RALPH M.T. JOHNSON ELEMENTARY SCHOOL ADDITIONS & RENOVATIONS

BETHEL PUBLIC SCHOOLS

500 WHITTLESEY DRIVE, BETHEL, CT 06801

STATE PROJECT No: 009-0058-RNV

Owner:
TOWN OF BETHEL
1 School Street, Bethel, CT 06801
203.794.8601

Construction Manager:
RIZZO CORPORATION
64 Triangle St, Danbury, CT 06810
203.731.3131

Civil / Site / Landscape:
MILONE & MACBROOM
99 Realty Drive Chesire, CT 06410
203.271.1773

Structural:
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Hamden, CT 06518 203.239.4200

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203.972.1605

Technology / Security / AV:
D'AGOSTINO & ASSOCIATES, LLC
1266 E. Main Street Stamford, CT
06902 203.539.6164

Acoustical Consultant:
ACENTECH INCORPORATED
33 Moulton Street Cambridge, MA
02138 617.499.8000

GENERAL NOTES

1. CODE COMPLIANCE REQUIREMENTS
In order to meet the needs of persons with disabilities, when applicable, all fixtures, furnishings and equipment items shall comply with current Connecticut State Building Code including ICC/ANCI A117.1-1998, Section 504 Rehabilitation Act 1973 including current ADA Standards for Accessible Design and Section 504 Regulations and the Americans with Disabilities Act Title II including the current ADA Standards for Accessible Design and ADA Regulations. Accessible knee and toe clearance shall comply with current ADA Standards for Accessible Design, Section 306. Compliance with the current Connecticut State Fire Safety Code and current O.S.H.A. – Title 29 / labor is also required. The items shall include, but are not limited to fixtures, furnishings, equipment, workstations 9including built-ins), laboratory fume hoods, darkroom equipment, welding stations, shop equipment, etc.

2. SECURE ATTACHMENT
To ensure proper attachment of Fixtures, Furnishing & Equipment items, including Technology items, where "items" are intended for attachment to wall, ceiling, overhead structure, and / or floor, Contractor shall provide information adequate for Architect to verify that items attached to wall, ceiling, and / or floor are attached securely. Architect's review may be implemented during submittal process. Contract shall provide struts, hangers, fasteners, hangers, safety harnesses, channels, bolts, screws, rods, etc. to securely attach items to existing structure as required to meet field conditions and meet applicable codes.

3. REFERENCE DRAWINGS
Drawings marked "FOR REFERENCE ONLY" are provided for information and reference only.

4. Comply with manufacturer's written installation instructions and recommendations.

PERKINS — EASTMAN
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FF&E PROCUREMENT DOCUMENTS - PACKAGE A

PROJECT No. 68962
August 19, 2019

PACKAGE A - FURNITURE SCHEDULES

FULL FURNITURE SCHEDULE - BY TAG

JOHNSON FURNITURE PACKAGE A	
Type Mark	Count
AC-1	1
AC-11	10
CH-1A	2
CH-1B	11
CH-6BB	6
CH-6P	24
CH-6R	24
CH-7B	216
CH-10B	2
CH-10G	3
CH-12	16
CH-14	1
CH-15	50
CH-16	4
CH-19	8
D-1	207
D-2	9
F-1	1
F-1A	2
F-1B	10
F-5	1
F-6	1
L-1	11
L-2	14
L-4	3
R-1	1
R-4	9
ST-2	9
ST-3	36
ST-6	3
ST-9M	5
ST-12d	10
ST-12s	5
ST-13	6
ST-17	9
ST-18	1
ST-19	1
T-1	12
T-3B	2
T-3CP	6
T-3TP	24
T-4	13
T-5B	9
T-7	6
T-16	3
T-19	2
T-22	12

FURNITURE SCHEDULES BY ROOM

JOHNSON MEDIA CENTER SUITE FURNITURE	
Type Mark	Count
124 MEDIA CENTER	
CH-1B	1
CH-6BB	6
CH-10B	2
CH-10G	3
CH-14	1
CH-19	8
F-1B	1
F-5	1
F-6	1
L-1	11
L-2	7
R-1	1
ST-12d	10
ST-12s	5
ST-18	1
ST-19	1
T-4	2
T-16	3
T-19	2
124a WORKROOM	
CH-1B	1
F-1	1
T-1	1
124b PROJECT ROOM	
CH-15	8
T-3TP	4
124c PROJECT ROOM	
CH-15	8
T-3TP	4
124d MAKER SPACE	
CH-6R	24
CH-12	16
CH-15	8
ST-9M	5
T-3CP	6
T-3TP	4
T-7	6
126a CONTROL BOOTH	
CH-15	2
L-2	2
126b GREEN SCREEN ROOM	
L-4	3
128 TECH/CODING AREA	
AC-1	1
CH-1A	1
CH-6P	24
F-1A	1
T-1	1
T-4	1
T-22	12

JOHNSON 5TH GRADE CLASSROOMS FURNITURE	
Type Mark	Count
127 5TH GR CLASSROOM	
AC-4 EX	1
AC-5 EX	1
AC-11	1
CH-1B	1
CH-7B	24
CH-9 EX	5
D-1	23
D-2	1
F-1B	1
R-4	1
ST-2	1
ST-3	4
ST-17	1
T-1	1
T-4	1
T-5B	1
129 5TH GR CLASSROOM	
AC-4 EX	1
AC-5 EX	1
AC-11	1
CH-1B	1
CH-7B	24
CH-9 EX	5
D-1	23
D-2	1
F-1B	1
R-4	1
ST-2	1
ST-3	4
ST-17	1
T-1	1
T-4	1
T-5B	1
130 5TH GR CLASSROOM	
AC-4 EX	1
AC-5 EX	1
AC-11	1
CH-1B	1
CH-7B	24
CH-9 EX	5
D-1	23
D-2	1
F-1B	1
R-4	1
ST-2	1
ST-3	4
ST-17	1
T-1	1
T-4	1
T-5B	1

JOHNSON 5TH GRADE CLASSROOMS FURNITURE	
Type Mark	Count
131 5TH GR CLASSROOM	
AC-4 EX	1
AC-5 EX	1
AC-11	1
CH-1B	1
CH-7B	24
CH-9 EX	5
D-1	23
D-2	1
F-1B	1
R-4	1
ST-2	1
ST-3	4
ST-17	1
T-1	1
T-4	1
T-5B	1
219 5TH GR CLASSROOM	
AC-4 EX	1
AC-5 EX	1
AC-11	1
CH-1B	1
CH-7B	24
CH-9 EX	5
D-1	23
D-2	1
F-1B	1
R-4	1
ST-2	1
ST-3	4
ST-17	1
T-1	1
T-4	1
T-5B	1
221 5TH GR CLASSROOM	
AC-4 EX	1
AC-5 EX	1
AC-11	1
CH-1B	1
CH-7B	24
CH-9 EX	5
D-1	23
D-2	1
F-1B	1
R-4	1
ST-2	1
ST-3	4
ST-17	1
T-1	1
T-4	1
T-5B	1

JOHNSON 5TH GRADE CLASSROOMS FURNITURE	
Type Mark	Count
222 5TH GR CLASSROOM	
AC-4 EX	1
AC-5 EX	1
AC-11	1
CH-1B	1
CH-7B	24
CH-9 EX	5
D-1	23
D-2	1
F-1B	1
R-4	1
ST-2	1
ST-3	4
ST-17	1
T-1	1
T-4	1
T-5B	1
223 5TH GR CLASSROOM	
AC-4 EX	1
AC-5 EX	1
AC-11	1
CH-1B	1
CH-7B	24
CH-9 EX	5
D-1	23
D-2	1
F-1B	1
R-4	1
ST-2	1
ST-3	4
ST-17	1
T-1	1
T-4	1
T-5B	1
224 5TH GR CLASSROOM	
AC-4 EX	1
AC-5 EX	1
AC-11	1
CH-1B	1
CH-7B	24
CH-9 EX	5
D-1	23
D-2	1
F-1B	1
R-4	1
ST-2	1
ST-3	4
ST-17	1
T-1	1
T-4	1
T-5B	1

JOHNSON STEM FURNITURE	
Type Mark	Count
218 STEM	
AC-11	1
CH-1A	1
CH-15	24
F-1A	1
L-2	5
ST-6	3
ST-13	6
T-1	1
T-3TP	12
T-4	1

JOHNSON PLC FURNITURE	
Type Mark	Count
220 TEAM/PLC	
CH-16	4
T-3B	2

DRAWING LIST

8.2 FURNITURE	
IF-000	COVER SHEET
IF-001	DRAWING INDEX
IF-101a	LEVEL 1 PART A FURNITURE PLAN
IF-102a	LEVEL 2 PART A FURNITURE PLAN

FOR REFERENCE ONLY 14 - ELECTRICAL	
E-001	ELECTRICAL NOTES, LEGENDS & ABBREVIATIONS
EP-101A	ELECTRICAL POWER LEVEL 1 BUILDING A PLAN
EP-101B	ELECTRICAL POWER LEVEL 1 BUILDING B PLAN
EP-101C	ELECTRICAL POWER LEVEL 1 BUILDING C PLAN
EP-102A	ELECTRICAL POWER LEVEL 2 BUILDING A PLAN
EP-102B	ELECTRICAL POWER LEVEL 2 BUILDING B PLAN

FOR REFERENCE ONLY 15 - TECHNOLOGY	
T-001	TECHNOLOGY SYMBOL LEGEND & GENERAL NOTES
T-101	TECHNOLOGY LEVEL 1 OVERALL PLAN
T-101A	TECHNOLOGY LEVEL 1, PART A & BASEMENT PLANS
T-101B	TECHNOLOGY LEVEL 1, PART B PLAN
T-101C	TECHNOLOGY LEVEL 1, PART C PLAN
T-101D	AUDIO VISUAL GYMNASIUM & CAFETERIA CONDUIT DETAILS
T-102	TECHNOLOGY LEVEL 2 OVERALL PLAN
T-102A	TECHNOLOGY LEVEL 2, PART A PLAN
T-102B	TECHNOLOGY LEVEL 2, PART B PLAN
T-200	TECHNOLOGY EQUIPMENT ROOM LAYOUTS
T-201	TECHNOLOGY DETAILS
T-202	TECHNOLOGY DETAILS
T-203	TECHNOLOGY DETAILS
T-204	TECHNOLOGY CLASSROOM ELEVATIONS
T-300	TECHNOLOGY BACKBONE DETAILS
T-301	TECHNOLOGY PUBLIC ADDRESS WIRING DIAGRAM

15.5 TECHNOLOGY FFE	
IT-001	TECHNOLOGY FFE SYMBOL LEGEND & GENERAL NOTES
IT-101A	TECHNOLOGY FFE LEVEL 1, PART A & BASEMENT PLANS
IT-101B	TECHNOLOGY FFE LEVEL 1 PART B PLAN
IT-101C	TECHNOLOGY FFE LEVEL 1 PART C PLAN
IT-101D	AUDIO VISUAL GYMNASIUM & CAFETERIA CONDUIT DETAILS
IT-101E	AUDIO VISUAL DETAILS
IT-102A	TECHNOLOGY FFE LEVEL 2, PART A PLAN
IT-102B	TECHNOLOGY FFE LEVEL 2, PART B PLAN
IT-300	AUDIO VISUAL WIRING DIAGRAMS
IT-301	AUDIO VISUAL WIRING DIAGRAMS
IT-302	TECHNOLOGY FFE AV ELEVATIONS

16 - SECURITY	
*Y-001	SECURITY SYMBOL LEGEND & GENERAL NOTES
*Y-101A	SECURITY LEVEL 1, PART A & BASEMENT PLANS
*Y-101B	SECURITY LEVEL 1 PART B PLAN
*Y-101C	SECURITY LEVEL 1 PART C PLAN
*Y-102A	SECURITY LEVEL 2 PART A PLAN
*Y-102B	SECURITY LEVEL 2 PART B PLAN
*Y-200	SECURITY DETAILS
*Y-201	SECURITY DETAILS
*Y-300	SECURITY WIRING DIAGRAMS

* NOTE:
THESE DRAWINGS WILL BE RELEASED UPON CONTRACTOR VERIFICATION. REQUEST THESE DOCUMENTS FROM THERESA YONSKY AT THE TOWN OF BETHEL 203-794-8603. PROVIDE VALID MANUFACTURER CERTIFICATION.

NO.	DATE	ISSUE

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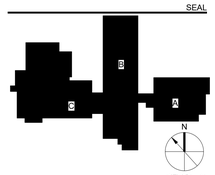

KEY PLAN

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617.499.8000

PROJECT TITLE:
RALPH M.T. JOHNSON ELEMENTARY SCHOOL ADDITIONS & RENOVATIONS
500 WHITTLESEY DRIVE, BETHEL, CT 06801
STATE PROJECT No: 009-0059-RNV

PROJECT No: 68962

DRAWING TITLE:
DRAWING INDEX

SCALE:

IF-001

FF&E PROCUREMENT DOCUMENTS - PACKAGE A

August 19, 2019

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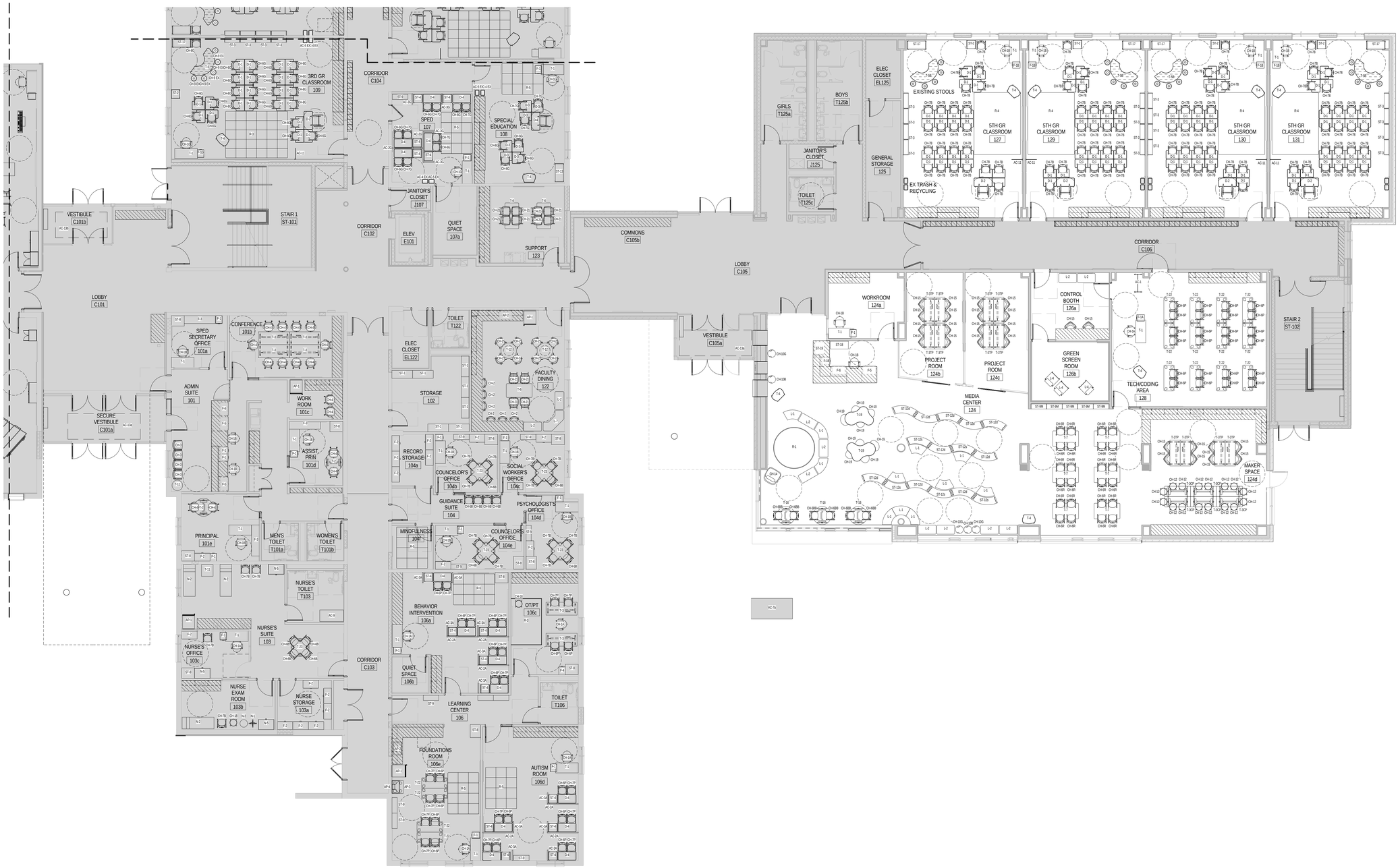

1 LEVEL 1 PART A FURNITURE PLAN

1/8" = 1'-0"

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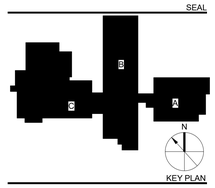

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PROJECT No: 68962

DRAWING TITLE:
LEVEL 1 PART A FURNITURE PLAN

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

IF-101a

FF&E PROCUREMENT DOCUMENTS - PACKAGE A

August 19, 2019

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1 LEVEL 2 PART A FURNITURE PLAN

1/8" = 1'-0"

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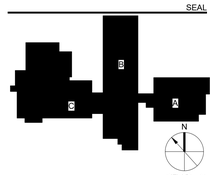

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PROJECT No: 68962

DRAWING TITLE:
LEVEL 2 PART A FURNITURE PLAN

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

IF-102a

FF&E PROCUREMENT DOCUMENTS - PACKAGE A

August 19, 2019

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FIRE ALARM LEGEND

SYMBOL	DESCRIPTION
FACP	ADDRESSABLE FIRE ALARM CONTROL PANEL WITH 80 CHARACTER ALPHANUMERIC LCD DISPLAY
FAA	FIRE ALARM ANNUNCIATOR PANEL
CM	INTELLIGENT FIRE ALARM CONTROL MODULE MOUNT ABOVE NEAREST ACCESSIBLE CEILING
MM	INTELLIGENT FIRE ALARM MONITOR MODULE MOUNT ABOVE NEAREST ACCESSIBLE CEILING
RTS	REMOTE TEST SWITCH
RM-#	REMOTE MICROPHONE
	FIRE ALARM STROBE INDICATING UNIT WALL MOUNT U.O.N. 80"AFF. # = cd (15cd UON)
#	FIRE ALARM SPEAKER/STROBE INDICATING UNIT WALL MOUNT U.O.N. 80"AFF. # = cd
WP	WEATHERPROOF FIRE ALARM SPEAKER/STROBE INDICATING UNIT WALL MOUNT U.O.N. 80"AFF. (75 cd)
C	FIRE ALARM SPEAKER/STROBE CEILING MOUNTED #= cd
WG	FIRE ALARM SPEAKER/STROBE INDICATING UNIT WALL MOUNTED U.ON. 80"AFF WITH WIREGUARD.
F	MANUAL PULL STATION
	HEAT DETECTOR
	SMOKE DETECTOR
E	SMOKE DETECTOR ELEVATOR RECALL
D	DUCT SMOKE DETECTOR
CO	SMOKE / CO COMBINATION DETECTOR
	CARBON MONOXIDE DETECTOR
FS	SPRINKLER FLOW SWITCH
TS	SPRINKLER TAMPER SWITCH
	MAGNETIC HOLD OPEN
FAGP	FIRE ALARM GRAPHICS PANEL
FSD	FIRE/ SMOKE DAMPER
EVAC	EVACUATION SYSTEM (RM- REMOTE MIC)
FATP	FIRE ALARM TRANSPONDER PANEL

FIRE ALARM SYSTEM NOTES

1. FIRE ALARM PARTIAL RISER DIAGRAM IS DIAGRAMMATIC - THE ELECTRICAL CONTRACTOR SHALL REFER TO PROJECT DRAWINGS FOR ADDITIONAL QUANTITY AND LOCATIONS OF DEVICES
2. REFER TO ELECTRICAL SYMBOLS LEGEND FOR FIRE ALARM DEVICE INFORMATION.
3. ALL WIRING SHALL BE PER MANUFACTURERS RECOMMENDATIONS AND IN CONDUIT.
4. ALL 120V POWER SHALL ORIGINATE FROM EMERGENCY CIRCUITS.
5. EXISTING FIRE ALARM SYSTEM TO BE USED DURING PHASED CONSTRUCTION AND TO BE REMOVED WHEN NEW SYSTEM IS ONLINE AND FUNCTIONING.

ELECTRICAL DEMOLITION LEGEND

SYMBOL	DESCRIPTION
	SURFACE - MOUNTED PANELBOARD (TO HAVE BLANK COVER PLATE INSTALLED AFTER REMOVAL)
	DUPLEX RECEPTACLE OUTLET (TO HAVE BLANK COVER PLATE INSTALLED AFTER REMOVAL)
	QUADRUPLEX RECEPTACLE OUTLET (TO HAVE BLANK COVER PLATE INSTALLED AFTER REMOVAL)
	MOTOR
S	SWITCH: NORMAL
	WALL BRACKET FIXTURE
F	FIRE ALARM PULL STATION
	FIRE ALARM HORN STROBE
	EXIT SIGN
	LIGHT FIXTURE
	LIGHTING FIXTURE; CEILING MOUNTED
	MAGNETIC DOOR HOLD
	HEAT DETECTOR
	EMERGENCY LIGHTING FIXTURE
EM	EMERGENCY LIGHTING MASTER PANEL
FA	FIRE ALARM MASTER PANEL
	DISCONNECT SWITCH
	SMOKE DETECTOR
ANN	FIRE ALARM ANNUNCIATOR
	SPECIAL PURPOSE RECEPTACLE (TO HAVE BLANK COVER PLATE INSTALLED AFTER REMOVAL)
B	FIRE ALARM BELL

ELECTRICAL DEMOLITION NOTES

1. EXISTING ELECTRICAL INFORMATION WAS OBTAINED FROM THE ELECTRICAL PLANS FROM BVH DATED 04/25/1978 AND FROM ACTUAL FIELD WORK SURVEY.
2. ALL DEVICES SHOWN ON DEMOLITION SHEETS SHALL BE REMOVED UNLESS NOTED OTHERWISE. REMOVAL SHALL BE COMPLETE INCLUDING WIRING, CONDUIT, SUPPORTS, BOXES, ETC. TO SOURCE PANELBOARD. CONDUIT IN EXISTING WALLS OR FLOORS TO REMAIN SHALL BE CUT FLUSH AND WIRING TO BE REMOVED.
3. DEMOLITION PLANS ARE DIAGRAMMATIC AND DO NOT DEPICT ENTIRE SCOPE OF WORK. ADDITIONAL WORK RELATED TO DEMOTION MODIFICATIONS SHOULD BE EXPECTED.
4. PRIOR TO BID, VISIT SITE AND IDENTIFY ANY EXISTING CONDITIONS THAT WILL AFFECT THE WORK TO BE PERFORMED.
5. REMOVAL OF ANY ELECTRICAL MATERIAL SHALL INCLUDE THE REMOVAL OF ALL CONTROL, CONDUCTORS, AND CONDUIT (WHERE PRACTICAL) ASSOCIATED WITH MATERIALS, UNLESS OTHERWISE NOTED.
6. ALL PCB CONTAMINATED BALLASTS TO BE REMOVED PER LOCAL, STATE, AND FEDERAL REGULATIONS
7. IN ENTIRE BUILDING REMOVE ALL LIGHTING, RECEPTACLES, FIRE ALARM, DISCONNECTS, STARTERS, PANELS, ETC. AND ASSOCIATED WIRING, CONDUIT, ETC. BACK TO SOURCE.
8. REFER TO MECHANICAL, PLUMBING AND FIRE PROTECTION PLANS FOR EQUIPMENT TO BE DEMOLISHED. REMOVE ALL STARTERS, DISCONNECTS AND ASSOCIATED WIRING FOR EQUIPMENT.
9. REFER TO ARCHITECTS PLANS FOR ALL PHASING IN REGARDS TO DEMOLITION AND REMOVAL OF ELECTRICAL EQUIPMENT.
10. CONTRACTOR TO PROVIDE BLANK COVER PLATE TO COVER EXISTING JUNCTION BOX FOR ALL DEVICES REMOVED DURING DEMOLITION PHASE IN BLOCK WALLS THAT ARE EXISTING TO REMAIN.

ELECTRICAL ABBREVIATIONS

ABBREVIATIONS	DESCRIPTION
A	AMPERES
AC	ALTERNATING CURRENT (60HZ)
A/C	AIR CONDITIONING
ADA	AMERICANS WITH DISABILITIES ACT
AF	AMP-FRAME
AFF	ABOVE FINISHED FLOOR
AT	AMP-TRIP
AUX	AUXILIARY
AWG	AMERICAN WIRE GAUGE
C	CONDUIT
CB	CIRCUIT BREAKER
cd	CANDELA
CT	CURRENT TRANSFORMER
CU	COPPER
DISC	DISCONNECT
DWG	DRAWING
EM	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
EQUIP	EQUIPMENT
EX	EXISTING EQUIPMENT TO REMAIN
FDR	FEEDER
FT	FEET
GFI	GROUND FAULT CIRCUIT INTERRUPTER
GRD	GROUND
HD	HAND HOLE
HP	HORSEPOWER
IN	INCHES
J	JUNCTION
KA	KILO AMPERE
Kcmils	THOUSAND CIRCUIT MILS
KV	KILOVOLT
KVA	KILO VOLT AMPERE
KW	KILOWATT
LTG	LIGHTING
M	METER
MCB	MAIN CIRCUIT BREAKER
MLO	MAIN LUG ONLY
MW	MICROWAVE OVEN
N/A	NOT APPLICABLE
NEC	NATIONAL ELECTRIC CODE
NECA	NATIONAL ELECTRICAL CONTRACTORS
NEMA	NATIONAL ELECTRICAL MANUFACTURERS
NEUT	NEUTRAL
NF	NOT FUSED
NIC	NOT IN CONTRACT
N.T.S.	NOT TO SCALE
OC	OVERCURRENT
P	POLE
PH	PHASE
PNL	PANLEBOARD
PRI	PRIMARY
PWR	POWER
RECPT	RECEPTACLE
RGS	RIGID GALVANIZED STEEL CONDUIT
RM	ROOM
RNC	RIGID NONMETALLIC CONDUIT
REF	REFRIGERATOR
RSC	RIGID STEEL CONDUIT
SC	SERVICE CONDUCTORS
SCHD	SCHEDULE
SCR	SHORT CIRCUIT RATING
SEC	SECONDARY
ST	SHUNT TRIP
SURF	SURFACE
SW	SWITCH
SYMB	SYMBOL
TEL	TELEPHONE
TV	TELEVISION
TYP	TYPICAL
UG	UNDERGROUND
UL	UNDERWRITER'S LABORATORY
UON	UNLESS OTHERWISE NOTED
UTIL	UTILITY
V	VOLTS
VA	VOLT AMPERES
W	WATTS
WP	WEATHERPROOF
%	PERCENT
#	NUMBER
'	FEET

ELECTRICAL LEGEND

SYMBOL	DESCRIPTION
	SURFACE - MOUNTED PANELBOARD
	BRANCH CIRCUIT POWER WIRING
1,LP	BRANCH CIRCUIT HOME RUN (ARROW INDICATES CIRCUIT NUMBER)
	EMERGENCY BRANCH CIRCUIT POWER WIRING
	SPECIAL PURPOSE RECEPTACLE
	TAMPER RESISTANT DUPLEX RECEPTACLE OUTLET
a	TAMPER RESISTANT DUPLEX RECEPTACLE OUTLET ABOVE COUNTER AT 3'-6"(REFER TO ARCHITECTS PLANS FOR HEIGHT)
GFI	TAMPER RESISTANT DUPLEX RECEPTACLE OUTLET WITH GROUND FAULT CIRCUIT INTERRUPTER
a GFI	TAMPER RESISTANT DUPLEX RECEPTACLE OUTLET ABOVE COUNTER WITH GROUND FAULT CIRCUIT INTERRUPTER
WP GFI	TAMPER RESISTANT DUPLEX RECEPTACLE OUTLET WITH GROUND FAULT CIRCUIT INTERRUPTER AND WEATHERPROOF ENCLOSURE
S GFI	TAMPER RESISTANT DUPLEX RECEPTACLE OUTLET MOUNTED IN HUBBELL MODEL #: FDS-2M BOX WITH WATERPROOF "WHILE-IN USE COVER". ALL RECEPTACLES TO BE GFI. TWO THREADED IMC OR RMC CONDUIT (18" MAX.) TO BE STUBBED INTO BOX
SB	TAMPER RESISTANT QUADRULEX RECEPTACLE OUTLET FOR SMART BOARD. REFER TO ARCHITECTS PLANS FOR MOUNTING HEIGHT.
TV	TAMPER RESISTANT DUPLEX RECEPTACLE MOUNTED AT 66" AFF FOR TV. COORDINATE LOCATION WITH ARCHITECTURAL TV MOUNT
C	TAMPER RESISTANT DUPLEX RECEPTACLE MOUNTED ABOVE CEILING FOR EVERY FAN COIL UNIT CONDENSATE PUMP.
	TAMPER RESISTANT QUADRUPLEX RECEPTACLE OUTLET
	TAMPER RESISTANT QUADRUPLEX RECEPTACLE (FLOOR BOX) LEGRAND MODEL #:RFB6E-OG
2D	TAMPER RESISTANT QUADRUPLEX RECEPTACLE (FLOOR BOX) COMBINATION WITH DATA. LEGRAND MODEL #: RFB6E-OG WITH 1"C FOR DATA STUBBED UP TO NEAREST WALL WITH NYLON PULLSTRING.
P	TAMPER RESISTANT QUADRUPLEX RECEPTACLE (POKE THROUGH) WITH OR WITHOUT DATA. LEGRAND MODEL #: 8ATC
J	JUNCTION BOX
M	JUNCTION BOX MOUNTED ABOVE CEILING FOR ATC CONTRACTOR
P	JUNCTION BOX MOUNTED ABOVE CEILING FOR PLUMBING EQUIPMENT
PR	JUNCTION BOX MOUNTED ABOVE CEILING FOR PROJECTOR
IT	JUNCTION BOX WALL MOUNTED FOR IT DOOR POWER
	MOTOR
	EXTERNALLY OPERATED FUSIBLE SAFETY DISCONNECT SWITCH. OUTDOOR DISCONNECTS TO BE NEMA3R RATED
M	UTILITY METER
X	EXIT SIGN: WALL MOUNTED SINGLE FACED
X	EXIT SIGN: WALL MOUNTED DOUBLE FACED
X	EXIT SIGN: CEILING MOUNTED SINGLE FACED WITH DIRECTIONAL ARROW
X	EXIT SIGN: CEILING MOUNTED DOUBLE FACED
HC	EXIT SIGN: WALL MOUNTED HANDICAPPED EXIT SIGN
X	EXIT SIGN: WALL MOUNTED SINGLE FACED WITH DIRECTIONAL ARROW
WG	EXIT SIGN: WALL MOUNTED WITH WIRE GUARD
S	SWITCH: NORMAL TOGGLE
CFA	SWITCH: CALL FOR AID
B	SWITCH: BOILER SHUT OFF
	CALL FOR AID LIGHT FIXTURE
EPO	ISIMET "LA SERIES" OR EQUAL EMERGENCY SHUT OFF SWITCH. SWITCH TO OPEN CONTACTOR FOR EQUIPMENT UNDER HOOD.

