DEVIATIONS OR SUBSTITUTIONS FROM BASE SPECIFIED ITEMS OR EQUIPMENT SHALL BE AT THE ENGINEERS DISCRETION. ANY CHANGES REQUIRED FOR ACCOMMODATION SHALL BE AT NO ADDITIONAL COST.

1. UPON COMPLETION OF THE PROJECT, THE CONTRACTOR SHALL PROVIDE AN OWNER'S MANUAL WITH AS-BUILT DRAWINGS REFLECTING INSTALLED CONDITIONS.

2. THE OWNER'S MANUAL SHALL CONSIST OF ALL DOCUMENTATION PROVIDED AS SHOP DRAWINGS. MANUALS PACKED WITH EQUIPMENT AND COMPLETE PARTS BREAKDOWN WITH PART NUMBERS AND DIAGRAMS. THE OWNER'S MANUALS SHALL BE IN A THREE RING BINDER. PROVIDE NAMES AND PHONE NUMBERS OF SUPPLY HOUSES WHERE PARTS MAY

3. AS-BUILT DRAWINGS SHALL CONSIST OF FIELD MARK-UPS TO THE CONSTRUCTION DRAWINGS AND INCLUDE ANY ADDITIONAL DETAILS TO CLEARLY REFLECT INSTALLED CONDITIONS. ANY ISSUED OR SUPPLEMENTAL SKETCHES OR DIRECTIVES SHALL BE INCORPORATED INTO THE FINAL CONSTRUCTION MARK-UPS.

4. CONTRACTOR SHALL MAINTAIN, ON-SITE, A FIELD MARK-UP SET OF DOCUMENTS WHICH SHALL BE KEPT CURRENT WITH ANY CHANGES FROM THE ORIGINAL CONTRACT DOCUMENTS. THESE MARK-UPS ARE TO BE PROVIDED AS AS-BUILT DRAWINGS FOR

1. THE CONTRACTOR SHALL PROVIDE, OR CAUSE TO BE PROVIDED BY ANOTHER CONTRACTOR, ALL REQUIRED BASES AND SUPPORTS FOR PIPING AND EQUIPMENT PROVIDED UNDER THESE SPECIFICATIONS.

2. PROVIDE ADJUSTABLE CLEVIS HANGERS FOR ALL SINGLE RUN PIPING. WHERE REQUIRED, OVERSIZE TO ACCOMMODATE INSULATION TO PASS THROUGH. PROVIDE INSULATION SHIELDS. WHERE POSSIBLE, GROUP PIPING TO ALLOW TRAPEZE HANGERS TO BE USED.

3. PROVIDE ALL ANCHORS, INSERTS AND BEAM CLAMPS REQUIRED FOR HANGERS AND SUPPORTS. IF ADDITIONAL STRUCTURAL MEMBERS OR SUPPORTS ARE REQUIRED, THE CONTRACTOR IS TO COORDINATE WITH THE STRUCTURAL CONTRACTOR FOR PROVISION OF THESE MEMBERS. ALL PIPING AND EQUIPMENT IS TO BE SECURELY FASTENED TO THE BUILDING STRUCTURE IN AN ACCEPTABLE MANNER.

4. ALL PIPING PASSING THROUGH WALLS AND FLOORS SHALL BE SLEEVED. THE SLEEVES SHALL HAVE AN INSIDE DIAMETER 1" LARGER THAN THE PIPE AND INSULATION, IF INSULATED. INSULATION SHALL PASS CONTINUOUS THROUGH THE SLEEVE.

1. SEAL ALL PIPING PASSING THROUGH FIRE AND/OR SMOKE RATED PARTITIONS, WALLS AND FLOORS WITH A UL LISTED, APPROVED AND TESTED FIRE AND/OR SMOKE SEALING MATERIAL EQUIVALENT TO THE RATING OF THE WALL, PARTITION OR FLOOR. COORDINATE WITH ARCHITECTURAL DRAWINGS FOR COMPATIBILITY WITH WALL AND FLOOR

2. FOR INTERIOR PARTITIONS, WALLS AND FLOORS, SLEEVES SIZED TO ALLOW INSULATION TO PASS THROUGH CONTINUOUS WITH A MAXIMUM 1" ANNULAR SPACE BETWEEN THE INSULATION AND SLEEVE. SLEEVES TO BE CUT SMOOTH AND INSTALLED FLUSH WITH FINISHED WALLS AND 2" ABOVE FINISHED FLOORS. FILL THE ANNULAR SPACE WITH UL

EQUIPMENT ACCESSIBILITY

- 1. LOCATE ALL EQUIPMENT WHICH MUST BE SERVICED, OPERATED OR MAINTAINED IN FULLY ACCESSIBLE POSITION WITH ADEQUATE CLEARANCES TO PROVIDE SERVICE OR REPAIR.
- 2. ACCESS DOORS OR PANELS IN WALLS, CEILINGS OR FLOORS SHALL BE FIELD COORDINATED AND INSTALLED FOR ACCESS TO CONCEALED VALVES, EQUIPMENT OR DEVICES.

CLEANING AND PROTECTION AGAINST FOREIGN MATTER

- 1. THE JOBSITE SHALL BE KEPT CLEAN AT ALL TIMES. CAP EXPOSED PIPING AND COVER FLOOR DRAINS TO INSURE ADEQUATE PROTECTION AGAINST THE ENTRANCE OF FOREIGN MATTER.
- 2. AT COMPLETION OF THE PROJECT, ALL EQUIPMENT, FIXTURES, ETC. SHALL BE CLEANED.

OPERATING INSTRUCTIONS

UPON THE COMPLETION OF ALL WORK, TESTING AND ADJUSTING THE CONTRACTOR SHALL FURNISH PERSONNEL TO INSTRUCT THE OWNER'S REPRESENTATIVES IN THE OPERATION, ADJUSTMENT AND MAINTENANCE OF THE EQUIPMENT AND SYSTEMS FURNISHED.

GUARANTEES

1. IN ADDITION TO THE CONTRACTOR'S GUARANTEE, PROVIDE ALL APPLICABLE EXTENDED GUARANTEES FOR EQUIPMENT.

PLUMBING PIPING INSULATION

- 1. PROVIDE 1" GLASS FIBER INSULATION FOR ALL NEW COPPER PIPING (HOT AND COLD WATER), INCLUDES INSULATION FOR FITTINGS AND VALVES.
- 2. INSULATION TO BE AS MANUFACTURED BY KNAUF, MANVILLE, OWENS-CORNING OR CERTAIN-TEED.
- 3. INSULATION TO HAVE A "K" VALUE OF 0.24 AT 75°F. FLAME SPREAD/SMOKE OF 5/50. MAX. 850°F RATING, VAPOR BARRIER WHITE KRAFT PAPER WITH GLASS FIBER YARN BONDED TO ALUMINIZED FILM
- 3. AT ALL FITTINGS AND VALVES PROVIDE PRE-MOLDED PVC JACKET BY ZESTON.
- 4. BEFORE INSTALLING INSULATION, ALL REQUIRED PIPING IS TO BE TESTED AND APPROVED.
- 5. INSULATION IS TO PASS CONTINUOUSLY THROUGH HANGERS, WALLS, SLEEVES AND OTHER PIPE PENETRATIONS.

PLUMBING PIPING

- 1. PIPING MATERIAL SHALL BE AS FOLLOWS:
- A. SANITARY/WASTE PIPING ABOVE AND BELOW FLOOR SLAB CAST IRON, HUBLESS, NEOPRENE GASKET, STAINLESS STEEL HEAVY DUTY CLAMP AND SHIELD COUPLING CISPI 301
- B. VENT PIPING ABOVE AND BELOW FLOOR SLAB CAST IRON, HUBLESS, NEOPRENE GASKET, STAINLESS STEEL HEAVY DUTY CLAMP AND SHIELD COUPLING, CISPI 301
- C. WATER PIPING COPPER, TYPE L, ASTM B88, SOLDER OR PRESS CONNECTIONS. D. BALL VALVES SHALL BE BRONZE, TWO PIECE, FULL PORT, EXTENDED LEVER HANDLE
- FOR INSULATION, CLASS 150-400 PSI WOG, AS MANUFACTURED BY MILWAUKEE, NIBCO OR APOLLO.
- 2. NO PIPING SHALL BE COVERED UNTIL TESTED AND APPROVED BY THE AUTHORITIES HAVING JURISDICTION.
- 3. INSTALL PIPING TO ALLOW FOR EXPANSION AND CONTRACTION WITHOUT STRESSING PIPE, JOINTS OR CONNECTED EQUIPMENT.
- 4. CONCEALED PIPING AND ACCESSORIES SHALL BE ARRANGED TO USE THE MINIMUM AMOUNT OF ACCESS DOORS AND PANELS.
- 5. PIPING SHALL BE RUN CONCEALED IN FURRED SPACES, CHASES, WALLS, ETC. CONTRACTOR SHALL OBTAIN PERMISSION TO RUN EXPOSED PIPING.
- PROVIDE ISOLATION AND SHUT-OFF VALVES AT ALL BRANCH LINES AND EQUIPMENT.
- 7. PROVIDE LISTED AND APPROVED DIELECTRIC FITTINGS WHEN JOINING DISSIMILAR
- 8. RUN ALL SANITARY AND WASTE PIPING AT A MINIMUM OF 1/8" PER FOOT FOR PIPING. SLOPE VENT PIPING TO DRAIN.
- 9. PIPE HANGERS SHALL BE PLACED ADJACENT TO MOTOR DRIVEN EQUIPMENT.
- 10. HANGERS AND SUPPORTS SHALL BE AS FOLLOWS:

A. COPPER PIPING

METALS.

- · 1/2" TO 1-1/4" AT MAXIMUM 6'-0" SPACING · 1-1/2" TO 3" AT MAXIMUM 10'-0" SPACING
- B. CAST IRON PIPING
- · 1-1/2" TO 2" AT MAXIMUM 10'-0" SPACING · 2-1/2" AND ABOVE AT MAXIMUM 5'-0" SPACING
- 11. WATER PIPING IS TO BE FLUSHED AND DISINFECTED IN ACCORDANCE WITH LOCAL AND STATE HEALTH REGULATIONS. AFTER FLUSHING AND DISINFECTING, THE WATER IS TO BE TESTED BY THE CONTRACTOR THROUGH AN INDEPENDENT LAB WITH A WRITTEN REPORT.
- 12. ALL NEW WATER, SANITARY, WASTE, AND VENT PIPING SHALL BE PRESSURE TESTED AS FOLLOWS:
- A. SANITARY, WASTE, AND VENT PIPING HYDROSTATIC TEST AT 10 FT HEAD FOR A MINIMUM 4 HOURS. SUBMIT WRITTEN/SIGNED TEST RESULTS.
- B. WATER PIPING HYDROSTATIC TEST AT 125 PSI OR 1-1/2 TIMES OPERATING PRESSURE (WHICHEVER IS GREATER) FOR A MINIMUM 4 HOURS WITH MAXIMUM LOSS OF 2 PSI. SUBMIT WRITTEN/SIGNED TEST RESULTS. AIR TESTING WILL NOT BE ACCEPTABLE.

PLUMBING PIPING SPECIALTIES

- 1. CLEANOUTS IN INTERIOR FINISHED FLOORS SHALL HAVE A CAST IRON BODY WITH ANCHOR FLANGE, THREADED TOP ASSEMBLY AND ROUND GASKETED SCORED COVER. FOR FINISHED FLOORS PROVIDE DEPRESSED COVER TO ACCEPT FLOOR FINISH.
- 2. WATER HAMMER ARRESTORS SHALL BE STAINLESS STEEL CONSTRUCTION, BELLOWS TYPE, PRECHARGED. AIR CHAMBERS ARE NOT ACCEPTABLE. INSTALL WATER HAMMER ARRESTORS AT ALL QUICK CLOSING VALVES, ON HOT AND/OR COLD WATER SUPPLIES TO NEW INDIVIDUAL FIXTURES OR IN BANKS OF FIXTURES.

- UNITS.

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ARCHITECTS

PLUMBING EQUIPMENT AND FIXTURES

1. ALL PLUMBING EQUIPMENT AND FIXTURES SHALL BE NEW, COMPLETE WITH ALL TRIM AS SPECIFIED. APPROVAL CERTIFICATION BY MASSACHUSETTS IS REQUIRED.

2. FOR ALL EQUIPMENT AND FIXTURES, INSTALL AS PER MANUFACTURER'S INSTRUCTIONS. AS REQUIRED BY CODE, AND IN COMPLIANCE WITH CONDITIONS FOR CERTIFICATION (IF ANY). RETAIN ALL INFORMATION, MANUALS AND PARTS DIAGRAMS PACKAGED WITH THE

3. COORDINATE ALL RELATED ELECTRICAL WORK AND REQUIRED CONNECTIONS TO ACHIEVE AN OPERATIONAL SYSTEM. VERIFY THAT ELECTRICAL POWER HAS PROPER CHARACTERISTICS.

4. ALL EQUIPMENT SHALL BE UL TESTED AND APPROVED AND IF APPLICABLE SHALL HAVE NSF CERTIFICATION.

5. PLUMBING FIXTURES SHALL BE INSTALLED WITH TRIM, INCLUDING BUT NOT LIMITED TO, FAUCETS, CARRIERS, WATER SUPPLIES, SUPPLY STOPS, TRAPS, TAILPIECES, HARDWARE, HANGERS/SUPPORTS, AND FASTENING DEVICES.

6. PLUMBING FIXTURES AND TRIM SHALL BE OF THE MANUFACTURER LISTED ON THE DRAWINGS OR AN APPROVED EQUAL MEETING THE OPERATIONAL CHARACTERISTICS, FUNCTION, SIMILAR APPEARANCE AND QUALITY OF THE SPECIFIED ITEMS.

7. FOR ALL EXPOSED PIPING TO FIXTURES, PROVIDE CHROME PLATED PIPES, ESCUTCHEONS AT WALLS, SUPPLY TUBES AND SUPPLY STOPS. DRAIN PIPING SHALL BE MINIMUM 17 GA, CHROME PLATED CAST BRASS, P-TRAPS SHALL HAVE CLEANOUT PLUGS.

8. SEAL FIXTURES TO WALLS AND FLOOR WITH APPROVED SILICONE SEALANT, COLOR TO MATCH FIXTURE COLOR OR CLEAR.

9. UPON COMPLETION OF INSTALLATION OF PLUMBING EQUIPMENT AND FIXTURES, TEST TO DEMONSTRATE CAPABILITY AND COMPLIANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND CODES, FOR ALL EQUIPMENT, REPAIR OR REPLACE ANY MALFUNCTIONING EQUIPMENT OR FIXTURES AND RETEST.

10. ADJUST WATER PRESSURES THROUGH VALVES OR STOPS TO OBTAIN PROPER FLOW RATES AND PRESSURES REQUIRED.

11. UPON COMPLETION OF INSTALLATION OF EQUIPMENT OR FIXTURES, THOROUGHLY CLEAN ALL EXPOSED SURFACES, TRIM AND PIPING, FLUSH STRAINERS AND VERIFY FINAL OPERATION.

12. PROVIDE ALL WARRANTIES AND GUARANTEES TO THE OWNER WITH ALL NAMES, ESTABLISHED DATES, AND ANY ADDITIONAL INFORMATION REQUIRED FOR ENFORCEMENT. Suffield **Public** Schools

Ward Spaulding School Preschool Classroom Renovations

945 MOUNTAIN RD WEST SUFFIELD, CT 06093

CONSULTANTS

🖌 🖊 Design Associate MECHANICAL, ELECTRICAL, AND STRUCTURAL ENGINEERING 750 OLD MAIN STREET SUITE 202 ROCKY HILL, CT 06067 P: (860) 436-4336 F: (860) 436-4450 ww.rzdesignassociates.co

KEY PLAN

PROJECT DATA PROJECT NUMBER 20016 CURRENT SUBMISSION DATE 06.01.20 DRAWN RJ CHECKED RHR SCALE 1/8" = 1'-0" FILE REFERENCE BIM 360://20-121 Spaulding School/MEP_20-121 Spaulding School.rvt

HISTORY OF SUBMISSIONS



FOR CONSTRUCTION

SHEET TITLE

PLUMBING **SPECIFICATIONS**

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HVAC SYMBOLS

RECTANGULAR, FLAT OVAL OR ROUND AIR DUCT

EXHAUST AIR DUCT UP EXHAUST AIR DUCT DOWN

- INFORMATION SOURCE FOR CONSTRUCTION PURPOSES.
- ADDITIONAL INFORMATION.
- TRADES BEFORE COMMENCING WORK.
- 7. ALL SUPPLY RECTANGULAR 90° ELBOWS SHALL HAVE TURNING VANES.
- 8. ALL TOILETS & BATHROOMS SHALL HAVE 3/4" UNDERCUT DOORS.

