HILLSIDE INTERMEDIATE SCHOOL
LOWER LEVEL CEILINGS REPLACEMENT

STATE PROJECT NO. TMP-088-MJTB

51 HILLSIDE AVENUE
NAUGATUCK, CT 06770

LIST OF DRAWINGS

VOLUME 1 OF 1 | DRAWINGS ISSUED FOR BIDDING AND CONSTRUCTION | 5/2/2016

KAESTLE BOOS ASSOCIATES, INC. ARCHITECTURAL, STRUCTURAL & LANDSCAPE

CONSULTING ENGINEERING SERVICES, INC. MECHANICAL, PLUMBING & ELECTRICAL ENGINEER

TRC COMPANIES, INC. HAZARDOUS MATERIALS

ABBREVIATIONS

SEE THE LIST OF DRAWINGS FOR LOCATIONS OF ABBREVIATIONS RELATING TO OTHER DISCIPLINES.

ABOVE FINISH FLOOR	A.F.F.
ABUSE RESISTANT GYPSUM BOARD	A.R.G.B.
ACOUSTIC, ACOUSTICAL	AC
ACOUSTICAL CEILING TILE	A.C.T.
ADDITION	ADDN
AIR CONDITIONING	A/C
AIR HANDLING UNIT	A.H.U.
ALTERNATE	ALT
ALUMINUM	ALUM.
AMERICANS WITH DISABILITIES ACT	A.D.A.
ANCHOR, ANCHORAGE	ANCH
ANCHOR BOLTS	AB
AND	&
ANGLE	L
ANODIZED	ANOD.
APPROVED	APPR.
ARCHITECT, ARCHITECTURAL	ARCH.
ASBESTOS	ASB.
ASPHALT	ASPH.
ASSEMBLY	ASSY
ASSISTANT	ASST
AT	@
AUTOMATIC	AUTO.
BEAM	BM
BEARING	BRG
BETWEEN	BET.
BEVEL, BEVELED	BEV.
BITUMINOUS	BIT.
BLOCK	BLK
BLOCKING	BLKG
BOARD	BD
BOTTOM	BOTT.
BOTTOM OF	B.O.
BRICK EXPANSION JOINT	B.E.J.
BUILDING	BLDG.
BUILT-UP-ROOFING	B.U.R.
CABINET	CAB.
CABINET UNIT HEATER	C.U.H.
CAPACITY	CAP.
CEILING	CLG
CEILING HEIGHT	CLG. HT.
CEMENT	CEM.
CENTER	CTR
CENTERLINE	℄
CERAMIC TILE	CER. T.
CHALKBOARD	C.BD.
CHANNEL	C
CLEAR	CLR.
CLOSET	CL.
COLUMN	COL.
CONCRETE	CONC.
CONFERENCE	CONF.
CONTROL/CONSTRUCTION JOINT	CJ
CONTINUOUS	CONT.
CONTRACTOR	CONTR.
CORRIDOR	CORR.
COURSE, COURSES	CRS.
DAMPPROOFING	DMPFG
DEGREE	DEG.
DEMOLITION	DEMO.
DEPARTMENT	DEPT.
DETAIL	DET.
DIAMETER	DIA.
DIMENSION	DIM.
DISTANCE	DIST.
DOOR	DR
DOUBLE	DBL.
DOUBLE HUNG	D.H.
DOWN	DN
DOWN SPOUT	D.S.
DRAWING	DWG
DRINKING FOUNTAIN	D.F.
EACH	EA.
ELECTRIC, ELECTRICAL	ELEC.
ELECTRIC WATER COOLER	EWC
ELEVATION	EL.
ELEVATOR	ELEV.
EMERGENCY	EMERG.
EQUAL	EQ.
EQUIPMENT	EQUIP.
ETHYLENE-PROPYLENE-DIENE-MONOMER	E.P.D.M.
EXHAUST FAN	E.F.
EXISTING	EXIST.
EXISTING FIRE BLANKET	EFB
EXISTING FIRE EXTINGUISHER	EFE
EXISTING ROOF DRAIN	E.R.D.
EXISTING TO REMAIN	E.T.R.
EXPANSION	EXP.
EXPANSION JOINT	E.J.
EXTERIOR	EXT.
EXTERIOR INSULATION AND FINISH SYSTEM	E.I.F.S.
FEET, FOOT	FT
FINISH, FINISHED	FIN.
FINISHED FLOOR	F.F.
FIRE BLANKET	FB
FIRE EXTINGUISHER	F.E.
FIRE RETARDANT TREATED	F.R.T.
FIREPROOFING	FPRFG.
FIXTURE	FIXT.
FLASHING	FLASH.
FLOOR	FLR
FLOOR DRAIN	F.D.
FLOOR FINISH	FLR. FIN.
FOOTING	FTG
FOUNDATION	FDN
FURNISH, FURNISHED	FURN.
FURRED, FURRING	FURR.
GAUGE	GA.
GALVANIZED	GALV.
GRAB BAR	G.B.
GYPSUM WALLBOARD	GYP. BD.
HAIR DRYER	HR.D.
HAND DRYER	HD.D.
HANDICAPPED	H.C.
HEIGHT	HGT
HIGH POINT	H.P.
HOLLOW METAL	H.M.
HOLLOW METAL FRAME	H.M.F.
HORIZONTAL	HORIZ.
HOSE BIBB	H.B.
HOUR	HR.
INCH OR INCHES	IN. OR "
INCLUDE, INCLUDING	INCL.
INFORMATION	INFO.
INSIDE DIAMETER	I.D.
INSULATION	INSUL.
INTERIOR	INT.
KICK PLATE	K.P.
LABORATORY	LAB.
LAVATORY	LAV.
LEAD COATED COPPER	L.C.C.
LIGHTING	LTG.
MACHINE	MACH.
MAINTENANCE	MAINT.
MANUFACTURER	MFR
MARKER BOARD	MBD
MASONRY	MAS.
MASONRY OPENING	M.O.
MATERIAL	MATL
MAXIMUM	MAX.
MECHANICAL	MECH.
METAL	MET.
MEZZANINE	MEZZ.
MINIMUM	MIN.
MIRROR WITH FRAME	M.W.F.
MISCELLANEOUS	MISC.
NORTH	N
NOT IN CONTRACT	N.I.C.
NOT IN PROJECT SCOPE	N.P.S.
NOT TO SCALE	N.T.S.
NUMBER	NO. OR #
OFFICE	OFF.
ON CENTER	O.C.
OPPOSITE HAND	O.H.
OUNCE	OZ.
OUTSIDE DIAMETER	O.D.
PAINTED	PTD
PAIR	PR
PAPER TOWEL DISPENSER	P.T.D.
PARTIAL	PART.
PASSAGE	PASS.
PERPENDICULAR	PERP.
PLASTER	PLAS.
PLASTIC LAMINATE	PL. LAM.
PLATE	PL.
PLUMBING	PLBG
PLYWOOD	PLWD
POLYVINYL CHLORIDE	PVC
PRECAST	P/C
PRECAST EXPANSION JOINT	P.E.J.
PREFABRICATED	PREFAB.
PRESSURE TREATED	P.T.
QUANTITY	QT
QUARRY TILE	Q.T.
RADIUS	RAD.
RAIN WATER CONDUCTOR	R.W.C.
RAIN WATER LEADER	R.W.L.
RECEIVING	RECV.
REFRIGERATOR	REFR.
REINFORCE	REINF.
REQUIRED	REQ'D
REVISED, REVISION	REV.
RISER	R.
ROBE HOOK	R.H.
ROOF DRAIN	R.D.
ROOF TOP UNIT	R.T.U.
ROOM	RM
RUBBERIZED ASPHALT FABRIC LAMINATE	R.A.F.L.
SANITARY NAPKIN DISPENSER	S.N.D.
SANITARY NAPKIN RECEPTACLE	S.N.R.
SCHEDULE	SCHED.
SCUPPER	SC
SECTION	SECT.
SEISMIC JOINT	S.J.
SHEET	SHT
SIMILAR	SIM.
SOAP DISPENSER	S.D.
SOUND TRANSMISSION CLASS	S.T.C.
SPECIFICATIONS	SPEC.
SPLASH BLOCK	S.B.
SQUARE	SQ.
SQUARE FEET (FOOT)	S.F.
STAINLESS STEEL	ST. STL.
STANDARD	STD
STEEL	STL
STONE THRESHOLD	S.T.
STORAGE	STOR.
STRUCTURAL	STRUCT.
STRUCTURAL GLAZED FACING TILE	SGFT
STRUCTURAL STEEL	S. STL.
SUSPEND, SUSPENSION	SUSP.
SWING UP GRAB BAR	S.G.B.
TACKBOARD	TBD
THROUGH	THRU
TOILET PAPER DISPENSER	T.P.D.
TOILET PARTITION	T.P.
TONGUE AND GROOVE	T. & G.
TOP OF	T.O.
TREAD	T.
TYPICAL	TYP.
UNDERWRITERS' LABORATORIES, INC.	UL
UNIT HEATER	U.H,
UNIT VENTILATOR	U.V.
UNLESS OTHERWISE NOTED	U.O.N.
URINAL SCREEN	U.S.
VENT THROUGH ROOF	VTR
VERIFY IN FIELD	V.I.F.
VERTICAL	VERT.
VESTIBULE	VEST.
VINYL COMPOSITION TILE	VCT
WATERPROOFING	WP
WELDED WIRE FABRIC	W.W.F.
WITH	W/
WOOD	WD
ZINC COATED COPPER	Z.C.C.