LIGHT FIXTURE LEGEND

SYMBOL	DESCRIPTION
	1' X 4' RECESSED FIXTURE
	1' X 4' RECESSED FIXTURE CONNECTED TO GENERATOR (TYPICAL SHADED FIXTURE)
	2' X 2' RECESSED FIXTURE
	LINEAR STRIP FIXTURE
	PENDANT FIXTURE
	NARROW RECESSED LINEAR FIXTURE
	EXTERIOR WALL PACK FIXTURE
	RECESSED SQUARE CAN FIXTURE
	WALL WASHER FIXTURE
	SITE POLE FIXTURE
	PENDANT FIXTURE
	DUAL HEAD EMERGNECY FIXTURE

LIGHTING CONTROLS LEGEND

SYMBOL	DESCRIPTION (REFER TO WIRING DIAGRAMS)
S2	SWITCH (2-BUTTON): LEGRAND #LMSW-102
S5	SWITCH (5-BUTTON): LEGRAND #LMSW-105
P1	SWITCH (PASSIVE INFRARED SENSOR): LEGRAND #PW-301 (1-BUTTON)
P2	SWITCH (PASSIVE INFRARED SENSOR): LEGRAND #PW-302 (2-BUTTON)
BC	DIGITAL NETWORK BRIDGE: LEGRAND #LMBC-300
RC1	DIGITAL ROOM CONTROLLER (1-ZONE): LEGRAND #LMRC-111
RC2	DIGITAL ROOM CONTROLLER (2-ZONE): LEGRAND #LMRC-112
OS	OCCUPANCY SENSOR: SHOWN IN CORNER: LEGRAND #LMDX-100, SHOWN IN CENTER OF ROOM: #LMUC-100
OS HB	OCCUPANCY SENSOR HIGH BAY: LEGRAND #LMPC-100-5
DL	DAYLIGHT SENSOR: LEGRAND #LMLS-400
EM	EMERGENCY LIGHTING CONTROL UNIT: LEGRAND #ECLU-200
IN	DIGITAL INPUT INTERFACE: LEGRAND #LMIN-104
SK	ANALOG KEY SWITCH: LEGRAND #1250-L

ELECTRICAL GENERAL NOTES

1. UNLESS OTHERWISE INDICATED, FURNISH AND INSTALL A COMPLETE AND OPERATIONAL ELECTRICAL SYSTEM INCLUDING ALL NECESSARY MATERIAL, LABOR, AND EQUIPMENT.
2. ELECTRICAL PLANS, DETAILS, AND ONE LINE DIAGRAMS SHOW THE GENERAL LOCATION AND ARRANGEMENT OF THE ELECTRICAL SYSTEM. THEY ARE DIAGRAMMATIC AND DO NOT SHOW ALL THE CONDUIT BODIES, CONNECTORS, BENDS, FITTINGS, HANGERS, AND ADDITIONAL PULL AND JUNCTION BOXES WHICH THE CONTRACTOR MUST PROVIDE TO COMPLETE THE ELECTRICAL SYSTEM.
3. ALL EQUIPMENT AND MATERIAL SHALL BE LABELED, LISTED, AND INSTALLED IN ACCORDANCE WITH THEIR LISTING.
4. THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS AND ARRANGE FOR ALL REQUIRED INSPECTIONS IN ACCORDANCE WITH STATE GOVERNING AUTHORITIES.
5. ALL WORK SHALL BE DONE WITH LICENSED WORKMEN IN ACCORDANCE WITH STATE GOVERNING AUTHORITIES.
6. THE DEFINITION OF ELECTRICAL TERMS USED SHALL BE AS DEFINED IN THE 2017 EDITION OF THE NATIONAL ELECTRIC CODE (NEC).
7. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE (NEC) ANSI/NFPA 70 2017 EDITION.
8. THE TERM "INDICATED" SHALL MEAN "AS SHOWN ON CONTRACT DOCUMENTS (SPECIFICATIONS, DRAWINGS, AND RELATED ATTACHMENTS)".
9. THE TERM "SIZE" SHALL MEAN ONE OR MORE OF THE FOLLOWING: "LENGTH, CURRENT AND VOLTAGE RATING, NUMBER OF POLES, NEMA SIZE, AND OTHER SIMILAR ELECTRICAL CHARACTERISTICS."
10. THE TERM "SPACE" ON PANELBOARD AND SWITCHBOARD SCHEDULES SHALL MEAN "PROVIDE SPACE TO INSTALL THE NUMBER OF POLES AND SIZE OF THE PROTECTIVE DEVICE INDICATED WITH ALL THE NECESSARY BUS AND FITTINGS TO INSTALL THE DEVICE AT SOME FUTURE DATE."
11. COORDINATE ELECTRICAL WORK WITH OWNER.
12. COORDINATE ELECTRICAL WORK WITH OTHER DIVISIONS OF THIS PROJECT.
13. BEFORE SELECTING MATERIAL EQUIPMENT AND PROCEEDING WITH WORK, INSPECT AREAS WHERE MATERIAL AND EQUIPMENT ARE TO BE INSTALLED TO INSURE SUITABILITY, AND CHECK NEEDED SPACE FOR PLACEMENT, CLEARANCES AND INTERCONNECTIONS.
14. BEFORE CUTTING OR DRILLING INTO BUILDING ELEMENTS INSPECT AND LAYOUT WORK TO AVOID DAMAGING STRUCTURAL ELEMENTS AND BUILDING UTILITIES.
15. TYPICAL MOUNTING HEIGHTS OF DEVICES SHALL COMPLY NECA 1-2015.
16. EXIT SIGNS AND EMERGENCY LIGHTING "EM" SHALL BE WIRED AHEAD OF LOCAL SWITCH CIRCUIT, LIGHT CONTACTOR, OR RELAY PANEL.
17. ELECTRICAL CONTRACTOR SHALL SEAL ALL ELECTRICAL PENETRATIONS THROUGH FIRE AND SMOKE RATED PARTITIONS WITH FIRE RATED MATERIAL EQUAL TO 3M FIRE BARRIER SEALANT CP 25WB+ AS A MINIMUM. MATERIAL SELECTION SHALL BE BASED ON RATING OF PARTITION PENETRATED.
18. ALL ELECTRICAL DEVICES ALONG A COMMON WALL SHALL BE INSTALLED IN SEPARATE STUD CAVITIES. NO BACK TO BACK INSTALLATIONS, FOR SOUND ATTENUATION PURPOSES.
19. FURNISH AND INSTALL MEANS OF DISCONNECTION FOR ALL MOTORIZED EQUIPMENT AND APPLIANCES IN ACCORDANCE WITH NEC, SECTIONS 422-III AND 430-IX.
20. BOND ALL STRUCTURAL STEEL TOGETHER ELECTRICALLY ACROSS ALL EXPANSION JOINTS AND STRUCTURAL GAPS.
21. REFER TO TECHNOLOGY DRAWINGS BY D'AGOSTINO & ASSOCIATES REGARDING POWER AND CONDUIT REQUIRED LOCATIONS.
22. ALL ELECTRICAL DEVICES AND ELECTRICAL EQUIPMENT WALL MOUNTED TO EXISTING BLOCK WALLS SHALL UTILIZE WIREMOLD V700 SERIES PATHWAY FROM CEILING TO THE DEVICE.

GENERAL NOTES - LIGHTING & POWER

1. ALL CIRCUITS ON THIS DRAWING SHALL BE SIZED 2#12, #12G, 3/4"C AND SHALL BE CONNECTED TO A NEW 20A-1P CIRCUIT BREAKER IN SOURCE PANEL INDICATED UNLESS OTHERWISE NOTED.
2. EXIT SIGNAGE SHALL BE WIRED TO LINE SIDE OF LOCAL LIFE SAFETY LIGHTING CIRCUIT, AHEAD OF ALL SWITCHED DEVICES.
3. ALL DEVICES SHALL BE LABELED WITH SOURCE PANEL AND CIRCUIT NUMBERS(S).
4. ALL OCCUPANCY SENSOR LOCATIONS ARE APPROXIMATE- REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS PRIOR TO INSTALLATION. LOCATION AND COVERAGE OF SENSORS SHOULD BE REVIEWED WHERE PENDANT MOUNTED FIXTURES ARE PRESENT.
5. CONTRACTOR IS RESPONSIBLE FOR PROPER SENSITIVITY AND TIME DELAY SETTINGS OF OCCUPANCY SENSORS. VERIFICATION OF MANUFACTURER'S RECOMMENDED PLACEMENT AND FIELD VERIFICATION OF CIRCUITS WITH RESPECT TO POWER PACK PLACEMENT.
6. PROVIDE WIREMOLD V700 SERIES RACEWAY FOR ALL DEVICES IN FINISHED AREAS WHERE WIRING MUST BE EXPOSED. PROVIDE WIRING IN CONDUIT IN UNFINISHED AREAS WHERE WIRING MUST BE EXPOSED.
7. ALL RECEPTACLES WITHIN KITCHEN SHALL BE GFCI PROTECTED.
8. REFER TO KITCHEN DRAWINGS FOR ADDITIONAL INFORMATION & REQUIREMENTS.
9. ALL DATA DROPS TO BE LOCATED WITHIN 3'-0" OF AN OUTLET U.O.N.
10. SEE MECHANICAL PLANS FOR LOCATIONS OF MECHANICAL EQUIPMENT. ALL FAN COIL UNITS AND VAV BOXES TO HAVE LOCAL DISCONNECT SWITCH TO ISOLATE POWER FROM EACH UNIT SEPARATELY.

COORDINATION NOTES

1. LOCATIONS SHOWN ARE NOT ALL INCLUSIVE AND SHALL BE COORDINATED WITH TECHNOLOGY CONSULTANT AND SECURITY CONSULTANT'S DRAWINGS.
2. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF RACEWAYS (CONDUITS, EMT, CABLE TRAYS, WIRE MOLD, TROUGH, ETC.), SYSTEM JUNCTION AND PULL BOXES, AND DEVICE ROUGH-IN BOXES FOR ALL COMMUNICATIONS AND SECURITY SYSTEM WORK SHOWN ON THE COMMUNICATIONS AND SECURITY DRAWINGS. CONDUIT, BACK-BOX, AND TROUGH WORK SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR, WORKING WITH, AND UNDER SUPERVISION OF THE COMMUNICATION AND THE SECURITY CONTRACTORS.
3. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR SUPPLYING 120VAC POWER FOR HOOK-UP TO ANY COMMUNICATIONS, SECURITY SYSTEM, AND FIRE ALARMS EQUIPMENT REQUIRING IT.
4. EXIT SIGNS AND EMERGENCY LIGHTS SHALL BE WIRED TO THE NEAREST EMERGENCY CIRCUIT AHEAD OF ANY SWITCHING.

ELECTRICAL SHEET INDEX

SHEET	NAME
E-001	ELECTRICAL NOTES, LEGENDS & ABBREVIATIONS
ES-101	ELECTRICAL SITE PLAN
ED-101A	ELECTRICAL DEMOLITION LEVEL 1 BUILDING A & B PLANS
ED-101B	ELECTRICAL DEMOLITION LEVEL 1 BUILDING C & BOILER RM PLANS
ED-102	ELECTRICAL DEMOLITION LEVEL 2 BUILDING A & B PLANS
ED-103A	ELECTRICAL DEMOLITION ROOF BUILDING A
ED-103B	ELECTRICAL DEMOLITION ROOF BUILDING B
ED-103C	ELECTRICAL DEMOLITION ROOF BUILDING C
EL-101A	ELECTRICAL LIGHTING LEVEL 1 BUILDING A PLAN
EL-101B	ELECTRICAL LIGHTING LEVEL 1 BUILDING B PLAN
EL-101C	ELECTRICAL LIGHTING LEVEL 1 BUILDING C PLAN
EL-102A	ELECTRICAL LIGHTING LEVEL 2 BUILDING A PLAN
EL-102B	ELECTRICAL LIGHTING LEVEL 2 BUILDING B PLAN
EP-101A	ELECTRICAL POWER LEVEL 1 BUILDING A PLAN
EP-101B	ELECTRICAL POWER LEVEL 1 BUILDING B PLAN
EP-101C	ELECTRICAL POWER LEVEL 1 BUILDING C PLAN
EP-102A	ELECTRICAL POWER LEVEL 2 BUILDING A PLAN
EP-102B	ELECTRICAL POWER LEVEL 2 BUILDING B PLAN
EP-103A	ELECTRICAL POWER ROOF BUILDING A PLAN
EP-103B	ELECTRICAL POWER ROOF BUILDING B PLAN
EP-103C	ELECTRICAL POWER ROOF BUILDING C PLAN
E-201	ELECTRICAL ENLARGED KITCHEN PLAN
E-202	ELECTRICAL LIGHTNING PROTECTION PLAN
E-401	ELECTRICAL RISER DIAGRAM
E-402	FIRE ALARM RISER DIAGRAM
E-501	ELECTRICAL DETAILS
E-502	ELECTRICAL DETAILS
E-503	ELECTRICAL DETAILS
E-601	ELECTRICAL SCHEDULES
E-602	ELECTRICAL SCHEDULES
E-603	ELECTRICAL SCHEDULES
E-604	ELECTRICAL SCHEDULES
E-605	ELECTRICAL SCHEDULES
E-607	ELECTRICAL LIGHT FIXTURE SCHEDULE

FOR REFERENCE ONLY
NTS.

NO.	DATE	ISSUE
3	NOV. 27, 2018	ADDENDUM #4
4	DEC. 4, 2018	ADDENDUM #5

SEAL

KEY PLAN

PERKINS — EASTMAN
422 Summer Street
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F. +1 203 251 7474

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1 School Street, Bethel,
CT 06801 203.794.8601

Construction Manager:
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CT 06810 203.731.3131

Civil / Site / Landscape:
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99 Realty Drive
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2321 Whitney Avenue, Suite 301
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203.239.4200

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203.539.6164

Acoustical Consultant:
ACENTECH INCORPORATED
33 Moulton Street
Cambridge, MA 02138
617.499.8000

PROJECT TITLE:
RALPH M. T. JOHNSON ELEMENTARY SCHOOL ADDITIONS & RENOVATIONS
500 WHITTLESEY DRIVE, BETHEL, CT 06801
STATE PROJECT No: 009-0059-RNV

PROJECT No: 68962

DRAWING TITLE:
ELECTRICAL NOTES, LEGENDS & ABBREVIATIONS

SCALE: N.T.S.

E-001

CONSTRUCTION DOCUMENTS
CONFORMED SET 2/28/2019

JULY 27, 2018

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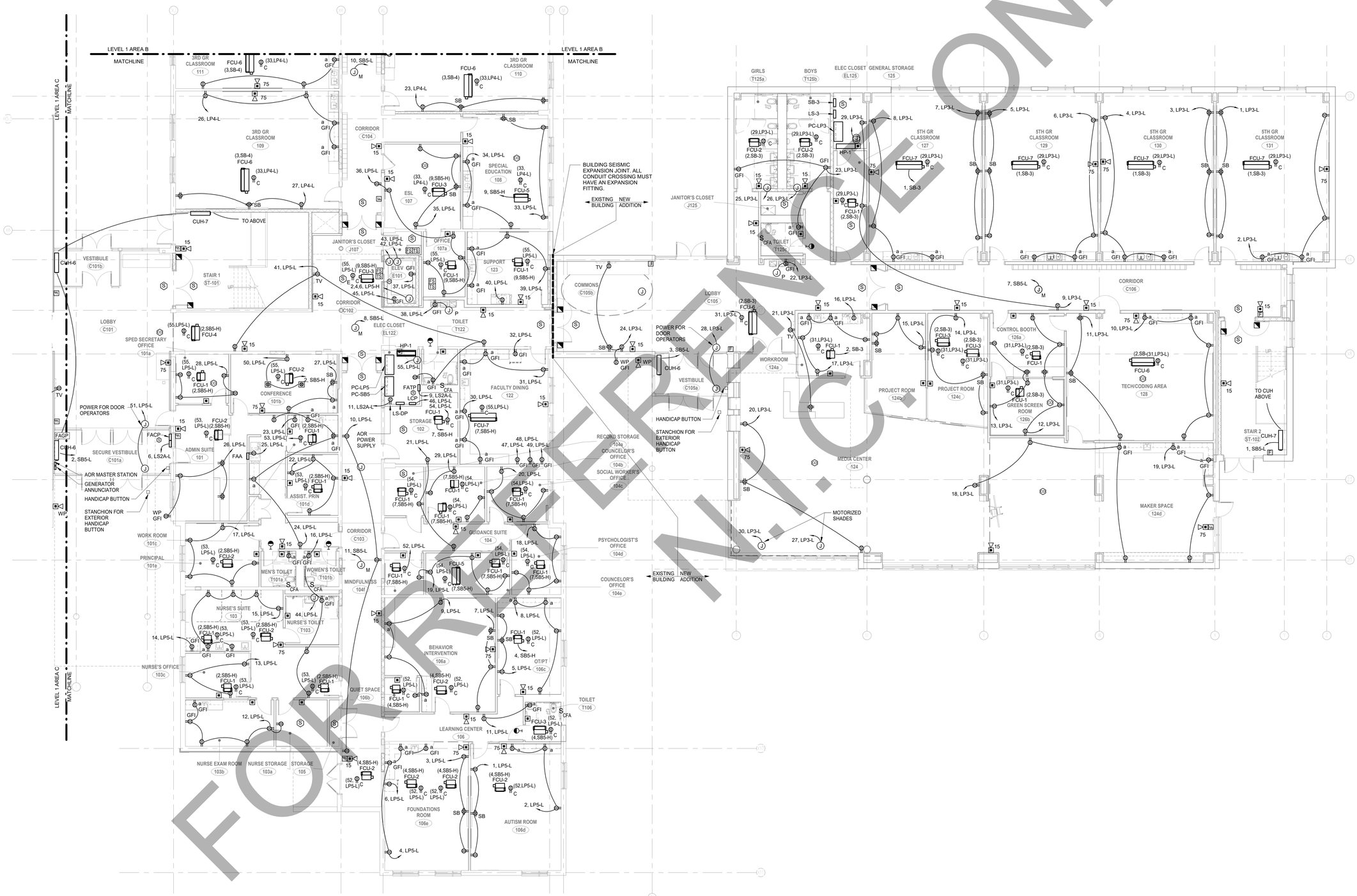
GENERAL POWER NOTES

1. ALL RECEPTACLES AND DEVICES MOUNTED TO EXISTING BLOCK WALLS TO UTILIZE SURFACE MOUNTED RACEWAYS. WHERE POSSIBLE, CONTRACTOR TO RUN WIRE INSIDE WALLS AND MOUNT DEVICES FLUSH TO WALL. REFER TO ARCHITECTURAL PLANS FOR WALL TYPES AND LOCATIONS WHERE NEW WALLS ARE TO BE INSTALLED.



1 ELECTRICAL POWER LEVEL 1 BUILDING A PLAN
1/8" = 1'-0"

FOR REFERENCE ONLY

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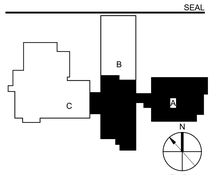

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DRAWING TITLE:
ELECTRICAL POWER LEVEL 1 BUILDING A PLAN

SCALE: As indicated

EP-101A

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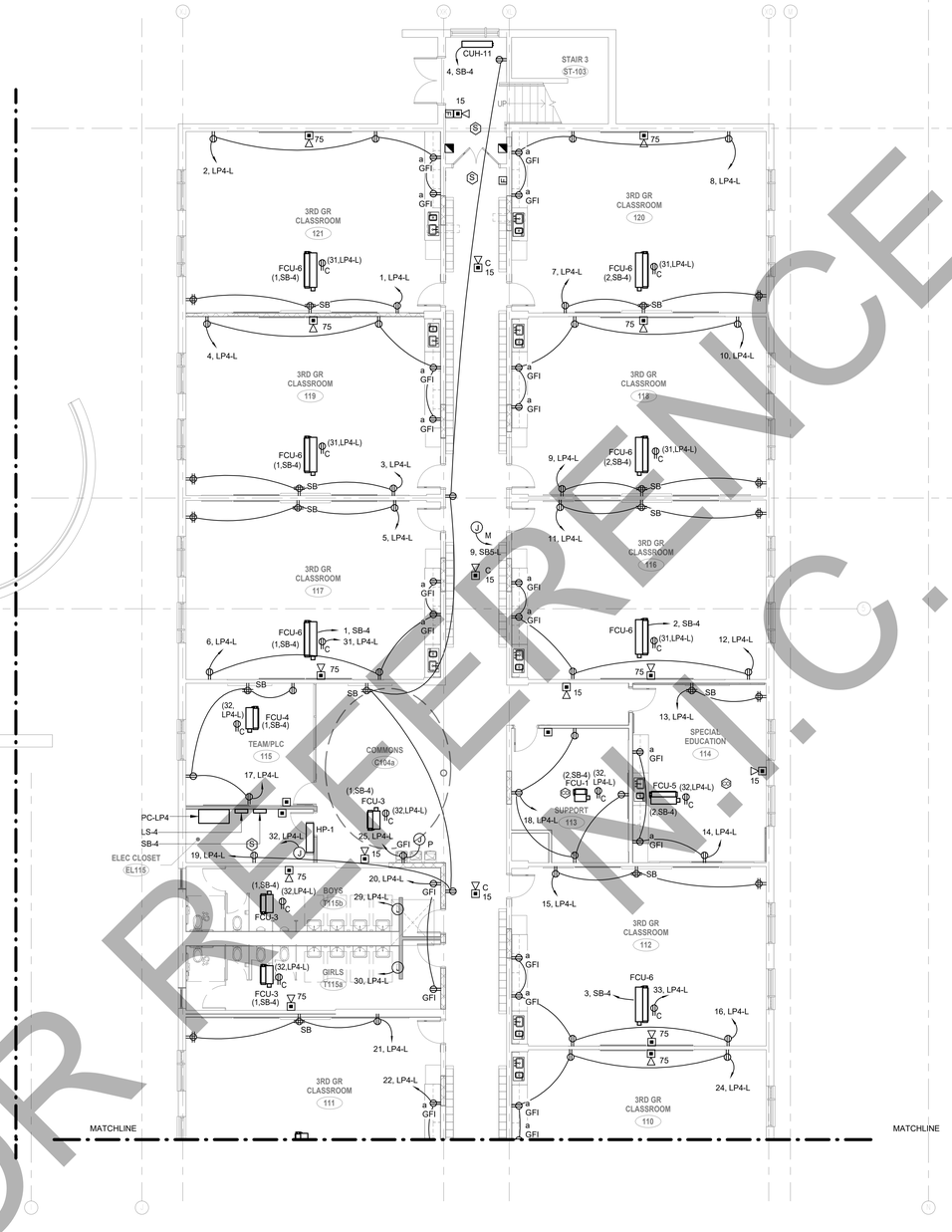

1 ELECTRICAL POWER LEVEL 1 BUILDING B PLAN
1/8" = 1'-0"

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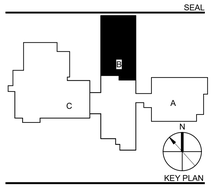

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PROJECT No: 68962

DRAWING TITLE:
ELECTRICAL POWER LEVEL 1 BUILDING B PLAN

SCALE: As indicated

EP-101B

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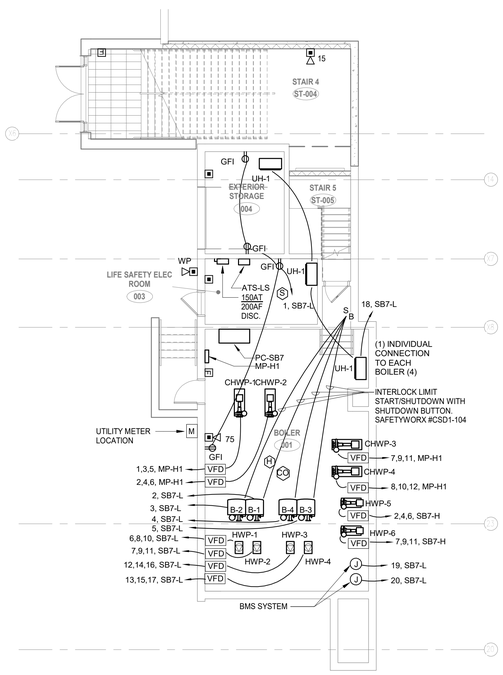
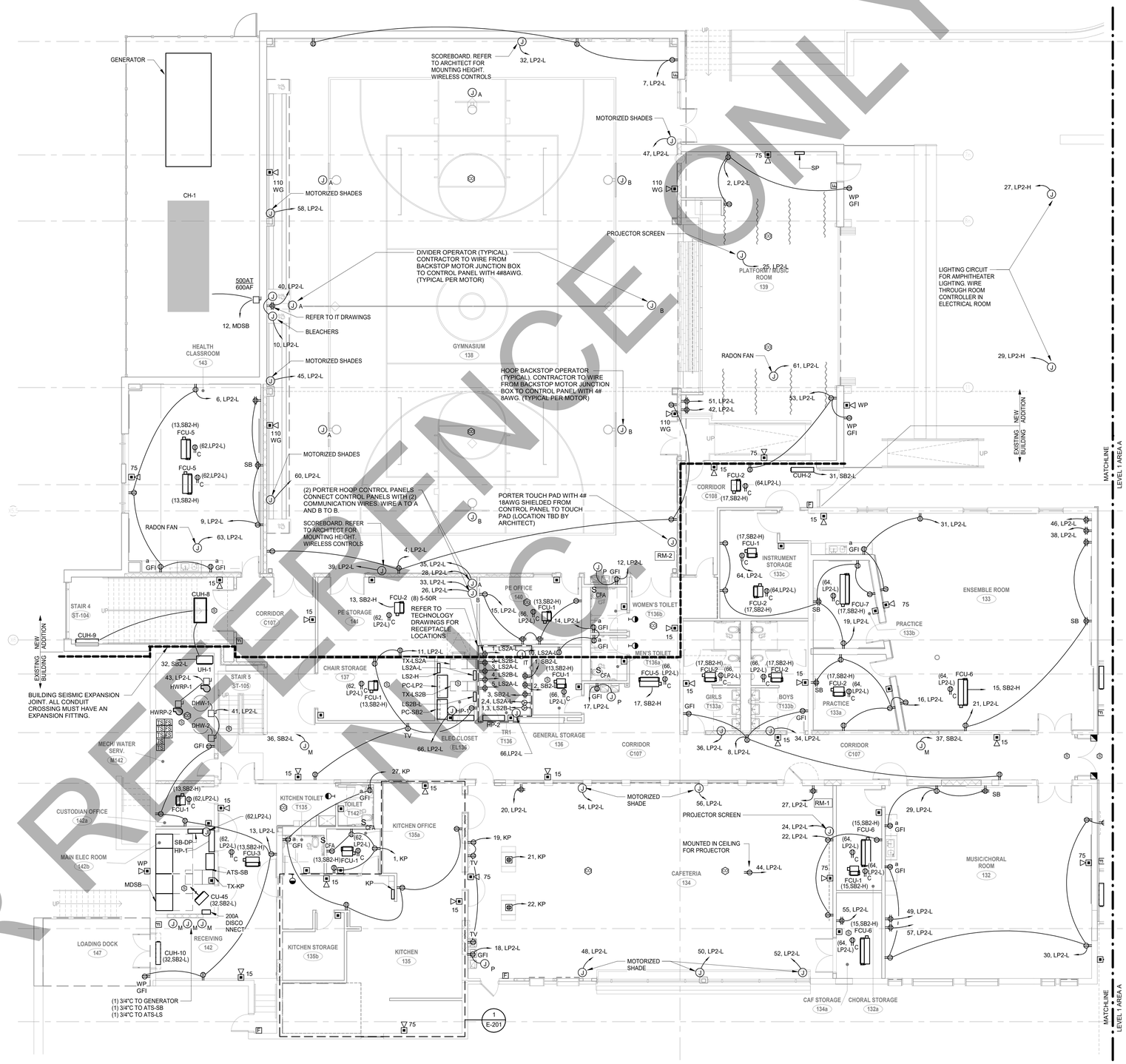