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HVAC GENERAL NOTES

I. ALL WORK SHALL BE PERFORMED IN COMPLIANCE WITH CURRENT APPLICABLE CODES, ORDINANCES, THE REGULATORY AGENCIES HAVING JURISDICTION AND THE SPECIFICATIONS. THE SPECIFICATIONS MAY EXCEED THE REQUIREMENTS OF THE CODE, IN WHICH CASE, THE SPECIFICATION MUST BE FOLLOWED.

2. THE INTENT OF THESE DOCUMENTS IS FOR THE MEP TRADES TO FURNISH AND INSTALL COMPLETE MECHANICAL AND ELECTRICAL SYSTEMS. THE SPECIFIED HVAC SYSTEM SHALL BE COMPLETE IN ALL RESPECTS; OPERATIONAL, TESTED, ADJUSTED, APPROVED BY THE AUTHORITIES HAVING JURISDICTION AND READY FOR BENEFICIAL USE BY THE OWNER.

3. THE TRADES SHALL OBTAIN AND REVIEW ALL CONTRACT DOCUMENTS BEFORE SUBMITTING A BID. INFORMATION IS PROVIDED ON THE VARIOUS DRAWINGS, SCHEDULES, SPECIFICATIONS AND ALL OF THE VARIOUS DOCUMENTS IN THE BIDDING PACKAGE. THE CONTRACT DOCUMENTS ARE COMPLEMENTARY AND FORM A TOTAL PROJECT DESIGN AND

4. THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS AND WORK INCLUDED IN THE CONTRACT. COORDINATE LOCATIONS OF EQUIPMENT WITH OTHER TRADES BEFORE AND DURING CONSTRUCTION. ANY MODIFICATION TO THE EQUIPMENT LAYOUT, REQUIRED FOR INSTALLATION, IS TO BE PERFORMED UNDER THE CONTRACT AGREEMENT, AT NO ADDITIONAL COST. REFER TOP DETAILS, SCHEDULES AND SPECIFICATIONS FOR

5. THE CONTRACTOR SHALL BECOME THOROUGHLY FAMILIAR WITH THE PROJECT DOCUMENTS OF ALL TRADES. THE DRAWINGS ARE DIAGRAMMATIC AND SHOW THE GENERAL ARRANGEMENT OF EQUIPMENT AND PIPING. THE CONTRACTOR SHALL COORDINATE THE EXACT LOCATION OF EQUIPMENT AND PIPING INSTALLATION WITH ALL THE

6. WHERE A CONFLICT OCCURS BETWEEN THE DOCUMENTS, IT SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT. CARRY AS PART OF THE BID THE LARGER QUANTITY AND/OR MORE EXPENSIVE ITEM(S).

Suffield Public Schools

Ward Spaulding School Preschool Classroom Renovations

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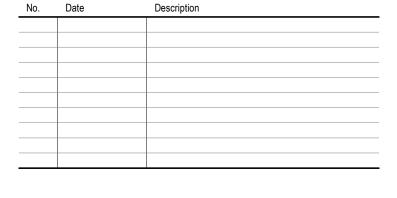
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KEY PLAN

PROJECT DATA PROJECT NUMBER 20016 CURRENT SUBMISSION DATE 06.01.20 DRAWN RJ CHECKED RHR SCALE 12" = 1'-0" FILE REFERENCE BIM 360://20-121 Spaulding School/MEP_20-121 Spaulding School.rvt

HISTORY OF SUBMISSIONS



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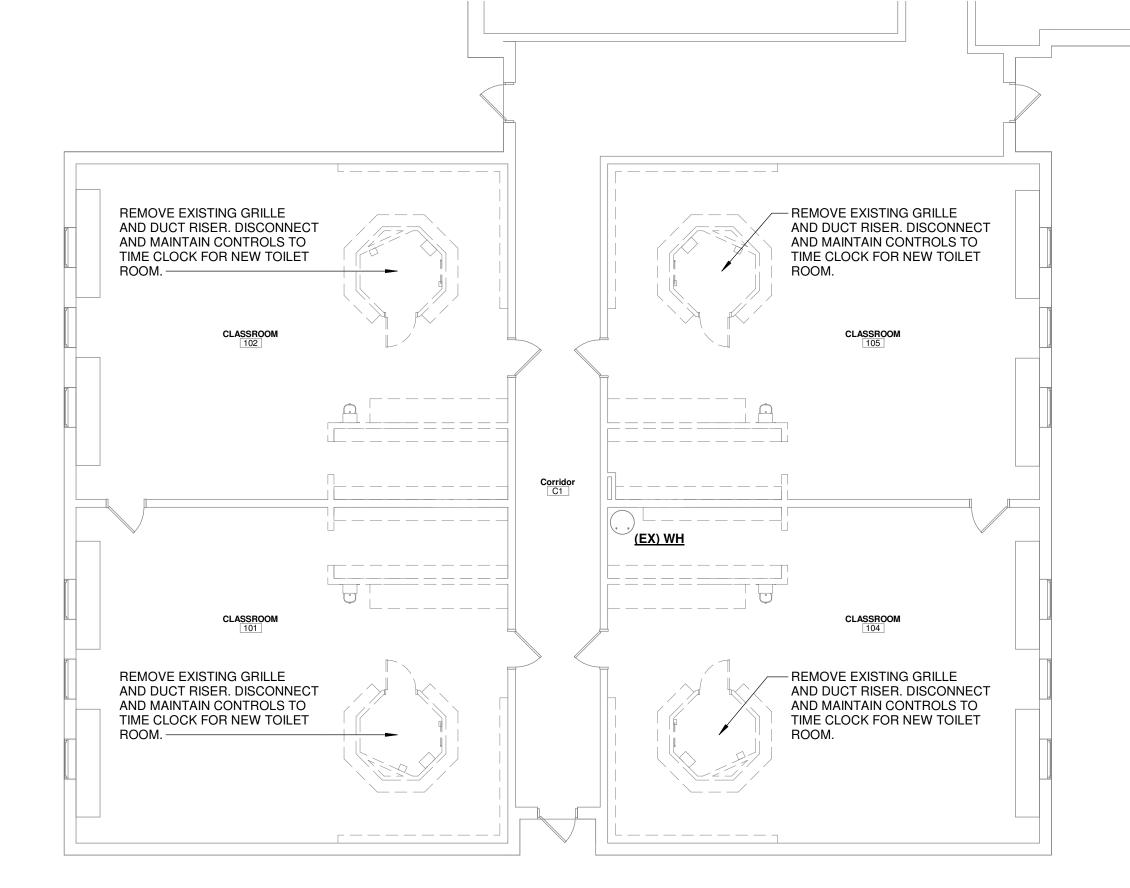
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MECHANICAL ABBREVIATIONS, GENERAL NOTES AND SYMBOL LIST

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1 FIRST FLOOR DEMOLITION PLAN



AMENTA EMMA

Suffield Public Schools

Ward Spaulding School Preschool Classroom Renovations

945 MOUNTAIN RD WEST SUFFIELD, CT 06093

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KEY PLAN

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HISTORY OF SUBMISSIONS

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FOR CONSTRUCTION

SHEET TITLE

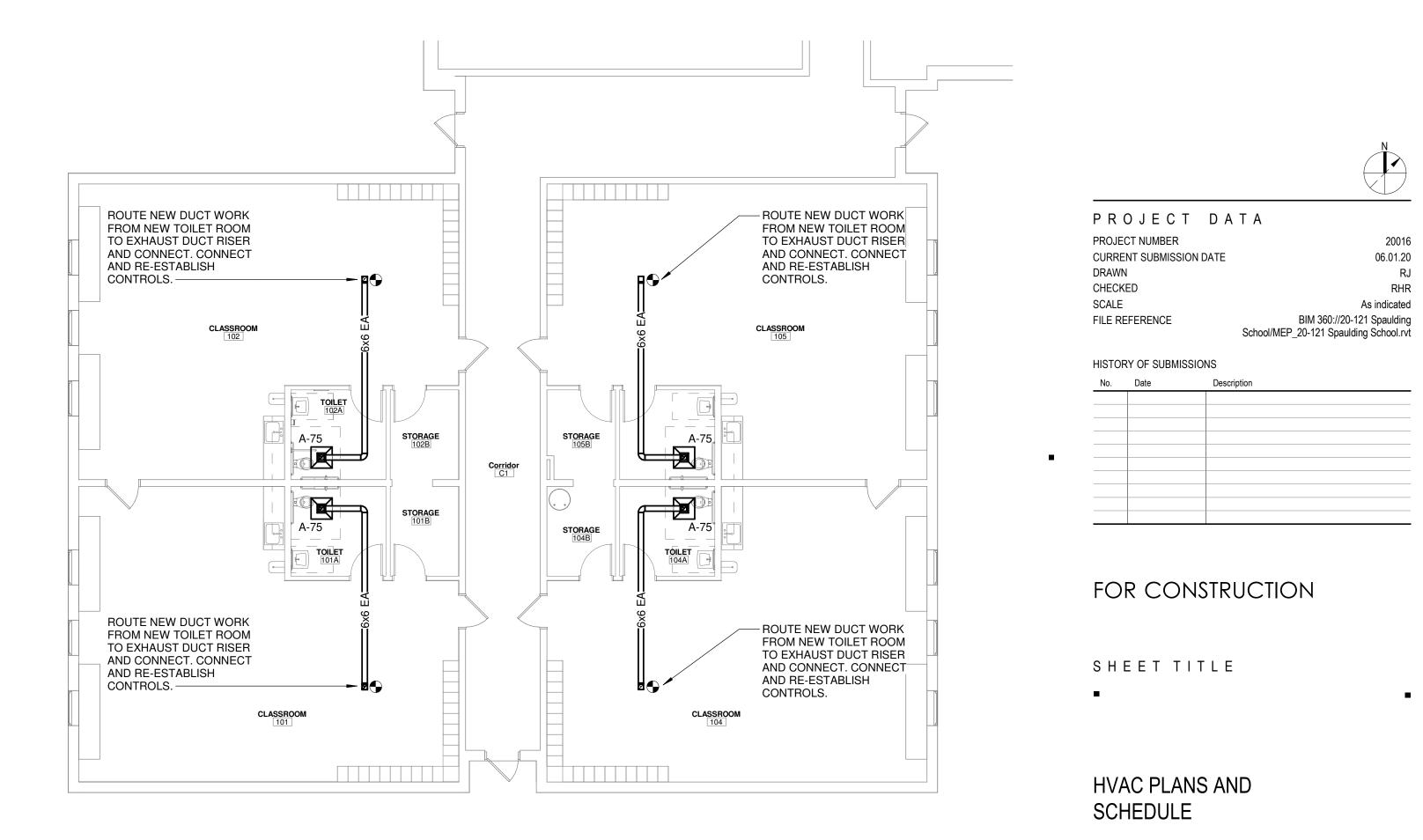
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MECHANICAL DEMOLITION PLAN

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		<u>GRILLES, DIFFUSE</u>	RS AND REGISTERS SCH	EDULE	
		(E	BASED ON PRICE)		
SEE ARCHITECTU	RAL DRAWINGS FOR CEIL	ING TYPES AND CONSTRU	CTION. SIZE AND CFM INDICATE	D ON MECHANICAL DRAW	INGS
A - MODEL 530 RETU	RN GRILLE, 45° FIXED LOU	VERS, 3/4" BLADE SPACING	A, 24X24 MODULE SIZE, LAY-IN BO	ORDER, STEEL CONSTRU	CTION, WHITE FINISH.
CEILING SUPPLY DIFFUSER TYPE A & A1 CEILING RETURN/EXHAUST DIFFUSER TYPE B & B1		FLEIXBLE DUCT SIZE			
CFM	NECK SIZE	CFM	NECK SIZE	CFM	NECK SIZE
0 - 100	6 X 6	0 - 100	6 X 6	0 - 45	4"Ø
101 - 225	9 X 9	101 - 150	8 X 8	50 - 70	5"Ø
226 - 400	12 X 12	151 - 250	10 X 10	71 - 100	6"Ø
401 - 625	15 X 15	251 - 350	12 X 12	101 - 150	8"Ø
626 - 900	18 X 18	351 - 500	14 X 14	151 - 225	9"Ø
		501 - 650	16 X 16	226 - 275	10"Ø
		651 - 800	18 X 18	276 - 400	12"Ø
		801 - 1200	22 X 22	401 - 500	14Ø
				501 - 700	16"Ø
				701 - 900	18"Ø
				901 - 1100	20"Ø
				1101 - 1300	22"Ø
				·	



1 FIRST FLOOR NEW WORK PLAN

AMENTA EMMA

Suffield Public Schools

Ward Spaulding School Preschool Classroom Renovations

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CONSULTANTS

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KEY PLAN

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M2.01

<u>GENERAL</u>

- 1. WHEN A CONFLICT BETWEEN THE DRAWINGS, NOTES AND/OR SPECIFICATIONS OCCUR, THE MORE STRINGENT, AND/OR LARGER QUANTITY AND/OR MORE EXPENSIVE SHALL APPLY. THE REQUIREMENTS LISTED WITHIN NOTES OR SPECIFICATIONS SHALL BE REQUIRED, PROVIDED AND INSTALLED WHETHER SPECIFICALLY INDICATED ON THE DRAWINGS OR NOT.
- 2. IT IS THE INTENTION OF THE SPECIFICATIONS AND DRAWINGS TO PROVIDE FOR FINISHED WORK, TESTED AND READY FOR OPERATION.
- 3. ITEMS AND SERVICES NOT SHOWN ON DRAWINGS OR SPECIFICATIONS BUT REQUIRED TO RENDER THE WORK COMPLETE AND READY FOR OPERATION, SHALL BE PROVIDED WITHOUT ADDITIONAL COST.
- WORK OF THIS SECTION SHALL BE GOVERNED BY THE CONTRACT DOCUMENTS PROVIDE MATERIALS, LABOR, EQUIPMENT AND SERVICES NECESSARY TO FURNISH, DELIVER AND INSTALL ALL WORK AS REQUIRED BY JOB CONDITIONS. WHERE A CONFLICT EXISTS BETWEEN THESE NOTES, THE DRAWINGS AND THE SPECIFICATIONS, THE MORE STRINGENT REQUIREMENT SHALL APPLY.
- DRAWINGS ARE DIAGRAMMATIC AND INDICATE A GENERAL ARRANGEMENT OF WORK AND ARE NOT TO BE CONSIDERED SUB-CONTRACTOR DOCUMENTS. IT IS THE INTENT OF THESE DOCUMENTS TO INCLUDE THE PROVISION AND INSTALLATION OF ALL NECESSARY WORK AND MATERIALS FOR COMPLETE, OPERATIONAL AND CODE COMPLIANT SYSTEMS BY THE CONTRACTOR. GENERAL DESIGN CONCEPTS INDICATED MUST BE FOLLOWED OR BETTERED. THE BID SHALL INCLUDE OFFSETS, ADDITIONAL PIPING, VALVES AND EQUIPMENT AND COMPONENTS AS REQUIRED TO MEET CONSTRUCTION CONDITIONS FOR PROPER OPERATION. DO NOT SCALE DRAWINGS. CONSULT ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR SPACE CONDITIONS AND ADDITIONAL REQUIREMENTS. DO NOT SCALE THE DRAWINGS.
- PERFORM THE WORK IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONTRACT GENERAL CONDITIONS AND IN COORDINATION WITH ALL OTHER TRADES. ALL WORK SHALL BE DONE IN CONFORMANCE AND PROVISIONS OF ALL APPLICABLE ADOPTED LOCAL, STATE AND FEDERAL CODES AND LAWS.
- CODES AND STANDARDS: · CONNECTICUT BUILDING CODE AND ALL SUPPLEMENTS
- IBC INTERNATIONAL BUILDING CODE
- · IEBC INTERNATIONAL EXISTING BUILDING CODE IMC INTERNATIONAL MECHANICAL CODE
- · IMP INTERNATIONAL PLUMBING CODE
- IECC INTERNATIONAL ENERGY CONSERVATION CODE NEC NATIONAL ELECTRICAL CODE / NFPA 70
- NFPA NFPA-101 FIRE SAFETY CODE
- ICC/ANSI A117.1 ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES 7. WORK SHALL INCLUDE ALL INCIDENTALS, LABOR, MATERIALS, EQUIPMENT.
- APPLIANCES, SERVICES, HOISTING, SCAFFOLDING, SUPPORTS, TOOLS, CONSUMABLE ITEMS, FEES, LICENSES, AND ADMINISTRATIVE TASKS REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM.
- 8. STORE MATERIALS INSIDE AND PROTECTED FROM DEBRIS, WEATHER AND MOISTURE.
- 9. THE CONTRACTOR SHALL EXAMINE THE DRAWINGS AND SPECIFICATIONS RELATING TO THE WORK OF ALL DIVISIONS AND TRADES AND BECOME FULLY FAMILIAR AND INFORMED AS TO THE EXTENT AND CHARACTER OF WORK REQUIRED, AND ITS RELATIONSHIP TO THE REQUIREMENTS OF THIS DIVISION INCLUDE ALL SUCH REQUIREMENTS AS PART OF THIS MECHANICAL WORK.
- 10. BEFORE SUBMITTING A BID, THE CONTRACTOR SHALL VISIT THE SITE, AND SHALL BECOME THOROUGHLY FAMILIAR WITH ALL CONDITIONS UNDER WHICH THE WORK WILL BE INSTALLED. THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR ANY ASSUMPTIONS, OMISSIONS OR ERRORS MADE AS A RESULT OF FAILURE TO BECOME FAMILIAR WITH THE SITE AND EXISTING BUILDING AND THE CONTRACT DOCUMENTS.