CEILING PLAN NOTES

1. REFLECTED CEILING PLANS ARE INTENDED FOR COORDINATION PURPOSES FOR MECHANICAL, ELECTRICAL, FIRE PROTECTION, AND ARCHITECTURAL ELEMENTS. REFER TO RESPECTIVE DRAWINGS FOR SPECIFIC REQUIREMENTS.

2. LIGHT FIXTURE SYMBOLS ON REFLECTED CEILING PLANS ARE DIAGRAMMATIC FOR REFERENCE ONLY. REFER TO ELECTRICAL DRAWINGS FOR TYPE OF LIGHT FIXTURES. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR QUANTITY OF LIGHT FIXTURES AS INDICATED ON ELECTRICAL DRAWINGS.

3. NO SUSPENDED LOADS SHALL BE SUPPORTED BY THE ROOF DECK. THIS INCLUDES LIGHTING, CEILING SYSTEMS, ETC. ALL COMPONENTS SHALL BE SUSPENDED DIRECTLY FROM THE MAIN STRUCTURAL STEEL FRAMING MEMBERS PREFERABLY UTILIZING A SYSTEM OF UNISTRUTS, BEAM CLAMPS, AND THREADED RODS. ALL ATTACHMENT DEVISES SHALL BE SUBMITTED FOR REVIEW AND ARE SUBJECT TO APPROVAL OF THE MEP ENGINEER.

ACOUSTICAL PANEL CEILINGS

PART 1 – GENERAL

1.1 RELATED DOCUMENTS

A. THE CONTRACTOR, SUBCONTRACTORS, AND/OR SUPPLIERS PROVIDING GOODS AND SERVICES REFERENCED IN OR RELATED TO THIS SECTION SHALL ALSO BE BOUND BY THE RELATED DOCUMENTS IDENTIFIED IN DIVISION 01 SECTION "SUMMARY."

1.2 SUMMARY

A. SECTION INCLUDES:

1. ACOUSTICAL PANELS AND EXPOSED SUSPENSION SYSTEMS FOR CEILINGS.

1.3 DEFINITIONS

A. CAC: CEILING ATTENUATION CLASS.

B. LR: LIGHT REFLECTANCE COEFFICIENT.

C. NRC: NOISE REDUCTION COEFFICIENT.

1.4 SUBMITTALS

A. PRODUCT DATA: FOR EACH TYPE OF PRODUCT INDICATED.

B. COORDINATION DRAWINGS: REFLECTED CEILING PLANS, DRAWN TO SCALE, ON WHICH THE FOLLOWING ITEMS ARE SHOWN AND COORDINATED WITH EACH OTHER, BASED ON INPUT FROM INSTALLERS OF THE ITEMS INVOLVED:

1. CEILING SUSPENSION SYSTEM MEMBERS.
2. METHOD OF ATTACHING HANGERS TO BUILDING STRUCTURE.
3. CEILING-MOUNTED ITEMS INCLUDING LIGHTING FIXTURES, DIFFUSERS, GRILLES, SPEAKERS, SPRINKLERS, ACCESS PANELS, AND SPECIAL MOLDINGS.
4. MINIMUM DRAWING SCALE: 1/8 INCH = 1 FOOT.

C. SAMPLES FOR VERIFICATION: FOR EACH COMPONENT INDICATED AND FOR EACH EXPOSED FINISH REQUIRED, PREPARED ON SAMPLES OF SIZE INDICATED BELOW.

1. ACOUSTICAL PANEL: SET OF 6-INCH- SQUARE SAMPLES OF EACH TYPE, COLOR, PATTERN, AND TEXTURE.
2. EXPOSED SUSPENSION SYSTEM MEMBERS, MOLDINGS, AND TRIM: SET OF 12-INCH- LONG SAMPLES OF EACH TYPE, FINISH, AND COLOR.

D. PRODUCT TEST REPORTS: BASED ON EVALUATION OF COMPREHENSIVE TESTS PERFORMED BY A QUALIFIED TESTING AGENCY, FOR EACH ACOUSTICAL PANEL CEILING.

E. RESEARCH/EVALUATION REPORTS: FOR EACH ACOUSTICAL PANEL CEILING AND COMPONENTS.

F. MAINTENANCE DATA: FOR FINISHES TO INCLUDE IN MAINTENANCE MANUALS.

G. WARRANTIES: SPECIAL WARRANTIES SPECIFIED IN THIS SECTION.

1.5 QUALITY ASSURANCE

A. MOCKUPS: BUILD MOCKUPS TO VERIFY SELECTIONS MADE UNDER SAMPLE SUBMITTALS AND TO DEMONSTRATE AESTHETIC EFFECTS AND SET QUALITY STANDARDS FOR MATERIALS AND EXECUTION.

1. APPROVED MOCKUPS MAY BECOME PART OF THE COMPLETED WORK IF UNDISTURBED AT TIME OF SUBSTANTIAL COMPLETION.

1.6 DELIVERY, STORAGE, AND HANDLING

A. DELIVER ACOUSTICAL PANELS, SUSPENSION SYSTEM COMPONENTS, AND ACCESSORIES TO PROJECT SITE IN ORIGINAL, UNOPENED PACKAGES AND STORE THEM IN A FULLY ENCLOSED, CONDITIONED SPACE WHERE THEY WILL BE PROTECTED AGAINST DAMAGE FROM MOISTURE, HUMIDITY, TEMPERATURE EXTREMES, DIRECT SUNLIGHT, SURFACE CONTAMINATION, AND OTHER CAUSES.

B. BEFORE INSTALLING ACOUSTICAL PANELS, PERMIT THEM TO REACH ROOM TEMPERATURE AND A STABILIZED MOISTURE CONTENT.

C. HANDLE ACOUSTICAL PANELS CAREFULLY TO AVOID CHIPPING EDGES OR DAMAGING UNITS IN ANY WAY.

1.7 PROJECT CONDITIONS

A. ENVIRONMENTAL LIMITATIONS: DO NOT INSTALL ACOUSTICAL PANEL CEILINGS UNTIL SPACES ARE ENCLOSED AND WEATHERPROOF, WET WORK IN SPACES IS COMPLETE AND DRY, WORK ABOVE CEILINGS IS COMPLETE, AND AMBIENT TEMPERATURE AND HUMIDITY CONDITIONS ARE MAINTAINED AT THE LEVELS INDICATED FOR PROJECT WHEN OCCUPIED FOR ITS INTENDED USE.

1.8 COORDINATION

A. COORDINATE LAYOUT AND INSTALLATION OF ACOUSTICAL PANELS AND SUSPENSION SYSTEM WITH OTHER CONSTRUCTION THAT PENETRATES CEILINGS OR IS SUPPORTED BY THEM, INCLUDING LIGHT FIXTURES, HVAC EQUIPMENT, AND PARTITION ASSEMBLIES.

1.9 EXTRA MATERIALS

A. FURNISH EXTRA MATERIALS DESCRIBED BELOW THAT MATCH PRODUCTS INSTALLED AND THAT ARE PACKAGED WITH PROTECTIVE COVERING FOR STORAGE AND IDENTIFIED WITH LABELS DESCRIBING CONTENTS.

1. ACOUSTICAL CEILING PANELS: FULL-SIZE PANELS EQUAL TO 2 PERCENT OF QUANTITY INSTALLED, FOR EACH CEILING PANEL TYPE.
2. SUSPENSION SYSTEM COMPONENTS: QUANTITY OF EACH EXPOSED COMPONENT EQUAL TO 2 PERCENT OF QUANTITY INSTALLED, FOR EACH SUSPENSION SYSTEM TYPE.

1.10 WARRANTY

A. SPECIAL WARRANTY FOR ACOUSTICAL PANEL CEILINGS AND SUSPENSION SYSTEMS: MANUFACTURER'S STANDARD FORM IN WHICH MANUFACTURER AGREES TO REPLACE ACOUSTICAL PANEL CEILINGS AND SUSPENSION SYSTEMS THAT FAIL IN MATERIALS OR WORKMANSHIP WITHIN SPECIFIED WARRANTY PERIOD.