2 ELECTRICAL POWER BOILER ROOM
1/8" = 1'-0"



1 ELECTRICAL POWER LEVEL 1 BUILDING C PLAN
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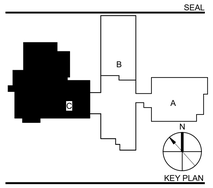

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Cambridge, MA 02138
617.499.8000

PROJECT TITLE:
RALPH M. T. JOHNSON ELEMENTARY SCHOOL ADDITIONS & RENOVATIONS
500 WHITTLESEY DRIVE, BETHEL, CT 06801
STATE PROJECT No: 009-0059-RNV

PROJECT No: 68962

DRAWING TITLE:
ELECTRICAL POWER LEVEL 1 BUILDING C PLAN

SCALE: As indicated

EP-101C

CONSTRUCTION DOCUMENTS
CONFORMED SET 2/28/2019

JULY 27, 2018

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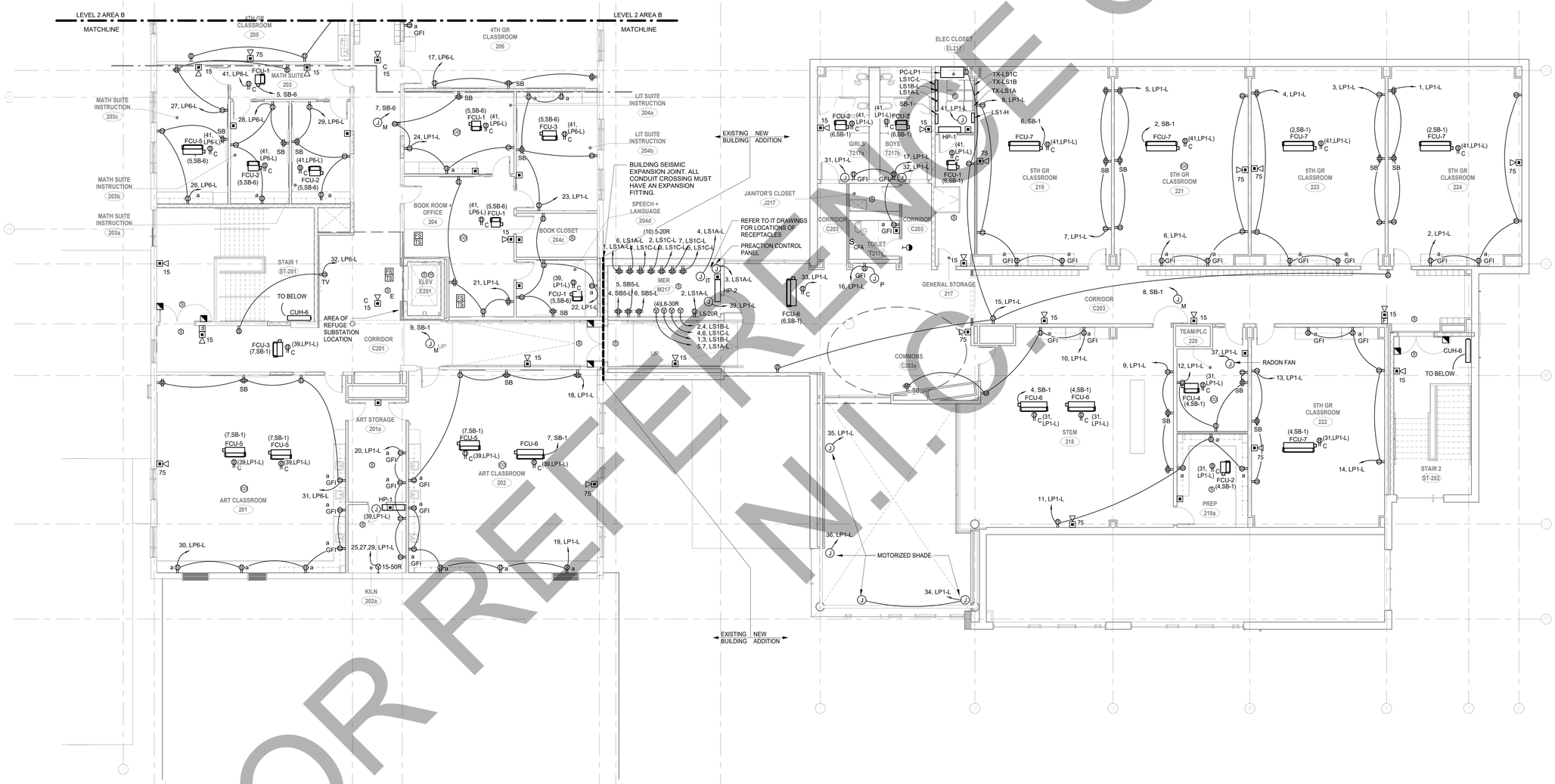
GENERAL POWER NOTES

1. ALL RECEPTACLES AND DEVICES MOUNTED TO EXISTING BLOCK WALLS TO UTILIZE SURFACE MOUNTED RACEWAYS. WHERE POSSIBLE, CONTRACTOR TO RUN WIRE INSIDE WALLS AND MOUNT DEVICES FLUSH TO WALL. REFER TO ARCHITECTURAL PLANS FOR WALL TYPES AND LOCATIONS WHERE NEW WALLS ARE TO BE INSTALLED.



1 ELECTRICAL POWER LEVEL 2 BUILDING A PLAN
1/8" = 1'-0"

FOR REFERENCE ONLY
N.T.S.

NO.	DATE	ISSUE
3	NOV. 27, 2018	ADDENDUM #4
4	DEC. 4, 2018	ADDENDUM #5

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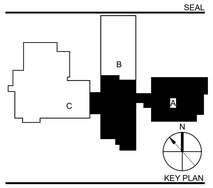

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STATE PROJECT No: 009-0059-RNV

PROJECT No: 68962

DRAWING TITLE:
ELECTRICAL POWER LEVEL 2 BUILDING A PLAN

SCALE: As indicated

EP-102A

CONSTRUCTION DOCUMENTS
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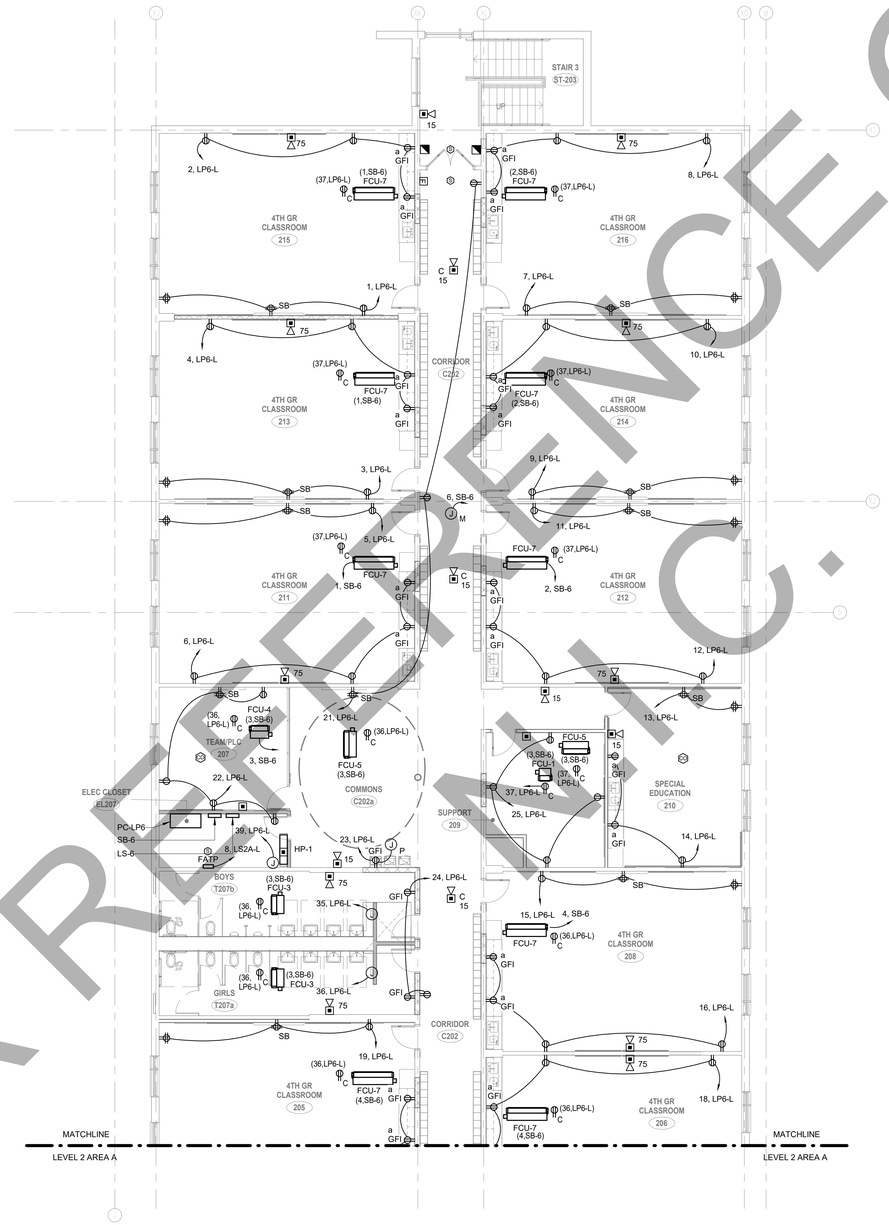

1 ELECTRICAL POWER LEVEL 2 BUILDING B PLAN
1/8" = 1'-0"

FOR REFERENCE ONLY

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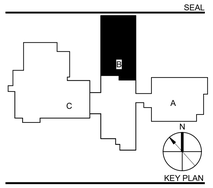

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SCALE: As indicated

EP-102B

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COMMUNICATION CABLING INFRASTRUCTURE

SYMBOL	DESCRIPTION	OUTLET BOX - CONDUIT SIZES: 1 G - 2-1/2" DP	1G - 3-1/2" DP	2 G - 2-1/2" DP	2G - 3-1/2" DP	4G - 2-1/2"DP	4 x 4" x 2-1/8" DP	1G DEVICE RING	2G DEVICE RING	4G DEVICE RING	3/4" C	1" C	1-1/4" C	1-1/2" C	CABLE - TERMINATION: CAT 6A PLENUM CABLE	RJ45 JACK - CAT 6A	RJ45 PLUG - CAT 6A	FACEPLATE - DATA	WALL PHONE MTG PLATE					COMMMENTS
W	Wall Outlet	1						1			1				1	1			1					Mounting Height 46" AFF
1D	1 Data Outlet				1			1			1				1	1		1						Mounting Height 18" AFF unless otherwise noted.
2D	2 Data Outlet				1			1			1				2	2		1						Mounting Height 18" AFF unless otherwise noted.
3D	3 Data Outlet				1			1				1			3	3		1						Mounting Height 18" AFF unless otherwise noted.
4D	4 Data Outlet				1			1				1			4	4		1						Mounting Height 18" AFF unless otherwise noted.
1V1D	1 Voice - 1 Data Outlet				1			1			1				2	2		1						Mounting Height 18" AFF unless otherwise noted.
1V2D	1 Voice - 2 Data Outlet				1			1				1			3	3		1						Mounting Height 18" AFF unless otherwise noted.
2V2D	2 Voice - 2 Data Outlet				1			1				1			4	4		1						Mounting Height 18" AFF unless otherwise noted.
1V	1 Voice Outlet				1			1			1				1	1		1						Mounting Height 18" AFF unless otherwise noted.
2V	2 Voice Outlet				1			1			1				2	2		1						Mounting Height 18" AFF unless otherwise noted.
3V	3 Voice Outlet				1			1				1			3	3		1						Mounting Height 18" AFF unless otherwise noted.
#V #D	Floor Box										A/R				A/R	A/R		1						Floor Box to be sized to accommodate cable & power # - Denotes Qty of Cables
AP	Wireless Access Point Ceiling Mounted														2		2							Ceiling mounted AP shall have a 20ft service loop and located at approximate locations shown on plans. For exterior mounted AP's sse indoor / outdoor rated cable, provide weatherproof 1" sleeve, provide 4" SQ box, provide weatherproof cover plate to box.
AP	Wireless Access Point Wall Mounted	1						1			1				2		2							

AUDIO VISUAL

SYMBOL	DESCRIPTION	DEVICE	OUTLET BOX - CONDUIT SIZES: 1 G - 2-1/2" DP	1G - 3-1/2" DP	2 G - 2-1/2" DP	2G - 3-1/2" DP	4G - 2-1/2"DP	4" x 4" x 4" DP	1G DEVICE RING	2G DEVICE RING	JUNCTION BOX A/R	3/4" C	1" C	1-1/4" C	1-1/2" C	CABLE - TERMINATION: CAT 6A CABLE PLENUM	CNTRL CABLE (RS232) (PLENUM)	RJ45 JACK - CAT 6A	FACEPLATE - DATA	PLENUM RATED PUBLIC ADDRESS SPEAKER CABLE	COMMMENTS
D	Display Location	Display NIC Ethernet by Contractor Awarded this Project			1				1				1			3		3	1		This location requires a 3D outlet. Refer to Detail #1, T204 for mounting requirements.
A	AV Outlet	AV Outlet Box						1		1				2		AV CABLING NIC					Mounting Height 18" AFF unless otherwise noted.
A1	AV Outlet	AV Outlet Box						1		1				2		AV CABLING NIC					Refer to Detail #1, T204 for mounting requirements.
C	AV Outlet	AV Outlet Box			1					1			1			AV CABLING NIC					Mounting Height 42" AFF
MON	Monitor Location	Refer to T201 Monitor NIC			1				1							1		1	1		Mounting Height 72" AFF or as Otherwise Noted. See Note #2. Ethernet by contractor awarded this project.
B	AV Outlet	AV Outlet Box			1				1			1				AV CABLING NIC					Mounting Height 42" AFF
Tx	AV Outlet	AV Outlet Box		1								1				AV CABLING NIC					Refer to Detail #1, T204 for mounting requirements.
E	AV Outlet	AV Outlet Box				1				1			1			AV CABLING NIC					Mount Transmitter 18" AFF
F	AV Outlet	AV Outlet Box				1				1			1			AV CABLING NIC					Mounting Height 42" AFF
Sp	Wall Mount Speaker Outlet	AV Outlet Box		1								1				SPEAKER NIC					Contractor shall install public address feed off of nearby public address speaker as if to daisy-chain future public address speaker. Coil 10' worth of public address cable, label, and secure above ceiling for future speaker. Mounting Height 78" AFF Unless otherwise noted.
Ss	Wall Mount Speaker Outlet	AV Outlet Box		1								1				SPEAKER NIC					Mounting Height 78" AFF Unless otherwise noted.
LSS	AV Cabinet Location	Cabinet NIC AV Cabling NIC									1				4						Mounting Height 48" AFF. Unless otherwise noted. Coordinate nearby power & data at this box.Contractor shall install public address feed off of nearby public address speaker as if to daisy-chain future public address speaker. Coil 10' worth of public address cable, label, and secure in flush-mount wall box.

PUBLIC ADDRESS - CLOCKS

SYMBOL	DESCRIPTION	PLENUM RATED CABLE A/R	2 G - 2-1/2" DP	1G DEVICE RING	3/4" C	PRODUCT	COMMMENTS
S	PA Speaker	1				Corridors: 8" Speakers. Classrooms: 2'X2' Drop-in Ceiling Speakers - Refer to Specifications for Product Description	Contractor shall install plenum rated speaker cable with 20' service loop to connect future priority override speakers. This is required in all classrooms and conference rooms.
S	PA Speaker	1				12' SQ.. Wall Mounted Speaker - Refer to Specification for Product Description	
PA	PA Master Handset BOGEN #MCDS4	1	1	1	1	Cabling A/R - Refer to Specification for Product Description	
B	PA Call Switch BOGEN #CA15C	1	1	1	1	Button Shall Activate 2-Way Conversations Between Classroom Speakers and Main Office. Cabling A/R	Mounting Height 46" AFF unless otherwise noted.
	Wireless Clock					12" Clock Unless Otherwise Noted on Plans - Refer to Specification for Product Description	Refer to Detail 1, T204. Coordinate location with Architect.
VC	PA Volume Control BOGEN #AT10A	1	1	1	1	Volume Control Shall Control the Speakers Shown Within the Same Room. - Refer to Specification for Product Description	Mount @ 48" AFF to center of device
H	PA Horn	1			1	Speaker / Horn - Interior / Exterior - Refer to Specification for Product Description	Secure horns to structure. Exterior horns shall receive proper weather proofing assembly.
PA	PA Strobe	1	1	1	1	Public Address Strobe. Refer to written specifications for device list and configuration requirements.	Mount Strobe @ 96" AFF
Ps	PA Pendant Speaker BOGEN #MPS1B	1				Cabling A/R Confirm Color With Architect Install so speaker is 6" above of wood slat ceiling	Contractor awarded this project shall cut 3'7" x 3'7" square from acoustic barrier above slatted ceiling, where required, to allow sound from the speaker to travel through the slatted ceiling unimpeded. Install per manufacturer recommendations. Include main drop cable and safety cable to anchor point.

CONDUIT FILL SCHEDULE

CONDUIT SIZE	MAX # OF CAT 6A CABLES ALLOWED* NO. OF BENDS: 0	1	2
1	6	5	4
1 1/4	10	8	7
1 1/2	13	11	9
2	22	19	15
2 1/2	28	32	27
3	57	49	40
3 1/2	75	64	52
4	96	82	67

*CALCULATION BASED UPON 40% FILL @ 0.28 INCH CABLE O.D.

TECHNOLOGY ABBREVIATIONS

(NOTE: NOT ALL ABBREVIATIONS APPLICABLE)

3.5mm	3.5MM JACK PLUG (AUDIO)
AFF	ABOVE FINISH FLOOR
A/C	ABOVE COUNTER
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
AWG	AMERICAN WIRE GAUGE
BICSI	BUILDING INDUSTRY CONSULTING SERVICE INTERNATIONAL
BNC	BAYONET NEIL-CONCELMAN
C	CONDUIT(S)
DEMARC	DEMARCATION
DPDT	DOUBLE PULL DOUBLE THROW
EIA	ELECTRONICS INDUSTRIES ALLIANCE
EMT	ELECTRICAL METALLIC TUBING
FACP	FIRE ALARM CONTROL PANEL
F	FACSIMILE (FAX)
HDMI	HIGH DEFINITIONS MEDIA INTERFACE
LAN	LOCAL AREA NETWORK
MER	MAIN EQUIPMENT ROOM
NEC	NATIONAL ELECTRIC CODE
NIC	NOT IN CONTRACT
OFE	OWNER FURNISHED EQUIPMENT
PA	PUBLIC ADDRESS
PBX	PRIVATE BRANCH EXCHANGE
PC	PERSONAL COMPUTER
PoE	POWER OVER ETHERNET
PP	PATCH PANEL
PVC	POLYVINYL CHLORIDE CONDUIT
QYT	QUANTITY
STP	SHIELDED TWISTED PAIR
TBB	TELECOMMUNICATIONS BONDING BACKBONE
TGB	TELECOMMUNICATIONS GROUNDING BUSBAR
TIA	TELECOMMUNICATIONS INDUSTRY ASSOCIATIONS
TMGB	TELECOMMUNICATIONS MAIN GROUNDING BUSBAR
TR	TELECOMMUNICATIONS ROOM
TV	TELEVISION
TYP	TYPICAL
UPS	UNINTERRUPTIBLE POWER SUPPLY
USB	UNIVERSAL SERIAL BUS
UTP	UNSHIELDED TWISTED PAIR
VGA	VIDEO GRAPHICS ARRAY
VoIP	VOICE OVER INTERNET PROTOCOL
W	WALL TELEPHONE (VOICE)
WAN	WIDE AREA NETWORK
WAO	WORK AREA OUTLET
WAP	WIRELESS (DATA) ACCESS POINT
WG	WIRE GUARD
WP	WEATHERPROOF
XFMR	TRANSFORMER
XMTR	TRANSMITTER

GENERAL NOTES

1. DRAWINGS INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS AND WORK INCLUDED IN THE CONTRACT.
2. ALL COMMUNICATION OUTLETS MUST COINCIDE WITH ELECTRICAL POWER DRAWINGS AND SECURITY DRAWINGS. THE CONTRACTOR MUST COORDINATE ALL LOCATIONS OF THE ELECTRICAL OUTLETS WITH THE DATA OUTLETS.
3. LABEL ALL CABLES WITHIN 12" OF FINAL TERMINATION.
4. CONTRACTOR SHALL MAINTAIN THE TWIST OF THE INDIVIDUAL PAIRS TO WITHIN 1/2" OF FINAL TERMINATION FOR ALL CATEGORY 3 OR HIGHER CABLE.
5. USE ONLY HOOK AND LOOP CABLE TIES (VELCRO) FOR CABLES RATED CATEGORY 3 OR HIGHER.
6. ALL CABLES RUN IN CEILING AREAS SHALL BE PROPERLY SUPPORTED WITH CONDUIT OR J-HOOKS MOUNTED TO SLAT AT MINIMUM OF 4' INTERVALS. NO CABLE SHALL REST OR TOUCH CEILING ASSEMBLIES. CABLES SHALL NOT BE INSTALLED EXPOSED IN OPEN CEILING AREAS.
7. ALL LABELS SHALL BE MACHINE PRINTED. NO HAND LETTERED CABLES SHALL BE USED.
8. USE ONLY PLENUM RATED CABLES.
9. DO NOT RUN TELECOMMUNICATION CABLES PARALLEL TO POWER CABLES. CROSS POWER CABLES ONLY AT RIGHT ANGLES.
10. MAINTAIN 8" DISTANCE FROM ALL LIGHTING TRANSFORMERS.
11. COLOR AND STYLE OF TELECOMMUNICATION FACE PLATES SHALL MATCH ELECTRICAL FACE PLATES AND BE COORDINATED WITH AND CONFIRMED BY THE ARCHITECT.
12. OBTAIN AND EXTEND TO OWNER ALL AVAILABLE MANUFACTURER AND SYSTEM WARRANTEES.
13. SPLICING CABLES IS NOT PERMITTED EXCEPT AS SPECIFICALLY NOTED.
14. DEVICE CABLING SHALL BE TERMINATED WITHIN THE INDICATED DATA ROOMS AND SHALL BE TERMINATED ONTO A 19" RACK MOUNTED, RJ45, 24 PORT, CATEGORY 6A RATED PATCH PANEL.
15. THE FOLLOWING CABLING SHALL BE TERMINATED ONTO IT'S OWN DISCRETE AND SEPARATE CATEGORY 6A RATED, RACK MOUNTED PATCH PANELS. REFER TO RACK ELEVATION DETAILS:
    15.1. ALL STUDENT AND CLASSROOM SPACES
    15.2. ALL ADMINISTRATION AREAS AND OFFICES
    15.3. ALL WIRELESS AP'S
    15.4. ALL VIDEO SURVEILLANCE CAMERAS (REFER TO SECURITY DRAWINGS FOR PLACEMENT)
16. SPEAKER CABLING SHALL BE INSTALLED FROM THE SPEAKER AND/OR SPEAKER ARRAY WITHIN EACH ROOM TO THE DATA ROOM INDICATED WITHIN THE PA WIRING DIAGRAMS.
17. LOCATIONS OF EQUIPMENT FOR ALL OTHER TRADES SHALL BE COORDINATED BEFORE CONSTRUCTION.
18. CONTRACTOR SHALL COORDINATE LAYOUT LOCATIONS AND CLEARANCE OF ALL EQUIPMENT WITH OTHER TRADES AND ATTAIN OWNER'S APPROVAL PRIOR TO CONSTRUCTION.
19. CONTRACTOR SHALL COORDINATE ALL RACEWAYS, LOCATIONS, AND POWER REQUIREMENTS WITH THE ELECTRICAL CONTRACTOR.
20. ALL COMMUNICATION OUTLETS MUST COINCIDE WITH ELECTRICAL POWER DRAWINGS.
21. ALL VOICE AND DATA OUTLETS THAT DO NOT HAVE AN ELECTRICAL OUTLET WITHIN 3FT SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE PROJECT ARCHITECTCONSTRUCTION MANAGER, AND TECHNOLOGY CONSULTANT PRIOR TO THE TIME OF INSTALLATION.
21. PLACEMENT OF ALL SECURITY VIDEO SURVEILLANCE CAMERAS MUST BE APPROVED BY THE SECURITY CONSULTANT AND/OR OWNER PRIOR TO CONSTRUCTION.
    22. ALL EXISTING LOW VOLTAGE TERMINATION DEVICES & CABLING SHALL BE REMOVED & DISCARDED FROM THIS FACILITY.
    23. ALL DEVICES SHOWN ON THESE PLANS MUST BE COORDINATED AND APPROVED BY THE ARCHITECT. THE INSTALLATION CONTRACTOR SHALL DEPICT ALL DEVICES ONTO ELEVATION SUBMITTALS BEFORE INSTALLATION. ANY DEVICE THAT IS NOT APPROVED BY THE ARCHITECT PRIOR TO INSTALLATION MAY BE REQUIRED TO BE RELOCATED AS DIRECTED BY THE ARCHITECT AND CORRECTED BY THE CONTRACTOR WITH NO ADDITIONAL CHARGE TO THIS PROJECT.
    24. ALL PATHWAYS, INCLUDING ALL WALL AND CEILING PENETRATIONS ARE REQUIRED TO INSTALL CABLING TO THE END DEVICE AND SHALL BE COORDINATED BETWEEN THE LOW VOLTAGE AND SECURITY CONTRACTOR AND THE ELECTRICAL CONTRACTOR AND SHALL BE INCLUDED AS PART OF THIS SECTION.
    25. ALL CABLING SHALL BE LABELED AT BOTH ENDS.
    26. SEISMIC PERFORMANCE: ALL WALL MOUNTED DEVICES SHALL BE MOUNTED, SECURED AND INSTALLED IN ACCORDANCE WITH SEI/ASCE 7 AND SHALL ADDITIONALLY WITHSTAND THE EFFECTS OF ANY MOTIONS WITHIN THE BUILDING AS DETERMINED BY SEI/ASCE 7.
    27. THE TERM 'WITHSTAND' MEANS "THE UNITS ILL REMAIN IN PLACE WITHOUT SEPARATION OF ANY PARTS FROM THE DEVICE WHEN SUBJECTED TO SEISMIC FORCES SPECIFIED AND THE UNIT WILL BE FULLY OPERATIONAL AFTER THE SEISMIC EVENT."
    28. ALL CONDUIT IS TO ABOVE ACCESSIBLE CEILING UNLESS OTHERWISE NOTED.