PERMITS AND FEES

1. THE CONTRACTOR SHALL GIVE ALL NECESSARY NOTICES, OBTAIN ALL PERMITS; AND PAY ALL GOVERNMENT AND STATE SALES TAXES AND FEES WHERE APPLICABLE, AND OTHER COSTS, INCLUDING UTILITY CONNECTIONS OR EXTENSIONS IN CONNECTION WITH THE WORK, FILE ALL NECESSARY DRAWINGS, PREPARE ALL DOCUMENTS AND OBTAIN ALL NECESSARY APPROVALS OF ALL GOVERNMENTAL AND STATE DEPARTMENTS HAVING JURISDICTION, OBTAIN ALL REQUIRED CERTIFICATES OF INSPECTIONS FOR HIS WORK, AND DELIVER A COPY TO THE OWNER'S REPRESENTATIVE BEFORE REQUEST FOR ACCEPTANCE AND FINAL PAYMENT FOR THE WORK. REFER TO THE SUPPLEMENTARY GENERAL CONDITIONS FOR INFORMATION ON WAIVING OF PERMIT FEES.

ALTERATION WORK AND DEMOLITION

- 1. ALL EQUIPMENT, DUCTWORK, PIPING, CONTROL DEVICES ETC ... TO BE REMOVED, SHALL BE DISPOSED OF, TURNED OVER TO THE OWNER, OR SALVAGED AS DIRECTED BY THE OWNER. EQUIPMENT, DUCTWORK, PIPING, CONTROL DEVICES, ETC. SHALL NOT BE REMOVED FROM THE PREMISES WITHOUT THE OWNERS APPROVAL. REMOVE ALL EXISTING COMPONENTS REQUIRED TO MEET THE FUNCTIONAL INTENT OF THE DESIGN DRAWINGS.
- 2. NO DEAD ENDS SHALL BE LEFT ON ANY DUCTWORK AND PIPING SYSTEMS UPON COMPLETION OF WORK. ALL DUCTWORK AND PIPING BEING REMOVED SHALL BE PROPERLY VALVED AND CAPPED AT THE MAINS.
- 3. ALL SYSTEMS SHALL BE LEFT IN WORKING ORDER TO THE SATISFACTION OF THE OWNER UPON COMPLETION OF ALL NEW WORK.
- 4. CONDUCT SELECTIVE DEMOLITION WORK IN A MANNER THAT WILL MINIMIZE NEED FOR DISRUPTION OF NORMAL OPERATIONS IN OTHER AREAS OF THE BUILDING. PROVIDE MINIMUM OF 48 HOURS ADVANCE NOTICE TO OWNER OF DEMOLITION OR SYSTEM SHUTDOWN ACTIVITIES THAT WILL AFFECT NORMAL OPERATIONS IN THE BUILDING OR REQUIRE THE INTERRUPTION OF UTILITY SERVICES.
- DRAINING OF PIPING SYSTEMS: WHERE EXISTING PIPING SYSTEMS REQUIRE DRAINING OF FLUIDS FROM EQUIPMENT AND PIPING, ALL DRAINAGE SHALL BE DIRECTED BY HOSE OR PIPE TO SUITABLE, FREE FLOWING DRAINS OR SUITABLE CONTAINERS. DO NOT ALLOW EXCESSIVE FLUID/WATER BUILDUP ON FLOORS OR SITE AREA. ENSURE THAT EXISTING DRAINS ARE KEPT CLEAR OF DEBRIS TO PREVENT BLOCKAGES.
- 6. CERTAIN ITEMS OF EXISTING EQUIPMENT AND PIPING OR DUCTWORK MAY BE INDICATED FOR REMOVAL, RELOCATION OR ABANDONMENT. ITEMS NOTED FOR REMOVAL SHALL BE DISCONNECTED AND DISPOSED OF BY THE CONTRACTOR OR TURNED OVER TO THE OWNER IF THE OWNER SO REQUESTS. IF INSTRUCTED TO DISPOSE OF ITEMS, THE CONTRACTOR SHALL REMOVE THE ITEMS FROM THE PREMISES AND DISPOSE OF THEM IN A SAFE, LEGAL AND RESPONSIBLE MANNER AND LOCATION. ITEMS NOTED FOR RELOCATION ARE INTENDED FOR REUSE IN ANOTHER LOCATION AS DESIGNATED ON THE DRAWINGS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REMOVE THE MATERIAL FROM ITS PRESENT LOCATION, STORE THE MATERIAL IN A SAFE PLACE, AND REINSTALL THE MATERIAL IN ITS NEW LOCATION. QUESTIONS REGARDING THE SUITABILITY OF THE MATERIAL OR EQUIPMENT SHALL BE BROUGHT, IN WRITTEN FORM, TO THE ATTENTION OF THE OWNER/ENGINEER. ABANDONMENT SHALL BE DEFINED AS LEAVING IN PLACE ANY ITEM SO DESIGNATED AND SHALL INCLUDE PROPER PIPING OR DUCTWORK TERMINATION WITHIN ANY OCCUPIED OR OPEN AREA. ALL ABANDONED PIPES AND DUCTS SHALL BE DISCONNECTED AND CAPPED AT THEIR MAINS

COORDINATION WITH OTHER DIVISIONS

- 1. ALL WORK SHALL BE CARRIED OUT IN CONJUNCTION WITH OTHER TRADES AND FULL COOPERATION SHALL BE GIVEN IN ORDER THAT ALL WORK MAY PROCEED WITH A MINIMUM OF DELAY AND INTERFERENCE. PARTICULAR EMPHASIS IS PLACED ON TIMELY INSTALLATION OF MAJOR APPARATUS AND FURNISHING OTHER CONTRACTORS, ESPECIALLY THE CONSTRUCTION MANAGER, WITH INFORMATION AS TO OPENINGS, CHASES, SLEEVES, BASES, INSERTS, EQUIPMENT LOCATIONS, PANELS, ETC., REQUIRED BY OTHER TRADES.
- THE CONTRACTORS ARE REQUIRED TO EXAMINE ALL OF THE PROJECT DRAWINGS, INCLUDING THE SITE, ARCHITECTURAL, STRUCTURAL AND THOSE OF OTHER MECHANICAL AND ELECTRICAL TRADES AND MUTUALLY ARRANGE WORK SO AS TO AVOID INTERFERENCE WITH THE WORK OF OTHER TRADES AND / OR EXISTING SYSTEMS AND EQUIPMENT. IN GENERAL, DUCTWORK, HEATING PIPING, SPRINKLER PIPING AND DRAINAGE LINES TAKE PRECEDENCE OVER WATER, GAS AND ELECTRICAL CONDUITS. THE ENGINEER SHALL MAKE FINAL DECISIONS REGARDING THE ARRANGEMENT OF WORK WHICH CANNOT BE AGREED UPON BY THE CONTRACTORS.
- WHERE THE WORK OF THE CONTRACTOR WILL BE INSTALLED IN CLOSE PROXIMITY TO OR WILL INTERFERE WITH WORK OF OTHER TRADES, THE CONTRACTORS WILL COOPERATE IN WORKING OUT SPACE CONDITIONS TO MAKE A SATISFACTORY ADJUSTMENT.
- IF THE WORK UNDER A SECTION IS INSTALLED BEFORE COORDINATING WITH OTHER DIVISIONS OR SECTIONS OR SO AS TO CAUSE INTERFERENCE WITH WORK OF OTHER SECTIONS, THE NECESSARY CHANGES TO CORRECT THE CONDITION SHALL BE MADE BY THE CONTRACTOR CAUSING THE INTERFERENCE WITHOUT EXTRA CHARGE TO THE OWNER.

<u>SHUT DOWNS</u>

- WHEN INSTALLATION OF A NEW SYSTEM REQUIRES THE TEMPORARY SHUTDOWN OF AN EXISTING OPERATING SYSTEM, THE CONNECTION OF THE NEW SYSTEM SHALL BE PERFORMED AT SUCH TIME AS DESIGNATED BY THE ENGINEER OR THE OWNER'S REPRESENTATIVE.
- 2. THE ENGINEER AND THE OWNER SHALL BE NOTIFIED OF THE ESTIMATED DURATION OF THE SHUTDOWN PERIOD AT LEAST THREE (3) DAYS IN ADVANCE OF THE DATE THE WORK IS TO BE PERFORMED.
- WORK SHALL BE ARRANGED FOR CONTINUOUS PERFORMANCE WHENEVER POSSIBLE. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY LABOR, INCLUDING OVERTIME IF REQUIRED. TO ASSURE THAT EXISTING OPERATING SERVICES WILL BE SHUT DOWN ONLY DURING THE TIME ACTUALLY REQUIRED TO MAKE NECESSARY CONNECTIONS.

ELECTRICAL CONNECTIONS

- 1. UNLESS OTHERWISE SPECIFIED, ALL WIRING SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH DIVISION 26.
- ALL POWER WIRING SHALL BE FURNISHED AND INSTALLED UNDER DIVISION 26 COMPLETE FROM POWER SOURCE TO MOTOR OR EQUIPMENT JUNCTION BOX INCLUDING POWER WIRING THROUGH THE STARTERS. ALL STARTERS NOT FACTORY MOUNTED ON EQUIPMENT SHALL BE MOUNTED UNDER THE SPECIFICATION SECTION FURNISHING THE STARTER.
- 3. THE MECHANICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL TEMPERATURE CONTROL WIRING, INTERLOCK WIRING AND EQUIPMENT CONTROL WIRING FOR THE EQUIPMENT FURNISHED UNDER THIS DIVISION.
- UNLESS OTHERWISE SPECIFIED, THE MECHANICAL CONTRACTOR SHALL FURNISH STARTERS AND/OR DISCONNECTS TO THE ELECTRICAL CONTRACTOR FOR EQUIPMENT PROVIDED. THE MECHANICAL CONTRACTOR SHALL PROVIDE AND BE RESPONSIBLE FOR THE PROPER SIZED OVERLOAD HEATERS IN ALL STARTERS THAT HE FURNISHES.

SHOP DRAWINGS

- 1. PRIOR TO DELIVERY TO THE JOBSITE AND SUFFICIENTLY IN ADVANCE TO ALLOW THOROUGH REVIEW, THE CONTRACTOR SHALL SUBMIT, FOR REVIEW, DETAILED SHOP DRAWINGS OF ALL EQUIPMENT AND MATERIAL SPECIFIED IN EACH SECTION AND COORDINATED DUCTWORK LAYOUTS. ALL DUCTWORK SHOP DRAWINGS. AUTOMATIC TEMPERATURE CONTROLS AND ALL DIAGRAMS AND RISERS SHALL BE SUBMITTED IN HARD COPY FORMAT. NO MATERIAL OR EQUIPMENT MAY BE DELIVERED TO THE JOB SITE OR INSTALLED UNTIL THE CONTRACTOR HAS RECEIVED SHOP DRAWINGS FOR THE PARTICULAR MATERIAL OR EQUIPMENT WHICH HAVE BEEN PROPERLY REVIEWED.
- 2. SHOP DRAWINGS SHALL BE SUBMITTED WITHIN 30 DAYS AFTER AWARD OF CONTRACT BEFORE ANY MATERIAL OR EQUIPMENT IS PURCHASED. THE CONTRACTOR SHALL SUBMIT FOR REVIEW COPIES OF ALL SHOP DRAWINGS TO BE INCORPORATED IN THE MECHANICAL CONTRACT. REFER TO THE GENERAL CONDITIONS AND SUPPLEMENTARY GENERAL CONDITIONS FOR THE QUANTITY OF COPIES REQUIRED FOR SUBMISSION. WHERE QUANTITIES ARE NOT SPECIFIED, PROVIDE SEVEN (7) COPIES FOR REVIEW.
- PROVIDE SHOP DRAWINGS FOR ALL DEVICES SPECIFIED ON DRAWINGS IN EQUIPMENT SCHEDULES AND FOR ALL SYSTEMS INCLUDING DUCTWORK, PIPING, CONTROLS, ETC., OR WHERE CALLED FOR ELSEWHERE IN THE SPECIFICATIONS. SHOP DRAWINGS SHALL INCLUDE MANUFACTURERS' NAMES. CATALOG NUMBERS, CUTS, WIRING AND PIPING DIAGRAMS AND OTHER SUCH DESCRIPTIVE DATA AS MAY BE REQUIRED TO IDENTIFY AND ACCEPT THE EQUIPMENT, CERTIFIED DIMENSIONAL DRAWINGS, ACCURATE LAYOUT AND ARRANGEMENT DRAWINGS, LOCATIONS AND SIZES OF ALL CONNECTIONS, AND EQUIPMENT WEIGHTS ALL PERFORMANCE DATA REQUIRED TO VERIFY THE EQUIPMENT'S SUITABILITY SHALL BE CLEARLY PRESENTED. A COMPLETE LIST IN EACH CATEGORY (EXAMPLE: ALL DIFFUSERS) OF ALL SHOP DRAWINGS, CATALOG CUTS, MATERIAL LISTS, ETC., SHALL BE SUBMITTED TO THE ENGINEER AT ONE TIME. NO CONSIDERATION WILL BE GIVEN TO A PARTIAL SHOP DRAWING SUBMITTAL.
- A. EQUIPMENT SHOP DRAWINGS SHALL CONTAIN FULL RANGE PERFORMANCE CURVES, GRAPHS, TABLES OR OTHER PERTINENT DATA WHICH CLEARLY INDICATES OPERATIONAL RANGE OF A GIVEN UNIT SIZE. COMPUTER GENERATED/PLOTTED CURVES OR INFORMATION, BASED SOLELY ON THE DESIGN PERFORMANCE, WILL NOT BE ACCEPTED.
- B. ALL SUBMITTALS OF EQUIPMENT FURNISHED WITH MOTORS SHALL CONTAIN A COMPLETE DESCRIPTION OF THE MOTOR'S OPERATING CHARACTERISTICS (HORSEPOWER, VOLTAGE, PHASE, SERVICE FACTOR) AND THE NAMEPLATE MOTOR EFFICIENCY.
- C. SHOP DRAWING SUBMITTAL SHEETS WHICH MAY SHOW ITEMS THAT ARE NOT BEING FURNISHED SHALL HAVE THOSE ITEMS CROSSED OFF IN INK TO CLEARLY INDICATE WHICH ITEMS WILL BE FURNISHED AND WHICH WILL NOT BE FURNISHED.
- 4. ACCEPTANCE RENDERED ON SHOP DRAWINGS SHALL NOT BE CONSIDERED AS A GUARANTEE OF MEASUREMENTS OR BUILDING CONDITIONS. WHERE DRAWINGS ARE REVIEWED, REVIEW DOES NOT MEAN THAT DRAWINGS HAVE BEEN CHECKED IN DETAIL; SAID APPROVAL DOES NOT IN ANY WAY RELIEVE THE CONTRACTOR FROM HIS RESPONSIBILITY OR NECESSITY OF FURNISHING MATERIAL OR PERFORMING WORK AS REQUIRED BY THE CONTRACT DRAWINGS AND SPECIFICATIONS. VERIFY AVAILABLE SPACE PRIOR TO SUBMITTING SHOP DRAWINGS. ACCEPTANCE OF SHOP DRAWINGS SHALL NOT APPLY TO QUANTITY NOR RELIEVE CONTRACTOR OF HIS RESPONSIBILITY TO COMPLY WITH INTENT OF DRAWINGS AND SPECIFICATIONS.