1. FAILURE OF CEILING PANELS INCLUDES SAGGING AND WARPING, AND GROWTH OF MOLD, MILDEW AND STAIN CAUSING BACTERIA.
2. FAILURE OF SUSPENSION SYSTEMS INCLUDES RUSTING.
3. WARRANTY DOES NOT COVER DAMAGES THAT MAY OCCUR FROM VIBRATIONS, FIRE, WATER, FREEZING TEMPERATURES, ACCIDENT OR ANY FORM OF ABUSE OR EXPOSURE TO ABNORMAL CONDITIONS.
4. WARRANTY PERIOD: 30 YEARS FROM DATE OF SUBSTANTIAL COMPLETION.

B. SPECIAL WARRANTY: MANUFACTURER'S STANDARD FORM IN WHICH MANUFACTURER AGREES TO REPAIR OR REPLACE COMPONENTS OF SOUND-ABSORBING CEILING UNITS THAT FAIL IN MATERIALS OR WORKMANSHIP WITHIN SPECIFIED WARRANTY PERIOD.

1. FAILURES INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING:
   a. ACOUSTICAL PERFORMANCE.
   b. WARPING OF CORE.
2. WARRANTY PERIOD: TWO YEARS FROM DATE OF SUBSTANTIAL COMPLETION.

PART 2 – PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

A. SEISMIC PERFORMANCE: ACOUSTICAL CEILING SHALL WITHSTAND THE EFFECTS OF EARTHQUAKE MOTIONS DETERMINED ACCORDING TO ASCE/SEI 7 AND THE CONNECTICUT STATE BUILDING CODE.

B. SURFACE-BURNING CHARACTERISTICS: COMPLY WITH ASTM E 84; TESTING BY A QUALIFIED TESTING AGENCY. IDENTIFY PRODUCTS WITH APPROPRIATE MARKINGS OF APPLICABLE TESTING AGENCY.

1. FLAME-SPREAD INDEX: COMPLY WITH ASTM E 1264 FOR CLASS A MATERIALS.
2. SMOKE-DEVELOPED INDEX: 450 OR LESS.

C. FIRE-RESISTANCE RATINGS: COMPLY WITH ASTM E 119; TESTING BY A QUALIFIED TESTING AGENCY. IDENTIFY PRODUCTS WITH APPROPRIATE MARKINGS OF APPLICABLE TESTING AGENCY.

1. INDICATE DESIGN DESIGNATIONS FROM UL'S "FIRE RESISTANCE DIRECTORY" OR FROM THE LISTINGS OF ANOTHER QUALIFIED TESTING AGENCY.

2.2 ACOUSTICAL PANELS, GENERAL

A. SOURCE LIMITATIONS: OBTAIN EACH TYPE OF ACOUSTICAL CEILING PANEL AND SUPPORTING SUSPENSION SYSTEM FROM SINGLE SOURCE FROM SINGLE MANUFACTURER.

B. GLASS-FIBER-BASED PANELS: MADE WITH BINDER CONTAINING NO UREA FORMALDEHYDE.

C. ACOUSTICAL PANEL STANDARD: PROVIDE MANUFACTURER'S STANDARD PANELS OF CONFIGURATION INDICATED THAT COMPLY WITH ASTM E 1264 CLASSIFICATIONS AS DESIGNATED BY TYPES, PATTERNS, ACOUSTICAL RATINGS, AND LIGHT REFLECTANCES, UNLESS OTHERWISE INDICATED.

1. MOUNTING METHOD FOR MEASURING NRC: TYPE E-400; PLENUM MOUNTING IN WHICH FACE OF TEST SPECIMEN IS 15-3/4 INCHES AWAY FROM TEST SURFACE PER ASTM E 795.

D. ANTIMICROBIAL FUNGICIDE TREATMENT: PROVIDE ACOUSTICAL PANELS WITH FACE AND BACK SURFACES COATED WITH ANTIMICROBIAL TREATMENT CONSISTING OF MANUFACTURER'S STANDARD FORMULATION WITH FUNGICIDE ADDED TO INHIBIT GROWTH OF MOLD AND MILDEW AND SHOWING NO MOLD OR MILDEW GROWTH WHEN TESTED ACCORDING TO ASTM D 3273 AND EVALUATED ACCORDING TO ASTM D 3274 OR ASTM G 21.

2.3 ACOUSTICAL PANELS FOR ACOUSTICAL PANEL CEILING

A. BASIS-OF-DESIGN PRODUCT: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS AS INDICATED BY ARMSTRONG WORLD INDUSTRIES, INC. OR A COMPARABLE PRODUCT BY ONE OF THE FOLLOWING:

1. CERTAINTEED, INC.
2. USG INTERIORS, INC.

B. CLASSIFICATION: PROVIDE PANELS COMPLYING WITH ASTM E 1264 FOR TYPE, FORM, AND PATTERN AS FOLLOWS:

1. CEILING TYPE C-1:

a. BASIS OF DESIGN PRODUCT: ARMSTRONG WORLD INDUSTRIES, INC.; ULTIMA #1913.

1) TYPE AND FORM: TYPE IV, MINERAL BASE WITH MEMBRANE-FACED OVERLAY; FORM 1, NODULAR; WITH GLASS-FIBER CLOTH OVERLAY.
2) PATTERN: E (LIGHTLY TEXTURED)
3) COLOR: WHITE.
4) LR: NOT LESS THAN 0.90.
5) NRC: NOT LESS THAN 0.70.
6) CAC: NOT LESS THAN 35.
7) EDGE/JOINT DETAIL: SQUARE.
8) THICKNESS: 3/4 INCH.
9) MODULAR SIZES: 24 X 48 INCHES.
10) ANTIMICROBIAL TREATMENT: BIOBLOCK + AND HUMIGUARD PLUS.

2. CEILING TYPE C-2:

a. BASIS OF DESIGN PRODUCT: ARMSTRONG WORLD INDUSTRIES, INC.; KITCHEN ZONE

1) SURFACE TEXTURE: SMOOTH
2) COMPOSITION: MINERAL FIBER
3) COLOR: WHITE
4) SIZE: 24IN X 48IN
5) EDGE PROFILE: SQUARE LAY-IN 15/16IN FOR INTERFACE WITH PRELUDE XL 15/16" EXPOSED TEE GRID.
6) NOISE REDUCTION COEFFICIENT(NRC):
7) CEILING ATTENUATION CLASS (CAC) : ASTM C 1414; CLASSIFIED WITH UL LABEL ON PRODUCT CARTON 33.
8) SABIN: N/A
9) ARTICULATION CLASS (AC):
10) FLAME SPREAD: ASTM E 1264; CLASS A (UL)
11) LIGHT REFLECTANCE WHITE PANEL: ASTM E 1477; 0.89
12) DIMENSIONAL STABILITY: HUMIGUARD PLUS
13) RECYCLE CONTENT: POST-CONSUMER – 3% PRE-CONSUMER WASTE – 33%
14) ACCEPTABLE PRODUCT: KITCHEN ZONE, 672 AS MANUFACTURED BY ARMSTRONG WORLD INDUSTRIES

C. BROAD SPECTRUM ANTIMICROBIAL FUNGICIDE AND BACTERICIDE TREATMENT: PROVIDE ACOUSTICAL PANELS TREATED WITH MANUFACTURER'S STANDARD ANTIMICROBIAL FORMULATION THAT INHIBITS FUNGUS, MOLD, MILDEW, AND GRAM-POSITIVE AND GRAM-NEGATIVE BACTERIA AND SHOWING NO MOLD, MILDEW, OR BACTERIAL GROWTH WHEN TESTED ACCORDING TO ASTM D 3273 AND EVALUATED ACCORDING TO ASTM D 3274 OR ASTM G 21.

2.4 METAL SUSPENSION SYSTEMS, GENERAL

A. METAL SUSPENSION SYSTEM STANDARD: PROVIDE MANUFACTURER'S STANDARD DIRECT-HUNG METAL SUSPENSION SYSTEMS OF TYPES, STRUCTURAL CLASSIFICATIONS, AND FINISHES INDICATED THAT COMPLY WITH APPLICABLE REQUIREMENTS IN ASTM C 635.

B. FINISHES AND COLORS, GENERAL: COMPLY WITH NAAMM'S "METAL FINISHES MANUAL FOR ARCHITECTURAL AND METAL PRODUCTS" FOR RECOMMENDATIONS FOR APPLYING AND DESIGNATING FINISHES. PROVIDE MANUFACTURER'S STANDARD FACTORY-APPLIED FINISH FOR TYPE OF SYSTEM INDICATED.