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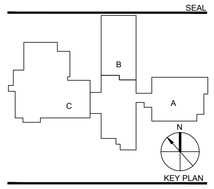

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DRAWING TITLE:
TECHNOLOGY

SYMBOL LEGEND & GENERAL NOTES

SCALE:

T-001

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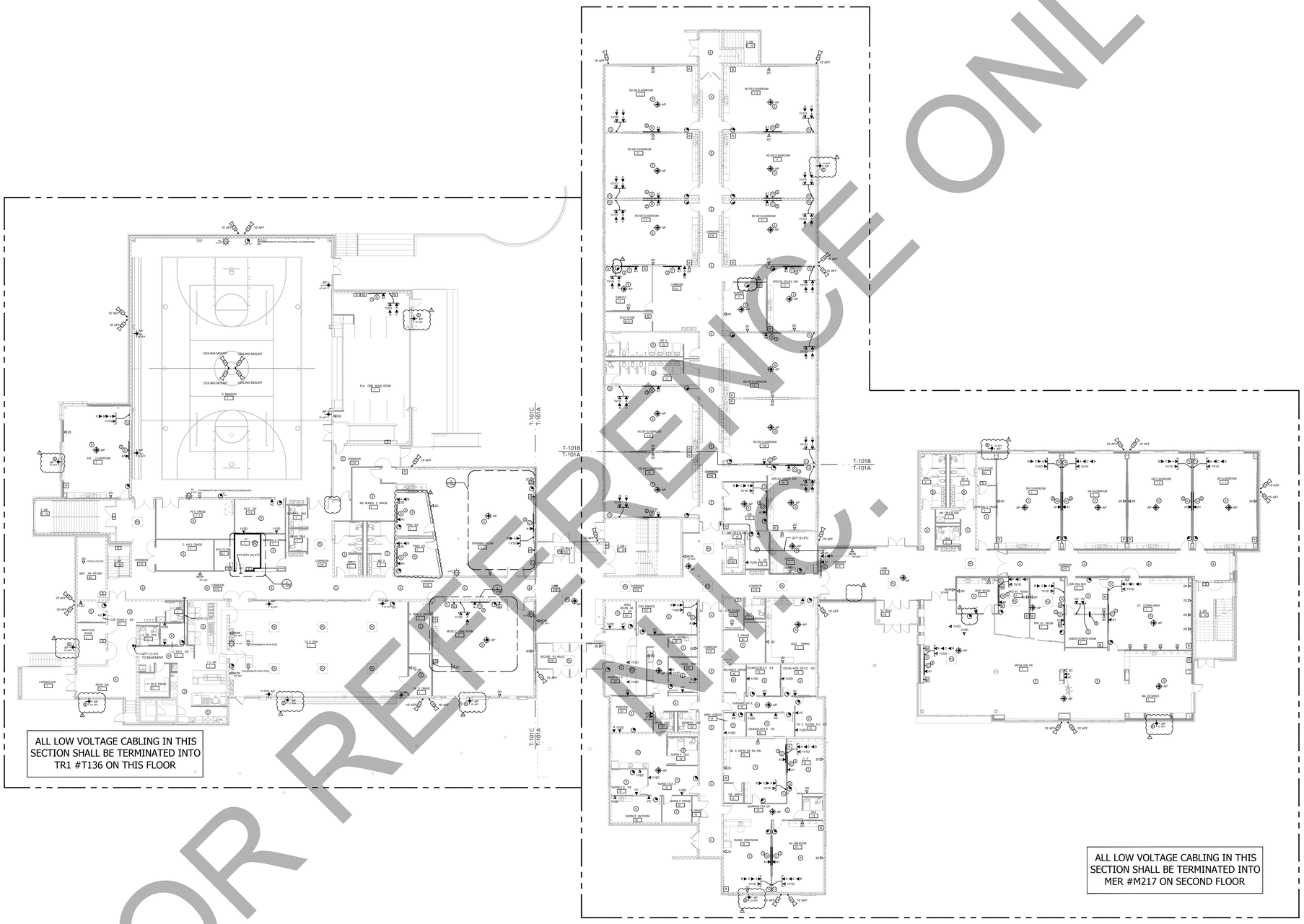

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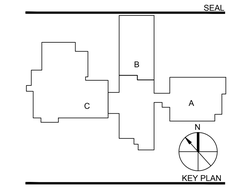
SEAL



KEY PLAN

PERKINS — EASTMAN
422 Summer Street
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Owner:
BETHEL PUBLIC SCHOOLS
1 School Street, Bethel,
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617.499.8000

PROJECT TITLE:
RALPH M. T. JOHNSON ELEMENTARY SCHOOL ADDITIONS & RENOVATIONS
400 WHITTLESEY DR, BETHEL, CT 06801
STATE PROJECT No: 009-0059-RNV

PROJECT No: 68962

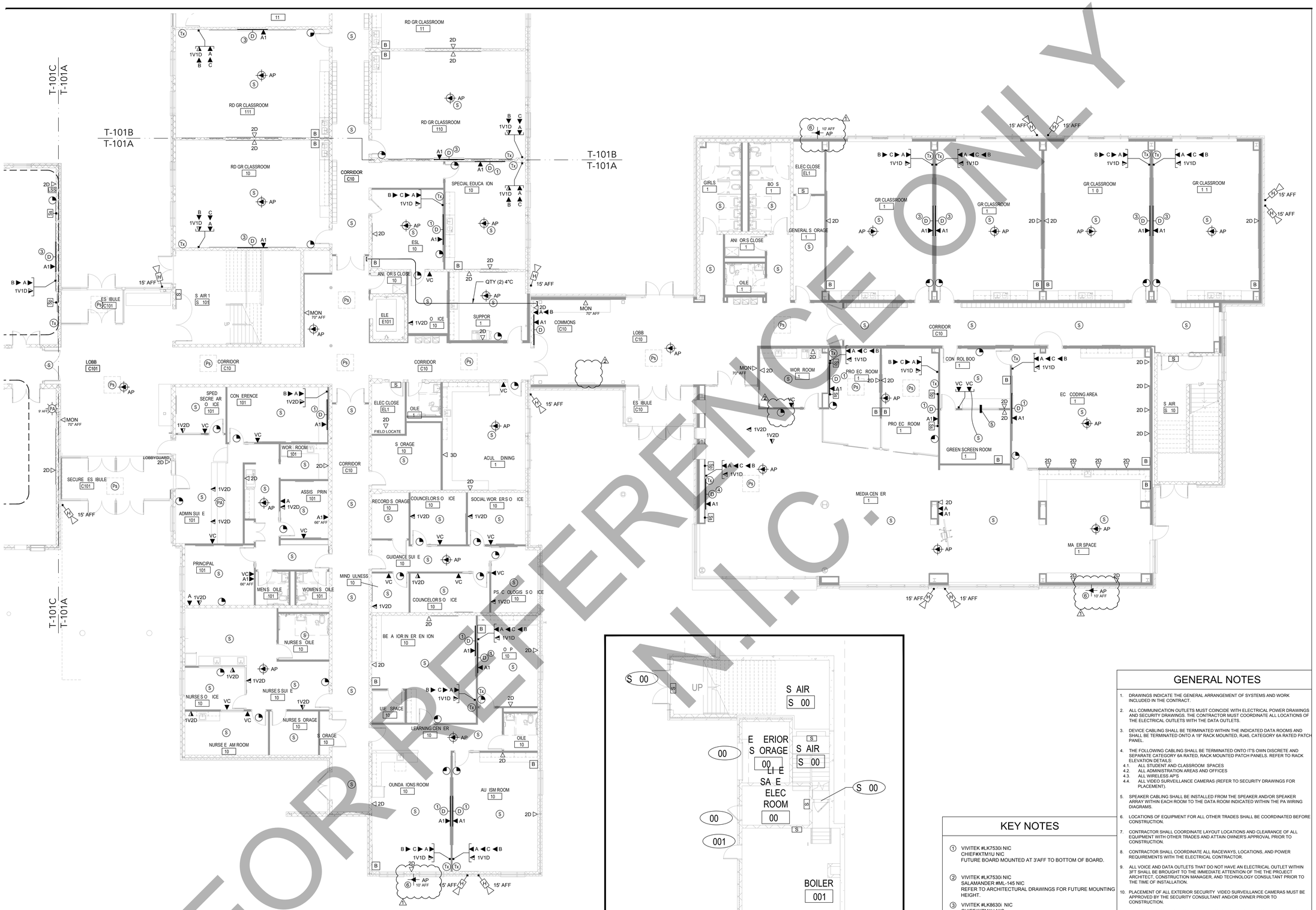
DRAWING TITLE:
TECHNOLOGY

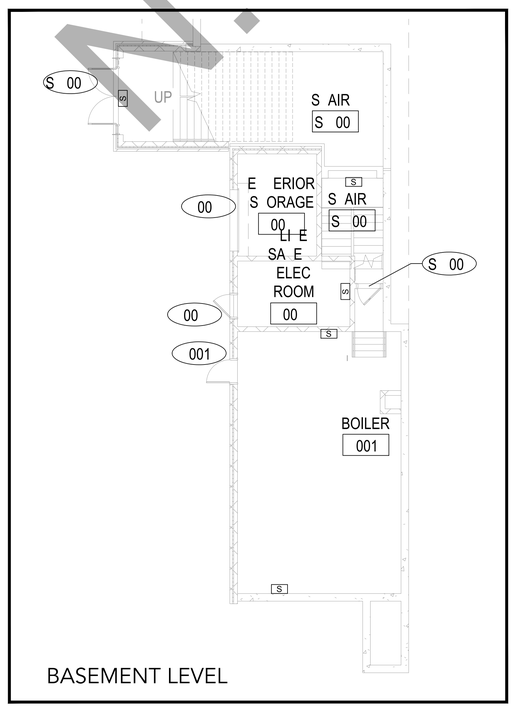
LEVEL 1 OVERALL PLAN
SCALE: 1/16" = 1'-0"

T-101

CONSTRUCTION DOCUMENTS

JULY 27, 2018





BASEMENT LEVEL

KEY NOTES

1. VIVITEK #LK7530i NIC
CHIEF#XTM1U NIC
FUTURE BOARD MOUNTED AT 3'AFF TO BOTTOM OF BOARD.

2. VIVITEK #LK7530i NIC
SALAMANDER #ML-145 NIC
REFER TO ARCHITECTURAL DRAWINGS FOR FUTURE MOUNTING HEIGHT.

3. VIVITEK #LK8630i NIC
CHIEF#XTM1U NIC
FUTURE BOARD MOUNTED AT 3'AFF TO BOTTOM OF BOARD.

4. VIVITEK #LK8630i NIC
SALAMANDER #ML-1360 NIC
REFER TO ARCHITECTURAL DRAWINGS FOR FUTURE MOUNTING HEIGHT.

5. PROVIDE 2-GANG BRUSH THROUGH ALL LATE ON EACH SIDE OF WALL TO CREATE CABLE PATHWAY BETWEEN ROOMS. MOUNT WALL PLATES AT 18" AFF.

6. USE INDOOR / OUTDOOR RATED CABLE. PROVIDE 1" CONDUIT AND 4" SQ BOX. WEATHERPROOF SLEEVE. ADD WEATHERPROOF COVER PLATE TO BOX.

GENERAL NOTES

1. DRAWINGS INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS AND WORK INCLUDED IN THE CONTRACT.
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3. DEVICE CABLING SHALL BE TERMINATED WITHIN THE INDICATED DATA ROOMS AND SHALL BE TERMINATED ONTO A 19" RACK MOUNTED, RJ45, CATEGORY 6A RATED PATCH PANEL.
4. THE FOLLOWING CABLING SHALL BE TERMINATED ONTO IT'S OWN DISCRETE AND SEPARATE CATEGORY 6A RATED, RACK MOUNTED PATCH PANELS. REFER TO RACK ELEVATION DETAILS:
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   - 4.2. ALL ADMINISTRATION AREAS AND OFFICES
   - 4.3. ALL WIRELESS AP'S
   - 4.4. ALL VIDEO SURVEILLANCE CAMERAS (REFER TO SECURITY DRAWINGS FOR PLACEMENT).
5. SPEAKER CABLING SHALL BE INSTALLED FROM THE SPEAKER AND/OR SPEAKER ARRAY WITHIN EACH ROOM TO THE DATA ROOM INDICATED WITHIN THE PA WIRING DIAGRAMS.
6. LOCATIONS OF EQUIPMENT FOR ALL OTHER TRADES SHALL BE COORDINATED BEFORE CONSTRUCTION.
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FOR REFERENCE ONLY
N.I.C.

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2	12/06/18	ADDENDUM #5

d'agostino & ASSOCIATES
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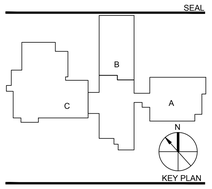

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STATE PROJECT No: 009-0059-RNV

PROJECT No: 68962

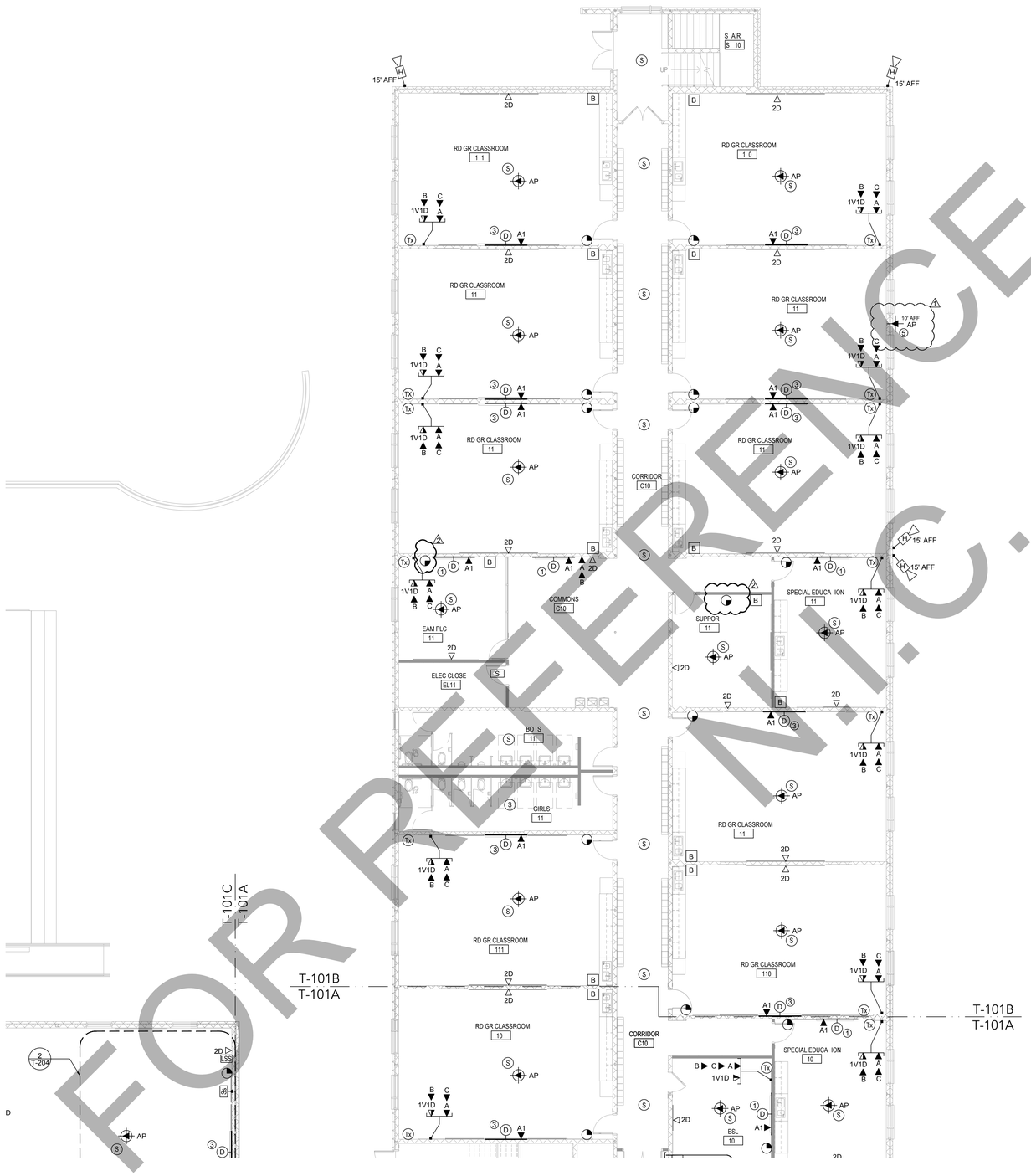
DRAWING TITLE:
TECHNOLOGY

LEVEL 1, PART A & BASEMENT PLANS
SCALE: 1/8" = 1'-0"

T-101A

CONSTRUCTION DOCUMENTS

JULY 27, 2018



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NO.	DATE	ISSUE
1	11/30/18	ADDENDUM #4
2	12/06/18	ADDENDUM #5

d'agostino & ASSOCIATES
Technology – Security – Audio Visual
1266 EAST MAIN STREET
SUITE 700R
STAMFORD, CT 06802
1000 LAFAYETTE BLVD.
SUITE 1100
BRIDGEPORT, CT 06604
TEL: 203.539.6164
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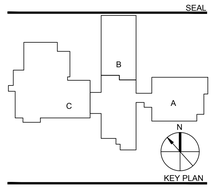

KEY PLAN

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400 WHITTLESEY DR, BETHEL, CT 06801
STATE PROJECT No: 009-0059-RNV

PROJECT No: 68962

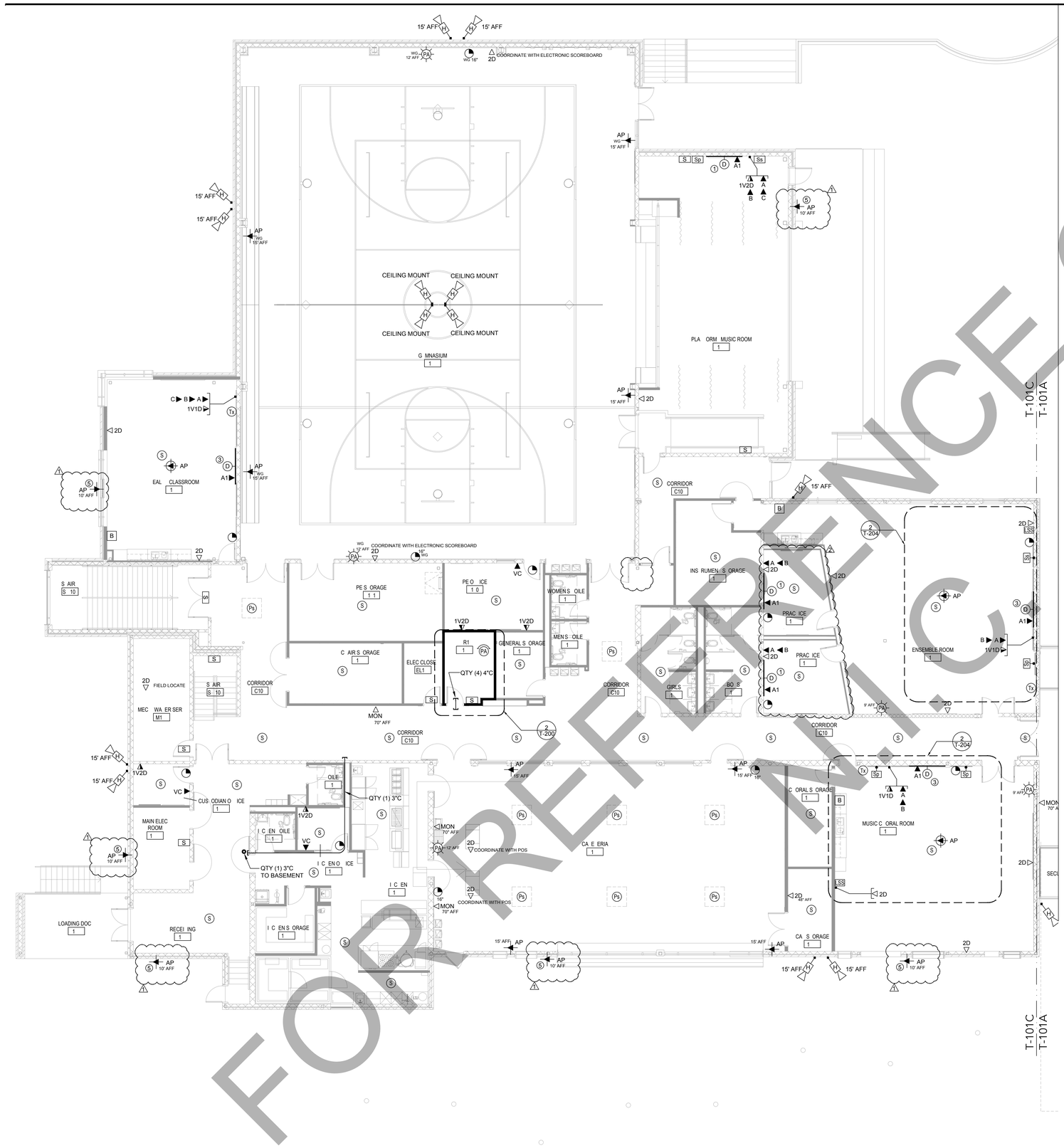
DRAWING TITLE:
TECHNOLOGY

LEVEL 1, PART B PLAN
SCALE: 1/8" = 1'-0"

T-101B

CONSTRUCTION DOCUMENTS

JULY 27, 2018



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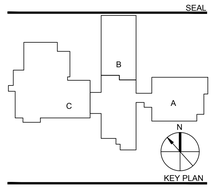

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DRAWING TITLE:
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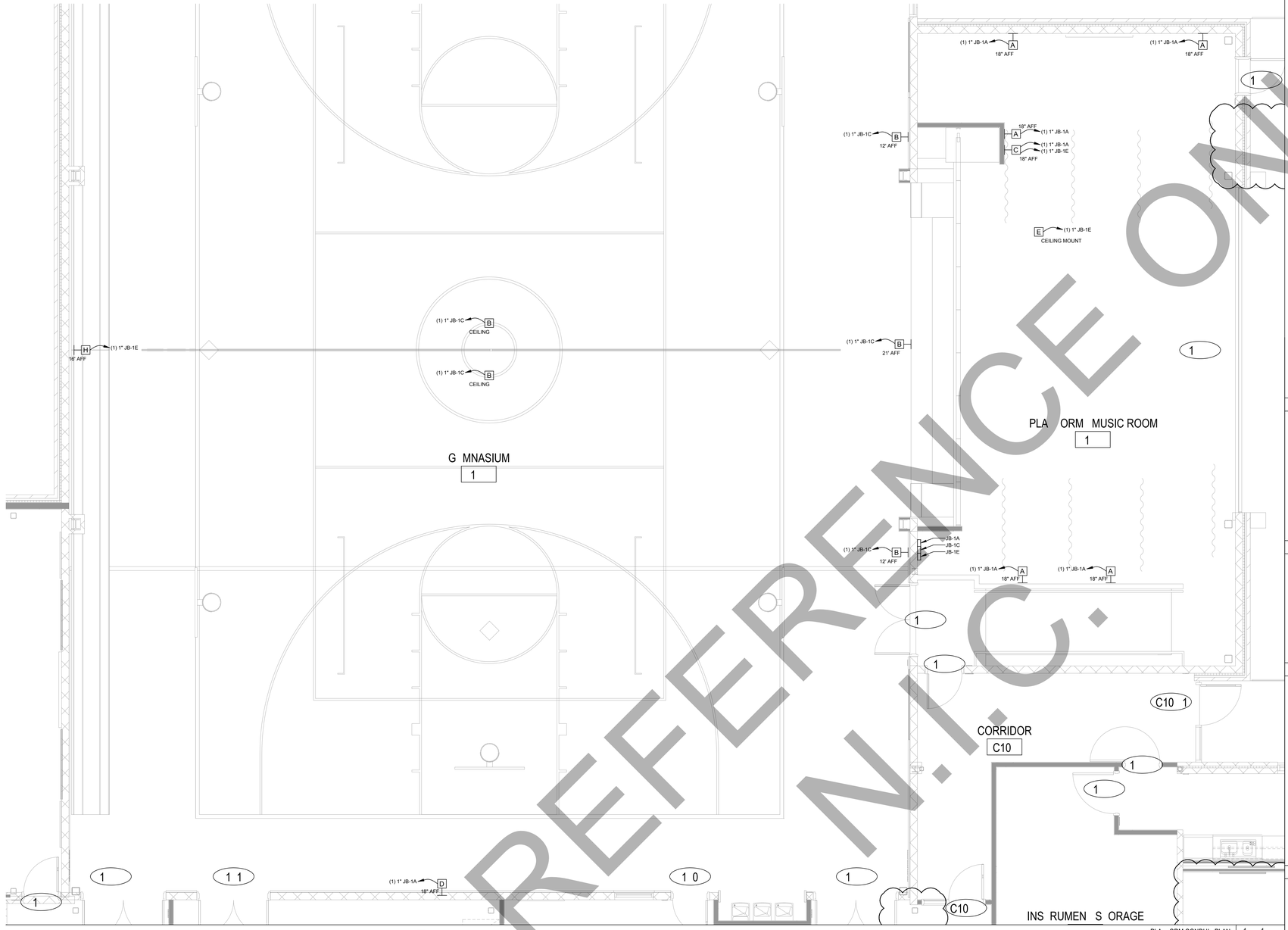
LEVEL 1, PART C PLAN
SCALE: 1/8" = 1'-0"

T-101C

CONSTRUCTION DOCUMENTS

JULY 27, 2018



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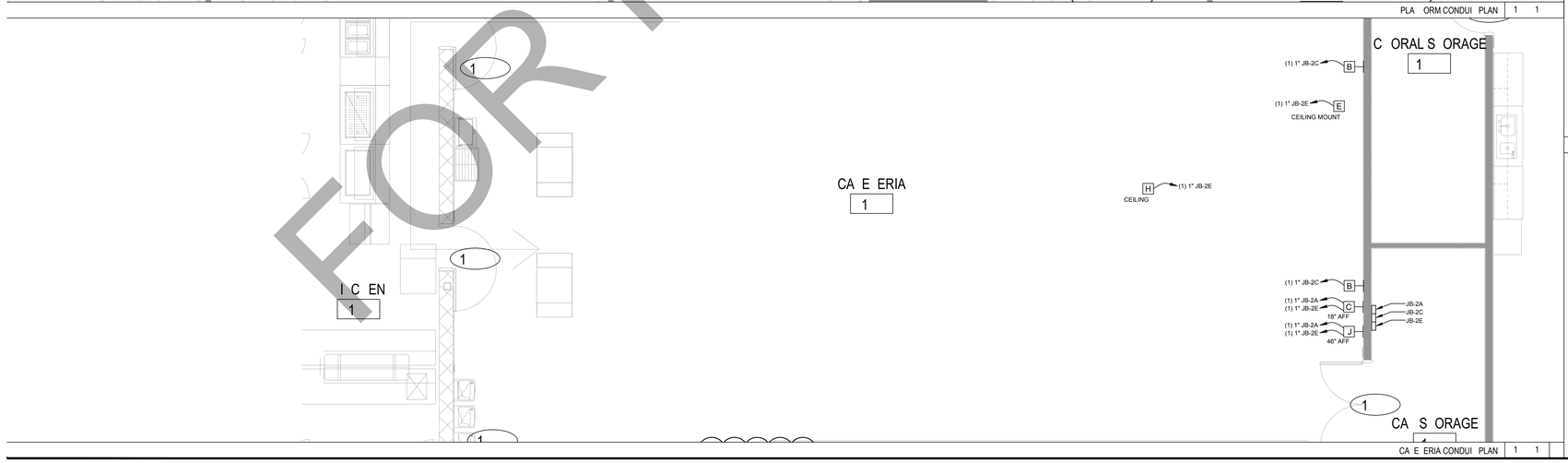
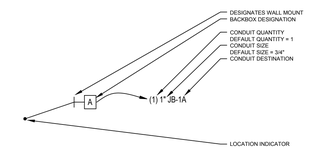


CA E ERIA CONDUI PLAN 1 1

SYMBOL	DESCRIPTION	BACKBOX SIZE
A	MICROPHONE INPUT PLATE	4"X4"X4"
B	SPEAKER OUTPUT PLATE	4"X4"X4"
C	MICROPHONE & AV INPUT PLATE	4"X6"X4"
D	MICROPHONE INPUT PLATE	4"X4"X4"
E	SCREEN PASS THROUGH PLATE	4"X4"X4"
F	MIX STATION PLATE	4"X4"X4"
G	CAMERA STATION PLATE	4"X4"X4"
H	PROJECTOR PLATE	4"X4"X4"
J	CONTROL PLATE	4"X4"X4"
JB-1A	JUNCTION BOX	PER CONDUIT
JB-1C	JUNCTION BOX	PER CONDUIT
JB-1E	JUNCTION BOX	PER CONDUIT
JB-2A	JUNCTION BOX	PER CONDUIT
JB-2C	JUNCTION BOX	PER CONDUIT
JB-2E	JUNCTION BOX	PER CONDUIT

BAC BO ACEPLA E CABLING LEGEND N S



CONDUI DE ICE AND DES INA ION E N S

	GROUP A	GROUP B	GROUP C	GROUP D	GROUP E
GROUP A - MICROPHONE	ADJACENT	6"	18"	9"	12"
GROUP B - LINE	6"	ADJACENT	12"	3"	12"
GROUP C - LOUDSPEAKER	18"	12"	ADJACENT	9"	3"
GROUP D - VIDEO	9"	3"	9"	ADJACENT	3"
GROUP E - DATA & CONTROL	12"	12"	3"	3"	ADJACENT

CONDUI SEPARA ION E N S

1. CONTRACTOR SHALL SUBMIT FOR REVIEW AND APPROVAL, SHOP DRAWING OF CONDUIT PLANS FOR THESE ROOMS PRIOR TO INSTALLATION.
2. ALL CONDUIT O BE FERROUS METAL (E.G., STEEL) LL CONDUIT IN PLENUM SPACES TO BE RIGID STEEL
3. CONDUIT RUN IN ND ELOW ONCRETE LABS N RADE TO BE PVC COATED STEEL.
4. RUN HOME RUNS TO JUNCTION BOXES
5. INTERMEDIATE MARSHALLING BOXES FOR THE GROUPING OF HOME RUN CONDUITS ARE ACCEPTABLE. CONTRACTOR RESPONSIBLE FOR MAINTAINING CONDUIT CAPACITY AND PULL BOX SIZE. USE 30% FILL RATE FOR CONDUIT SIZE CALCULATIONS.
6. ON CATWALKS AND GALLERIES SURFACE MOUNT OR PIPE MOUNT DEVICES AS FIELD CONDITIONS DICTATE.
7. FOR RECESS-MOUNTED GANG BOXES USE RACO 3-1/2" DEEP STEEL BACK BOXES OR EQUAL.
8. FOR SURFACE AND PIPE-MOUNTED GANG BOXES USE LEVITON BKBOX SERIES SURFACE MOUNT POWDER-COATED STEEL BOX OR EQUAL BY ELECTRONIC THEATRE CONTROLS.
9. SPACE CONDUIT AT LEAST 12 INCHES AWAY FROM POWER CONDUIT. INSULATE ALL CONDUIT FROM THE EQUIPMENT RACKS; GROUND CONDUIT ONLY TO POWER SYSTEM GROUND.
10. PROVIDE ALL EMPTY BOXES WITH PULL STRINGS.
11. PROVIDE PULL BOX AFTER 180 DEGREES OF CONDUIT BEND.
12. LABEL ALL GANG BOXES, JUNCTION BOXES, AND PULL BOXES.
13. LABEL ALL JUNCTION BOX AND PULL BOX DESTINATIONS.
14. SPECIALTY BACK BOX PROVIDERS:

FSR, INC.
244 BERGEN BOULEVARD
WOODLAND PARK, NEW JERSEY 07424
973.785.4347

MYSTERY ELECTRONICS, LLC
6438 MORTON ROAD
GREENBRIER, TENNESSEE 37073
800.798.2256

ACE BACKSTAGE CO., INC.
24846 AVENUE ROCKEFELLER, SUITE 200
VALENCIA, CALIFORNIA 91355
661.295.5760

DRAWING NO ES N S

	PROVIDED BY	INSTALLED BY
CONDUIT	ELECTRICIAN	ELECTRICIAN
BAC BO ES	AV INTEGRATOR	ELECTRICIAN

A SCOPE RESPONSIBILI N S

FOR REFERENCE ONLY
N.I.C.