AS-BUILT DRAWINGS

- 1. PROVIDE A COMPLETE SET OF AS-BUILT DRAWINGS REFLECTING AS INSTALLED CONDITIONS. AS-BUILT DRAWINGS SHALL INDICATE ALL INSTALLED CONDITIONS OF SYSTEMS WITHIN THIS DISCIPLINE. DRAWINGS SHALL BE OF SIMILAR SCALE AS THE CONSTRUCTION DOCUMENTS AND INCLUDE DETAILS AS NECESSARY TO CLEARLY REFLECT THE INSTALLED CONDITION. DRAWINGS SHALL BE BOUND IN A COMPLETE AND CONSECUTIVE SET. SUPPLEMENTAL SKETCHES AND LOOSE PAPERWORK WILL NOT BE ACCEPTABLE AND WILL BE RETURNED FOR REVISION. THE CONTRACTOR SHALL COMPLY WITH THE ENGINEERS COMMENTS TO PRODUCE A CLEAR AND CONCISE SET OF DRAWINGS. DRAWINGS SHALL BE SUBMITTED IN BOTH HARD COPY AND ELECTRONIC (AUTO-CAD VERSION AS REQUIRED BY THE OWNER) VERSION. NUMBER OF COPIES OF EACH AS REQUESTED BY THE OWNER.
- 2. PROVIDE "AS-BUILT DRAWINGS" INDICATING IN A NEAT AND ACCURATE MANNER A COMPLETE RECORD OF ALL REVISIONS OF THE ORIGINAL DESIGN OF THE WORK. INDICATE THE FOLLOWING INSTALLED CONDITIONS:
- A. INCLUDE ALL CHANGES AND AN ACCURATE RECORD, ON REPRODUCTIONS OF THE CONTRACT DRAWINGS OR APPROPRIATE SHOP DRAWINGS, OF ALL DEVIATIONS, BETWEEN THE WORK SHOWN AND THE WORK INSTALLED.
- B. MAINS AND BRANCHES OF PIPING SYSTEMS, WITH VALVES AND CONTROL DEVICES LOCATED AND NUMBERED, CONCEALED UNIONS LOCATED, AND WITH ITEMS REQUIRING MAINTENANCE LOCATED (I.E. TRAPS, STRAINERS, EXPANSION COMPENSATORS, TANKS, ETC...) VALVE LOCATION DIAGRAMS, COMPLETE WITH VALVE TAG CHART.
- C. EQUIPMENT LOCATIONS (EXPOSEED AND CONCEALED), DIMENSIONED FROM PROMINENT BUILDING LINES.
- D. APPROVED SUBSTITUTIONS, CONTRACT MODIFICATIONS, AND ACTUAL EQUIPMENT AND MATERIALS INSTALLED.
- E. CONTRACT MODIFICATIONS, ACTUAL EQUIPMENT AND MATERIALS INSTALLED.
- 3. SUBMIT FOR REVIEW BOUND SETS OF THE REQUIRED DRAWINGS, MANUALS AND OPERATING INSTRUCTIONS.
- 4. SUBMIT A COMPLETE MAINTENANCE MANUAL OF ALL EQUIPMENT INSTALLED UNDER THIS CONTRACT.

HANGERS AND SUPPORT

- 1. SEISMIC RESTRAINT: PROVIDE SEISMIC RESTRAINT AND EXPANSION OF ALL MECHANICAL EQUIPMENT AND SYSTEMS IN ACCORDANCE WITH STATE AND LOCAL BUILDING CODE REQUIREMENTS. SUBMIT SHOP DRAWINGS SIGNED AND SEALED BY A LICENSED PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF THE PROJECT INDICATING ALL NECESSARY COMPONENT CUTS, PLAN LOCATIONS AND CALCULATIONS FOR A COMPLETE SYSTEM.
- 2. PROVIDE ALL NECESSARY STRUCTURAL MEMBERS INCLUDING ADDITIONAL STRUCTURAL SUPPORT TO SUPPORT PIPING AND EQUIPMENT. HANGERS AND SUPPORTS SHALL BE OF AN APPROVED DESIGN NECESSARY TO SUPPORT DUCTWORK, PIPING EQUIPMENT AND TO KEEP IN PROPER ALIGNMENT AND PREVENT TRANSMISSION OF INJURIOUS THRUSTS AND VIBRATIONS. IN ALL CASES WHERE HANGERS, BRACKETS, ETC. ARE SUPPORTED FROM CONCRETE CONSTRUCTION. DO NOT WEAKEN CONCRETE OR PENETRATE WATERPROOFING ALL HANGERS AND SUPPORTS SHALL BE CAPABLE OF SCREW ADJUSTMENT AFTER PIPING IS ERECTED. HANGERS SUPPORTING PIPING EXPANDING INTO LOOPS. BENDS, AND OFFSETS SHALL BE SECURED TO THE BUILDING STRUCTURE IN SUCH A MANNER THAT HORIZONTAL ADJUSTMENT PERPENDICULAR TO THE RUN OF PIPING SUPPORTED MAY BE MADE TO ACCOMMODATE DISPLACEMENT DUE TO EXPANSION. ALL SUCH HANGERS SHALL BE FINALLY ADJUSTED BOTH IN THE VERTICAL AND HORIZONTAL DIRECTION, AS REQUIRED. HANGERS IN CONTACT WITH COPPER OR BRASS PIPE SHALL BE DIELECTRIC, COMPATIBLE WITH COPPER AND BRASS ALLOY OR PROVIDED WITH FELT SLEEVE.
- 3. PROVIDE ADDITIONAL SUPPORT FOR DUCTWORK, PIPING AND EQUIPMENT WHEN DECK IS NOT CAPABLE OF SUPPORT.
- 4. BEAM CLAMPS HANGERS SUPPORTED FROM STEEL SHALL BE CENTER LOADING BEAM CLAMPS FOR HANGERS SUPPORTING PIPING 2 INCHES FOR 2-1/2 INCHES AND LARGER, I BEAM CLAMPS SHALL BE FORGED STEEL. "C" CLAMPS ARE NOT TO BE USED
- 5. PROVIDE AND INSTALL EXPANSION COMPENSATION FOR ALL PIPING. SUBMIT PLANS, CALCULATIONS AND EQUIPMENT DATA.

DUCTWORK

- 1. DUCTWORK SHALL BE FABRICATED FROM HOT-DIPPED GALVANIZED STEEL SHEET CONFORMING TO ASTM A653, WITH G60 COATING. EXHAUST DUCTWORK SERVING TOILET/SHOWER SPACES SHALL BE ALUMINUM SHEET ALLOY 3003-H14, ASTM B 209, ALUMINUM CONNECTORS AND BAR STOCK: ALLOY 6061-T6 OR OF EQUIVALENT STRENGTH.
- 2. MANUFACTURED METAL DUCTWORK AND FITTINGS SHALL BE BY LINDAB, SEMCO OR UNITED McGILL CORP. FLAT OVAL AND ROUND DUCTS: MACHINE MADE FROM SPIBAL LOCKSEAM DUCT WITH LIGHT REINFORCING CORRUGATIONS: FITTINGS MANUFACTURED OF AT LEAST TWO GAUGES HEAVIER THAN METAL DUCT.
- 3. FABRICATE, SUPPORT, INSTALL AND SEAL IN ACCORDANCE WITH SMACNA HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE, AND AS INDICATED. PROVIDE DUCT MATERIAL, GAUGES, REINFORCING AND SEALING FOR OPERATING PRESSURES INDICATED.
- 4. INSULATED FLEXIBLE DUCTS SHALL BE FABRICATED FROM MULTIPLE LAYERS OF ALUMINUM LAMINATE SUPPORTED BY HELICALLY WOUND SPRING STEEL WIRE WITH FIBERGLASS INSULATION AND POLYETHYLENE VAPOR BARRIER. PRESSURE RATING SHALL BE 10 INCH W.G. POSITIVE AND 1.0 INCH W.G. NEGATIVE. FLEXIBLE DUCTS SHALL NOT PASS THROUGH WALLS NOR EXCEED 8 FEET IN LENGTH. SECURE TO DUCT TAP WITH CLAMP OR DRAWBAND. PROPERLY SUPPORT SO AS NOT TO SAG OR KINK.
- 5. JOINT SEALERS AND SEALANTS SHALL BE NON-HARDENING, WATER, MILDEW AND MOLD RESISTANT. MAXIMUM FLAME SPREAD OF 25, SMOKE DEVELOPED OF 50 WHEN TESTED IN ACCORDANCE WITH ASTM E84.
- 6. PROVIDE AIR FOIL TURNING VANES WHEN RECTANGULAR ELBOWS MUST BE USED.
- 7. ACCESS DOORS SHALL BE PROVIDED UNDER THIS SECTION AS REQUIRED TO PROVIDE ACCESS TO FIRE AND SMOKE DAMPERS, CONTROLS, HUMIDIFIERS, COILS VALVES, ETC., WHICH ARE LOCATED IN DUCTS.
- 8. ON ALL AIR HANDLING EQUIPMENT INCLUDING AIR HANDLERS, ERV UNITS, UTILITY AND CABINET FANS, FURNISH AND INSTALL FLEXIBLE DUCT CONNECTORS TO ISOLATE FAN VIBRATION FROM THE DUCT SYSTEM. (EXCEPTION: AIR HANDLING UNITS WITH INTERNAL FAN VIBRATION ISOLATORS AND FLEXIBLE CONNECTORS INSTALLED BETWEEN FAN AND HOUSING.)
- 9. ACCESSORY DUCTWORK MATERIALS SUCH AS TAPES, SEALANTS, FASTENERS, ETC., SHALL COMPLY WITH NFPA 90A WITH A MAXIMUM FLAME SPREAD RATING OF 25 AND A MAXIMUM SMOKE DEVELOPED RATING OF 50, AND SHALL BE SMACNA AND UL APPROVED.

DUCTWORK INSULATION

1. FACED FIBERGLASS DUCT WRAP SHALL BE APPLIED EXTERNALLY TO ALL CONCEALED DUCTS IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS. DUCT WRAP TO BE 1.5 PCF DENSITY WITH K VALUE OF 0.27 AT 75 DEG F, EQUAL TO OWENS CORNING TYPE 100 OR EQUIVALENT.

2. APPLY RIGID BOARD INSULATION TO ALL EXPOSED DUCTWORK AND PLENUMS ETC., BY USING MECHANICAL, WELD-TYPE PIN FASTENERS. FASTENERS SHALL BE SPOTTED NOT LESS THAN 3 INCHES FROM THE EDGE OF THE DUCT AND ON 12-INCH CENTERS THROUGHOUT THE AREA OF THE DUCT. RIGID BOARD INSULATION SHALL BE 6.0 PCF DENSITY WITH K VALUE OF 0.22 AT 75 DEG F, EQUAL TO OWENS CORNING TYPE 705 OR EQUIVALENT.

3. APPLY 1" ACOUSTICAL DUCT LINER AND LINER BOARD TO THE INSIDE OF DUCTS AND PLENUMS AS SPECIFIED AND AS CALLED FOR ON DRAWINGS. ACOUSTICAL LINER SHALL BE 2.0 PCF DENSITY WITH K VALUE OF 0.26 AT 75 DEG F, EQUAL TO MANVILLE PERMACOTE LINACOUSTIC-HP OR EQUIVALENT.

THE FOLLOWING DUCTS SHALL BE INSULATED WITH KRAFT FOIL FACED DUCT WRAP INSULATION IN SUFFICIENT THICKNESS TO MEET THE REQUIREMENTS OF THE 2015 INTERNATIONAL ENERGY CODE:

A. ALL CONCEALED SUPPLY AIR AND RETURN AIR DUCTWORK ABOVE CEILINGS WHETHER LINED OR UNLINED.

B. ALL OUTDOOR AIR DUCTWORK.

C. ALL EXHAUST DUCTWORK ON COLD SIDE OF BACKDRAFT OR MOTORIZED DAMPERS.

5. PROVIDE 1" ACOUSTICAL DUCT LINER ON FIRST 10' OF SUPPLY AIR DISCHARGE AND RETURN AIR INLET DUCTS OF ALL AIR HANDLING UNITS.

REGISTERS, GRILLES AND DIFFUSERS

REGISTERS, GRILLES AND DIFFUSERS SHALL BE AS SCHEDULED ON THE DRAWINGS. FINISH SHALL BE AS SELECTED BY THE ARCHITECT.

2. INSTALL IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

3. CHECK LOCATIONS OF OUTLETS AND INLETS AND MAKE NECESSARY ADJUSTMENTS IN POSITION TO CONFORM WITH ARCHITECTURAL FEATURES SYMMETRY AND LIGHTING ARRANGEMENT. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR LOCATIONS OF REGISTERS, GRILLS AND DIFFUSERS.

INSTALL DIFFUSERS TO DUCTWORK WITH AIR TIGHT CONNECTION.PAINT INSIDE OF DUCT CONNECTION TO REGISTERS AND DIFFUSERS BLACK FOR A DISTANCE OF 18" WHEREVER SHINY SHEETMETAL IS VISIBLE FORM THE OCCUPIED SPACE.

PROVIDE BALANCING DAMPERS ON DUCT TAKE-OFFS TO DIFFUSERS, GRILLES AND REGISTERS, DESPITE WHETHER DAMPERS ARE SPECIFIED AS PART OF THE DIFFUSER, GRILLE OR REGISTER ASSEMBLY.

TESTING, ADJUSTING AND BALANCING

AFTER COMPLETION OF THE WORK, BUT BEFORE SUBSTANTIAL COMPLETION, TEST, ADJUST AND BALANCE ALL AIR AND WATER SYSTEMS IN ACCORDANCE WITH EITHER AABC, NEBB, OR TABB STANDARDS.

TESTING AND BALANCING CONTRACTORS SHALL BE CERTIFIED BY EITHER AABC, NEBB OR TABB.

AIR HANDLING SYSTEMS SHALL BE BALANCED TO WITHIN PLUS OR MINUS 5 PERCENT OF DESIGN FOR SUPPLY SYSTEMS AND PLUS OR MINUS 10 PERCENT FOR RETURN AND EXHAUST SYSTEMS.

AIR OUTLETS AND INLETS SHALL BE BALANCED TO WITHIN PLUS 10 PERCENT AND MINUS 5 PERCENT OF DESIGN TO SPACE. ADJUST OUTLETS AND INLETS IN SPACE TO WITHIN PLUS OR MINUS 10 PERCENT OF DESIGN.

ADJUST HYDRONIC SYSTEMS TO WITHIN PLUS OR MINUS 10 PERCENT OF DESIGN. PERMANENTLY MARK SETTINGS OF VALVES, DAMPERS, AND OTHER ADJUSTMENT

DEVICES ALLOWING SETTINGS TO BE RESTORED. SET AND LOCK MEMORY STOPS.

SUBMIT FINAL REPORT INDICATING DESIGN VERSUS FINAL PERFORMANCE NOTABLE CHARACTERISTICS OF THE SYSTEM; DESCRIPTION OF SYSTEMS OPERATION SEQUENCE; TEST CONDITIONS; AND A LIST OF INSTRUMENTS USED. FINAL REPORT SHALL BE SUBMITTED PRIOR TO SUBSTANTIAL COMPLETION OF THE PROJECT.

AMENTA EMMA

ARCHITECTS

Suffield Public Schools

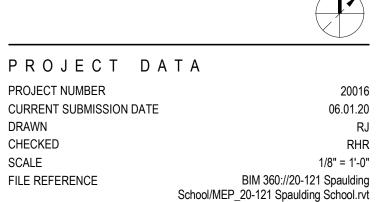
Ward Spaulding School Preschool Classroom Renovations

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KEY PLAN



HISTORY OF SUBMISSIONS



FOR CONSTRUCTION

SHEET TITLE

MECHANICAL SPECIFICATIONS

ELECTRICAL SYMBOL LIST

NOTE: ALL	MOUNTING HEIGHTS GIVEN ARE TO CENTERLINE OF DEVICE UNLESS NOTED OTHERWISE.
SYMBOL	DESCRIPTION
	RECESSED 2'X4' LIGHT FIXTURE
	RECESSED 2'X2' LIGHT FIXTURE
	WALL MOUNTED LIGHT FIXTURE
4_4	EMERGENCY BATTERY UNIT WITH TWO DIRECTIONAL HEADS - DUAL LITE MODEL #EZ-2
S	SINGLE POLE TOGGLE SWITCH
S₃	THREE WAY TOGGLE SWITCH
S _{os}	WALL MOUNTED OCCUPANCY SENSOR
OS OS	CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR
-	GROUNDED DUPLEX RECEPTACLE
⇒GFI	GROUNDED DUPLEX GFI RECEPTACLE
	FIRE ALARM VISUAL ONLY INDICATING UNIT - MOUNT AT 6'-6" A.F.F.
CLG	FIRE ALARM VISUAL ONLY INDICATING UNIT - CEILING MOUNTED
	FIRE ALARM SPEAKER/VISUAL INDICATING UNIT - MOUNT AT 6'-6" A.F.F.
Ś	FIRE ALARM SMOKE DETECTOR
⊢∕È>	EMERGENCY "CALL-FOR-AID" BUZZER/LIGHT. LOCAL OUTPUT ONLY
Sa	EMERGENCY "CALL-FOR-AID" SWITCH - WITH PULL CORD. COORDINATE EXACT MOUNTING HEIGHT WITH ARCHITECTURAL DRAWINGS.
\bigcirc	MOTOR
	BRANCH CIRCUIT WIRING
	BRANCH CIRCUIT FEEDER
ELECTRICAL LEGEN 1. ALL SYMBOLS MA	

ELECTRICAL GENERAL NOTES

OWNER.