C. ATTACHMENT DEVICES: SIZE FOR FIVE TIMES THE DESIGN LOAD INDICATED IN ASTM C 635, TABLE 1, "DIRECT HUNG," UNLESS OTHERWISE INDICATED. COMPLY WITH SEISMIC DESIGN REQUIREMENTS.

D. WIRE HANGERS, BRACES, AND TIES: PROVIDE WIRES COMPLYING WITH THE FOLLOWING REQUIREMENTS:

1. ZINC-COATED, CARBON-STEEL WIRE: ASTM A 641/A 641M, CLASS 1 ZINC COATING, SOFT TEMPER.
2. SIZE: SELECT WIRE DIAMETER SO ITS STRESS AT 3 TIMES HANGER DESIGN LOAD (ASTM C 635, TABLE 1, "DIRECT HUNG") WILL BE LESS THAN YIELD STRESS OF WIRE, BUT PROVIDE NOT LESS THAN 0.106-INCH- DIAMETER WIRE.

E. HANGER RODS: MILD STEEL, ZINC COATED OR PROTECTED WITH RUST-INHIBITIVE PAINT.

F. SEISMIC STABILIZER BARS: MANUFACTURER'S STANDARD PERIMETER STABILIZERS DESIGNED TO ACCOMMODATE SEISMIC FORCES.

G. SEISMIC STRUTS: MANUFACTURER'S STANDARD COMPRESSION STRUTS DESIGNED TO ACCOMMODATE SEISMIC FORCES.

H. SEISMIC CLIPS: MANUFACTURER'S STANDARD SEISMIC CLIPS DESIGNED AND SPACED TO SECURE ACOUSTICAL PANELS IN-PLACE.

I. HOLD-DOWN CLIPS: PROVIDE MANUFACTURER'S STANDARD HOLD-DOWN CLIPS SPACED 24 INCHES O.C. ON ALL CROSS TEES.

1. PROVIDE HOLD DOWN CLIPS AT ALL VESTIBULES.

2.5 METAL SUSPENSION SYSTEM FOR ACOUSTICAL PANEL CEILING

A. WIDE-FACE, CAPPED, DOUBLE-WEB, HOT-DIP GALVANIZED, G60, STEEL SUSPENSION SYSTEM: MAIN AND CROSS RUNNERS ROLL FORMED FROM COLD-ROLLED STEEL SHEET, HOT-DIP GALVANIZED ACCORDING TO ASTM A 653/A 653M, G60 COATING DESIGNATION, WITH PREFINISHED, COLD-ROLLED, 15/16-INCH- WIDE, METAL CAPS ON FLANGES.

1. BASIS-OF-DESIGN PRODUCT: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE ARMSTRONG WORLD INDUSTRIES, INC.; PRELUDE XL 15/16" EXPOSED TEE SYSTEM OR A COMPARABLE PRODUCT BY ONE OF THE FOLLOWING:

   a. CERTAINTEED; 15/16" CLASSIC STAB SYSTEM.
   b. USG INTERIORS, INC.; DONN DX/DXL.

2. STRUCTURAL CLASSIFICATION: INTERMEDIATE DUTY SYSTEM.
3. FACE DESIGN: FLAT, FLUSH.
4. FACE FINISH: WHITE, TYPICAL.

PART 3 – EXECUTION

3.1 EXAMINATION

A. EXAMINE SUBSTRATES, AREAS, AND CONDITIONS, INCLUDING STRUCTURAL FRAMING TO WHICH ACOUSTICAL PANEL CEILINGS ATTACH OR ABUT, WITH INSTALLER PRESENT, FOR COMPLIANCE WITH REQUIREMENTS SPECIFIED IN THIS AND OTHER SECTIONS THAT AFFECT CEILING INSTALLATION AND ANCHORAGE AND WITH REQUIREMENTS FOR INSTALLATION TOLERANCES AND OTHER CONDITIONS AFFECTING PERFORMANCE OF ACOUSTICAL PANEL CEILINGS.

1. PROCEED WITH INSTALLATION ONLY AFTER UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED.

3.2 PREPARATION

A. MEASURE EACH CEILING AREA AND ESTABLISH LAYOUT OF ACOUSTICAL PANELS TO BALANCE BORDER WIDTHS AT OPPOSITE EDGES OF EACH CEILING. AVOID USING LESS-THAN-HALF-WIDTH PANELS AT BORDERS, AND COMPLY WITH LAYOUT SHOWN ON REFLECTED CEILING PLANS.

3.3 INSTALLATION

A. GENERAL: INSTALL ACOUSTICAL PANEL CEILINGS TO COMPLY WITH ASTM C 636 AND SEISMIC DESIGN REQUIREMENTS INDICATED, PER MANUFACTURER'S WRITTEN INSTRUCTIONS AND CISCA'S "CEILING SYSTEMS HANDBOOK."

B. SUSPEND CEILING HANGERS FROM BUILDING'S STRUCTURAL MEMBERS AND AS FOLLOWS:

1. INSTALL HANGERS PLUMB AND FREE FROM CONTACT WITH INSULATION OR OTHER OBJECTS WITHIN CEILING PLENUM THAT ARE NOT PART OF SUPPORTING STRUCTURE OR OF CEILING SUSPENSION SYSTEM.
2. SPLAY HANGERS ONLY WHERE REQUIRED TO MISS OBSTRUCTIONS; OFFSET RESULTING HORIZONTAL FORCES BY BRACING, COUNTERSPLAYING, OR OTHER EQUALLY EFFECTIVE MEANS.
3. WHERE WIDTH OF DUCTS AND OTHER CONSTRUCTION WITHIN CEILING PLENUM PRODUCES HANGER SPACINGS THAT INTERFERE WITH LOCATION OF HANGERS AT SPACINGS REQUIRED TO SUPPORT STANDARD SUSPENSION SYSTEM MEMBERS, INSTALL SUPPLEMENTAL SUSPENSION MEMBERS AND HANGERS IN FORM OF TRAPEZES OR EQUIVALENT DEVICES.
4. SECURE WIRE HANGERS TO CEILING SUSPENSION MEMBERS AND TO SUPPORTS ABOVE WITH A MINIMUM OF THREE TIGHT TURNS. CONNECT HANGERS DIRECTLY EITHER TO STRUCTURES OR TO INSERTS, EYE SCREWS, OR OTHER DEVICES THAT ARE SECURE AND APPROPRIATE FOR SUBSTRATE AND THAT WILL NOT DETERIORATE OR OTHERWISE FAIL DUE TO AGE, CORROSION, OR ELEVATED TEMPERATURES.
5. SECURE FLAT, ANGLE, CHANNEL, AND ROD HANGERS TO STRUCTURE, INCLUDING INTERMEDIATE FRAMING MEMBERS, BY ATTACHING TO INSERTS, EYE SCREWS, OR OTHER DEVICES THAT ARE SECURE AND APPROPRIATE FOR BOTH STRUCTURE TO WHICH HANGERS ARE ATTACHED AND TYPE OF HANGER INVOLVED. INSTALL HANGERS IN A MANNER THAT WILL NOT CAUSE THEM TO DETERIORATE OR FAIL DUE TO AGE, CORROSION, OR ELEVATED TEMPERATURES.
6. DO NOT SUPPORT CEILINGS DIRECTLY FROM PERMANENT METAL FORMS OR FLOOR DECK. FASTEN HANGERS TO CAST-IN-PLACE HANGER INSERTS, POSTINSTALLED MECHANICAL OR ADHESIVE ANCHORS, OR POWER-ACTUATED FASTENERS THAT EXTEND THROUGH FORMS INTO CONCRETE.
7. WHEN STEEL FRAMING DOES NOT PERMIT INSTALLATION OF HANGER WIRES AT SPACING REQUIRED, INSTALL CARRYING CHANNELS OR OTHER SUPPLEMENTAL SUPPORT FOR ATTACHMENT OF HANGER WIRES.
8. WHEN STEEL FRAMING DOES NOT PERMIT INSTALLATION OF HANGER WIRES AT SPACING REQUIRED, INSTALL CARRYING CHANNELS OR OTHER SUPPLEMENTAL SUPPORT FOR ATTACHMENT OF HANGER WIRES.
9. DO NOT ATTACH HANGERS TO STEEL DECK TABS.
10. DO NOT ATTACH HANGERS TO STEEL ROOF DECK. ATTACH HANGERS TO STRUCTURAL MEMBERS.
11. SPACE HANGERS NOT MORE THAN 48 INCHES O.C. ALONG EACH MEMBER SUPPORTED DIRECTLY FROM HANGERS UNLESS OTHERWISE INDICATED; PROVIDE HANGERS NOT MORE THAN 8 INCHES FROM ENDS OF EACH MEMBER.
12. SIZE SUPPLEMENTAL SUSPENSION MEMBERS AND HANGERS TO SUPPORT CEILING LOADS WITHIN PERFORMANCE LIMITS ESTABLISHED BY REFERENCED STANDARDS AND PUBLICATIONS.