NO.	DATE	ISSUE

d'agostino & ASSOCIATES
Technology – Security – Audio Visual
1266 EAST MAIN STREET
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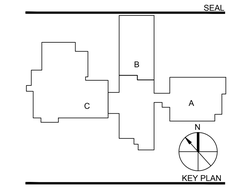

KEY PLAN

PERKINS — EASTMAN
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Stamford, CT 06901
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F. +1 203 251 7474

Owner:
BETHEL PUBLIC SCHOOLS
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CT 06801 203.794.8601

Construction Manager:
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64 Triangle St, Danbury,
CT 06810 203.731.3131

Civil / Site / Landscape:
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203.271.1773

Structural:
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Acoustical Consultant:
ACENTECH
33 Moulton Street
Cambridge, MA 02138
617.499.8000

PROJECT TITLE:
RALPH M. T. JOHNSON ELEMENTARY SCHOOL ADDITIONS & RENOVATIONS
400 WHITTLESEY DR, BETHEL, CT 06801
STATE PROJECT No: 009-0059-RNV

PROJECT No: 68962

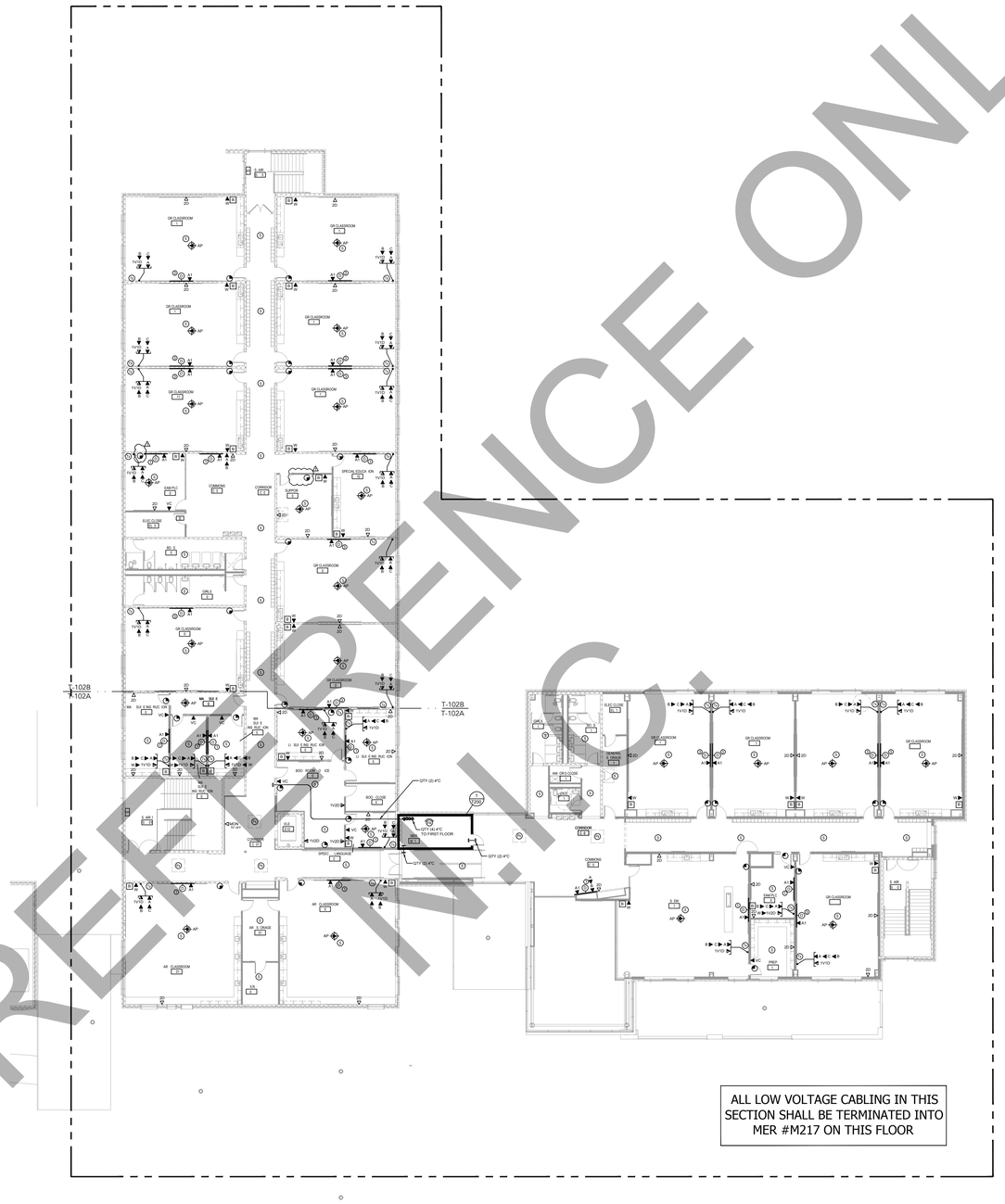
DRAWING TITLE:
AUDIO VISUAL GYMNASIUM & CAFETERIA CONDUIT DETAILS

SCALE: AS NOTED

T-101D

CONSTRUCTION DOCUMENTS

JULY 27, 2018



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NO.	DATE	ISSUE
1	12/06/18	ADDENDUM #5

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1266 EAST MAIN STREET
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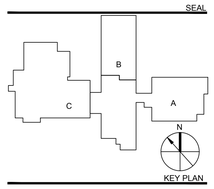

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400 WHITTLESEY DR, BETHEL, CT 06801
STATE PROJECT No: 009-0059-RNV

PROJECT No: 68962

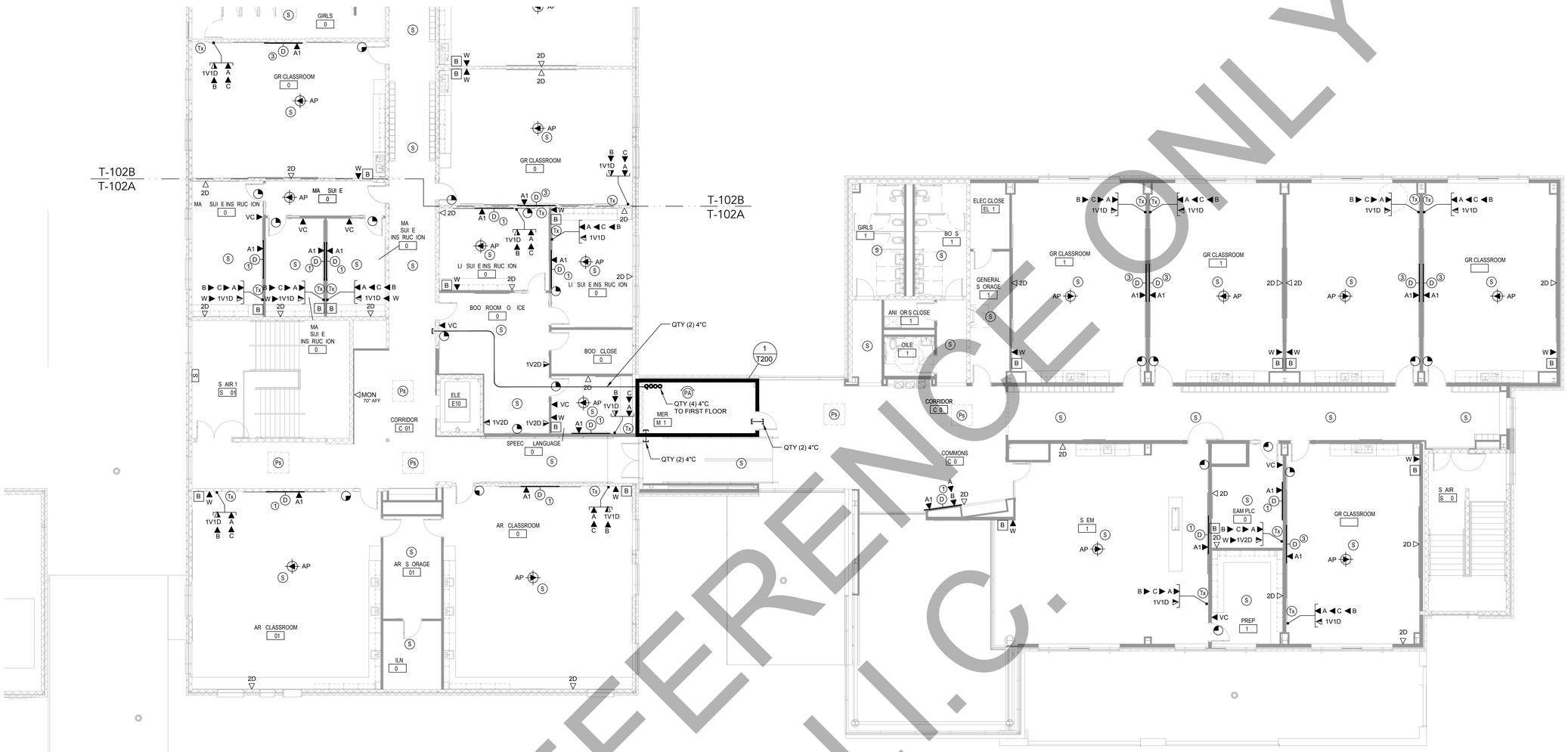
DRAWING TITLE:
TECHNOLOGY

LEVEL 2 OVERALL PLAN
SCALE: 1/16" = 1'-0"

T-102

CONSTRUCTION DOCUMENTS

JULY 27, 2018



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   - 4.3. ALL WIRELESS AP'S
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KEY NOTES

1. VIVITEK #LK7530i NIC
   CHIEF#XTM1U NIC
   FUTURE BOARD MOUNTED AT 3'AFF TO BOTTOM OF BOARD.
2. VIVITEK #LK7530i NIC
   SALAMANDER #ML-145 NIC
   REFER TO ARCHITECTURAL DRAWINGS FOR FUTURE MOUNTING HEIGHT.
3. VIVITEK #LK8630i NIC
   CHIEF#XTM1U NIC
   FUTURE BOARD MOUNTED AT 3'AFF TO BOTTOM OF BOARD.
4. VIVITEK #LK8630i NIC
   SALAMANDER #ML-1360 NIC
   REFER TO ARCHITECTURAL DRAWINGS FOR FUTURE MOUNTING HEIGHT.

FOR REFERENCE ONLY
N.I.C.

NO.	DATE	ISSUE

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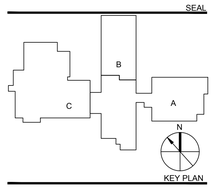

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400 WHITTLESEY DR, BETHEL, CT 06801
STATE PROJECT No: 009-0059-RNV

PROJECT No: 68962

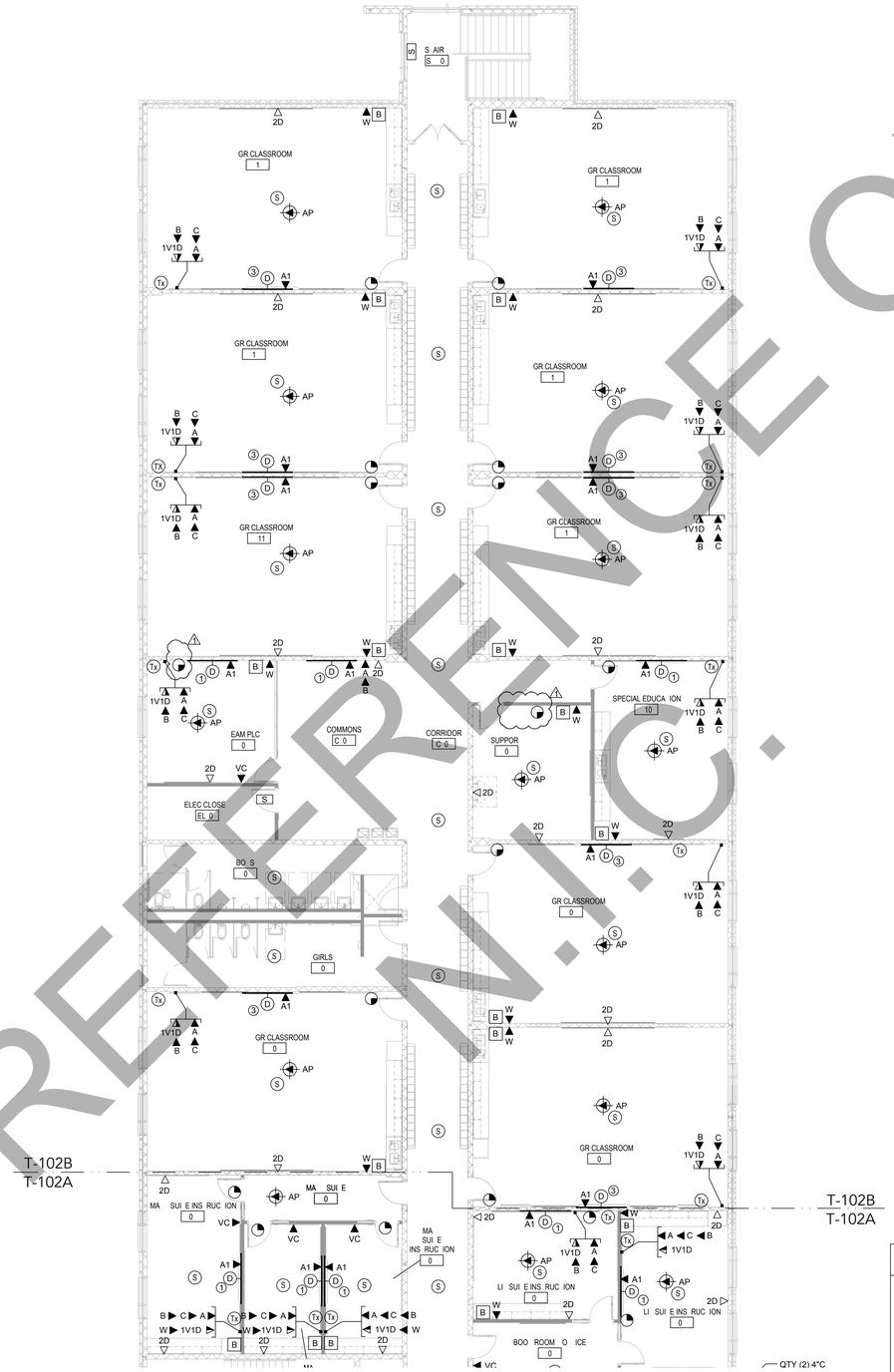
DRAWING TITLE:
TECHNOLOGY

LEVEL 2, PART A PLAN
SCALE: 1/8" = 1'-0"

T-102A

CONSTRUCTION DOCUMENTS

JULY 27, 2018



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1	12/06/18	ADDENDUM #5

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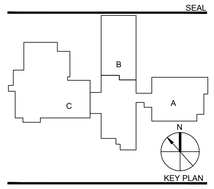

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STATE PROJECT No: 009-0059-RNV

PROJECT No: 68962

DRAWING TITLE:
TECHNOLOGY

LEVEL 2, PART B PLAN
SCALE: 1/8" = 1'-0"

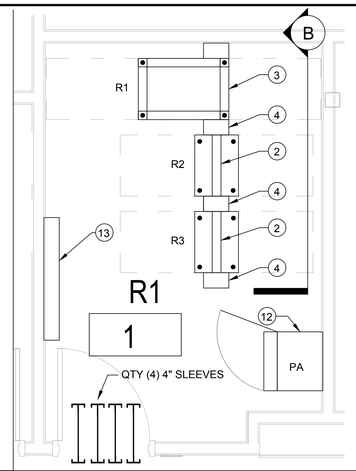
T-102B

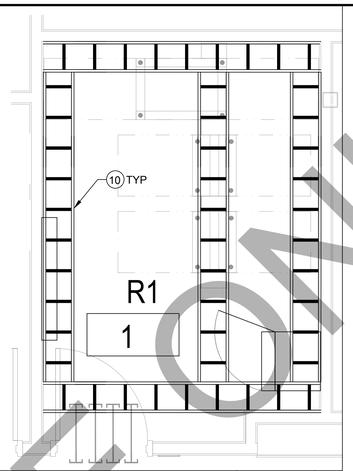
CONSTRUCTION DOCUMENTS

JULY 27, 2018

PRODUCT DESCRIPTION		
ITEM	DESCRIPTION	MANUFACTURER #
1	SERVER CABINET 84"H x 30"W x 42"D	HUBBELL #H2N8442
2	2 - POST EQUIPMENT RACK - 19" WIDE x 84" HIGH - 45 RU's	HUBBELL #HPW84RR19
3	4 - POST EQUIPMENT RACK - 19" WIDE x 84" HIGH - 45 RU's	HUBBELL #SF841936T
4	6" WIDE VERTICAL WIRE MANAGEMENT - 84"HIGH - 48 RU's	HUBBELL #VS76
5	HORIZONTAL WIRE MANAGERS 1RU	HUBBELL #HM24
6		
7	FIBER OPTIC CABINET - 1RU F.O. CABINET, OPT-X 1000i	HUBBELL #FCR1U3SP
8	LC ADAPTER PLATES, 6-LC DUPLEX (12 FIBERS), MM, COLOR AQUA	HUBBELL #FPSLCDM6AQ
9	24 PORT CAT 6, 1RU, HIGH DENSITY PATCH PANELS	HUBBELL #HP6A24
10	12" WIDE LADDER RACK	HUBBELL #HLS1012B
11	100 PR, 110 STYLE, CAT 5E WIRING BLOCK W/ CLIPS & LEGS	HUBBELL #110BLK100FTK4
12	PUBLIC ADDRESS WALL CABINET AND EQUIPMENT	AS SPECIFIED
13	SECURITY PANELS - REFER TO DETAIL 4, SHEET Y201	AS SPECIFIED

PRODUC LIS | NONE | 01





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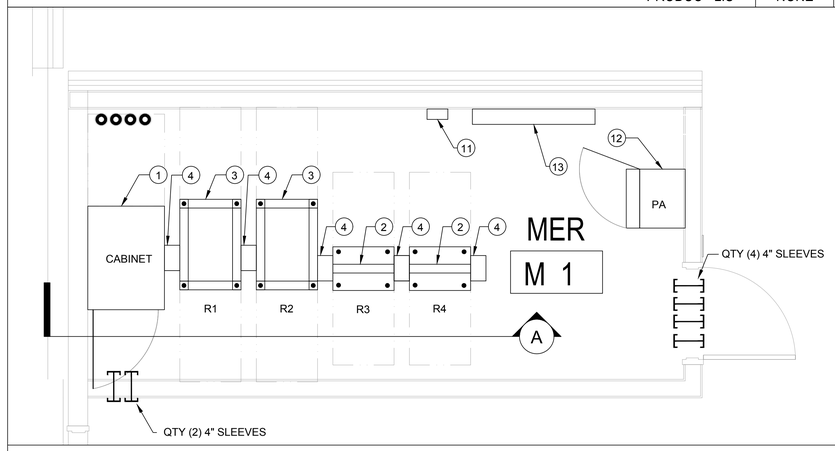

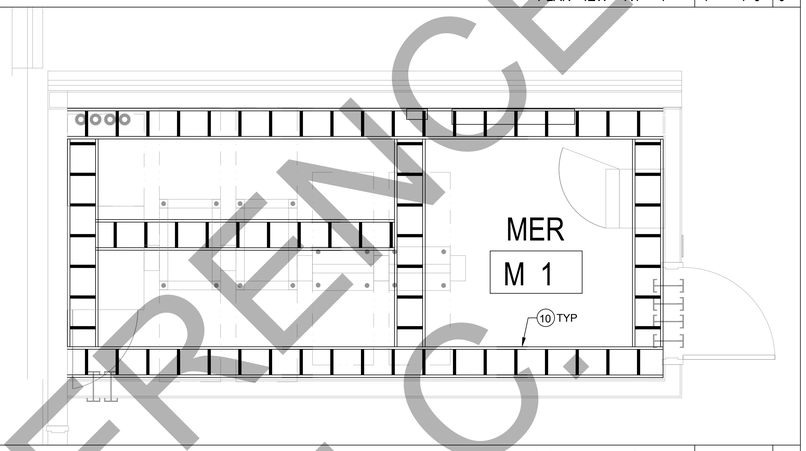

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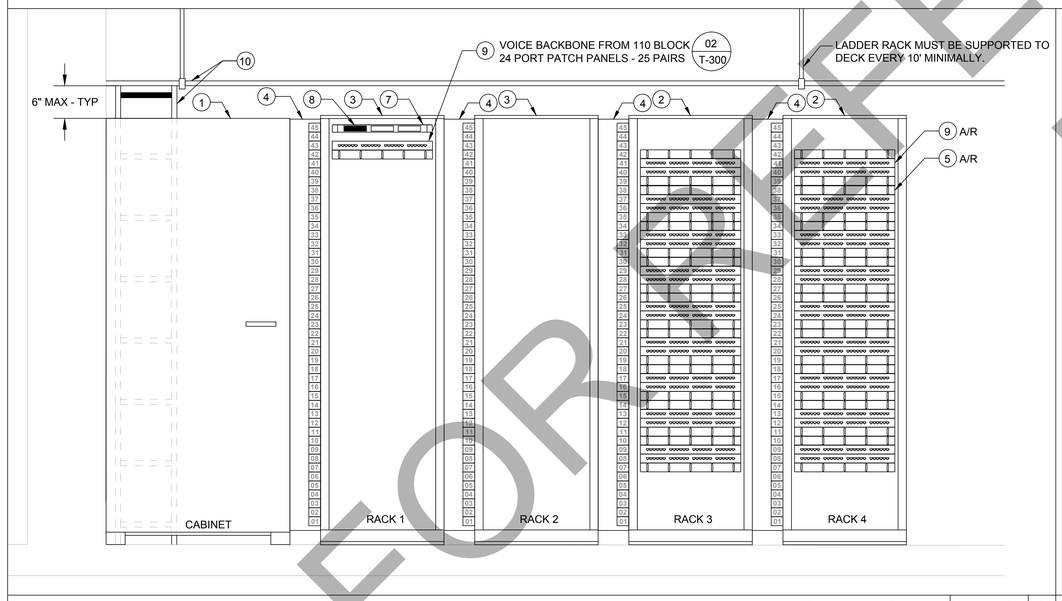
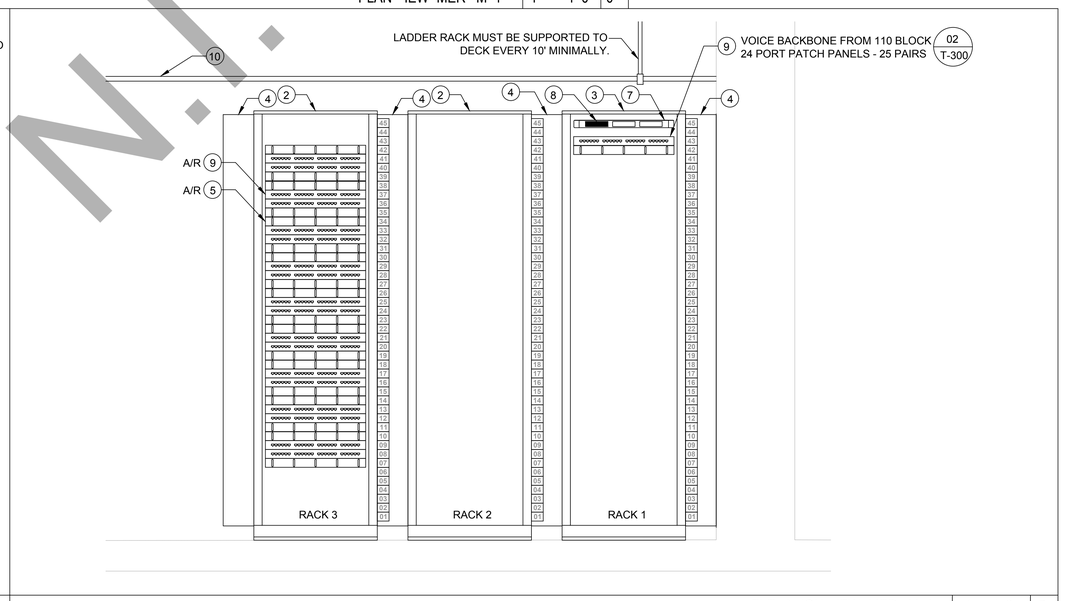


ELE A ION IEW MER M 1 | 1 1 0 | A



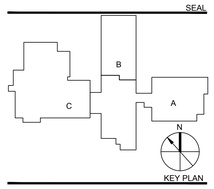
ELE A ION IEW MER M 1 | 1 1 0 | B

FOR REFERENCE ONLY

NO.	DATE	ISSUE

d'agostino & ASSOCIATES
Technology ~ Security ~ Audio Visual
1266 EAST MAIN STREET
SUITE 700R
STAMFORD, CT 06902
1000 LAFAYETTE BLVD.
SUITE 1100
BRIDGEPORT, CT 06604
TEL: 203.539.6164
FAX: 203.539.6001

SEAL



KEY PLAN

PERKINS — EASTMAN
422 Summer Street
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T. +1 203 251 7400
F. +1 203 251 7474

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400 WHITTLESEY DR, BETHEL, CT 06801
STATE PROJECT No: 009-0059-RNV

PROJECT No: 68962

DRAWING TITLE:
TECHNOLOGY EQUIPMENT ROOM LAYOUTS

SCALE:

T-200

CONSTRUCTION DOCUMENTS

JULY 27, 2018

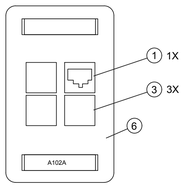
PRODUCT DESCRIPTION

ITEM	DESCRIPTION	MANUFACTURER #
1	DATA JACK (BLUE), CLARITY 6A TRACJACK, T568B	HUBBELL #HJ6AB
2	VOICE JACK (WHITE), CLARITY 6A TRACJACK, T568B	HUBBELL #HJ6AW
3	BLANK INSERT	HUBBELL #SFBX10
4	F -TYPE CONNECTOR COUPLER	HUBBELL #SFFGxx
5	SINGLE GANG FACEPLATE, TWO-PORT OPENING	HUBBELL #IFP120xx
6	SINGLE GANG FACEPLATE, FOUR-PORT OPENING	HUBBELL #IFP140xx
7	106 TYPE FRAME TO MOUNT DATA JACKS	HUBBELL #Q1060
8	WALL MOUNTING, PHONE PLATE	HUBBELL #P630S1G
9	RJ45 PLUG FOR WIRELESS ACCESS POINT,CATEGORY 6A, T568B	HUBBELL #BRMOD4PSN25

NOTES:

1. ALL LABELING SHALL BE DESCRIBED PER THE OWNER PRIOR TO INSTALLATION.
2. COLOR OF ALL FACEPLATES AND TERMINATION CONNECTIONS MUST BE APPROVED BY ARCHITECT PRIOR TO PROCUREMENT AND INSTALLATION.