NOTED.

ALLOWED.

ABOVE CEILINGS.

ON PLAN.

ETC.

1. ALL WORK SHALL BE PERFORMED IN COMPLIANCE WITH CURRENT APPLICABLE CODES, ORDINANCES, THE REGULATORY AGENCIES HAVING JURISDICTION AND THE SPECIFICATIONS. THE SPECIFICATIONS MAY EXCEED THE REQUIREMENTS OF THE CODE, IN WHICH CASE, THE SPECIFICATION MUST BE FOLLOWED.

2. THE INTENT OF THESE DOCUMENTS IS FOR THE MEP TRADES TO FURNISH AND INSTALL COMPLETE MECHANICAL AND ELECTRICAL SYSTEMS. THE SPECIFIED ELECTRICAL SYSTEM SHALL BE COMPLETE IN ALL RESPECTS; OPERATIONAL, TESTED, ADJUSTED, APPROVED BY THE AUTHORITIES HAVING JURISDICTION AND READY FOR BENEFICIAL USE BY THE

3. THE TRADES SHALL OBTAIN AND REVIEW ALL CONTRACT DOCUMENTS BEFORE SUBMITTING A BID. INFORMATION IS PROVIDED ON THE VARIOUS DRAWINGS, SCHEDULES, SPECIFICATIONS AND ALL OF THE VARIOUS DOCUMENTS IN THE BIDDING PACKAGE. THE CONTRACT DOCUMENTS ARE COMPLEMENTARY AND FORM A TOTAL PROJECT DESIGN AND INFORMATION SOURCE FOR CONSTRUCTION PURPOSES.

4. THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS AND WORK INCLUDED IN THE CONTRACT, COORDINATE LOCATIONS OF EQUIPMENT WITH OTHER TRADES BEFORE AND DURING CONSTRUCTION. ANY MODIFICATION TO THE EQUIPMENT LAYOUT, REQUIRED FOR INSTALLATION, IS TO BE PERFORMED UNDER THE CONTRACT AGREEMENT, AT NO ADDITIONAL COST. REFER TO DETAILS, SCHEDULES AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.

5. THE CONTRACTOR SHALL BECOME THOROUGHLY FAMILIAR WITH THE PROJECT DOCUMENTS OF ALL TRADES. THE DRAWINGS ARE DIAGRAMMATIC AND SHOW THE GENERAL ARRANGEMENT OF EQUIPMENT AND CONDUITS. THE CONTRACTOR SHALL COORDINATE THE EXACT LOCATION OF EQUIPMENT AND CONDUITS INSTALLATION WITH ALL THE TRADES BEFORE COMMENCING WORK.

6. EQUIPMENT SHALL BE INSTALLED IN ACCESSIBLE LOCATIONS, WHEN EQUIPMENT MUST BE LOCATED ABOVE AN INACCESSIBLE CEILING (GYP BOARD OR EQUIVALENT), OR BEHIND A WALL, AN APPROPRIATE ACCESS DOOR SHALL BE PROVIDED. IF AN ACCESS DOOR IS REQUIRED, IT SHALL BE OF A RATING APPROPRIATE FOR THE WALL/CEILING IN WHICH IT IS TO BE INSTALLED. THE CONTRACTOR SHALL COORDINATE LOCATIONS OF ACCESS PANELS FOR ALL DEVICES, REQUIRING ACCESS, WITH THE ARCHITECT, PRIOR TO INSTALLATION OF SUCH DEVICES OR OTHER APPURTENANCES.

WHERE A CONFLICT OCCURS BETWEEN THE DOCUMENTS, IT SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT. CARRY AS PART OF THE BID THE LARGER QUANTITY AND/OR MORE EXPENSIVE ITEM(S).

8. THIS CONTRACT SHALL INCLUDE ALL THE NECESSARY CONDUITS. FITTINGS, TRANSITIONS ETC, AS REQUIRED TO INSTALL CONDUITS AND EQUIPMENT, AND TO AVOID ANY CONFLICTS WITH OTHER TRADES AND THE BUILDING STRUCTURE. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY ASSUMPTIONS, OMISSIONS OR ERRORS HE MAKES AS A RESULT OF HIS FAILURE TO COORDINATE WITH OTHER TRADES OR BECOME FULLY FAMILIAR WITH THE PROJECT DOCUMENTS OF ALL TRADES.

9. DO NOT INSTALL ANY ELECTRICAL PANELS, TRANSFORMERS, SPECIAL EQUIPMENT, BELOW PIPING OR THROUGH MECHANICAL ROOMS, THAT ARE NOT ASSOCIATED WITH OR SERVE THE RESPECTIVE ROOMS. COORDINATE THE LOCATION OF MECHANICAL EQUIPMENT IN THE FIELD AND ADJUST AS NECESSARY.

10. ALL HOMERUNS SHALL BE 2#12, 1#12G., 3/4"C TO 20A-1P CIRCUIT BREAKER IN PANEL DESIGNATED UNLESS OTHERWISE

11. ALL 120 VAC (277 VAC) CIRCUITS EXCEEDING 150' IN LENGTH SHALL BE INCREASED TO 2#10, 1#10G, 3/4" CONDUIT UNLESS OTHERWISE NOTED.

12. ALL BRANCH CIRCUITS SHALL BE PROVIDED WITH SEPARATE NEUTRALS. USE OF COMMON NEUTRALS WILL NOT BE

13. FIELD VERIFY WITH MANUFACTURER'S PROVIDED EXACT ELECTRICAL CHARACTERISTICS AND CONNECTION REQUIREMENTS OF ALL OPERATIONAL EQUIPMENT PRIOR TO MAKING ELECTRICAL POWER CONNECTION. FURNISH AND INSTALL SAFETY DISCONNECT AS REQUIRED BY NEC.

14. RECEPTACLES LOCATED WITHIN 6' OF A WATER SOURCE, OR OUTSIDE, AND WHERE REQUIRED BY CODE SHALL BE PROVIDED WITH GFCI PROTECTION, WHETHER INDICATED OR NOT.

15. EXTERIOR RECEPTACLES SHALL BE PROVIDED WITH "CAST ALUMINUM" LOCKABLE COVERS RATED "WEATHER-PROOF WHILE IN USE". LOCKS SHALL BE KEYED ALIKE.

16. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL REQUIRED SLEEVES AND FIRE STOP FOR CONDUITS AND CABLES PENETRATING FIRE RATED WALLS AND FLOORS.

17. ELECTRICAL CONTRACTOR SHALL SEAL ALL CONDUITS PENETRATING EXTERIOR WALLS.

18. ALL WIRING SHALL BE IN CONDUIT, UNLESS OTHERWISE INDICATED. CONDUITS SHALL BE RUN CONCEALED IN NEW AND

19. ELECTRICAL CONTRACTOR SHALL COORDINATE ALL LOCATIONS OF EQUIPMENT WITH DIV. 21, 22 AND 23 PRIOR TO ROUGHING OR INSTALLING OUTLETS.

20. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE OWNER, ALL LOCATIONS OF EQUIPMENT BEING FURNISHED BY THE OWNER PRIOR TO ROUGHING OR INSTALLING OUTLETS.

21. REFER TO ARCHITECTURAL DRAWINGS FOR ELEVATIONS AND EXACT LOCATION OF DEVICES PRIOR TO ROUGHING OR INSTALLATION OF OUTLETS.

22. ELECTRICAL CONTRACTOR SHALL COORDINATE THE LOCATION OF DUCT SMOKE DETECTORS WITH DIV. 23. DUCT SMOKE DETECTORS SHALL BE FURNISHED AND WIRED BY ELECTRICAL CONTRACTOR, INSTALLED BY DIV. 23.

23. ALL FIRE ALARM DEVICES LOCATED ON BUILDING EXTERIOR SHALL BE WEATHERPROOF RATED.

24. CONDUITS AND/OR WIRING SHALL NOT PENETRATE STAIR ENCLOSURES UNLESS SPECIFICALLY SERVING EQUIPMENT OR DEVICES LOCATED WITHIN STAIR ENCLOSURE.

25. WHERE INDICATED, PROVIDE FIXTURES WITH EMERGENCY BATTERY TO OPERATE LAMPS FOR 1 1/2 HOURS UPON LOSS OF NORMAL POWER. WIRE EMERGENCY BATTERY AND EXIT LIGHTS TO LINE SIDE OF AREA LIGHTING CIRCUIT.

26. DIRECTIONAL CHEVRONS SHALL CONFORM TO NFPA 5-10.4.1.2 AND SHALL BE IDENTIFIABLE AS A DIRECTIONAL INDICATOR AT A MINIMUM OF 40 FT, UNDER ALL SPACE CONDITIONS, PROVIDE DIRECTIONAL CHEVRONS AS INDICATED

27. BRANCH CIRCUIT WIRING IS SHOWN ON THE FLOOR PLANS. NUMERALS ADJACENT TO THE HOMERUN SYMBOLS FOR LIGHTING, RECEPTACLES, MOTORS, APPLIANCES, ETC. INDICATE THE CIRCUIT NUMBER TO WHICH THE ITEMS ARE TO BE CONNECTED. PROVIDE BRANCH CIRCUIT WIRING FOR ALL ITEMS SHOWN IN ACCORDANCE WITH THESE GENERAL NOTES AND THE ELECTRICAL SPECIFICATIONS.

28. ALL 1 POLE, 15 AND 20 AMPERE BRANCH CIRCUITS SERVING RECEPTACLE OR LIGHTING SHALL BE 2 WIRE CIRCUITS PROVIDING AN INDIVIDUAL NEUTRAL CONDUCTOR FOR EACH UNGROUNDED (HOT) CIRCUIT CONDUCTOR. DO NOT SHARE NEUTRAL CONDUCTORS.

29. REFER TO ARCHITECTS REFLECTED CEILING PLAN FOR EXACT LOCATIONS OF CEILING MOUNTED DEVICES.

30. ALL EXPOSED CABLES OF ANY TYPE IN PLENUM CEILING SPACE SHALL BE PLENUM RATED.

31. CONTRACTOR SHALL PROVIDE ALL NECESSARY MISCELLANEOUS STEEL FOR THE SUPPORT OF ALL EQUIPMENT, PIPING, CONDUIT AND DUCTWORK. SUSPENDED FROM SLAB, STEEL, WALL OR TRUSSWORK.

32. ALL PENETRATIONS OF FLOORS AND WALLS (WHETHER OR NOT FIRE RESISTANCE RATED) SHALL BE PROVIDED WITH A THROUGH PENETRATION PROTECTION SYSTEM (FIRESTOPPING). EACH THROUGH - PENETRATION PROTECTION SYSTEM SHALL BE TESTED IN ACCORDANCE WITH ASTM E814 AND BE LISTED FOR THE TYPE OF FLOOR OR WALL ASSEMBLY PENETRATED AND THE TYPE OF PROTECTION SYSTEM.

33. IT IS NOT THE INTENTION TO SHOW EVERY FITTING, HANGER, WIRE OR DEVICE, ALL SUCH ITEMS SHALL BE FURNISHED AND INSTALLED AS NECESSARY FOR A COMPLETE SYSTEM.

34. SEE SPECIFICATION SECTION "ELECTRICAL IDENTIFICATION" FOR PROPERLY LABELING EQUIPMENT WIRING, BOXES,

35. CONTRACTOR SHALL DETERMINE THE QUANTITY OF CONDUCTORS REQUIRED FOR PROPER OPERATION OF ALL SWITCHING SCHEMES.

36. PROVIDE ALL BONDING AND GROUNDING REQUIRED BY THE NATIONAL ELECTRIC CODE, NFPA 70 AND AS REQUIRED BY LOCAL AUTHORITY HAVING JURISDICTION.

37. ALL REQUIRED BONDING CONDUCTORS SHALL BE MINIMUM #8 SOLID INSULATED COPPER, PROVIDE ALL NECESSARY FITTINGS, JUNCTION BOXES, END FITTINGS, ETC., FOR A COMPLETE, CONTINUOUS INSTALLATION.

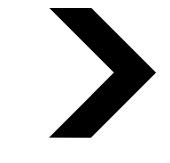
38. ALL BONDING/GROUNDING CONNECTIONS SHALL BE MADE BY LISTED CLAMP OR CONNECTORS AS REQUIRED BY ARTICLE 250 OF NFPA 70, THE NATIONAL ELECTRIC CODE (CURRENT ADOPTED EDITION).

39. SEISMICALLY SUPPORT THE EQUIPMENT AS REQUIRED BY CODE, THE AUTHORITY HAVING JURISDICTION, AND/OR AS SPECIFIED. SUBMIT ENGINEERED INSTALLATION DETAILS PER THE SPECIFICATIONS. THE CONTRACTOR'S SEISMIC ENGINEER SHALL REVIEW THE INSTALLATION AND PROVIDE A DETAILED REPORT FOR THE RECORD.

LIGHTING FIXTURE NOTES

. TYPE 'EM' EMERGENCY FIXTURES AND TYPE 'X' EXIT SIGNS SHALL BE WIRED TO LINE SIDE OF AREA LIGHTING CIRCUIT TO SENSE LOSS OF NORMAL POWER AND PROVIDE CONTINUOUS TRICKLE CHARGE, AND SHALL OPERATE AT A MINIMUM OF 1 1/2 HOURS UPON LOSS OF NORMAL POWER. SEE SCHEDULE.

2. DIRECTIONAL CHEVRONS SHALL CONFORM TO NFPA 5-10.4.1.2 AND SHALL BE IDENTIFIABLE AS A DIRECTIONAL INDICATOR AT A MINIMUM OF 40 FT. UNDER ALL SPACE CONDITIONS. SEE DETAIL BELOW.



EXIT SIGN DIRECTIONAL INDICATOR

3. ALL FIXTURES TO BE LED WITH 0-10V DRIVERS STANDARD. ALL FIXTURES TO BE COLOR TEMPERATURE 4000°K.

- 4. PROVIDE ERICO FASTENING PRODUCTS (CADDY) CAT. No. 515 OR 515A LIGHT FIXTURE SUPPORT CLIPS ON ALL
- CHANNELS SPANNING AND SECURED TO THE CEILING TEES.
- 6. VERIFY ALL LIGHT FIXTURE FINISHES WITH ARCHITECT PRIOR TO PURCHASE.
- 7. VERIFY ALL LIGHT FIXTURE MOUNTING HEIGHTS WITH ARCHITECT PRIOR TO INSTALLATION.

RECESSED LIGHT FIXTURES. PROVIDE MINIMUM FOUR (4) PER FIXTURE.