C. SECURE BRACING WIRES TO CEILING SUSPENSION MEMBERS AND TO SUPPORTS WITH A MINIMUM OF FOUR TIGHT TURNS. SUSPEND BRACING FROM BUILDING'S STRUCTURAL MEMBERS AS REQUIRED FOR HANGERS, WITHOUT ATTACHING TO PERMANENT METAL FORMS, STEEL DECK, OR STEEL DECK TABS. FASTEN BRACING WIRES INTO CONCRETE WITH CAST-IN-PLACE OR POSTINSTALLED ANCHORS.

E. INSTALL SUSPENSION SYSTEM RUNNERS SO THEY ARE SQUARE AND SECURELY INTERLOCKED WITH ONE ANOTHER. REMOVE AND REPLACE DENTED, BENT, OR KINKED MEMBERS.

F. INSTALL ACOUSTICAL PANELS WITH UNDAMAGED EDGES AND FIT ACURATELY INTO SUSPENSION SYSTEM RUNNERS AND EDGE MOLDINGS. SCRIBE AND CUT PANELS AT BORDERS AND PENETRATIONS TO PROVIDE A NEAT, PRECISE FIT.

1. FOR SQUARE-EDGED PANELS, INSTALL PANELS WITH EDGES FULLY HIDDEN FROM VIEW BY FLANGES OF SUSPENSION SYSTEM RUNNERS AND MOLDINGS.
2. INSTALL HOLD-DOWN CLIPS IN AREAS INDICATED.

PAINTING

PAINTING

1.1 INTERIOR PRIMERS

A. INTERIOR METAL PRIMER: FACTORY-FORMULATED METAL PRIMER (250 G/L).

1. BENJAMIN MOORE; SUPER SPEC ACRYLIC METAL PRIMER NO. P04: APPLIED AT A DRY FILM THICKNESS OF NOT LESS THAN 1.7 MILS.
2. GLIDDEN PROFESSIONAL DEVOE COATINGS: DEVFLEX 4020PF DIRECT TO METAL PRIMER: APPLIED AT A DRY FILM THICKNESS OF NOT LESS THAN 2.2 MILS.
3. PITTSBURGH PAINTS; 90-712 SERIES PITT-TECH INTERIOR/EXTERIOR PRIMER/FINISH DTM INDUSTRIAL ENAMEL: APPLIED AT A DRY FILM THICKNESS OF NOT LESS THAN 2.0 MILS.

   SHERWIN-WILLIAMS DOES NOT REQUIRE A PRIMER OVER GALVANIZED METAL SURFACES UNDER ACRYLIC TOPCOATS.

   SHERWIN-WILLIAMS RECOMMENDS USING PRIMER BELOW OVER GALVANIZED METAL SURFACES UNDER ALKYD FINISHES.

4. SHERWIN-WILLIAMS; PRO INDUSTRIAL PRO-CRYL UNIVERSAL ACRYLIC PRIMER B66 SERIES: APPLIED AT A DRY FILM THICKNESS OF NOT LESS THAN 2.0 MILS.

1.2 INTERIOR PAINTS

A. INTERIOR SEMI-GLOSS ACRYLIC ENAMEL FOR METAL SURFACES: FACTORY-FORMULATED SEMI-GLOSS ACRYLIC INTERIOR ENAMEL (250 G/L).

1. BENJAMIN MOORE; SUPER SPEC HP DTM ACRYLIC SEMI-GLOSS ENAMEL P29: APPLIED AT A DRY FILM THICKNESS OF NOT LESS THAN 1.5 MILS.
2. GLIDDEN PROFESSIONAL DEVOE COATINGS; DEVFLEX 4216HP WATERBORNE ACRYLIC SEMI-GLOSS ENAMEL: APPLIED AT A DRY FILM THICKNESS OF NOT LESS THAN 1.5 MILS.
3. PITTSBURGH PAINTS; 90-1210 SERIES PITT-TECH PLUS INTERIOR/EXTERIOR SEMI-GLOSS DTM INDUSTRIAL ENAMEL: APPLIED AT A DRY FILM THICKNESS OF NOT LESS THAN 2.0 MILS.
4. SHERWIN-WILLIAMS; PRO INDUSTRIAL ACRYLIC B66-650 SERIES SEMI-GLOSS: APPLIED AT A DRY FILM THICKNESS OF NOT LESS THAN 2.5 MILS.

1.3 INTERIOR PAINT SCHEDULE

A. NON-FERROUS METAL: PROVIDE THE FOLLOWING FINISH SYSTEMS OVER NON-FERROUS METAL:

1. FULL-GLOSS ACRYLIC FINISH: TWO FINISH COATS OVER A METAL PRIMER.
   a. 1sST COAT: 1ST COAT: S-W PRO INDUSTRIAL PRO-CRYL UNIVERSAL PRIMER, B66-310 SERIES (5.0 MILS WET, 2.0 MILS DRY).
   b. 2ND COAT: S-W PRO INDUSTRIAL SEMI-GLOSS ACRYLIC COATING B66-650 SERIES.
   c. 3RD COAT: S-W PRO INDUSTRIAL SEMI-GLOSS ACRYLIC COATING B66-650 SERIES (6.0 MILS WET, 2.5 MILS DRY PER COAT).

1.4 PREPARATION

A. COMPLY WITH MANUFACTURER'S WRITTEN INSTRUCTIONS AND RECOMMENDATIONS IN "MPI ARCHITECTURAL PAINTING SPECIFICATION MANUAL" APPLICABLE TO SUBSTRATES INDICATED.

B. REMOVE PLATES, MACHINED SURFACES, AND SIMILAR ITEMS ALREADY IN PLACE THAT ARE NOT TO BE PAINTED. IF REMOVAL IS IMPRACTICAL OR IMPOSSIBLE BECAUSE OF SIZE OR WEIGHT OF ITEM, PROVIDE SURFACE-APPLIED PROTECTION BEFORE SURFACE PREPARATION AND PAINTING.

1. AFTER COMPLETING PAINTING OPERATIONS, USE WORKERS SKILLED IN THE TRADES INVOLVED TO REINSTALL ITEMS THAT WERE REMOVED. REMOVE SURFACE-APPLIED PROTECTION IF ANY.
2. DO NOT PAINT OVER LABELS OF INDEPENDENT TESTING AGENCIES OR EQUIPMENT NAME, IDENTIFICATION, PERFORMANCE RATING, OR NOMENCLATURE PLATES.

C. CLEAN SUBSTRATES OF SUBSTANCES THAT COULD IMPAIR BOND OF PAINTS, INCLUDING DIRT, OIL, GREASE, AND INCOMPATIBLE PAINTS AND ENCAPSULANTS.

1. REMOVE INCOMPATIBLE PRIMERS AND REPRIME SUBSTRATE WITH COMPATIBLE PRIMERS AS REQUIRED TO PRODUCE PAINT SYSTEMS INDICATED.

D. METAL SUBSTRATES: REMOVE RUST AND LOOSE MILL SCALE. CLEAN USING METHODS RECOMMENDED IN WRITING BY PAINT MANUFACTURER.

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KEY PLAN

PROJECT TRUE

BOROUGH OF NAUGATUCK CONNECTICUT INCORPORATED 1844

HILLSIDE INTERMEDIATE SCHOOL LOWER LEVEL CEILINGS REPLACEMENT

51 HILLSIDE AVENUE
NAUGATUCK, CT 06770
STATE PROJECT NO. TMP-088-MJTB

PROJECT NO.: 16006.00 DRAWN BY: NCB

INFORMATION SHEET I

DRAWING NO.:
R0.01

Asbestos Notes:

1. **Phase 1 includes the removal of:**
   - **All 2'x4' ceiling tile with pinhole pattern as ACM**
   - **Remove all mudded pipe fittings, pipe insulation and roof drain/bowl insulation as ACM**

2. **Phase 2 is the removal of mudded pipe fittings above non asbestos containing ceiling tiles.**

3. **Recessed lighting and sprinkler heads located in the corridor and cafeteria is contaminated with asbestos. These lighting fixtures and sprinkler heads will be disposed as ACM.**