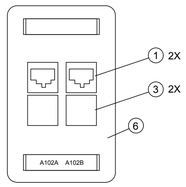
PRODUC MANU AC URER PAR NUMBERS | NONE | 1



SEE DETAIL #1 OF SHEET FOR MANUFACTURER PART #No's

S MBOL | 1D

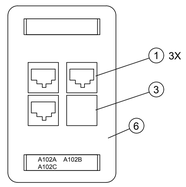
DA A OU LE | NONE



SEE DETAIL #1 OF SHEET FOR MANUFACTURER PART #No's

S MBOL | 2D

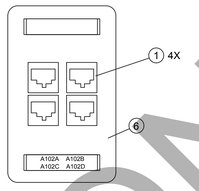
DA A OU LE | NONE



SEE DETAIL #1 OF SHEET FOR MANUFACTURER PART #No's

S MBOL | 3D

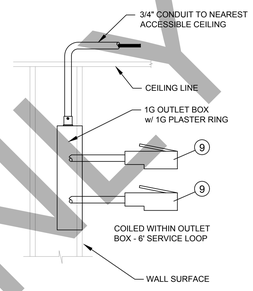
DA A OU LE | NONE



SEE DETAIL #1 OF SHEET FOR MANUFACTURER PART #No's

S MBOL | 4D

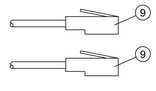
DA A OU LE | NONE



SEE DETAIL #1 OF SHEET FOR MANUFACTURER PART #No's

S MBOL | AP

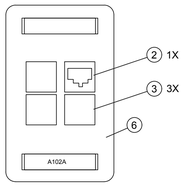
WAP WALL MOUN ED | NONE



SEE DETAIL #1 OF SHEET FOR MANUFACTURER PART #No's

S MBOL | AP

WAP CEILING MOUN ED | NONE



SEE DETAIL #1 OF SHEET FOR MANUFACTURER PART #No's

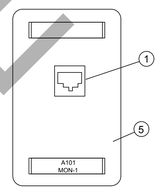
S MBOL | 1V

OICE OU LE | NONE

S MBOL

S MBOL

10



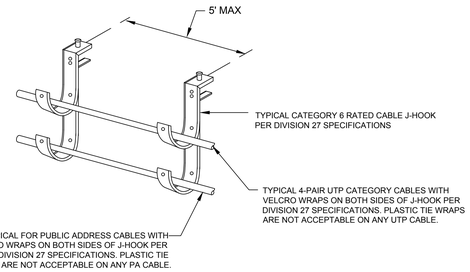
SEE DETAIL #1 OF SHEET FOR MANUFACTURER PART #No's

S MBOL | MON

MONI OR OU LE | NONE | 11

S MBOL

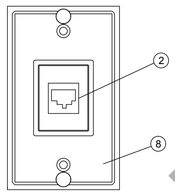
1



NOTE:

1. J HOOKS SHALL BE SIZED TO ACCOMMODATE TWICE AS MANY CABLES REQUIRED TO BE SUPPORTED INCLUDING AN ADDITIONAL 40% HEADROOM.

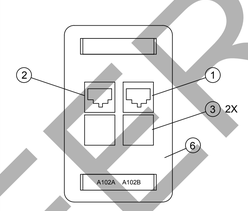
CABLING SUPPOR OO INS ALLA ION P | NONE | 1



SEE DETAIL #1 OF SHEET FOR MANUFACTURER PART #No's

S MBOL | W

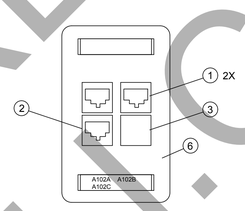
WALL P ONE OU LE | NONE | 1



SEE DETAIL #1 OF SHEET FOR MANUFACTURER PART #No's

S MBOL | 1V1D

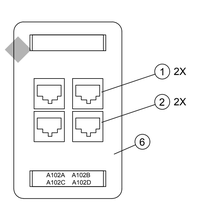
OICE DA A OU LE | NONE | 1



SEE DETAIL #1 OF SHEET FOR MANUFACTURER PART #No's

S MBOL | 1V2D

OICE DA A OU LE | NONE | 1



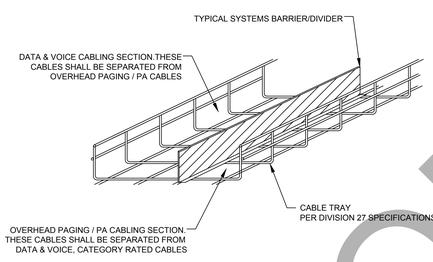
SEE DETAIL #1 OF SHEET FOR MANUFACTURER PART #No's

S MBOL | 2V2D

OICE DA A OU LE | NONE | 1

S MBOL

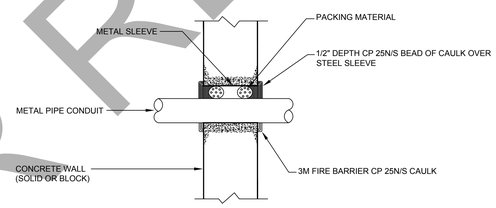
1



NOTE

1. LADDER RACK IS ONLY REQUIRED WITHIN THE DATA ROOMS. CATEGORY 6 RATED J-HOOKS ARE ALLOWED THROUGHOUT THE REMAINDER OF THE FACILITY.
2. IF THIS CABLE TRAY IS TO SUPPORT ANY ELECTRICAL CIRCUITS, A SECOND BARRIER/DIVIDER MUST BE INSTALLED TO KEEP ALL CABLING SEPARATED.

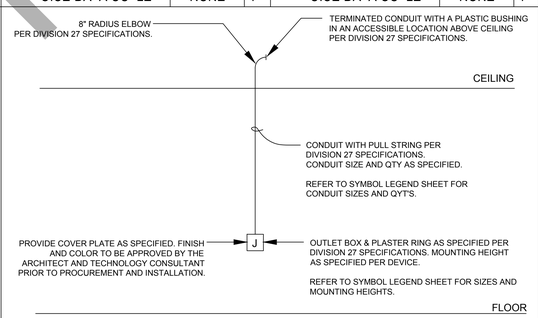
PRIMAR CABLING PA WA CABLE RA DE AIL | NONE | 1



NOTES:

1. FIRESTOP SHALL BE INSTALLED ON ALL WALL AND FLOOR PENETRATIONS WHEN THE WALL SPANS FLOOR TO FLOOR AND/OR ROOM TO ROOM.
2. FIRESTOP ASSEMBLY AND INSTALLATION MUST MEET OR EXCEED THE WALL RATINGS. REFER TO ARCHITECTURAL DRAWINGS FOR WALL AND FLOOR RATINGS.

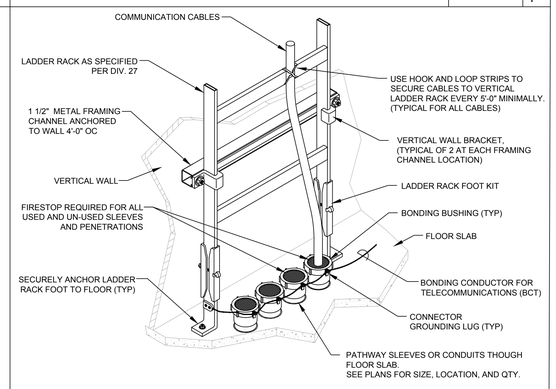
PENE RA ION IRES OP DE AIL | NONE | 0



NOTE:

1. ALL PENETRATIONS IN STAIRWELLS ARE TO BE SEALED WITH A FIRE RATED SEALANT TO MEET OR EXCEED THE WALL RATINGS. REFER TO ARCHITECTURAL DRAWINGS FOR WALL AND FLOOR RATINGS.

COMMUNICA ION OU LE CONDUI RACEWA INS ALLA ION | NONE | 1



ER ICAL LADDER RAC INS ALLA ION | NONE

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d'agostino & ASSOCIATES
Technology ~ Security ~ Audio Visual
1266 EAST MAIN STREET
SUITE 700R
STAMFORD, CT 06802
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SUITE 1100
BRIDGEPORT, CT 06604
TEL: 203.539.6164
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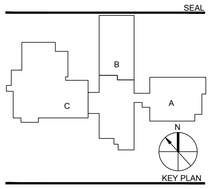
SEAL



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617.499.8000

PROJECT TITLE:

RALPH M. T. JOHNSON ELEMENTARY SCHOOL ADDITIONS & RENOVATIONS

400 WHITTLESEY DR, BETHEL, CT 06801
STATE PROJECT No: 009-0059-RNV

PROJECT No: 68962

DRAWING TITLE:

TECHNOLOGY

DETAILS

SCALE:

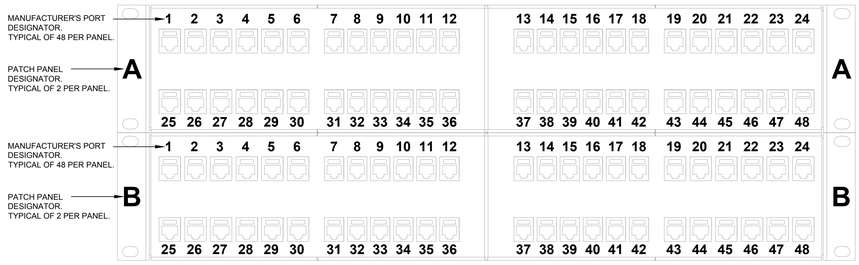
T-201

CONSTRUCTION DOCUMENTS

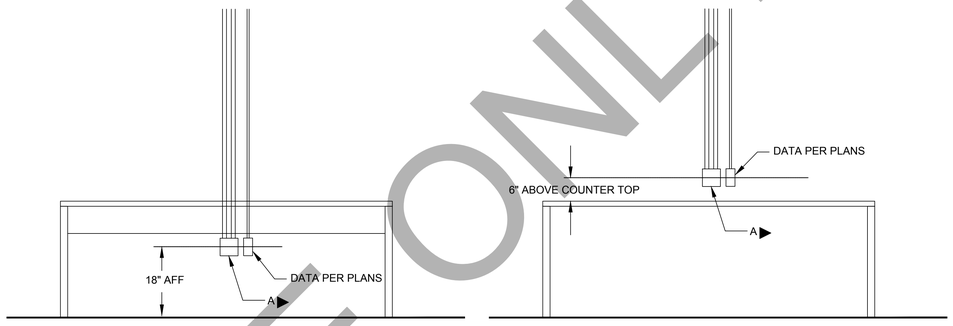
JULY 27, 2018

COMMUNICATION ROOMS - COMMUNICATION VOICE PUNCH BLOCKS OR DATA PATCH PANELS - COMMUNICATION TELEPHONE/DATA PORTS

LABEL PATCH PANELS FROM TOP TO BOTTOM AS: "A", "B", "C", "D" AS REQUIRED.



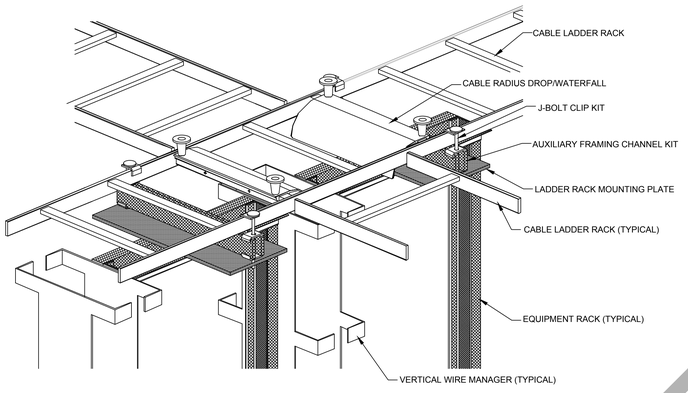
COMMUNICA ION PANEL DA A LABELING | NONE | 1



TYPICAL DESK

TYPICAL CASEWORK TEACHING AREA

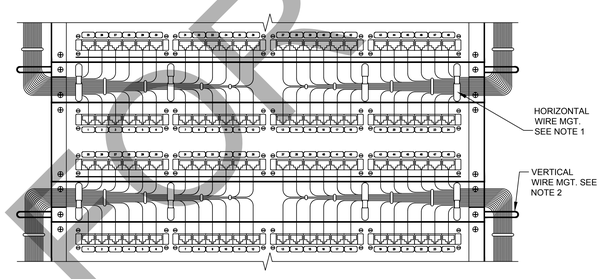
PICAL EAC ER S OU LE CON IGURA ION ELE A ION | NONE



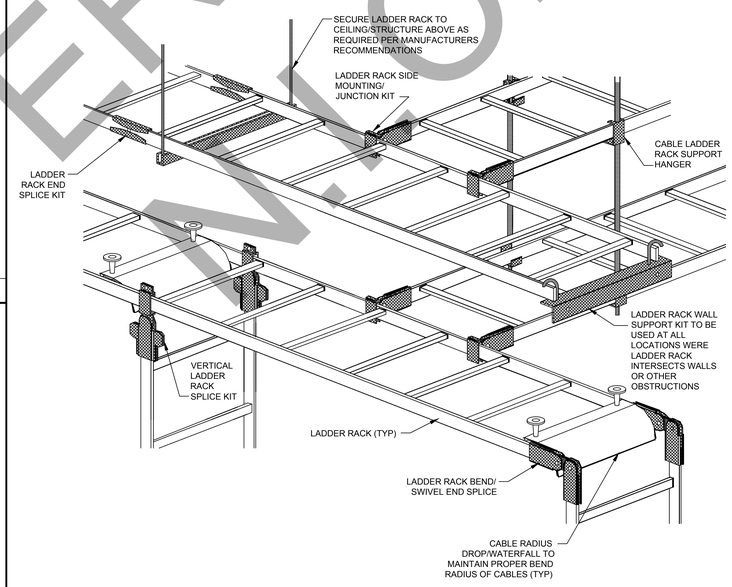
PICAL LADDER RAC INS ALLA ION ABO E E UIPMEN RAC DE AIL | NONE

NOTES:

1. PROVIDE HORIZONTAL WIRE MANAGEMENT (SIZED AS SHOWN ON RACK ELEVATION DETAILS) ABOVE AND BELOW EACH PATCH PANEL. SECURE CABLING WITH HOOK AND LOOP TYPE VELCRO STRAPS.
2. PROVIDE VERTICAL WIRE MANAGEMENT AS SHOWN IN THE RACK ELEVATION DETAILS. SECURE CABLING WITH HOOK AND LOOP TYPE VELCRO STRAPS.
3. CABLING SHALL BE NEATLY ORGANIZED AND SUPPORTED. SPLIT ROUTING OF CABLES TO PRESENT A NEAT EVEN APPEARANCE FOR IMPROVED SERVICE ABILITY AND CABLE SUPPORT SIMILAR TO ABOVE. WEIGHT OF CABLES SHALL BE SUPPORTED BY WIRE MANAGEMENT DEVICES AND NOT BY THE CABLE CONNECTION.
4. THIS ARRANGEMENT IS TYPICAL FOR THE FRONT AND REAR OF THE RACK.
5. PROVIDE STRAIN RELIEF AT ALL CABLE CONNECTIONS.



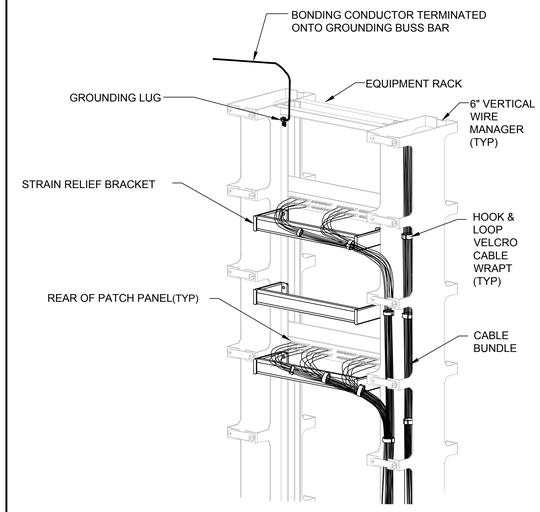
E UIPMEN RAC WIRING MANAGEMEN DE AIL | NONE



NOTE:

1. ALL CONNECTION HARDWARE, PARTS AND PIECES ARE TO BE OF THE SAME MANUFACTURER AS THE LADDER RACK AND APPROVED BY THE MANUFACTURER AS APPROPRIATE FOR THIS APPLICATION.

PICAL LADDER RAC CONNEC ION DE AIL | NONE



CABLE S RAIN RELIE DE AIL | NONE

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Technology - Security - Audio Visual
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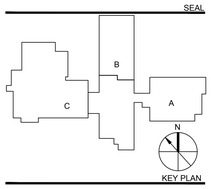

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PROJECT No: 68962

DRAWING TITLE:
TECHNOLOGY

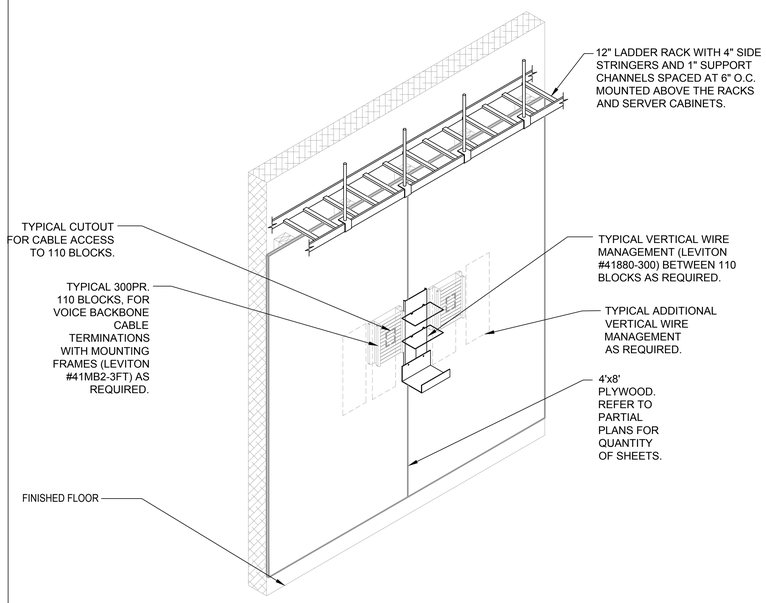
DETAILS

SCALE:

T-202

CONSTRUCTION DOCUMENTS

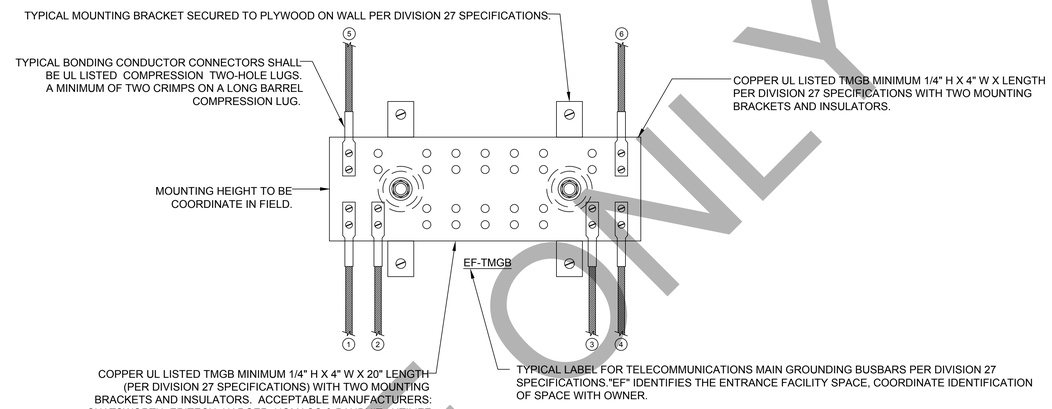
JULY 27, 2018

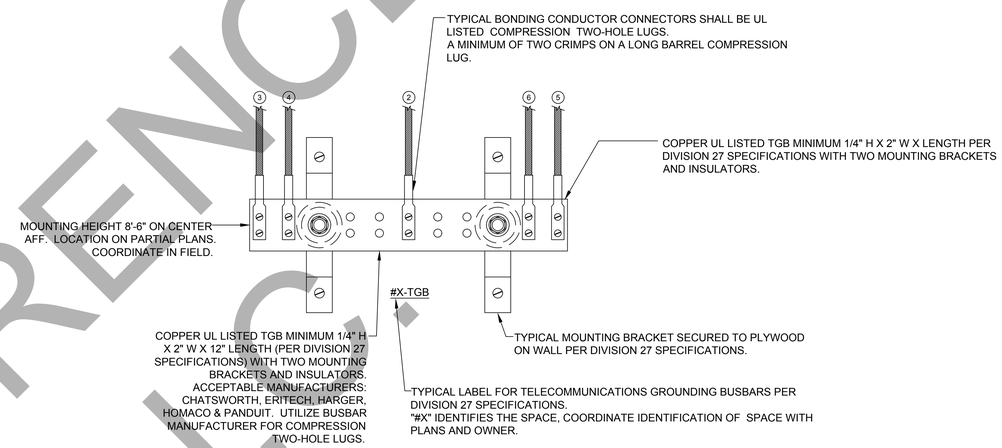


NOTES:

1. REFER TO TELECOMMUNICATIONS ROOM PARTIAL PLANS FOR VOICE WALLFIELD LOCATIONS AND MOUNTING SURFACES.
2. GENERAL CONTRACTOR TO PROVIDE CUTOUTS AND COORDINATE WITH CABLE CONTRACTOR ON LOCATIONS AND SIZES WITHIN THE PLYWOOD BACKBOARD FOR CABLE ACCESS TO VOICE TERMINATION FIELDS.
3. CABLE CONTRACTOR TO ROUTE ALL HORIZONTAL AND BACKBONE VOICE CABLING DOWN BACKSIDE OF PLYWOOD BACKBOARD, ROUTE THROUGH CUTOUT AND TERMINATE. MOUNT 300PR 110 BLOCKS OVER THE CUT.
4. THIS DETAIL IS FOR BASIC WALLFIELD CONFIGURATIONS ONLY, CABLE CONTRACTOR TO PROVIDE ALL NECESSARY EQUIPMENT TO ENSURE A NEAT AND WORKMANLIKE INSTALLATION OF ALL VOICE CABLING.

MER OICE WALL IELD ON PL WOOD BAC BOARD | NONE | 1





BONDING CONDUCTOR SIZING CHART

LENGTH (FEET)	SIZE (AWG)
LESS THAN (<) 13'	# 6
14' - 20'	# 4
21' - 26'	# 3
27' - 33'	# 2
34' - 41'	# 1
42' - 52'	# 1/0
53' - 66'	# 2/0
GREATER THAN (>) 66'	# 3/0

GROUNDING & BONDING RISER/DETAIL NOTES

A. REFER TO GROUNDING AND BONDING DIVISION 27 SPECIFICATIONS FOR ADDITIONAL INFORMATION.

B. REFER TO GROUNDING AND BONDING RISER DIAGRAM FOR ADDITIONAL INFORMATION.

C. PROVIDED 2"C SLEEVE PATHWAY AT EACH FLOOR AND WALL PENETRATIONS FOR THE TELECOMMUNICATION BONDING BACKBONE (TBB). COORDINATE PROPER METHODS FOR PENETRATIONS WITH FIRESTOPPING AS REQUIRED PER DIVISION 07 SPECIFICATIONS.

D. BONDING CONDUCTORS SHALL BE #3/0 AWG COLOR GREEN INSULATED COPPER CONDUCTOR OR SIZED PER "BONDING CONDUCTOR SIZING CHART" (ANSI J-STD-607-A) IN PATHWAY.

E. FASTENING BONDING CONNECTOR TWO-HOLE LUGS TO ALL BUSBARS SHALL BE CLEANED AND APPLY A COPPER ANTI-OXIDANT TO THE CONTACT AREA OF BOTH THE CONNECTOR LUG AND THE BUSBAR.

F. BONDING CONDUCTORS AND BUSBARS SHALL BE LABELED WITH IDENTIFICATION IN ACCORDANCE WITH THE REQUIREMENTS OF ANSI/TIA/EIA-606-A.

G. BONDING CONDUCTORS SHALL BE LABELED WITH IDENTIFICATION LABEL NOTED BELOW AND SECURED WITH CABLE TIE TO EACH CONDUCTOR. (ANSI J-STD-607-A) "IF THIS CONNECTOR OR CABLE IS LOOSE OR MUST BE REMOVED, PLEASE CALL THE BUILDING TELECOMMUNICATIONS MANAGER".

H. CONTINUITY TESTING MEASUREMENTS OF THE GROUNDING RESISTANCE TO NOT EXCEED 0.1 OHM BETWEEN:

H.1 THE TMGB AND THE NEAREST GROUNDING ELECTRODE.
H.2 EACH TGB AND THE NEAREST GROUNDING ELECTRODE.
H.3 EACH TGB AND PATHWAY(S), RACK(S), CABINET(S) AND APPLICABLE EQUIPMENT.

DRAWING NOTES

1. BONDING CONDUCTOR FOR TELECOMMUNICATIONS (BCT) TO BUILDING GROUNDING ELECTRODE. REFER TO RISER DIAGRAM.
2. BCT TO NEAREST BUILDING STEEL STRUCTURE, IF APPLICABLE. UTILIZE EXOTHERMIC WELDING CONNECTION TO BUILDING STEEL.
3. BCT TO NEAREST BUILDING ELECTRICAL PANELBOARD GROUND BAR. UTILIZE LISTED CONNECTOR TO PANELBOARD GROUND BUS.
4. TELECOMMUNICATION BONDING BACKBONE (TBB) FOR GROUNDING EQUALIZER (GE), IF APPLICABLE. REFER TO RISER DIAGRAM.
5. TYPICAL TBB(S) THAT INTERCONNECTS ALL TGB(S) WITH THE TMGB. REFER TO RISER DIAGRAM.
6. BCT TO TELECOMMUNICATIONS CABLE RUNWAY(S), RACK(S), CABINET(S) AND APPLICABLE EQUIPMENT. DAISY CHAINING OF BCT AT RELAY IS NOT ACCEPTABLE. EACH RACK IS TO HAVE A BCT TO A COMPRESSION LUG TAP TO THE DEDICATED HOMERUN BCT BACK TO THE TGB. SEE DETAILS.