5. IN ADDITION TO THE REQUIREMENTS OF THE IBC AND THE NEC, ALL RECESSED LIGHT FIXTURES SHALL BE PROVIDED WITH SUPPORT WIRES AT A MINIMUM OF FOUR (4) PER FIXTURE AND LOCATED NOT MORE THAN SIX (6") INCHES FROM EACH CORNER, EXTENDED AND ATTACHED TO THE BUILDING STRUCTURE. HANGER WIRES SHALL BE GALVANIZED CARBON STEEL, ASTM A641, SOFT TEMPER, PRE-STRETCHED WITH A YIELD STRESS LOAD OF AT LEAST THREE (3) TIMES DESIGN LOAD BUT NOT LESS THAN 12 GAUGE (0.106"). FOR ROUND FIXTURES OR FIXTURES SMALLER THAN THE CEILING GRID, PROVIDE A MINIMUM OF FOUR (4) WIRES PER FIXTURE AND LOCATE AT EACH CORNER OF THE CEILING GRID IN WHICH THE FIXTURE IS TO BE LOCATED. ADDITIONALLY, WHERE FIXTURES OF SIZES LESS THAN THE CEILING GRID ARE INDICATED TO BE CENTERED IN THE ACOUSTICAL PANEL, SUCH FIXTURES SHALL BE SUPPORTED WITH A MINIMUM OF TWO (2) 3/4" METAL



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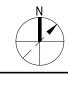
Ward Spaulding School Preschool Classroom Renovations

945 MOUNTAIN RD WEST SUFFIELD, CT 06093

CONSULTANTS



KEY PLAN



PROJECT DATA PROJECT NUMBER 20016 CURRENT SUBMISSION DATE 06.01.20 DRAWN BH CHECKED BH SCALE As indicated FILE REFERENCE BIM 360://20-121 Spaulding School/MEP_20-121 Spaulding School.rvt

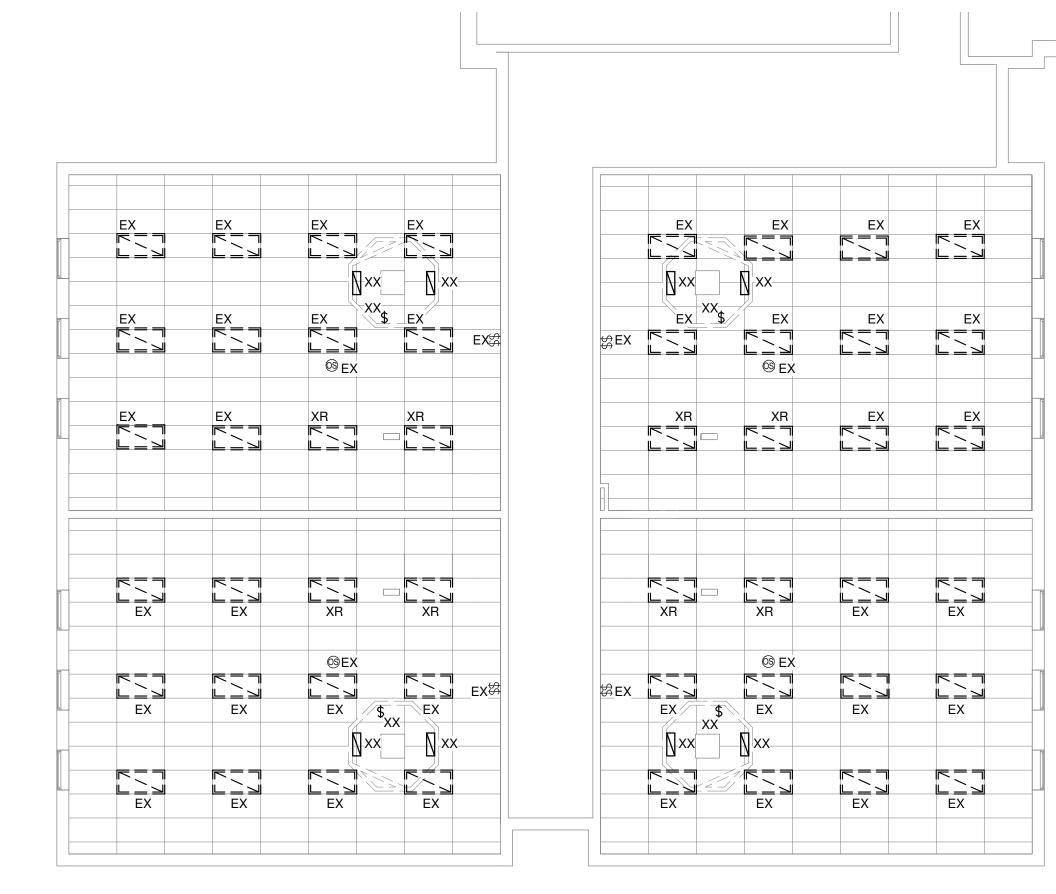
HISTORY OF SUBMISSIONS



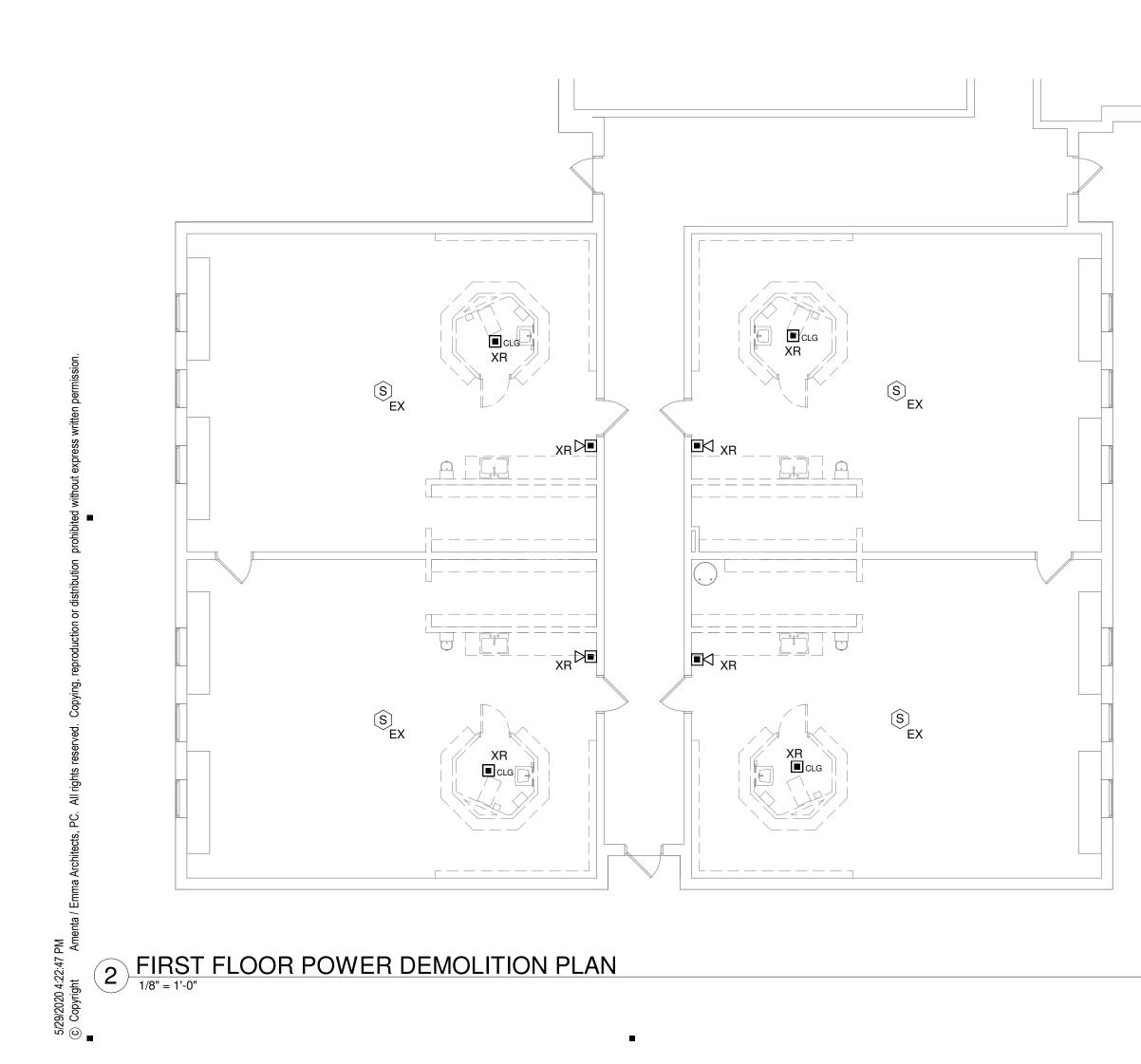
FOR CONSTRUCTION

SHEET TITLE

ELECTRICAL ABBREVIATIONS, GENERAL NOTES AND SYMBOL LIST



1 FIRST FLOOR LIGHTING DEMOLITION RCP 1/8" = 1'-0"



ELECTRICAL DEMOLITION NOTES

OF FAILURE TO BECOME FAMILIAR WITH THE EXISTING CONDITIONS.

- REQUIRED TO ALLOW PHASED CONSTRUCTION WHERE NECESSARY.
- ORIGIN.
- DETERMINED BY THE ENTIRE SET OF BID DOCUMENTS.
- SYSTEM.
- AS NECESSARY.
- SHALL BE ABANDONED IN PLACE, UNLESS SPECIFICALLY NOTED.
- MANAGER.
- PERMITTED.
- TO HAZARDOUS MATERIALS AND CONTAMINATED ITEMS TO BE DEMOLISHED.
- DETERMINE FULL SCOPE OF WORK.

ELECTRICAL EXISTING EQUIPMENT LEGEND

- EXISTING EQUIPMENT LEGEND **EX - INDICATES EXISTING TO REMAIN**
- XR INDICATES EXISTING TO BE RELOCATED XN - INDICATES NEW LOCATION OF RELOCATED
- XX INDICATES EXISTING TO BE REMOVED
- AS REQUIRED SO THAT DEVICES TO REMAIN ON SAME CIRCUIT SHALL OPERATE AS INTENDED.

1. BEFORE SUBMITTING BID, THE CONTRACTORS SHALL VISIT THE JOB SITE AND BECOME FULLY FAMILIAR WITH THE EXISTING CONDITIONS AND THE DOCUMENTS OF OTHER TRADES UNDER WHICH THEIR WORK WILL BE ACCOMPLISHED. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY ASSUMPTIONS, OMISSIONS OR ERRORS MADE AS A RESULT

2. THE CONTRACTOR SHALL COORDINATE AND SCHEDULE ANY DAILY INTERRUPTIONS OR SHUTDOWNS OF THE EXISTING SYSTEMS IN ADVANCE WITH OWNER'S DESIGNATED REPRESENTATIVE. THIS SHALL INCLUDE SERVICES INTERRUPTIONS AND CONNECTIONS, MECHANICAL AND ELECTRICAL DISRUPTIONS EFFECTING OTHER TRADES. INCLUDE ALL WORK

3. DEMOLITION DRAWINGS ARE STRICTLY DIAGRAMMATIC AND SHOW GENERAL ARRANGEMENT AND APPROXIMATE LOCATION OF EXISTING MECHANICAL AND ELECTRICAL EQUIPMENT. IT IS NOT THE INTENT OF THESE DRAWINGS TO SHOW ALL EQUIPMENT, PIPING OR CONDUIT TO BE REMOVED. EQUIPMENT NOT BEING REUSED SHALL BE REMOVED, INCLUDING ALL ASSOCIATED HANGERS, SUPPORTS, PIPES, CONDUITS, WIRES, AND CONTROLS BACK TO THE POINT OF

4. REFER TO THE ARCHITECTURAL DEMOLITION DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS. THE FULL EXTENT OF THE DEMOLITION AND RECONSTRUCTION SCOPE OF WORK SHALL BE

5. THE CONTRACTORS SHALL COORDINATE THE DEMOLITION SCOPE OF WORK WITH THE GENERAL CONTRACTOR'S OR CONSTRUCTION MANAGER'S PHASING SCHEDULE PRIOR TO COMMENCEMENT OF WORK. CARE MUST BE TAKEN SO AS NOT TO DESTROY, REMOVE OR DEMOLISH ANY EQUIPMENT, APPURTENANCES OR DEVICES INTENDED TO REMAIN. PROVIDE TEMPORARY SERVICES AND SYSTEM MODIFICATIONS TO ACCOMMODATE CONTINUOUS OPERATION OF ACTIVE

6. THE LOCATION OF EXISTING ELECTRICAL SYSTEM SHOWN ON FLOOR PLANS, IS BASED ON THE BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL FIELD VERIFY PRIOR TO COMMENCEMENT OF CONSTRUCTION, EXACT QUANTITY AND LOCATION(S) OF EXISTING EQUIPMENT, PANELS, CONDUITS, LIGHTING, ETC. TO BE REMOVED AND ADJUST

7. ALL EQUIPMENT, AND ASSOCIATED WIRING, CONDUITS INDICATED TO BE REMOVED OR RELOCATED, SHALL BE DISCONNECTED AND REMOVED, INCLUDING HANGERS AND OTHER COMPONENTS. NO EQUIPMENT, WIRING OR CONDUITS

8. ALL SYSTEMS TO BE REMOVED SHALL BE REMOVED BACK TO THE POINT OF SOURCE. THE CONTRACTOR SHALL VERIFY WHICH SYSTEMS MUST REMAIN ACTIVE TO SERVE ADJACENT SPACES DURING CONSTRUCTION. SHOULD THE CONTRACTOR ENCOUNTER, DURING DEMOLITION OF EXISTING WALLS OR CHASES, ANY WIRING OR CONDUIT WHICH MUST REMAIN ACTIVE, IMMEDIATELY GIVE NOTICE TO THE ENGINEER, GENERAL CONTRACTOR OR CONSTRUCTION

9. ALL SALVAGEABLE MATERIALS OR EQUIPMENT TO BE REMOVED SHALL BE TURNED OVER TO THE OWNER AT THE END OF EACH DAY. ITEMS REMOVED AND NOT REUSED OR CLAIMED BY THE OWNER SHALL BECOME PROPERTY OF THE TRADE CONTRACTOR AND SHALL BE TRANSPORTED FROM THE SITE. SITE STORAGE OF REMOVED ITEMS WILL NOT BE

10. PROPERLY DISPOSE OF ALL DEMOLISHED EQUIPMENT IN COMPLIANCE WITH CODES AND REGULATIONS; THIS APPLIES

11. THE CONTRACTOR SHALL OBTAIN EXISTING ELECTRICAL DRAWINGS FROM THE OWNER IF AVAILABLE TO HELP

12. REFER TO ELECTRICAL PLANS FOR MORE INFORMATION REGARDING EXISTING EQUIPMENT, ETC.

-ALL ITEMS TO BE RELOCATED SHALL BE DISCONNECTED AND REMOVED, AND REINSTALLED IN NEW LOCATION AS INDICATED. RECONNECT TO EXISTING CIRCUIT VIA CONTROLS SHOWN ON PLAN. EXTEND WIRING AS REQUIRED. -ALL ITEMS EXISTING TO BE REMOVED SHALL BE DISCONNECTED AND REMOVED. EXISTING CIRCUIT SHALL BE MAINTAINED ALL EQUIPMENT IN THE CLASSROOMS SHALL BE EXISTING TO REMAIN UNLESS OTHERWISE NOTED OR ON WALLS, CEILINGS, ETC. BEING REMOVED. COORDINATE WITH ARCHITECTURAL DRAWINGS AND ARCHITECT. MAINTAIN EXISTING CIRCUITS FOR ANY DEVICES WHICH ARE TO REMAIN.

AMENTA EMMA

ARCHITECTS

Suffield Public Schools

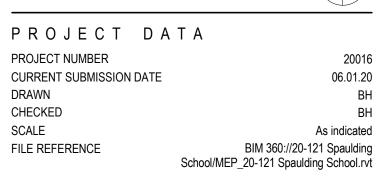
Ward Spaulding School Preschool Classroom Renovations

945 MOUNTAIN RD WEST SUFFIELD, CT 06093

CONSULTANTS

RZ Design Associates, I MECHANICAL, ELECTRICAL, AND STRUCTURAL ENGINEERING 750 OLD MAIN STREET SUITE 202 ROCKY HILL, CT 06067 P: (860) 436-4336 F: (860) 436-4450 ww.rzdesignassociates.c