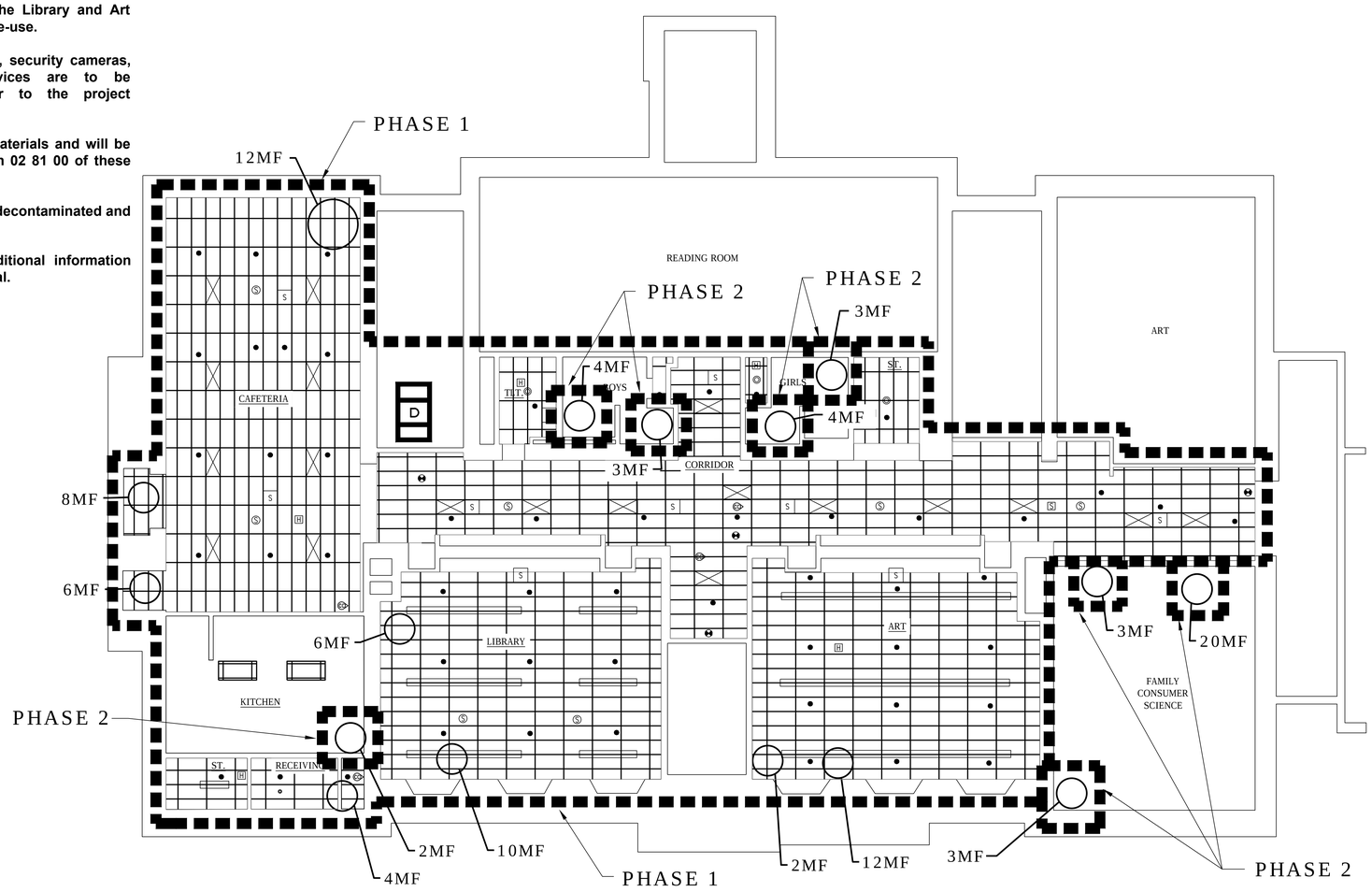
4. **Surface mounted light fixtures in the Library and Art Room are to be decontaminated for re-use.**

5. **All ceiling speakers, heat detectors, security cameras, and wireless access point devices are to be decontaminated and turned over to the project electrician.**

6. **Lamps and ballasts are regulated materials and will be disposed in accordance with section 02 81 00 of these specifications.**

7. **The existing ceiling tile grid is to be decontaminated and re-used.**

8. **Refer to Section 02 08 00 for additional information concerning Phase 1 asbestos removal.**



1 EXISTING MAIN LEVEL REFLECTED CEILING PLAN
SCALE : 1/8"=1'-0

LEGEND OF SYMBOLS

	2'X4' SUSPENDED ACOUSTICAL PANEL
	SURFACE MOUNTED LIGHT FIXTURE
	RECESSED LIGHT FIXTURE
	EXIT SIGN
S H	SMOKE OR HEAT DETECTOR
	SECURITY CAMERA
S	SPEAKER
	SECURITY MOTION DETECTOR
#MF	NUMBER MUDDED FITTING
	PHASE LINE
D	WORKER DECONTAMINATION UNIT

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KEY PLAN

SCALE: 1/8" = 1'-0" PROJECT TRUE

BOROUGH OF NAUGATUCK CONNECTICUT INCORPORATED 1844

NAUGATUCK CEILING TILE REPLACEMENT AND RELATED WORK AT HILLSIDE INTERMEDIATE SCHOOL

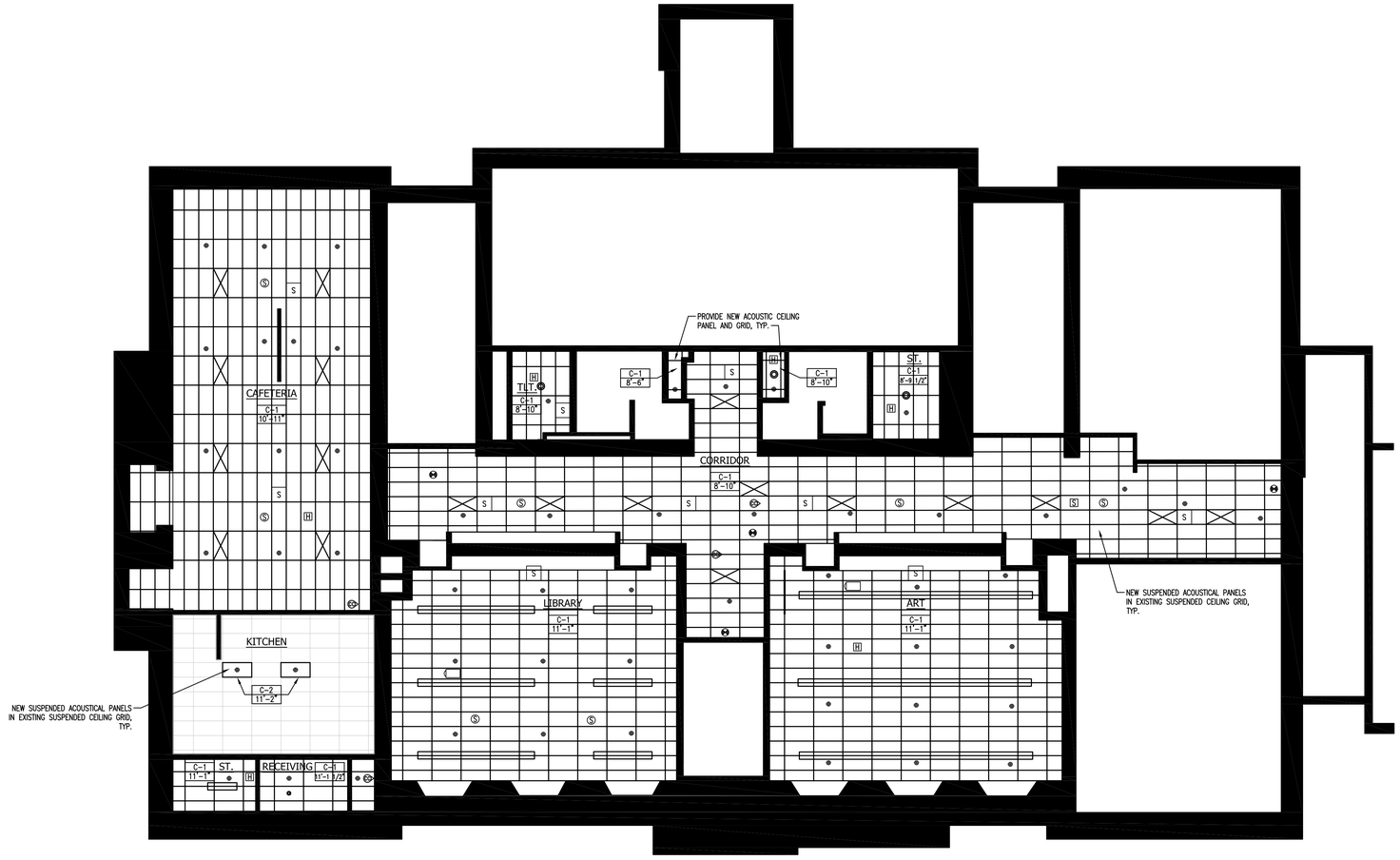
51 HILLSIDE AVENUE
NAUGATUCK, CT 06770

STATE PROJECT NO. TMP-088-MJTB

PROJECT NO.: 251709 DRAWN BY: REA

ASBESTOS ABATEMENT

DRAWING NO.:
ASB-1



1 EXISTING MAIN LEVEL REFLECTED CEILING PLAN
SCALE : 1/8"=1'-0

ALTERNATE NO. 1
PAINT ALL EXISTING SUSPENDED CEILING GRIDS WITH CEILING TYPE DESIGNATION C-1.