ELECOMMUNICA IONS PA WA GROUNDING AND BONDING DE AILS | NONE

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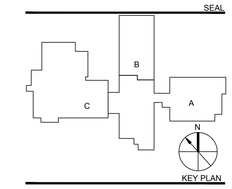

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400 WHITTLESEY DR, BETHEL, CT 06801
STATE PROJECT No: 009-0059-RNV

PROJECT No: 68962

DRAWING TITLE:
TECHNOLOGY

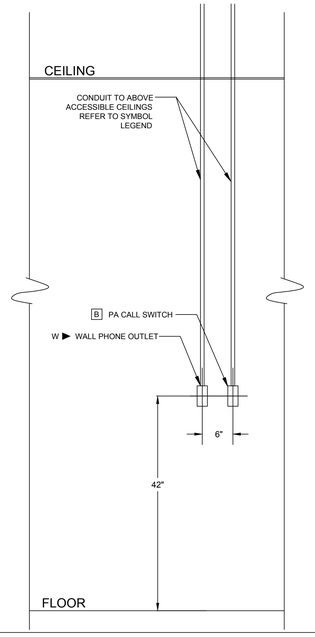
DETAILS

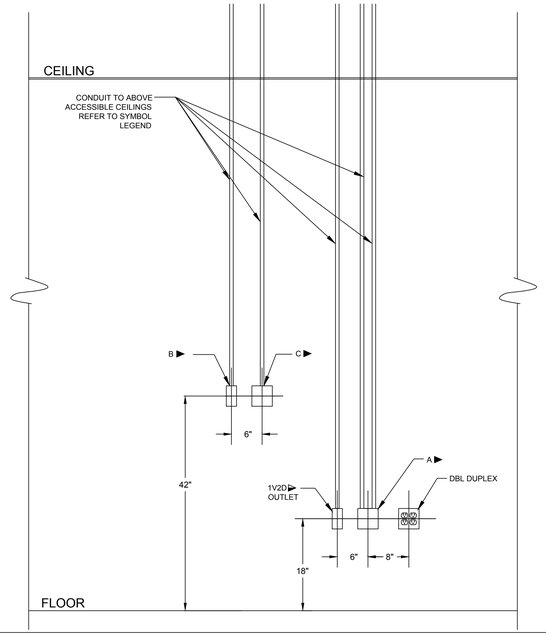
SCALE:

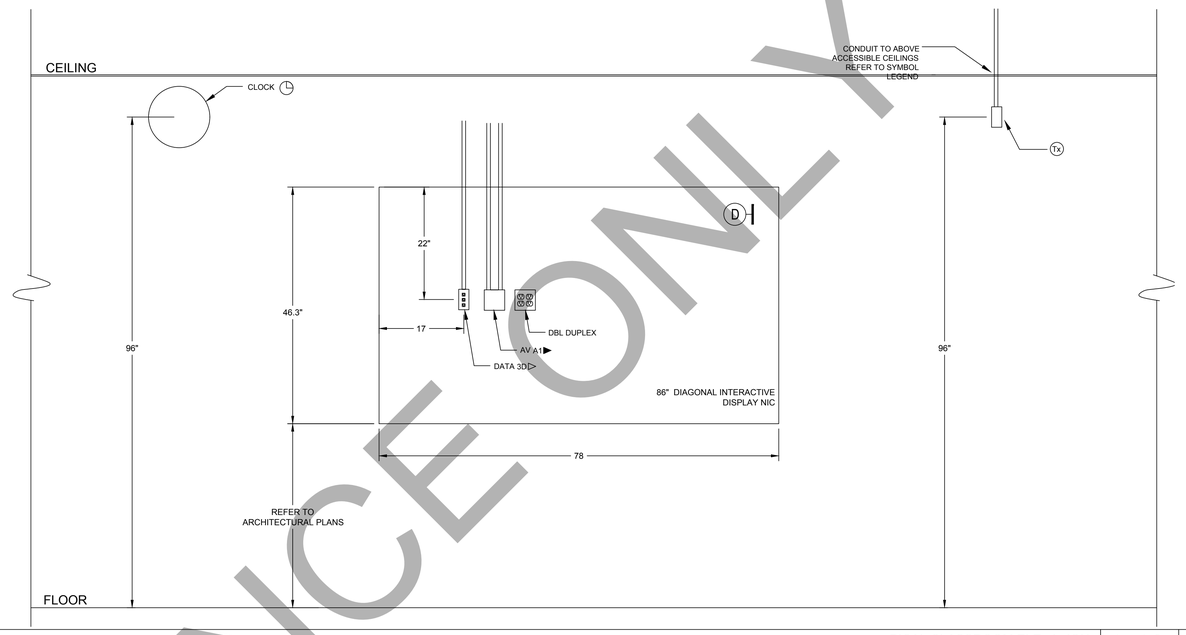
T-203

CONSTRUCTION DOCUMENTS

JULY 27, 2018







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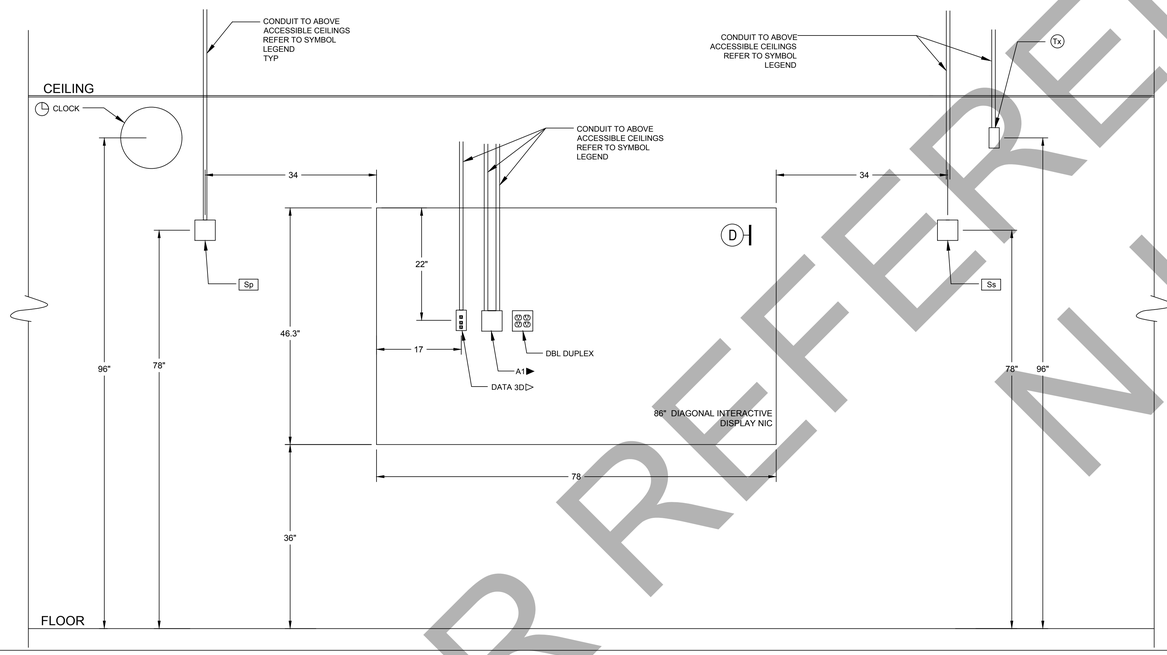

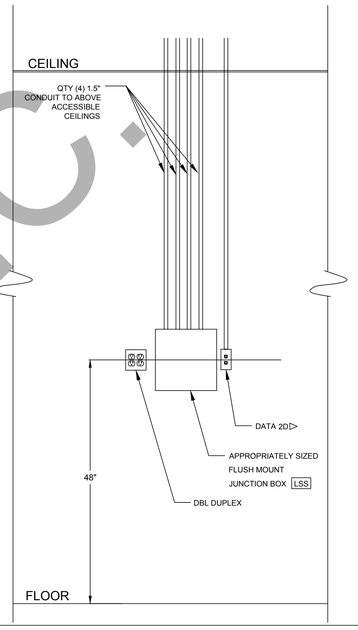

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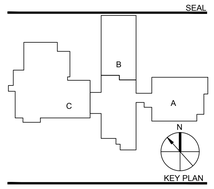

KEY PLAN

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400 WHITTLESEY DR, BETHEL, CT 06801
STATE PROJECT No: 009-0059-RNV

PROJECT No: 68962

DRAWING TITLE:
TECHNOLOGY

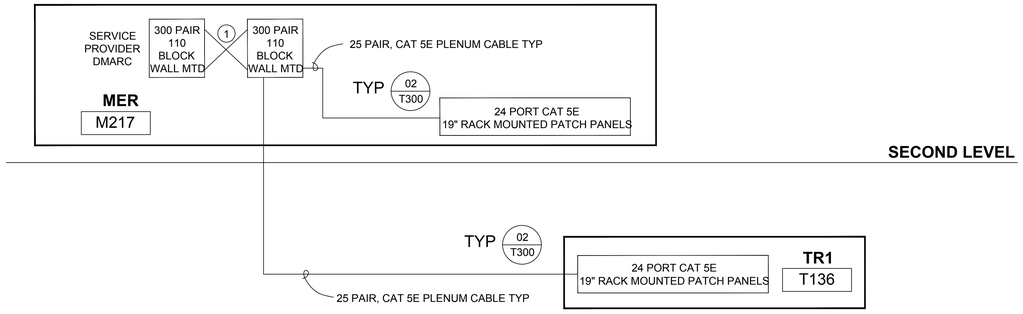
CLASSROOM ELEVATIONS

SCALE:

T-204

CONSTRUCTION DOCUMENTS

JULY 27, 2018



NOTES:

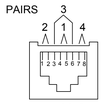
1. CROSS CONNECTION OF ALL PAIRS TO BE PERFORMED BY CONTRACTOR AWARDED THIS PROJECT.

WIRING DE AIL OICE BAC BONE | NONE | 01

25 PAIR, CAT 5E PLENUM CABLE		
PAIR #	COLOR	24 PORT PATCH PANEL
1	WHITE/BLUE - BLUE/WHITE	JACK 1, PAIR #1
2	WHITE/ORANGE - ORANGE/WHITE	JACK 2, PAIR #1
3	WHITE/GREEN - GREEN/WHITE	JACK 3, PAIR #1
4	WHITE/BROWN - BROWN/WHITE	JACK 4 PAIR #1
5	WHITE/GRAY - GRAY/WHITE	JACK 5, PAIR #1
6	RED/BLUE - BLUE/RED	JACK 6, PAIR #1
7	RED/ORANGE - ORANGE/RED	JACK 7, PAIR #1
8	RED/GREEN - GREEN/RED	JACK 8, PAIR #1
9	RED/BROWN - BROWN/RED	JACK 9, PAIR #1
10	RED/GRAY - GRAY/RED	JACK 10, PAIR #1
11	BLACK/BLUE - BLUE/BLACK	JACK 11, PAIR #1
12	BLACK/ORANGE - ORANGE/BLACK	JACK 12, PAIR #1
13	BLACK/GREEN - GREEN/BLACK	JACK 13, PAIR #1

25 PAIR, CAT 5E PLENUM CABLE		
PAIR #	COLOR	24 PORT PATCH PANEL
14	BLACK/BROWN - BROWN/BLACK	JACK 14, PAIR #1
15	BLACK/GRAY - GRAY/BLACK	JACK 15, PAIR #1
16	YELLOW/BLUE - BLUE/YELLOW	JACK 16, PAIR #1
17	YELLOW/ORANGE - ORANGE/YELLOW	JACK 17, PAIR #1
18	YELLOW/GREEN - GREEN/YELLOW	JACK 18, PAIR #1
19	YELLOW/BROWN - BROWN/YELLOW	JACK 19, PAIR #1
20	YELLOW/GRAY - GRAY/YELLOW	JACK 20, PAIR #1
21	VIOLET/BLUE - BLUE/VIOLET	JACK 21, PAIR #1
22	VIOLET/ORANGE - ORANGE/VIOLET	JACK 22, PAIR #1
23	VIOLET/GREEN - GREEN/VIOLET	JACK 23, PAIR #1
24	VIOLET/BROWN - BROWN/VIOLET	JACK 24, PAIR #1
25	VIOLET/GRAY - GRAY/VIOLET	SPARE - COIL @ PANEL

PAIRS



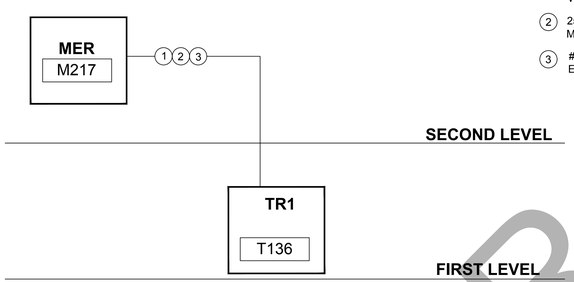
568B PIN ASSIGNMENTS

PAIR	PIN
1	5 4
2	1 2
3	3 6
4	7 8

PIN ERMINA ION OICE BAC BONE | NONE | 0

NOTES:

1. 12 STRAND OM3 50/125um MULTI-MODE FIBER OPTIC PLENUM RATED, ARMORED CABLE TERMINATED ONTO "LC" TYPE ADAPTER PLATES WHICH WILL BE TERMINATED WITHIN RACK MOUNTED FIBER OPTIC CABINETS AT ALL ENDS.
2. 25 PAIR CATEGORY 5E RATED PLENUM CABLE TERMINATED ONTO 110 STYLE, 300 PAIR WALL MOUNTED BLOCKS IN MER & TR'S RACK MOUNTED 110 STYLE PATCH PANELS IN EACH TR.
3. #6 AWG GROUNDING BUSS WIRE TERMINATING ONTO GROUNDING BUSS BARS AT EACH END



WIRING DIAGRAM DA A OICE IDEO GROUNDING BAC BONE | NONE | 0

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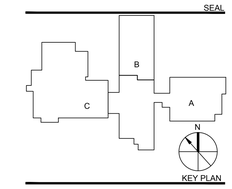

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400 WHITTLESEY DR, BETHEL, CT 06801
STATE PROJECT No: 009-0059-RNV

PROJECT No: 68962

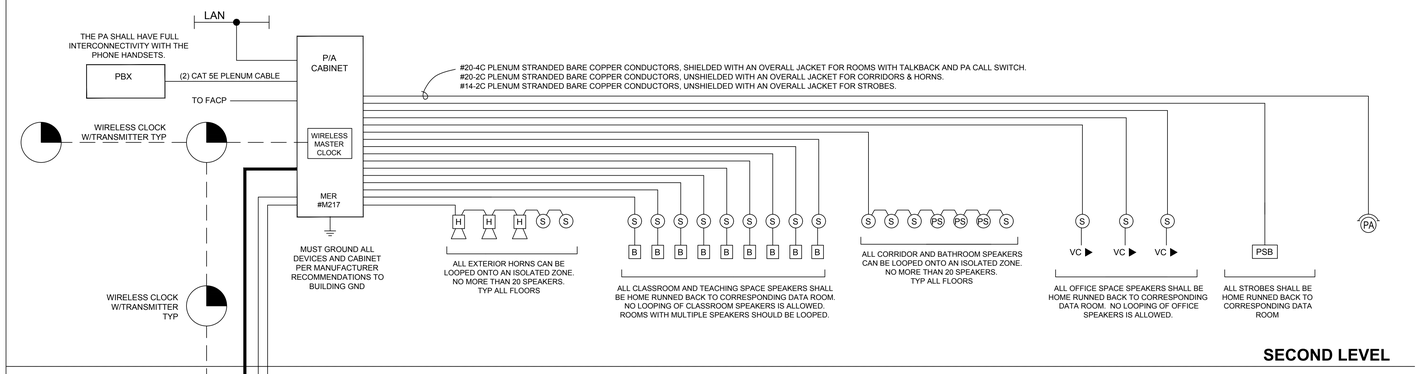
DRAWING TITLE:
TECHNOLOGY

BACKBONE DETAILS
SCALE:

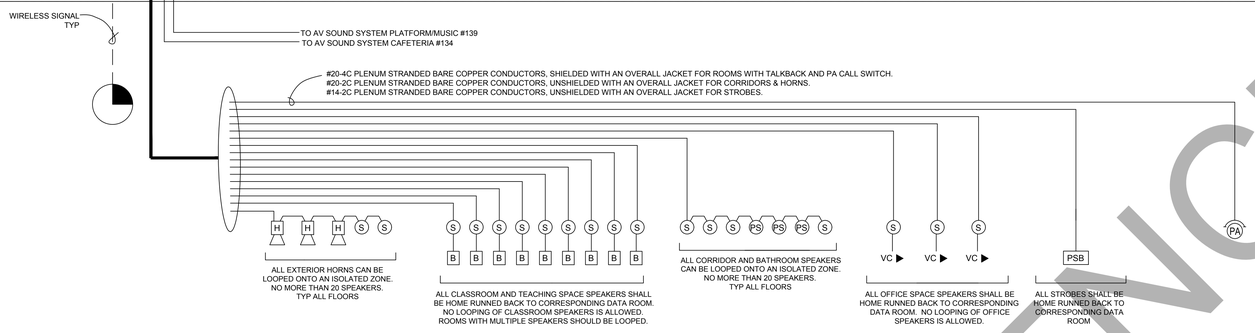
T-300

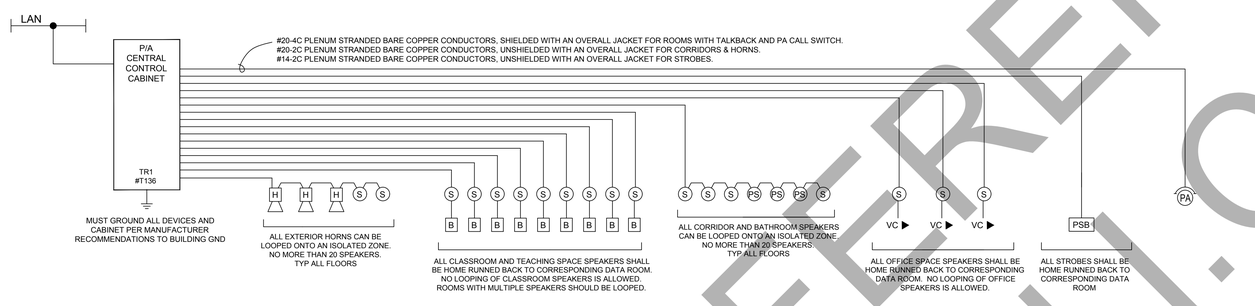
CONSTRUCTION DOCUMENTS

JULY 27, 2018



SECOND LEVEL





FIRST LEVEL

NOTES:

1. ALL PUBLIC ADDRESS CABLING FOR DEVICES SHALL BE CABLED TO THE DATA ROOMS AS INDICATED ON THE CABLE DECLINATIONS FOR LOW VOLTAGE CABLING.
2. RISER DIAGRAM ON THIS DRAWING IS FOR DESIGN PURPOSES ONLY. CONTRACTOR SHALL PROVIDE A COMPLETE RISER DIAGRAM WITH ACTUAL FIELD WIRING REQUIRED.
3. REFER TO SPECIFICATIONS FOR SYSTEM DESCRIPTION, SEQUENCE OF OPERATION AND OF WIRING.
4. FOR MICROPHONE CABLE RUNS, MAINTAIN A CLEARANCE OF A MINIMUM OF 12" FROM CONDUIT AND CABLES USED FOR ELECTRICAL POWER DISTRIBUTION. WHERE THIS IS NOT FEASIBLE, CROSS HIGHER VOLTAGE LINES PERPENDICULARLY.
5. ALL PENETRATION THROUGH FIRE RATED WALLS SHALL BE SEALED WITH AN APPROVED FIRE STOPPING MATERIAL.
6. SPEAKER CONDUCTORS INSTALLED IN ROOMS OF INSTRUCTION AND OFFICES SHALL BE ONE CONTINUOUS HOME RUN TO THE CENTRAL CONTROL RACK NO SPLICES SHALL BE ALLOWED.
7. THIS RISER DIAGRAM IS SHOWN AS REFERENCE TO INDICATE LOOPING AND ZONING REQUIREMENTS, ACTUAL QUANTITIES MUST BE CONFIRMED BY THE BIDDING CONTRACTOR AND BE OBTAINED FROM THE ARCHITECTURAL DRAWINGS, T-SERIES.
8. PA SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 72, 2010 OR THE MOST CURRENT FIRE CODE STANDARD ADOPTED BY THE STATE OF CONNECTICUT.
9. THE FIRE ALARM CONNECTION WITH THE PA SYSTEM SHALL BE COORDINATED WITH OWNER, FIRE ALARM INSTALLER, SECURITY CONSULTANT, AND PA DESIGNER.
10. PRIORITY OVERRIDE LOADS IN EACH INTERACTIVE DISPLAY LOCATION MUST BE CALCULATED INTO THE PUBLIC ADDRESS AMPLIFIER LOADS.
11. A 1 WATT REPEATER SHALL BE INCLUDED IN EACH DATA CLOSET FOR THE WIRELESS CLOCK SYSTEM.

PUBLIC ADDRESS WIRING DIAGRAM	NONE	01

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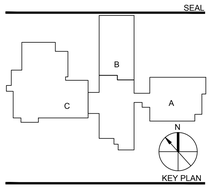

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DRAWING TITLE:
TECHNOLOGY

PUBLIC ADDRESS WIRING DIAGRAM

SCALE:

T-301

CONSTRUCTION DOCUMENTS

JULY 27, 2018

AUDIO VISUAL

SYMBOL	DESCRIPTION	DEVICE	CAT 6A CABLE PLENUM	CNTRL CABLE (RS232) (PLENUM)	RJ45 JACK - CAT 6A	FACEPLATE - DATA	CRESTRON APPROVED PLENUM RATED CAT 6A	HDMI CONNECTOR w / SPECIFIED CABLE	SPEAKER CABLE A/R	3.5mm Jack w / SPECIFIED CABLE	USB FEMALE CONNECTOR w / SPECIFIED CABLE	AV FACEPLATE	COMMMENTS
D	Interactive Display Data Outlet Behind Board Display Mount	Refer to specification 27 41 00 for interactive display and mount types.											Data Outlet & Cabling is Required for Interactive Display. Refer to drawings and specification for mounting information and display mount part number. Display must be coordinated with Architectural elevations.
A ▶	Teacher Location A/V Interface Plate	HDMI, 3.5mm, Data Jack, USB, refer to T201.	1					1		1	1	1	Mounting Height 18" A.F.F. unless otherwise noted. Refer to wiring diagrams and written specifications for specific requirements.
A1 ▶	Projector Location A/V Interface Plate	HDMI, 3.5mm, Data Jack, USB, refer to T201.	2					1		1	1	1	Mounting Height 84" A.F.F. unless otherwise noted. Refer to wiring diagrams and written specifications for specific requirements.
Sp	Classroom Amplified Speaker	OWI #AMP-HD2SIC6											Ceiling mounted. Refer to wiring diagram and written specification for all requirements and associated devices.
Ss	Classroom Secondary Speaker	OWI #IC6											Ceiling mounted. Refer to wiring diagram and written specification for all requirements and associated devices.
C ▶	Blank Plate	2 Gang Blank Plate											Mounting Height 42" A.F.F. See AV wiring diagrams
MIC ▷	Microphone Input Plate	Proco #WP103											
B ▶	Classroom Volume Control	OWI #MC4		1									Mounting Height 42" A.F.F. Refer to specification for configuration description.
T1	Assisted Listening XMTR Voice Uplift Wirless Mic.	OWI #KTSM-LT-84 OWI #IR20REC-KIT							1				Ceiling Mount ALS Transmitter Refer to specification for configuration and cable requirements.
E ▶	AV Transmitter	Crestron #HD-MD-300-C-E-B				1							Mount Transmitter 18" A.F.F. Mount Receiver at Projector. Refer to Det. 2, T301
F ▶	AV Button Controller	Crestron #MP-B10-B-T		1		1							Mounting Height 42" A.F.F. Refer to Det. 2, 301
—<	Wireless Mic Antenna	Shure #UA820											
Sp	Classroom Amplified Speaker - Wall Mount	OWI #AMPLV602							A/R				Mounting Height 66" A.F.F. Include Priority Override from Public Address System
Ss	Classroom Secondary Speaker - Wall Mount	OWI #P602							A/R				
GA	Gym Speaker	EV #SX100							A/R				Refer to wiring diagram for additional requirements. Include all mounting hardware and brackets.
GB	Gym Speaker	Fulcrum Acoustic #CX-1226							A/R				Refer to wiring diagram for additional requirements. Include all mounting hardware and brackets.
GC	Gym Speaker	Fulcrum Acoustic #DX-1295							A/R				Refer to wiring diagram for additional requirements. Include all mounting hardware and brackets.
M	Music Room Speaker	Fulcrum Acoustic #DX-896							A/R				Refer to wiring diagram for additional requirements. Include all mounting hardware and brackets.
C	Cafeteria Speaker	Fulcrum Acoustic #DX-896							A/R				Refer to wiring diagram for additional requirements. Include all mounting hardware and brackets.
LSSA	Local Sound System Cabinet	Middle Atlantic #ERK-4425-AV											Refer to wiring diagram for additional requirements.
LSSB	Local Sound System Cabinet	Middle Atlantic #CWR-18-32PD											Refer to wiring diagram for additional requirements.
LSSC	Local Sound System Cabinet	Middle Atlantic #EWR-12-22SD											Refer to wiring diagram for additional requirements.
Pr	Large Format Projector	Vivitek #DU8090Z					1	1					Refer to wiring diagram for additional requirements. Include all mounting hardware and brackets.
Tx	Blank Plate	1 Gang Blank Plate											
MON ▶	65" Display	ViewSonic #CD36502 Chief #XTM1U											

TELEPHONE / HANDSET

SYMBOL	DEVICE
PH-W	NEC #DTL-2DE, 2 BUTTON TELEPHONE WITH WALL MOUNTING PLATE
PH-A	NEC #DTL-12D, 12 BUTTON DISPLAY TELEPHONE
PH-B	NEC #DTL-24D, 24 BUTTON DISPLAY TELEPHONE

TELEPHONE / HANDSET NOTES:
1. REFER TO WRITTEN SPECIFICATION FOR SERVER, VOICE MAIL AND INSTALLATION INFORMATION.
2. THE FOLLOWING QUANTITIES OF EXISTING TELEPHONES ARE CURRENTLY ON SITE AND SHALL BE REUSED TO SUPPLEMENT THE TOTAL QUANTITY OF HANDSETS INDICATED ON THE PLANS:
   2.1. PH-A QTY (8) SHALL BE REUSED
   2.2. PH-B QTY (2) SHALL BE REUSED
   2.3. PW-W QTY (9) SHALL BE REUSED
3. INCLUDE ALL REQUIRED PATCH CABLES BETWEEN TELEPHONE AND VOICE JACK.