KEY PLAN



HISTORY OF SUBMISSIONS

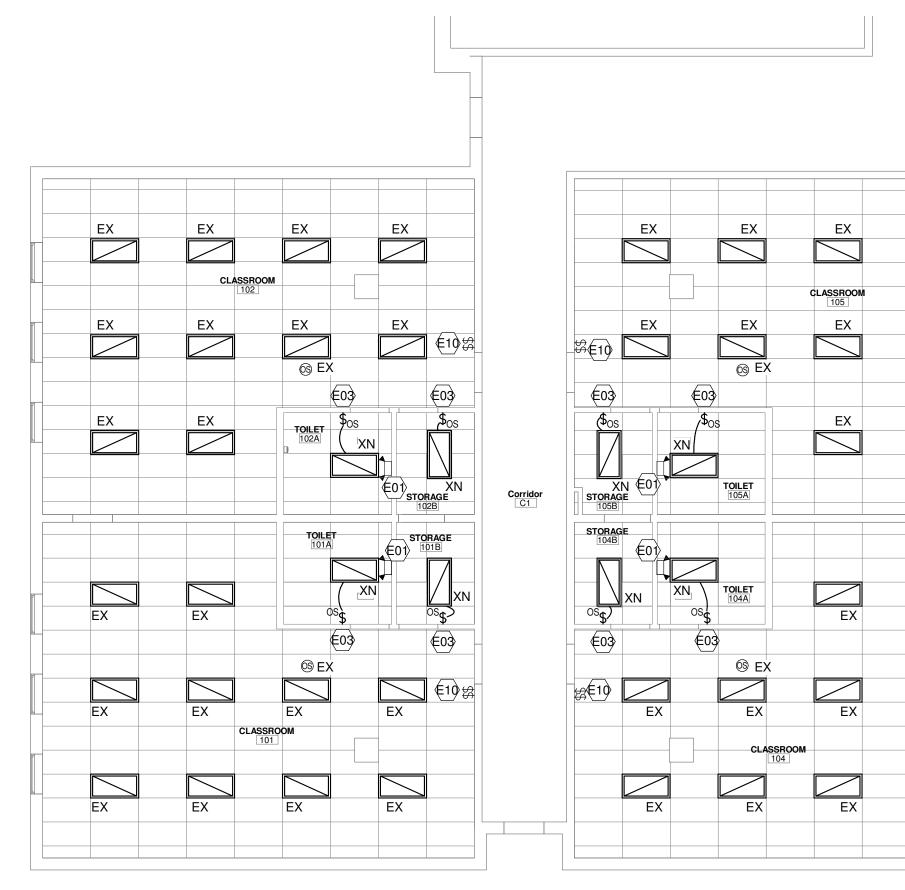


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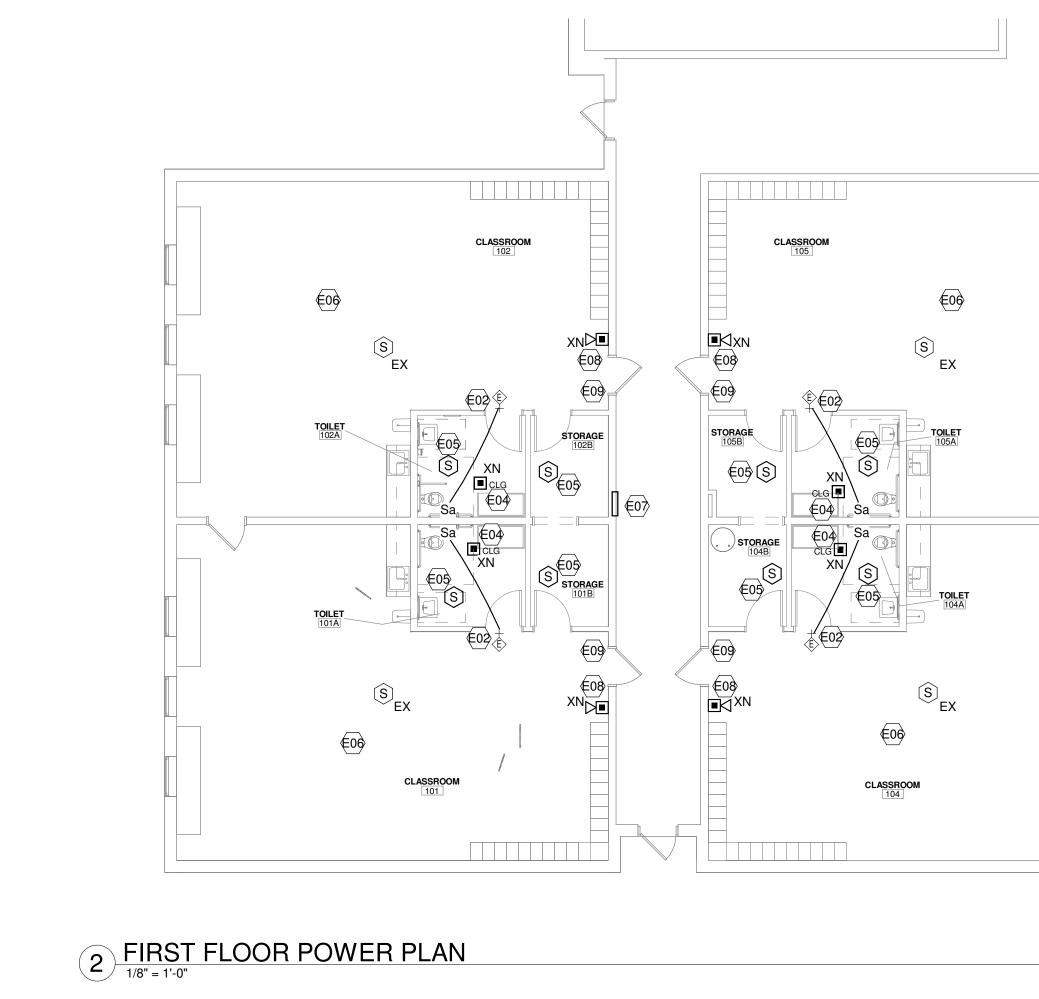
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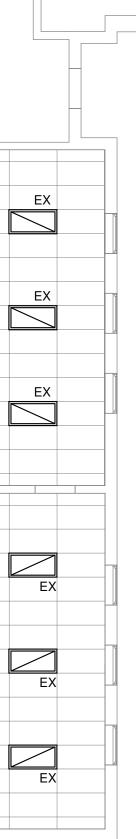
ELECTRICAL DEMOLITION PLANS



1 FIRST FLOOR LIGHTING RCP

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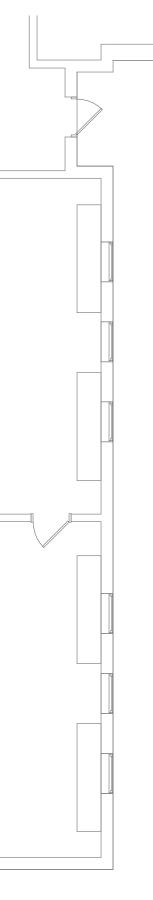
ELECTRICAL KEYNOTES

E01 PROVIDE POWER TO EMERGENCY LIGHT FIXTURE FROM CLASSROOM LIGHTING CIRCUIT. CONNECT AHEAD OF CONTROLS

- E02 PROVIDE CALL FOR AID SYSTEM, LOCAL OUTPUT ONLY. CONNECT POWER TO LOCAL PANEL "P-K" CIRCUIT #30, PROVIDE NEW 20/1 CIRCUIT BREAKER IN PANEL "P-K" FOR ECALL. CONNECT VIA #12 WIRE AND #12 GROUND WIRE IN 3/4" CONDUIT AS REQUIRED BY MANUFACTURER, CONFIRM POWER/WIRING REQUIREMENTS WITH SYSTEM MANUFACTURER.
- E03 PROVIDE LINE VOLTAGE SWITCH OCCUPANCY SENSOR TO CONTROL LIGHT
- E04 NEW LOCATION OF RELOCATED FIRE ALARM STROBE LIGHT. CONNECT TO SAME LOCAL NOTIFICATION CIRCUIT.
- E05 PROVIDE SMOKE DETECTOR. CONNECT TO NEAREST INITIATION CIRCUIT.
- E06 EXISTING RECEPTACLES IN CLASSROOM INCLUDING PROJECTOR POWER TO REMAIN. EXISTING CEILING FANS AND CONTROLS TO REMAIN. EXISTING SECURITY CAMERA TO REMAIN. EXISTING TEL/DATA CONNECTIONS ARE ALSO TO REMAIN
- E07 EXISTING 120/208V PANEL "P-K'. PROVIDE NEW 20/1 CIRCUIT BREAKER AT CIRCUIT #30 FOR POWER TO CALL FOR AID SYSTEMS.
- E08 RELOCATE EXISTING FIRE ALARM HORN STROBE TO OTHER SIDE OF DOOR AS SHOWN. EXISTING DEVICE WIRING IS RUN IN EXISTING SURFACE MOUNTED RACEWAY. RELOCATE/PROVIDE NEW RACEWAY FOR RELOCATED DEVICE(PAINTED TO MATCH WALL), EXTEND WIRING AS REQUIRED
- E09 EXISTING CLOCK SPEAKER TO REMAIN
- E10 EXISTING CLASSROOM LIGHTING SWITCHES TO REMAIN

- 3. RECONNECT RELOCATED FIRE ALARM DEVICES TO SAME EXISTING LOCAL FIRE ALARM LOOP, EXTEND WIRING AS REQUIRED.
- REQUIRED.
- BEING RELOCATED TO THE BATHROOM AND STORAGE CLOSET.

EXISTING EQUIPMENT LEGEND EX - INDICATES EXISTING TO REMAIN XR - INDICATES EXISTING TO BE RELOCATED XN - INDICATES NEW LOCATION OF RELOCATED XX - INDICATES EXISTING TO BE REMOVED



ELECTRICAL LIGHTING AND POWER NOTES

1. RECONNECT RELOCATED LIGHTING TO EXISTING LIGHTING CIRCUIT VIA NEW LIGHTING CONTROLS AS SHOWN. EXTEND WIRING AS REQUIRED.

2. E.C. TO CONFIRM ALL LIGHTING FIXTURES ARE IN GOOD WORKING ORDER, REPAIR/REPLACE/CLEAN FIXTURES, LENSES, BALLASTS, EQUIPMENT, ETC. AS REQUIRED. REPLACE LAMPS IN KIND IN ALL FIXTURES BEING RELOCATED.

4. CONNECT NEW SMOKE DETECTORS TO EXISTING LOCAL FIRE ALARM INITIATING LOOP. PROVIDE AND EXTEND WIRING AS

5. EXISTING CLASSROOM LIGHTING AND CONTROLS SHALL REMAIN EXCEPT FOR THE TWO FIXTURES IN EACH CLASSROOM

ELECTRICAL EXISTING EQUIPMENT LEGEND

ALL ITEMS TO BE RELOCATED SHALL BE DISCONNECTED AND REMOVED, AND REINSTALLED IN NEW LOCATION AS INDICATED. RECONNECT TO EXISTING CIRCUIT VIA CONTROLS SHOWN ON PLAN. EXTEND WIRING AS REQUIRED. ALL ITEMS EXISTING TO BE REMOVED SHALL BE DISCONNECTED AND REMOVED. EXISTING CIRCUIT SHALL BE MAINTAINED AS REQUIRED SO THAT DEVICES TO REMAIN ON SAME CIRCUIT SHALL OPERATE AS INTENDED.

AMENTA EMMA



Suffield Public Schools

Ward Spaulding School Preschool Classroom Renovations

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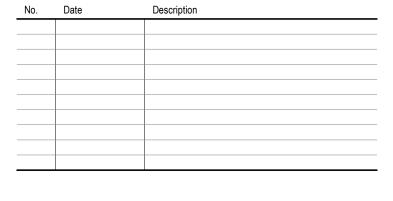
(**RZ** Design Associates, In MECHANICAL, ELECTRICAL, AND STRUCTURAL ENGINEERING 750 OLD MAIN STREET SUITE 202 ROCKY HILL, CT 06067 P: (860) 436-4336 F: (860) 436-4450 www.rzdesignassociates.c

KEY PLAN



PROJECT DATA PROJECT NUMBER CURRENT SUBMISSION DATE 06.01.20 DRAWN CHECKED SCALE As indicated FILE REFERENCE BIM 360://20-121 Spaulding School/MEP_20-121 Spaulding School.rvt

HISTORY OF SUBMISSIONS



FOR CONSTRUCTION

SHEET TITLE

ELECTRICAL PLANS

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E2.01

ELECTRICAL SPECIFICATIONS:

GENERAL THE ENTIRE ELECTRICAL SYSTEM SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE CONNECTICUT STATE BUILDING CODE INCLUDING THE LATEST ADOPTED VERSION OF:

INTERNATIONAL BUILDING CODE

- AMENDMENTS TO THE INTERNATIONAL BUILDING CODE
- INTERNATIONAL PLUMBING CODE INTERNATIONAL MECHANICAL CODE
- INTERNATIONAL ENERGY CONSERVATION CODE
- NATIONAL ELECTRICAL CODE
- ANSI A117.1 ACCESSIBLE AND USEABLE BUILDINGS AND FACILITIES
- OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION THE CONTRACTOR SHALL FURNISH ALL MATERIALS, EQUIPMENT AND LABOR TO COMPLETE ELECTRICAL SYSTEMS AS SHOWN ON THE PLANS AND AS SPECIFIED HEREIN. THE INTENT OF THESE SPECIFICATIONS AND CONTRACT DRAWINGS IS TO PROVIDE COMPLETE INSTALLATION OF THE VARIOUS SYSTEMS DESCRIBED HEREIN AND INDICATED ON THE DRAWINGS. ANY LISTING OR INDICATION OF ITEMS FURNISHED OR WORK TO BE PERFORMED SHALL NOT BE COMPLETE IN ITSELF AND SHALL NOT LIMIT THE GENERAL REQUIREMENTS TO FURNISH AND INSTALL
- WORK, EQUIPMENT, ACCESSORIES, CONTROLS, ETC., TO COMPLETE THE CONTRACT IN A
- SUBSTANTIAL MANNER. WORK SHALL INCLUDE BUT NOT BE LIMITED TO THE FOLLOWING: A. SAFETY SWITCHES - HEAVY DUTY - FUSIBLE
 - FUSES TIME DELAY BUSSMAN LPN-RK (250V)
- FAST ACTING BUSSMAN KTN-R (250V) C. DISCONNECTION AND COMPLETE REMOVAL OF LIGHTING AND EQUIPMENT NOT INTENDED
- FOR REUSE PROVISION OF ALL LIGHTING FIXTURES COMPLETE WITH LAMPS, HANGERS AND SUPPORTS
- BRANCH LIGHTING AND RECEPTACLE WIRING AND CONDUIT, COMPLETE WITH ALL CONNECTIONS
- F. PROVISION OF ALL OUTLET BOXES, WIRING DEVICES, PLATES, CONDUIT, CONDUIT FITTINGS, HANGERS, SUPPORTS, AND SUCH OTHER ITEMS REQUIRED AND INCIDENTAL FOR A
- COMPLETE INSTALLATION. G. PROVISION OF ALL DISCONNECT SWITCHES, MANUAL AND MAGNETIC MOTOR STARTERS, AS REQUIRED FOR ALL HVAC AND OTHER ELECTRICAL EQUIPMENT
- H. PROVISION OF POWER AND TEMPERATURE CONTROL WIRING TO HVAC AND PLUMBING EQUIPMENT SUCH AS AIR HANDLING UNITS, ROOFTOP HEATING/COOLING UNITS, EXHAUST FANS, COMPRESSORS, EVAPORATORS AND THE LIKE COMPLETE WITH ALL CONNECTIONS I. ALL HVAC AND EQUIPMENT WILL BE PROVIDED BY OTHERS FOR WIRING BY THIS ELECTRICAL CONTRACTOR EXCEPT AS NOTED.

PERMITS AND FEES:

A. OBTAIN AND PAY FOR ALL NECESSARY PERMITS REQUIRED BY LAW AND LOCAL INSPECTIONS AUTHORITIES TO PERFORM THE ELECTRICAL WORK SPECIFIED HEREIN WIRING AND RACEWAY:

- 1. THE DRAWINGS SHOW THE GENERAL LAYOUT AND TYPICAL DETAILS. PROVIDE COMPLETE SYSTEMS. DRAWINGS ARE BASED ON THE SPECIFIED EQUIPMENT. RACEWAY LAYOUTS, BOXES, AND WIRING OF THE SYSTEMS ARE SUBJECT TO APPROVED SHOP DRAWINGS.
- 2. ENSURE THAT ITEMS TO BE FURNISHED FIT THE SPACE AVAILABLE. MAKE NECESSARY FIELD MEASUREMENTS TO ASCERTAIN SPACE REQUIREMENTS, INCLUDING THOSE FOR CONNECTIONS, AND PROVIDE SUCH SIZES AND SHAPES OF EQUIPMENT THAT FINAL INSTALLATION SHALL SATISFY THE INTENT OF THE DRAWINGS AND SPECIFICATIONS.
- 3. LOCATIONS OF OUTLETS, SWITCHES, APPLIANCES, ETC, AS SHOWN ON ELECTRICAL PLANS ARE APPROXIMATE. COORDINATE WITH ARCHITECTURAL AND MECHANICAL PLANS AND DETAILS, AND WITH JOB CONDITIONS. INSTALL SWITCHES WIT OFF" POSITION DOWN. INSTALL RECEPTACLES WITH GROUNDING POLE IN THE UP POSITION FOR VERTICAL MOUNTING AND AT LEFT FOR HORIZONTAL MOUNTING.
- 4. LOCATE AND INSTALL EQUIPMENT, JUNCTION AND PULL BOXES, PANEL BOARDS, SWITCHES, CONTROLS, AND OTHER APPARATUS REQUIRING MAINTENANCE, INSPECTION, AND OPERATION SO AS TO BE READILY ACCESSIBLE.
- **RACEWAY INSTALLATION:** 1. IN ALL ARCHITECTURALLY FINISHED SPACES, CONDUITS AND CABLES SHALL BE RUN
- CONCEALED IN HUNG OR FURRED CEILINGS, SLABS, MASONRY, AND PARTITIONS UNLESS OTHERWISE INDICATED. SAW CUTTING AND FINISHED PATCHING SHALL BE REQUIRED IN EXISTING
- SLABS AND MASONBY WALLS. IN UNFINISHED SPACES, BACEWAYS MAY BE BUN EXPOSED.
- 2. UNLESS OTHERWISE INDICATED, EXACT ROUTING OF RACEWAYS SHALL BE DETERMINED BY THE CONTRACTOR TO SUIT THE PROJECT REQUIREMENTS AND FIELD CONDITIONS.
- 3. MINIMUM CONDUIT SIZE SHALL BE ¾" I.D.
- A. IN CONCRETE RIGID METAL CONDUIT
- UNDERGROUND RIGID NONMETALLIC CONDUIT EXPOSED AND CONCEALED - ELECTRICAL METALLIC TUBING
- WIRING INSTALLATION:
- 1. DO NOT USE WIRE SMALLER THAN №. 12 AWG FOR ANY POWER OR LIGHTING CIRCUIT. USE LARGER SIZES WHERE INDICATED, AS REQUIRED BY CODES, AND AS FOLLOWS:

30 AMPERE CIRCUIT:	No. 10 AWG
40 AMPERE CIRCUIT:	No. 8 AWG
50 AMPERE CIRCUIT:	No. 6 AWG
60 AMPERE CIRCUIT:	No. 6 AWG

CONDUCTORS IN CONDUIT.