CEILING PLAN LEGEND

(REFER TO ELECTRICAL DRAWINGS FOR MORE INFORMATION.
REFER TO ASBESTOS DRAWINGS FOR REMOVAL OF SUSPENDED ACOUSTICAL PANELS)

- NEW 2'X4' SUSPENDED ACOUSTICAL PANEL
- EXISTING 2'X4' SUSPENDED ACOUSTICAL PANEL TO REMAIN
- RECESSED LIGHT FIXTURE
- SURFACE MOUNTED LIGHT FIXTURE
- EXIT SIGN
- [S] [H] SMOKE OR HEAT DETECTOR
- SECURITY CAMERA
- [S] (S) SPEAKER
- SECURITY MOTION DETECTOR SEE SECURITY DWGS.
- CEILING MOUNTED VIDEO PROJECTOR SEE MEP SPECIAL SYSTEMS DWGS.
- CEILING-MOUNTED PROJECTION SCREEN

CEILING TYPE LEGEND

- C-X / 0'-0" — CEILING TYPE / CEILING HEIGHT ABOVE FINISHED FLOOR
- C-1 — ACOUSTICAL PANEL (2' X 4')
- C-2 — ACOUSTICAL PANEL (2' X 4' WASHABLE)

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BOROUGH OF NAUGATUCK INCORPORATED 1844 CONNECTICUT

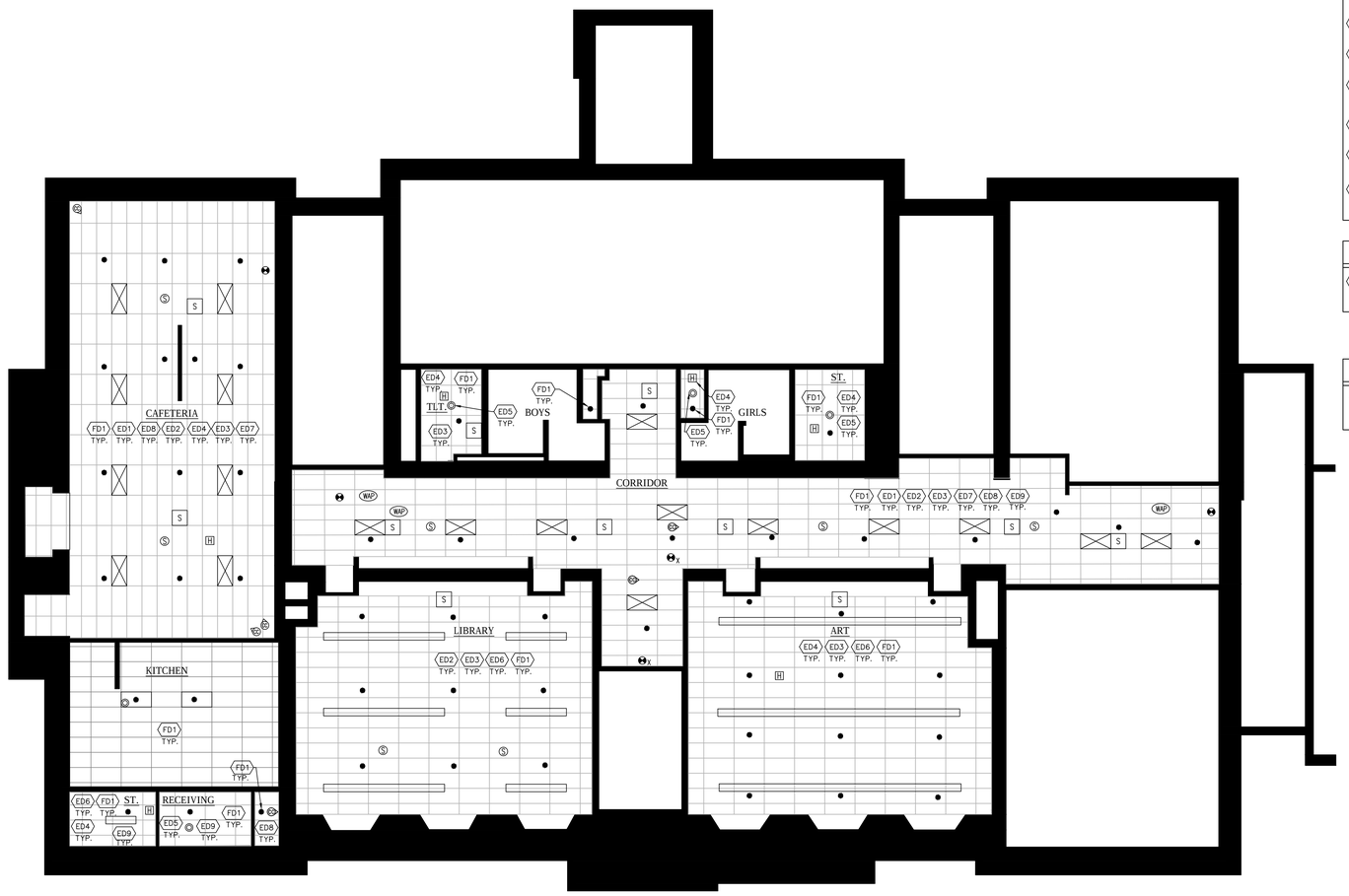
HILLSIDE INTERMEDIATE SCHOOL LOWER LEVEL CEILINGS REPLACEMENT

51 HILLSIDE AVENUE
NAUGATUCK, CT 06770
STATE PROJECT NO. TMP-088-MJTB

PROJECT NO.: 16006.00 DRAWN BY: **NCB**

LOWER LEVEL REFLECTED CEILING PLAN

DRAWING NO.:
A1.01



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

ELECTRICAL DEMOLITION NOTES

- ED1 REMOVE EXISTING RECESSED FLUORESCENT LIGHTING FIXTURES AND REPLACE WITH NEW. SEE DRAWING MEP-2.
- ED2 REMOVE EXISTING SPEAKERS AND REINSTALL AFTER NEW CEILING IS IN PLACE. CONNECT TO EXISTING WIRING.
- ED3 REMOVE EXISTING VALCOM CEILING SPEAKERS AND REINSTALL AFTER NEW CEILING IS IN PLACE. CONNECT TO EXISTING WIRING.
- ED4 REMOVE EXISTING HEAT DETECTORS AND REINSTALL AFTER NEW CEILING IS IN PLACE. CONNECT TO EXISTING WIRING.
- ED5 REMOVE EXISTING INCANDESCENT FIXTURE AND REPLACE WITH NEW. SEE DRAWING MEP-2.
- ED6 EXISTING SURFACE MOUNTED LIGHT FIXTURES TO REMAIN. PROTECT FIXTURES DURING CEILING REPLACEMENT.
- ED7 REMOVE EXISTING EXIT SIGN AND REPLACE WITH NEW. SEE DRAWING MEP-2.
- ED8 REMOVE EXISTING SECURITY CAMERA AND REINSTALL AFTER NEW CEILING IS IN PLACE. SEE MEP-2.
- ED9 REMOVE EXISTING WIRELESS ACCESS POINT AND REINSTALL AFTER NEW CEILING IS IN PLACE. TYPICAL. SEE MEP-2

FIRE PROTECTION DEMOLITION NOTES

- FD1 REMOVE EXISTING SPRINKLER HEADS AND REPLACE WITH NEW. SEE DRAWING MEP-2.

GENERAL DEMOLITION NOTE

1) REFER TO HAZARDOUS MATERIALS PLANS FOR SCOPE OF ADDITIONAL ITEMS TO BE REMOVED

MEP PLAN LEGEND

- RECESSED LIGHT FIXTURE
- PENDANT MOUNTED LIGHT FIXTURE
- SURFACE MOUNTED LIGHT FIXTURE
- EXIT SIGN
- H SMOKE OR HEAT DETECTOR
- SECURITY CAMERA
- S SPEAKER
- SPRINKLER HEAD
- ETR EXISTING TO REMAIN

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KEY PLAN

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BOROUGH OF NAUGATUCK INCORPORATED 1844 CONNECTICUT

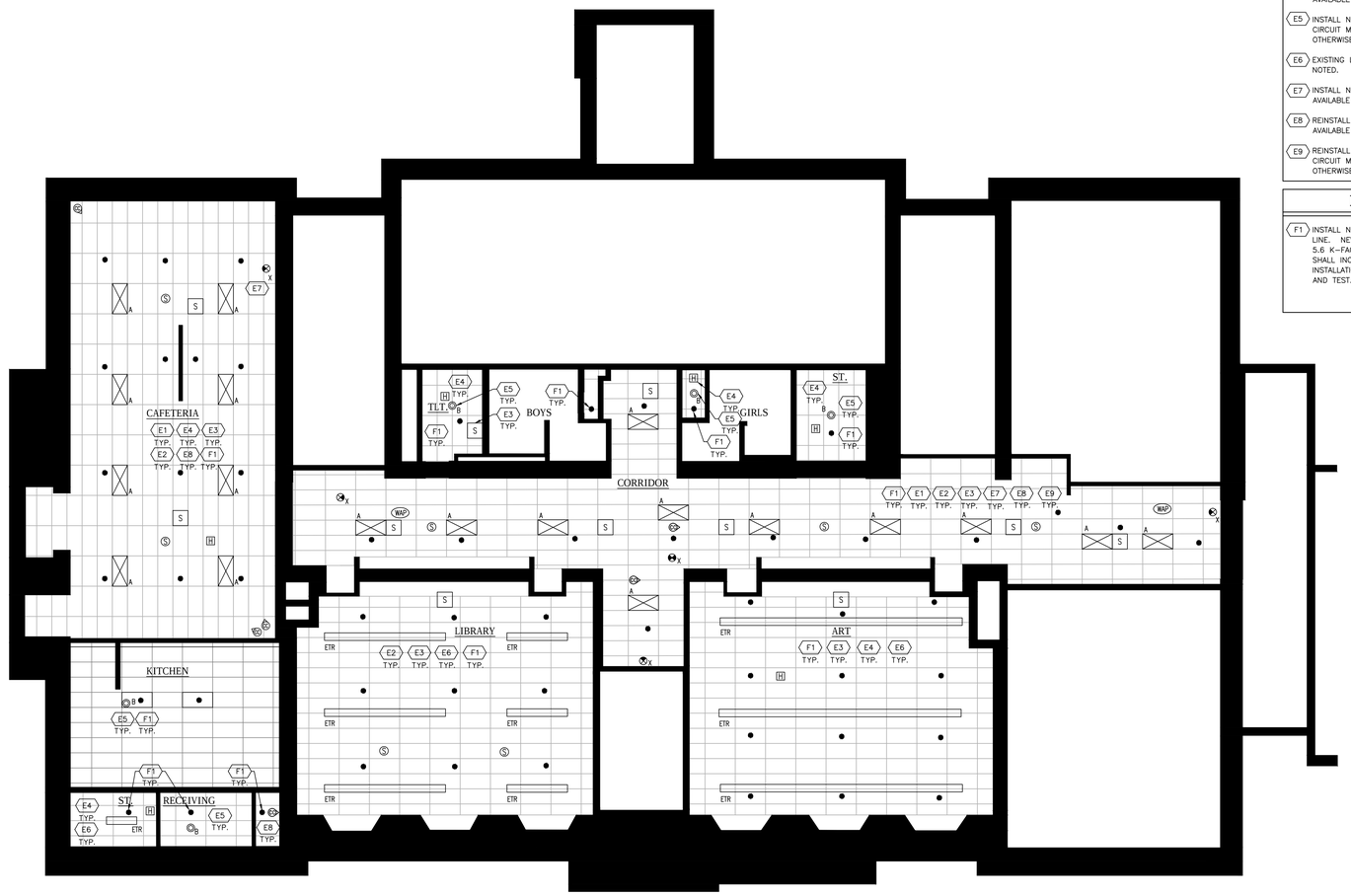
HILLSIDE INTERMEDIATE SCHOOL

51 HILLSIDE AVENUE
NAUGATUCK, CT 06770

PROJECT NO.: 16006.00 DRAWN BY: NCB

MEP DEMO PLAN

DRAWING NO.:
MEP-1



1 MEP NEW WORK PLAN
SCALE : 1/8"=1'-0

ELECTRICAL NOTES

- E1 INSTALL NEW RECESSED LIGHTING FIXTURE. CONNECT TO EXISTING CIRCUIT MADE AVAILABLE AFTER DEMOLITION. TYPICAL UNLESS OTHERWISE NOTED.
- E2 REINSTALL EXISTING SPEAKER TO EXISTING WIRING MADE AVAILABLE AFTER DEMOLITION. TYPICAL UNLESS OTHERWISE NOTED.
- E3 REINSTALL EXISTING VALCOM CEILING SPEAKER TO EXISTING WIRING MADE AVAILABLE AFTER DEMOLITION. TYPICAL UNLESS OTHERWISE NOTED.
- E4 REINSTALL EXISTING HEAT DETECTOR TO EXISTING WIRING MADE AVAILABLE AFTER DEMOLITION. TYPICAL UNLESS OTHERWISE NOTED.
- E5 INSTALL NEW SURFACE MOUNTED FIXTURE. CONNECT TO EXISTING CIRCUIT MADE AVAILABLE AFTER DEMOLITION. TYPICAL UNLESS OTHERWISE NOTED.
- E6 EXISTING LIGHT FIXTURES TO REMAIN. TYPICAL UNLESS OTHERWISE NOTED.
- E7 INSTALL NEW EXIT SIGNS. CONNECT TO EXISTING CIRCUIT MADE AVAILABLE AFTER DEMOLITION. TYPICAL UNLESS OTHERWISE NOTED.
- E8 REINSTALL EXISTING SECURITY CAMERA TO EXISTING WIRING MADE AVAILABLE AFTER DEMOLITION. TYPICAL UNLESS OTHERWISE NOTED.
- E9 REINSTALL EXISTING WIRELESS ACCESS POINT. CONNECT TO EXISTING CIRCUIT MADE AVAILABLE AFTER DEMOLITION. TYPICAL UNLESS OTHERWISE NOTED.

FIRE PROTECTION NOTES

- F1 INSTALL NEW SPRINKLER HEADS. CONNECT TO EXISTING SPRINKLER LINE. NEW SPRINKLER HEADS TO BE SEMI-RECESSED 1/2" ORIFICE, 5.6 K-FACTOR, CHROME FINISH, VICTAULIC #V2707 CONTRACTOR SHALL INCLUDE SYSTEM SHUTDOWN, DRAINING OF SYSTEM, INSTALLATION OF NEW SPRINKLER HEADS AND REFILLING OF SYSTEM AND TEST. COORDINATE WITH LOCAL FIRE MARSHALL.

LIGHTING FIXTURE SCHEDULE

TYPE	MANUFACTURER	VOLTAGE	LAMPS	FIXTURE DESCRIPTION
A	LITHONIA 2ALVL4-50L-ADP-EZ1-LP835	120	LED	2' X 4' LED RECESSED FIXTURE WITH 5000 LUMEN OUTPUT
B	LITHONIA FMML-13-8-30	120	LED	13" SURFACE MOUNTED CIRCULAR LED FIXTURE WITH WHITE ACRYLIC DIFFUSER
X	LITHONIA LQM-S-W-3-R-120/277-EL N	120	LED	LED EXIT SIGN WITH EMERGENCY BATTERY UNIT; WHITE THERMOPLASTIC HOUSING WITH RED LETTERS. UNIVERSAL SINGLE OR DOUBLE FACE.

NOTES:

1. REFER TO THE ELECTRICAL SPECIFICATIONS FOR ADDITIONAL GENERAL REQUIREMENTS.
2. FIXTURES SHALL BE UL OR ETL LISTED.
3. BALLASTS USED FOR RECESSED HID DOWNLIGHTS SHALL BE POTTED TYPE WITH MULTI-TAP BALLAST (120/277) INPUT VOLTAGE AND MINIMUM STARTING TEMPERATURE OF -20 DEGREES
4. MOUNTING HARDWARE SUCH AS HANGERS, BRACKETS, RAILS, YOKES, STEMS, CHAINS, ETC., SHALL BE PROVIDED AS NECESSARY TO MOUNT SPECIFIED FIXTURE.
5. REFER TO ARCHITECTURAL DRAWINGS AND REFLECTED CEILING PLANS FOR SPECIFIC DETAILS, ARRANGEMENT, MOUNTING HEIGHTS, CEILING CONSTRUCTION, ETC., COLORS AND FINISHES SHALL BE SELECTED BY THE ARCHITECT.
6. FIXTURES SHALL BE SEISMICALLY SUPPORTED AS REQUIRED BY THE APPLICABLE BUILDING CODE. RECESSED FLUORESCENT FIXTURES SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE WITH A MINIMUM OF 2 SUPPORTS.
7. WIRE EMERGENCY FIXTURES AND EXIT SIGNS AHEAD OF SWITCHED LEGS.

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HILLSIDE INTERMEDIATE SCHOOL

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MEP NEW WORK PLAN

DRAWING NO.:
MEP-2