A. MINIMUM HOMERUN AND BRANCH CIRCUIT WIRING SIZES AND MAXIMUM HOMERUN CONDUIT FUL FOR 120 VOLT 20 AMPERE CIRCUITS SHALL BE AS FOLLOWS

CONDULT FILL FOR 120 VOLT, 20 AMIFERE CIRCULTS SHALL BE AS FOLLOWS.			
	<u>CIRCUIT</u> <u>H</u>	<u>IOMERUN</u>	CONDUIT SIZE
LENGTH	WIRE SIZE	WIRE SIZE	(8 WIRES/CONDUIT)
0' TO 50'	<i>³⁄</i> #12	#12	
51' TO 100'	#12¾″	#10	
101' TO 200'	# 1 0	#8	1

GREATER THAN 200' - REQUEST DIRECTION FROM ARCHITECT/ENGINEER NOTE: PROVIDE DERATING PER CODE WHEN INSTALLING MORE THAN 3 CURRENT CARRYING B. HOMERUNS AND BRANCH CIRCUIT WIRING FOR 277 VOLT, 20 AMPERE CIRCUITS SHALL BE AS FOLLOWS:

HOMERUN CONDUIT SIZE WIRE SIZE WIRE SIZE (8 WIRES/CONDUIT) LENGTH

0' TO 100'	# 1⁄2 ′		#12
100' TO 200'		3⁄4″	#12

GREATER THAN 200' - REQUEST DIRECTION FROM ARCHITECT/ENGINEER NOTE: PROVIDE DERATING PER CODE WHEN INSTALLING MORE THAT 3 CURRENT CARRYING

#10

CONDUCTORS IN CONDUIT. 2. DO NOT USE WIRE SMALLER THAN No. 14 AWG FOR CONTROL CIRCUITS UNLESS OTHERWISE RECOMMENDED BY THE EQUIPMENT OR SYSTEM MANUFACTURER ON WIRING SHOP DRAWINGS,

AND SO APPROVED BY THE ARCHITECT 3. WIRING ABOVE ACCESSIBLE CEILINGS AND IN STUDDED PARTITIONS MAY BE TYPE MC CABLE 4. WHERE GREATER THAN THREE (3) CURRENT CARRYING CONDUCTORS ARE INSTALLED IN ANY ONE CONDUIT OR CABLE, CONDUCTORS MUST BE DERATED AND SIZES INCREASED, IF NEEDED,

TO ACCOMMODATE CONDUCTOR DERATING AS REQUIRED BY NEC ARTICLE 310, NOTE 8(A) OF AMPACITY TABLES FOR 0-2000 VOLT CONDUCTORS. 5. CONDUCTORS SHALL BE COMPLETELY INSTALLED AND CONNECTED. PROVIDE ALL TERMINALS,

LUGS, AND CONNECTORS TO SUIT THE APPLICATION, AND IN COMPLIANCE WITH EQUIPMENT MANUFACTURERS' RECOMMENDATIONS. 6. BRANCH CIRCUIT WIRING FOR LIGHTING AND OTHER SINGLE PHASE APPLICATIONS SHALL BE

- MULTI-WIRE, UTILIZING COMMON NEUTRALS, EXCEPT COMPUTER AND WORKSTATION CIRCUITS AND DIMMER CIRCUITS SHALL HAVE SEPARATE NEUTRALS, AND AS OTHERWISE INDICATED. 7. UNDER NO CIRCUMSTANCES SHALL ANY SWITCH OR CIRCUIT BREAKER BREAK A NEUTRAL CONDUCTOR.
- THE CIRCUIT NUMBERS INDICATED ON THE DRAWINGS ARE INTENDED AS A GUIDE FOR PROPER CONNECTION OF CIRCUITS TO PANELS. HOWEVER, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT THE FINAL CIRCUITING WORK FULFILLS THE FOLLOWING CONDITIONS:

A. LOADS ON PANEL BUSSES SHALL BE PHASE-BALANCED AS EVENLY AS POSSIBLE. **GROUNDING INSTALLATION:** PROVIDE ALL ELECTRICAL GROUNDING TO CONFORM TO ARTICLE 250 OF THE NEC.

- 2. EQUIPMENT GROUNDING: A. INCLUDE AN INSULATED GROUND CONDUCTOR IN ALL CONDUIT RUNS CONTAINING
- SECTIONS OF FLEXIBLE CONDUIT UNLESS OTHERWISE NOTED. B. INCLUDE AN INSULATED GROUND CONDUCTOR IN ALL BRANCH CIRCUIT RACEWAYS OR CABLES UNLESS OTHERWISE NOTED.
- SWITCHES AND RECEPTACLES:

1. LIGHT SWITCHES - 20 AMP, 120V - PASS & SEYMOUR #PS20AC11 2. DUPLEX RECEPTACLES - 20 AMP, 120V - PASS & SEYMOUR #PT5362LI

3. SPECIAL PURPOSE RECEPTACLES - AS SPECIFIED AND SHOWN ON THE DRAWINGS OR AS REQUIRED TO MATCH EQUIPMENT SERVED.

- 4. PLATES PASS & SEYMOUR TP SERIES 5. WIRING DEVICES AS SPECIFIED ARE BASED ON PASS AND SEYMOUR CATALOG NUMBERS. DEVICES AS MANUFACTURED BY LEVITON OR HUBBEL WILL BE CONSIDERED, IF THEY ARE OF THE SAME TYPE AND QUALITY.
- 6. ALL DEVICES AND PLATES SHALL BE IVORY UNLESS OTHERWISE NOTED. COORDINATE ALL FINISHES WITH ARCHITECT PRIOR TO PURCHASE.
- <u>LIGHTING FIXTURES:</u> 1. PROVIDE FIXTURES AND LAMPS AS SHOWN AND SPECIFIED ON THE DRAWINGS.
- 2. ALL LED / FLUORESCENT LAMPS SHALL BE WARM WHITE LAMPS UNLESS SPECIFIED OTHERWISE. 3. ALL LED DRIVERS / BALLASTS SHALL BE CBM CERTIFIED HIGH POWER FACTOR, ENERGY
- EFFICIENT, FULL LIGHT OUTPUT TYPES. 4. ALL LED / FLUORESCENT BALLASTS SHALL BE AS MANUFACTURED BY ADVANCE, UNIVERSAL OR

MOTOROLA. MECHANICAL EQUIPMENT WIRING

1. UNLESS OTHERWISE NOTED OR SPECIFIED HEREIN, ALL MOTORS, MOTOR STARTERS, MOTOR CONTROLLERS, VARIABLE SPEED/FREQUENCY DRIVES, AND ASSOCIATED CONTROL DEVICES ARE FURNISHED UNDER OTHER DIVISIONS, INSTALLED UNDER THIS DIVISION. COORDINATE INSTALLATION AND LOCATIONS WITH OTHER DIVISION CONTRACTORS.

- 2. POWER WIRING FROM THE INDICATED SOURCE TO THE STARTER/CONTROLLER/DRIVE UNIT, AND FROM THE STARTER/CONTROLLER/DRIVE UNIT TO THE MOTOR, INCLUDING ANY LOCAL DISCONNECT SWITCHES PROVIDED AND INSTALLED BY THIS DIVISION, AND ALL ASSOCIATED
- LUGS. TERMINALS. AND CONNECTORS. IS THE WORK OF THIS DIVISION. 3. CONTROL CIRCUIT WIRING IS GENERALLY FURNISHED AND INSTALLED UNDER OTHER DIVISIONS, EXCEPT THAT ANY SUCH WIRING SHOWN ON ELECTRICAL DRAWINGS IS WORK OF THIS DIVISION. 4. COOPERATE AND COORDINATE WITH THE OTHER TRADES IN THE INSTALLATION, CONNECTION, AND TESTING OF MECHANICAL EQUIPMENT. PERFORM WORK OF THIS SECTION IN ACCORDANCE WITH EQUIPMENT MANUFACTURERS' INSTRUCTIONS.

EXAMINATION OF SITE: 1. BEFORE SUBMITTING BID, CONTRACTOR SHALL VISIT THE SITE WITH PLANS AND SPECIFICATIONS IN HAND AND SHALL BECOME THOROUGHLY FAMILIAR WITH ALL CONDITIONS

UNDER WHICH HIS WORK WILL BE PERFORMED. 2. THE SUBMISSION OF A BID SHALL BE TAKEN AS EVIDENCE THAT SUCH EXAMINATION HAS BEEN MADE, AND DIFFICULTIES, IF ANY, NOTED AND REPORTED TO THE ENGINEER. LATTER CLAIMS FOR EXTRA COST OF LABOR, MATERIALS AND EQUIPMENT REQUIRED FOR ANY DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN, SHALL NOT BE RECOGNIZED.

FINAL INSPECTION AND TEST: PRIOR TO TEST, FEEDERS AND BRANCHES SHALL BE CONTINUOUS FROM SERVICE CONTACT POINT TO EACH OUTLET. ALL PANELS, FEEDERS AND DEVICES CONNECTED AND CIRCUIT BREAKERS IN PLACE. TEST SYSTEM FREE FROM SHORT CIRCUITS AND GROUND WITH INSULATION RESISTANCE NOT LESS THAN OUTLINED IN THE 2005 NATIONAL ELECTRICAL CODE. PROVIDE TESTING EQUIPMENT NECESSARY AND CONDUCT TEST IN PRESENCE OF OWNER'S AUTHORIZED REPRESENTATIVE.

FIRE ALARM SPECIFICATIONS

- A. EXISTING FIRE ALARM CONTROL PANEL TO REMAIN, MAKE ALL REQUIRED CONNECTIONS AS IT WAS PREVIOUSLY INCLUDING REPORTING TO LOCAL FIRE DEPARTMENT. PROVIDE ANY/ALL NEW ACCESSORIES, OTHER EQUIPMENT AS NEEDED PER FIRE ALARM SYSTEM MANUFACTURER'S REQUIREMENTS/RECOMMENDATIONS.
- B. PROVIDE A NEW NOTIFICATION CIRCUIT EXTENDER PANEL IF REQUIRED PER THE MANUFACTURER'S RECOMMENDATIONS. PROVIDE NEW CONTROL, INDICATING, NOTIFICATION AND MONITORING DEVICES COMPATIBLE WITH THE EXISTING SYSTEM. ALL DEVICES AND INSTALLATIONS SHALL COMPLY WITH AMERICANS WITH DISABILITIES ACT (ADA) GUIDELINES WHERE APPLICABLE.
- C. THE SEQUENCE OF OPERATION IS PART OF THE EXISTING FIRE ALARM SYSTEM ALREADY IN PLACE. THE FOLLOWING IS FOR REFERENCE AND SHOULD BE FOLLOWED WHEN ADDING DEVICES TO THE EXISTING FIRE ALARM SYSTEM. COORDINATE WITH THE MANUFACTURER FOR COMPLIANCE WITH THE FOLLOWING SEQUENCE OF OPERATION WHEN ADDING DEVICES OR MODIFYING THE EXISTING FIRE ALARM SYSTEM IN ANY MANNER. THE OPERATION OF A MANUAL STATION OR ACTIVATION OF ANY AUTOMATIC ALARM INITIATING DEVICE (SYSTEM SMOKE, HEAT, WATER-FLOW) SHALL AUTOMATICALLY: INITIATE THE TRANSMISSION OF THE ALARM TO THE MUNICIPAL FIRE STATION OR APPROVED CENTRAL STATION VIA A LOCAL ENERGY MASTER BOX, MULTI-ZONE MASTER BOX, RADIO MASTER BOX, OR DIGITAL ALARM COMMUNICATOR/TRANSMITTER (DACT).
- SOUND A CODE 3 TEMPORAL EVACUATION SIGNAL OVER ALL AUDIO CIRCUITS. EXCEPT IN DESIGNATED AREAS OF ASSEMBLY. IN DESIGNED AREAS OF ASSEMBLY (SOUND A PRE-RECORDED VOICE MESSAGE(S) LOCATED AT THE FACP OR REMOTE LOCATION(S) IN ACCORDANCE WITH THE LOCAL REQUIREMENTS.
- FLASH ALL VISUAL SIGNALS THROUGHOUT THE BUILDING IN A SYNCHRONIZED MANNER.
- FLASH AN ALARM LED AND SOUND AN AUDIBLE SIGNAL AT THE FACP. UPON ACKNOWLEDGEMENT THE ALARM LED SHALL LIGHT STEADILY AND THE AUDIBLE SHALL SILENCE. SUBSEQUENT ALARMS SHALL RE-INITIATE THIS SEQUENCE.
- UPON ACTIVATION BY AN ELEVATOR LOBBY SMOKE DETECTOR OR OTHER DESIGNED RECALL DEVICES, RECALL ALL ELEVATORS THAT SERVE THE FLOOR OF THE INITIALIZATION TO THE MAIN EGRESS LEVEL. IF THE ALARM INITIATES ON THE MAIN EGRESS LEVEL, RETURN THE ELEVATOR TO THE ALTERNATE FLOOR AS DIRECTED BY THE LOCAL AUTHORITY HAVING JURISDICTION.
- VISUALLY INDICATE THE ALARM INITIATING DEVICE TYPE AND LOCATION VIA THE LCD DISPLAY LOCATED AT THE FACP (AND AT ANY REMOTE ANNUNCIATORS) AND (ILLUMINATE THE APPROPRIATE ALARM ZONE LED AT THE REMOTE ANNUNCIATORS).
- AUTOMATICALLY SHUT DOWN OR CONTROL HVAC EQUIPMENT TO INITIATED SMOKE CONTROL FUNCTIONS AS REQUIRED. MANUAL OVERRIDE CONTROLS AND PROGRAMMABLE RELAY INTERFACE SHALL SERVE AS AN INTERFACE TO THE BUILDING AUTOMATION SYSTEM.
- OPERATE PRIORITIZED OUTPUTS TO RELEASE ALL MAGNETICALLY HELD SMOKE DOORS AND MAGNETICALLY LOCKED DOORS THROUGHOUT THE BUILDING.
- ACTIVATE THE EXTERIOR WEATHERPROOF BEACON. 9.
- PROGRAMMING 1. THE SYSTEM SHALL BE PROGRAMMED TO INCLUDE THE NEW DEVICES BEING ADDED TO THE SYSTEM AS REQUIRED PER THE CODE AND LOCAL AUTHORITY HAVING JURISDICTION.
- BATTERIES 2. BATTERIES SHALL HAVE SUFFICIENT CAPACITY TO POWER THE FIRE ALARM SYSTEM FOR NOT LESS
- THAN SIXTY HOURS PLUS 5 MINUTES OF ALARM UPON A NORMAL AC POWER FAILURE. D. <u>INSTALLATION:</u>
- 1. INSTALLATION SHALL BE IN ACCORDANCE WITH THE NEC, NFPA 72, LOCAL AND STATE CODES AS SHOWN ON THE DRAWINGS AND AS RECOMMENDED BY THE MAJOR EQUIPMENT MANUFACTURER.
- 2. ALL FIRE DETECTION AND ALARM SYSTEM DEVICES SHALL BE FLUSH MOUNTED WHEN LOCATED IN FINISHED AREAS AND MAY BE SURFACE MOUNTED WHEN LOCATED IN UNFINISHED AREAS.
- CONDUCTORS SHALL BE MINIMUM #12AWG GAUGE COPPER TYPE THHN/THWN FIRE RATED ALL 3. CONDUCTORS SHALL BE CONCEALED AND INSTALLED IN A CONDUIT. CONDUCTOR SIZES SHALL BE INCREASED AS REQUIRED TO MAINTAIN VOLTAGE TO A MINIMUM OF 3%. ALL AC AND DC PORTIONS OF THE SYSTEM SHALL BE INSTALLED IN SEPARATE RACEWAYS.
- RED PAINTED TERMINAL CABINETS AND BOXES WITH LOCKABLE COVERS SHALL BE PROVIDED AT 4. ALL JUNCTION POINTS FOR FIRE ALARM SYSTEM WIRING.
- E. <u>TEST:</u> PROVIDE THE SERVICE OF A COMPETENT FACTORY TRAINED ENGINEER OR TECHNICIAN AUTHORIZED BY THE MANUFACTURER OF THE FIRE ALARM EQUIPMENT TO TECHNICALLY SUPERVISE AND PARTICIPATE DURING ALL OF THE ADJUSTMENTS AND TESTS FOR THE SYSTEM. ALL TESTING SHALL BE IN ACCORDANCE WITH NFPA 72, CHAPTER 7 AND THE STATE FIRE CODE.
- 2. THE FINAL TEST SHALL BE OBSERVED BY THE LOCAL AUTHORITY HAVING JURISDICTION

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KEY PLAN

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HISTORY OF SUBMISSIONS



FOR CONSTRUCTION

SHEET TITLE

ELECTRICAL SPECIFICATIONS

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