WIRELESS ACCESS POINT

SYMBOL	DEVICE
AP	AS SPECIFIED
AP	AS SPECIFIED
AP E	AS SPECIFIED

TECHNOLOGY ABBREVIATIONS

(NOTE: NOT ALL ABBREVIATIONS APPLICABLE)

3.5mm	3.5MM JACK PLUG (AUDIO)
AFF	ABOVE FINISH FLOOR
A/C	ABOVE COUNTER
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
AWG	AMERICAN WIRE GAUGE
BICSI	BUILDING INDUSTRY CONSULTING SERVICE INTERNATIONAL
BNC	BAYONET NEIL-CONCELMAN
C	CONDUIT(S)
DEMARC	DEMARCATION
DPDT	DOUBLE PULL DOUBLE THROW
EIA	ELECTRONICS INDUSTRIES ALLIANCE
EMT	ELECTRICAL METALLIC TUBING
FACP	FIRE ALARM CONTROL PANEL
F	FACSIMILE (FAX)
HDMI	HIGH DEFINITIONS MEDIA INTERFACE
LAN	LOCAL AREA NETWORK
MER	MAIN EQUIPMENT ROOM
NEC	NATIONAL ELECTRIC CODE
NIC	NOT IN CONTRACT
OFE	OWNER FURNISHED EQUIPMENT
PA	PUBLIC ADDRESS
PBX	PRIVATE BRANCH EXCHANGE
PC	PERSONAL COMPUTER
PoE	POWER OVER ETHERNET
PP	PATCH PANEL
PVC	POLYVINYL CHLORIDE CONDUIT
QYT	QUANTITY
STP	SHIELDED TWISTED PAIR
TBB	TELECOMMUNICATIONS BONDING BACKBONE
TGB	TELECOMMUNICATIONS GROUNDING BUSBAR
TIA	TELECOMMUNICATIONS INDUSTRY ASSOCIATIONS
TMGB	TELECOMMUNICATIONS MAIN GROUNDING BUSBAR
TR	TELECOMMUNICATIONS ROOM
TV	TELEVISION
TYP	TYPICAL
UPS	UNINTERRUPTIBLE POWER SUPPLY
USB	UNIVERSAL SERIAL BUS
UTP	UNSHIELDED TWISTED PAIR
VGA	VIDEO GRAPHICS ARRAY
VoIP	VOICE OVER INTERNET PROTOCOL
W	WALL TELEPHONE (VOICE)
WAN	WIDE AREA NETWORK
WAO	WORK AREA OUTLET
WAP	WIRELESS (DATA) ACCESS POINT
WG	WIRE GUARD
WP	WEATHERPROOF
XFMR	TRANSFORMER
XMTR	TRANSMITTER

GENERAL NOTES

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2. ALL COMMUNICATION OUTLETS MUST COINCIDE WITH ELECTRICAL POWER DRAWINGS AND SECURITY DRAWINGS. THE CONTRACTOR MUST COORDINATE ALL LOCATIONS OF THE ELECTRICAL OUTLETS WITH THE DATA OUTLETS.
3. LABEL ALL CABLES WITHIN 12" OF FINAL TERMINATION.
4. CONTRACTOR SHALL MAINTAIN THE TWIST OF THE INDIVIDUAL PAIRS TO WITHIN 1/2" OF FINAL TERMINATION FOR ALL CATEGORY 3 OR HIGHER CABLE.
5. USE ONLY HOOK AND LOOP CABLE TIES (VELCRO) FOR CABLES RATED CATEGORY 3 OR HIGHER.
6. ALL CABLES RUN IN CEILING AREAS SHALL BE PROPERLY SUPPORTED WITH CONDUIT OR J-HOOKS MOUNTED TO SLAT AT MINIMUM OF 4" INTERVALS. NO CABLE SHALL REST OR TOUCH CEILING ASSEMBLIES. CABLES SHALL NOT BE INSTALLED EXPOSED IN OPEN CEILING AREAS.
7. ALL LABELS SHALL BE MACHINE PRINTED. NO HAND LETTERED CABLES SHALL BE USED.
8. USE ONLY PLENUM RATED CABLES.
9. DO NOT RUN TELECOMMUNICATION CABLES PARALLEL TO POWER CABLES. CROSS POWER CABLES ONLY AT RIGHT ANGLES.
10. MAINTAIN 8" DISTANCE FROM ALL LIGHTING TRANSFORMERS.
11. COLOR AND STYLE OF TELECOMMUNICATION FACE PLATES SHALL MATCH ELECTRICAL FACE PLATES AND BE COORDINATED WITH AND CONFIRMED BY THE ARCHITECT.
12. OBTAIN AND EXTEND TO OWNER ALL AVAILABLE MANUFACTURER AND SYSTEM WARRANTEES.
13. SPLICING CABLES IS NOT PERMITTED EXCEPT AS SPECIFICALLY NOTED.
14. DEVICE CABLING SHALL BE TERMINATED WITHIN THE INDICATED DATA ROOMS AND SHALL BE TERMINATED ONTO A 19" RACK MOUNTED, RJ45, 24 PORT, CATEGORY 6A RATED PATCH PANEL.
15. THE FOLLOWING CABLING SHALL BE TERMINATED ONTO IT'S OWN DISCRETE AND SEPARATE CATEGORY 6A RATED, RACK MOUNTED PATCH PANELS. REFER TO RACK ELEVATION DETAILS:
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    15.2. ALL ADMINISTRATION AREAS AND OFFICES
    15.3. ALL WIRELESS AP'S
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19. CONTRACTOR SHALL COORDINATE ALL RACEWAYS, LOCATIONS, AND POWER REQUIREMENTS WITH THE ELECTRICAL CONTRACTOR.
20. ALL COMMUNICATION OUTLETS MUST COINCIDE WITH ELECTRICAL POWER DRAWINGS.
21. ALL VOICE AND DATA OUTLETS THAT DO NOT HAVE AN ELECTRICAL OUTLET WITHIN 3FT SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE THE PROJECT ARCHITECT, CONSTRUCTION MANAGER, AND TECHNOLOGY CONSULTANT PRIOR TO THE TIME OF INSTALLATION.
21. PLACEMENT OF ALL SECURITY VIDEO SURVEILLANCE CAMERAS MUST BE APPROVED BY THE SECURITY CONSULTANT AND/OR OWNER PRIOR TO CONSTRUCTION.
22. ALL EXISTING LOW VOLTAGE TERMINATION DEVICES & CABLING SHALL BE REMOVED & DISCARDED FROM THIS FACILITY.
23. ALL DEVICES SHOWN ON THESE PLANS MUST BE COORDINATED AND APPROVED BY THE ARCHITECT. THE INSTALLATION CONTRACTOR SHALL DEPICT ALL DEVICES ONTO ELEVATION SUBMITTALS BEFORE INSTALLATION. ANY DEVICE THAT IS NOT APPROVED BY THE ARCHITECT PRIOR TO INSTALLATION MAY BE REQUIRED TO BE RELOCATED AS DIRECTED BY THE ARCHITECT AND CORRECTED BY THE CONTRACTOR WITH NO ADDITIONAL CHARGE TO THIS PROJECT.
24. ALL PATHWAYS, INCLUDING ALL WALL AND CEILING PENETRATIONS ARE REQUIRED TO INSTALL CABLING TO THE END DEVICE AND SHALL BE COORDINATED BETWEEN THE LOW VOLTAGE AND SECURITY CONTRACTOR AND THE ELECTRICAL CONTRACTOR AND SHALL BE INCLUDED AS PART OF THIS SECTION.
25. ALL CABLING SHALL BE LABELED AT BOTH ENDS.
26. SEISMIC PERFORMANCE: ALL WALL MOUNTED DEVICES SHALL BE MOUNTED, SECURED AND INSTALLED IN ACCORDANCE WITH SEI/ASCE 7 AND SHALL ADDITIONALLY WITHSTAND THE EFFECTS OF ANY MOTIONS WITHIN THE BUILDING AS DETERMINED BY SEI/ASCE 7.
27. THE TERM 'WITHSTAND' MEANS "THE UNITS ILL REMAIN IN PLACE WITHOUT SEPARATION OF ANY PARTS FROM THE DEVICE WHEN SUBJECTED TO SEISMIC FORCES SPECIFIED AND THE UNIT WILL BE FULLY OPERATIONAL AFTER THE SEISMIC EVENT."
28. ALL CONDUIT IS TO ABOVE ACCESSIBLE CEILING UNLESS OTHERWISE NOTED.

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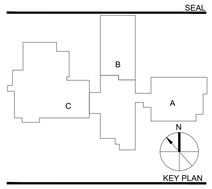

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Acoustical Consultant:
ACENTECH
33 Moulton Street
Cambridge, MA 02138
617.499.8000

PRODUCT DESCRIPTION

ITEM	DESCRIPTION	MANUFACTURER #
1		
2		
3		
4		
5		
6		
7		
8		
9		
10	DUAL GANG FACEPLATE	HUBBELL #IMF2xx
11	VGA WITH 3.5MM OVER 110	HUBBELL #IM15311015xx
12	3.5 mm STEREO JACK	HUBBELL #SF35FFxx
13	KEYSTONE FLAT 2-PORT 1 UNIT	HUBBELL #IM2K1xx
14	HDMI FEMALE CONNECTOR	HUBBELL #SFHC14
15	USB 110 EXTENDER	HUBBELL #IMU1101xx
16	KEYSTONE FLAT, 2-PORT, 1 UNIT HIGH	HUBBELL #IM1K1xx
17	3.5MM SOLDER	HUBBELL #SF35SJxx
18	SINGLE GANG 3-PORT	HUBBELL #IFP13xx
19	KEYSTONE FLAT 1-PORT 1 UNIT	HUBBELL #IM1K1xx
20	I-STATION 1 UNIT BLANK MODULE	HUBBELL #IMB1xx
21		
22	AV VOLUME CONTROL	OWI #MC4

NOTES:
1. ALL LABELING SHALL BE DESCRIBED PER THE OWNER PRIOR TO INSTALLATION.
2. COLOR OF ALL FACEPLATES AND TERMINATION CONNECTIONS MUST BE APPROVED BY ARCHITECT PRIOR TO PROCUREMENT AND INSTALLATION.

SYMBOL:

PRODUCT DESCRIPTION | NONE | 1

SEE DETAIL #1 OF THIS SHEET FOR MANUFACTURER PART #No's

SYMBOL: B ▶

NONE | 2

CONTROL OUTLET | NONE | 3

SEE DETAIL #1 OF THIS SHEET FOR MANUFACTURER PART #No's

SYMBOL: A1 ▶

A / V OUTLET - DEVICE END | NONE | 4

SEE DETAIL #1 OF THIS SHEET FOR MANUFACTURER PART #No's

SYMBOL: A ▶

A / V OUTLET - TEACHERS AREA | NONE | 5

PROJECT TITLE:
RALPH M. T. JOHNSON ELEMENTARY SCHOOL ADDITIONS & RENOVATIONS
400 WHITTLESEY DR, BETHEL, CT 06801
STATE PROJECT No: 009-0059-RNV

PROJECT No: 68962

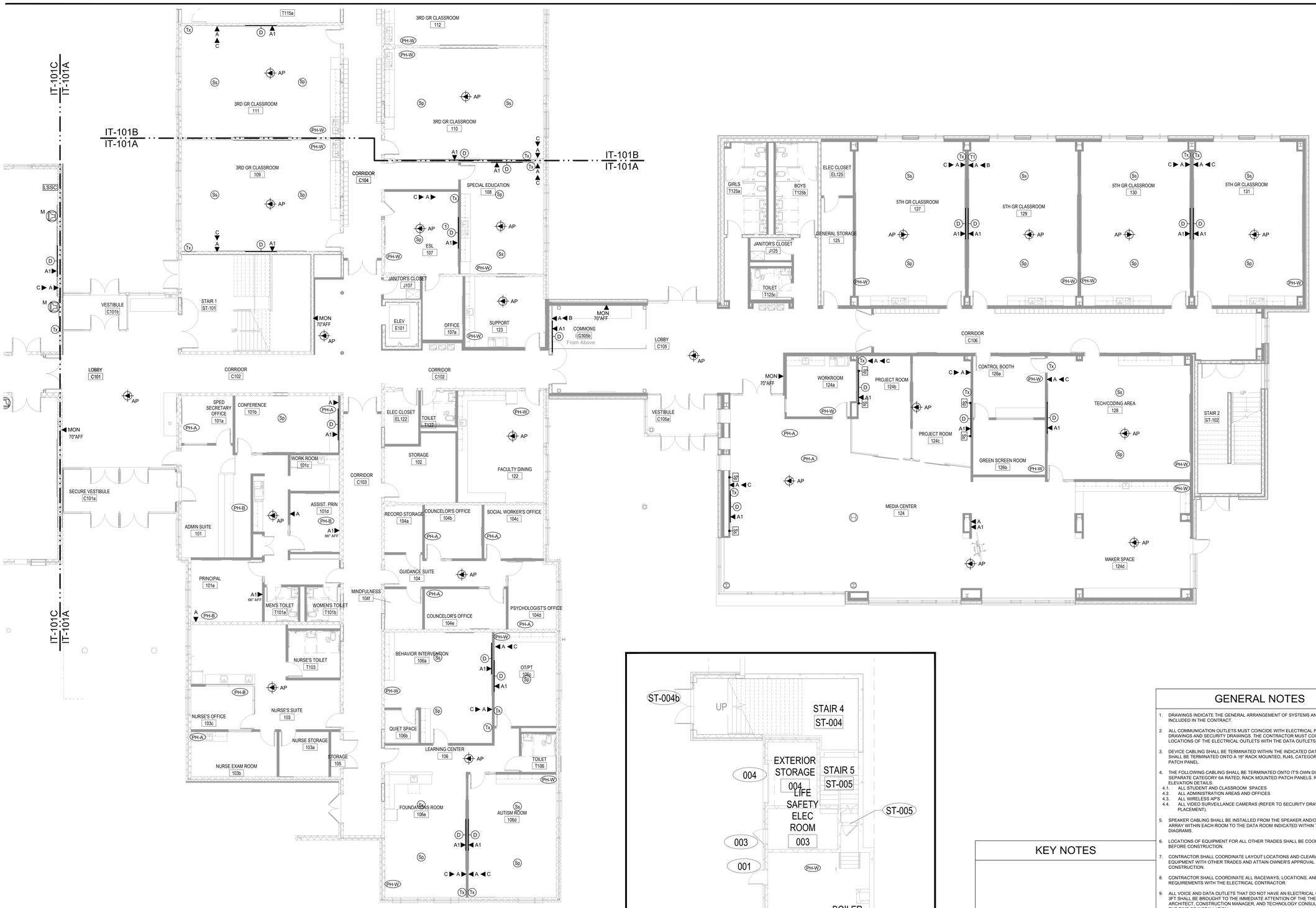
DRAWING TITLE:
TECHNOLOGY FFE SYMBOL LEGEND & GENERAL NOTES

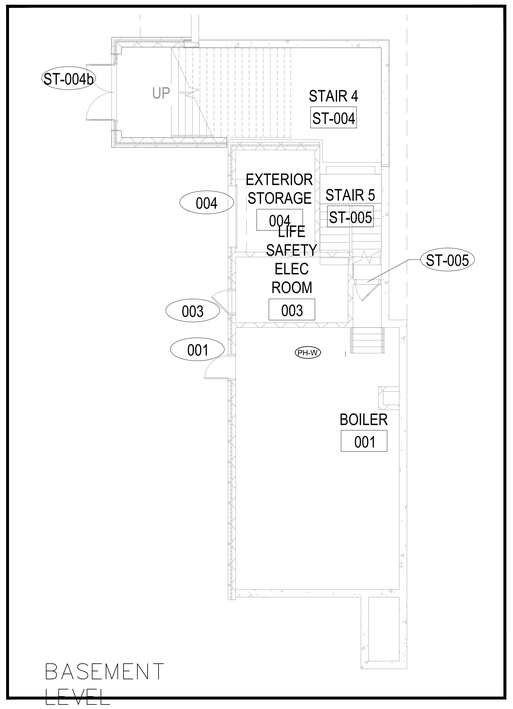
SCALE:

IT-001

CONSTRUCTION DOCUMENTS

AUGUST 19, 2019





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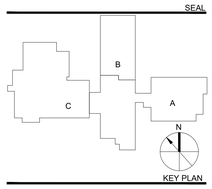

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STATE PROJECT No: 009-0059-RNV

PROJECT No: 68962

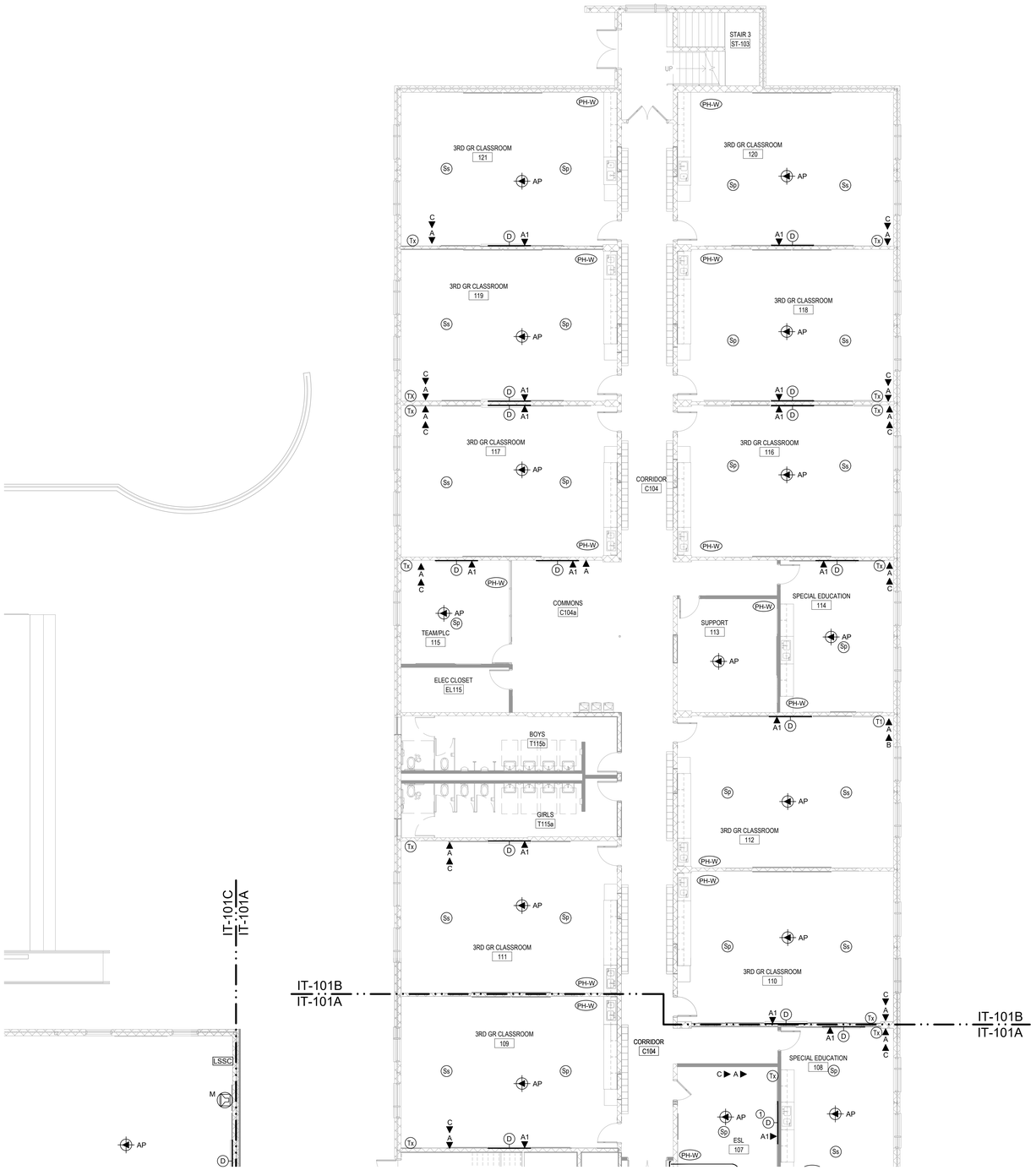
DRAWING TITLE:
TECHNOLOGY FFE

LEVEL 1, PART A & BASEMENT PLANS
SCALE: 1/8" = 1'-0"

IT-101A

CONSTRUCTION DOCUMENTS

AUGUST 19, 2019



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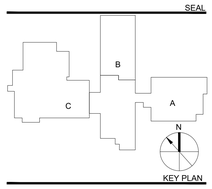

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Civil / Site / Landscape:
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203.271.1773

Structural:
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203.539.6164

Acoustical Consultant:
ACENTECH
33 Moulton Street
Cambridge, MA 02138
617.499.8000

PROJECT TITLE:
RALPH M. T. JOHNSON ELEMENTARY SCHOOL ADDITIONS & RENOVATIONS
400 WHITTLESEY DR, BETHEL, CT 06801
STATE PROJECT No: 009-0059-RNV

PROJECT No: 68962

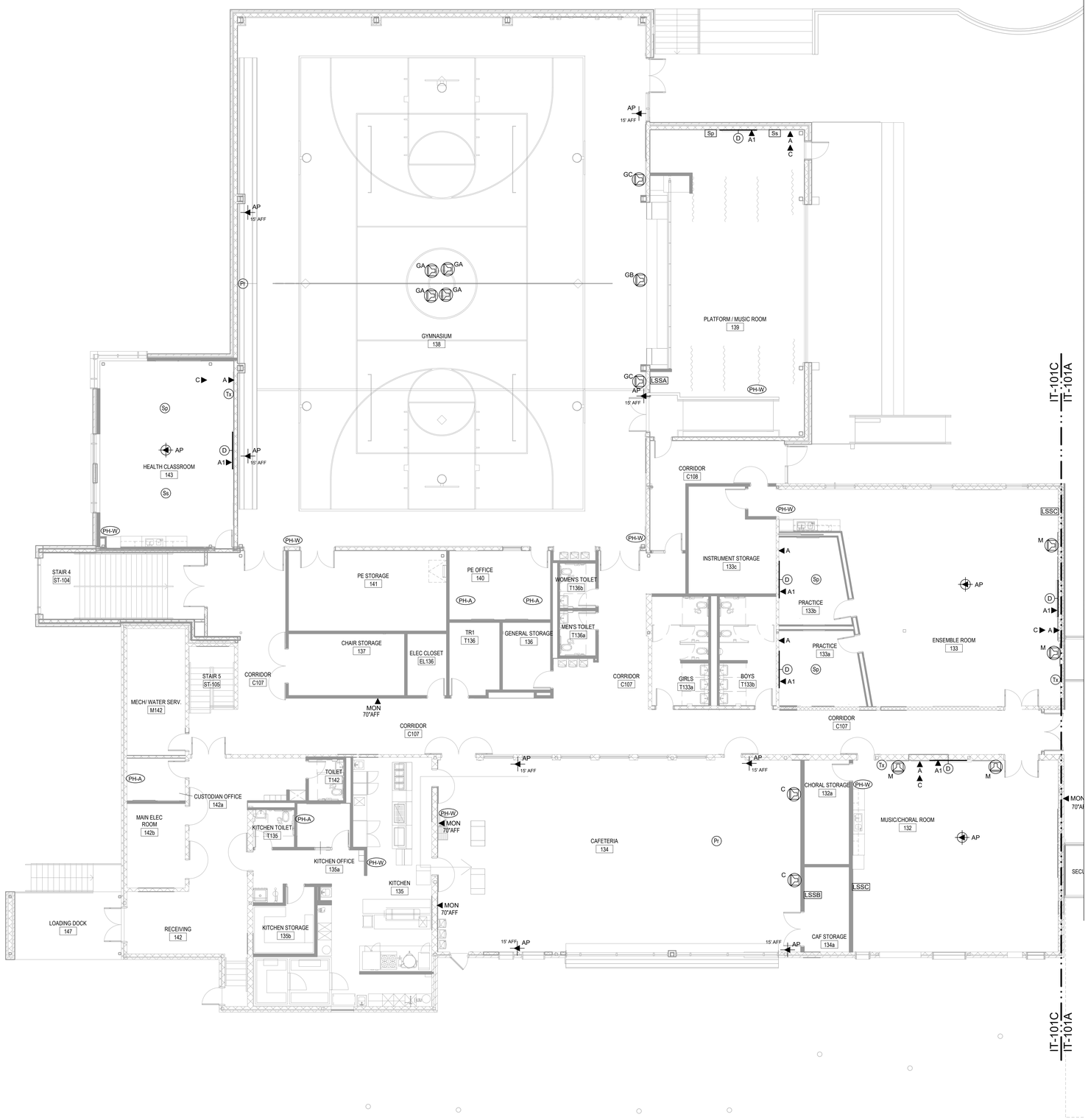
DRAWING TITLE:
TECHNOLOGY FFE

LEVEL 1, PART B PLAN
SCALE: 1/8" = 1'-0"

IT-101B

CONSTRUCTION DOCUMENTS

AUGUST 19, 2019



GENERAL NOTES

1. DRAWINGS INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS AND WORK INCLUDED IN THE CONTRACT.
2. ALL COMMUNICATION OUTLETS MUST COINCIDE WITH ELECTRICAL POWER DRAWINGS AND SECURITY DRAWINGS. THE CONTRACTOR MUST COORDINATE ALL LOCATIONS OF THE ELECTRICAL OUTLETS WITH THE DATA OUTLETS.
3. DEVICE CABLING SHALL BE TERMINATED WITHIN THE INDICATED DATA ROOMS AND SHALL BE TERMINATED ONTO A 19" RACK MOUNTED, RJ45, CATEGORY 6A RATED PATCH PANEL.
4. THE FOLLOWING CABLING SHALL BE TERMINATED ONTO IT'S OWN DISCRETE AND SEPARATE CATEGORY 6A RATED, RACK MOUNTED PATCH PANELS. REFER TO RACK ELEVATION DETAILS:
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   - 4.2. ALL ADMINISTRATION AREAS AND OFFICES
   - 4.3. ALL WIRELESS AP'S
   - 4.4. ALL VIDEO SURVEILLANCE CAMERAS (REFER TO SECURITY DRAWINGS FOR PLACEMENT).
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15. SECURE ATTACHMENT OF TECHNOLOGY ITEMS:
    TO ENSURE PROPER ATTACHMENT OF FIXTURES, FURNISHINGS & EQUIPMENT ITEMS, INCLUDING AND TECHNOLOGY ITEMS, WHERE "ITEMS" ARE ATTACHED TO WALL, CEILING, OVERHEAD STRUCTURE, AND/OR FLOOR, CONTRACTOR SHALL PROVIDE INFORMATION ADEQUATE FOR ARCHITECT TO VERIFY ITEMS, ATTACHED TO WALL, CEILING, AND/OR FLOOR ARE ATTACHED SECURELY AND PER MANUFACTURER'S RECOMMENDATIONS. ARCHITECT'S REVIEW MAY BE IMPLEMENTED DURING SUBMITTAL PROCESS. CONTRACTOR SHALL PROVIDE STRUTS, HANGERS, FASTENERS, SAFETY HARNESSES, CHANNELS, BOLTS, SCREWS, RODS, ETC. TO SECURELY ATTACH ITEMS TO EXISTING STRUCTURE AS REQUIRED TO MEET FIELD CONDITIONS AND MEET APPLICABLE CODES.

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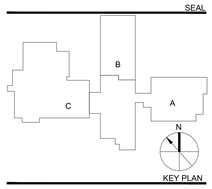

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DRAWING TITLE:
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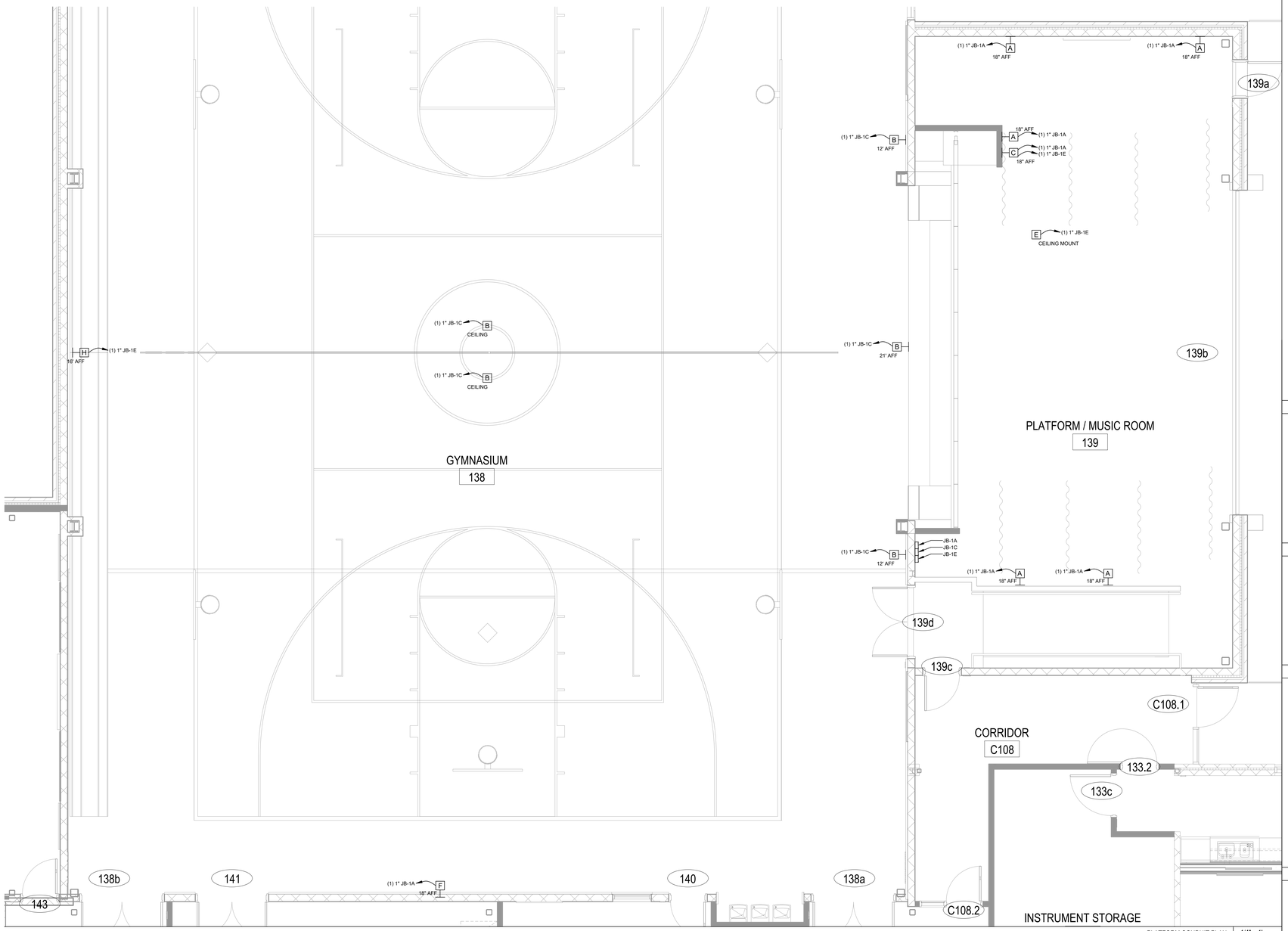
LEVEL 1, PART C PLAN
SCALE: 1/8" = 1'-0"

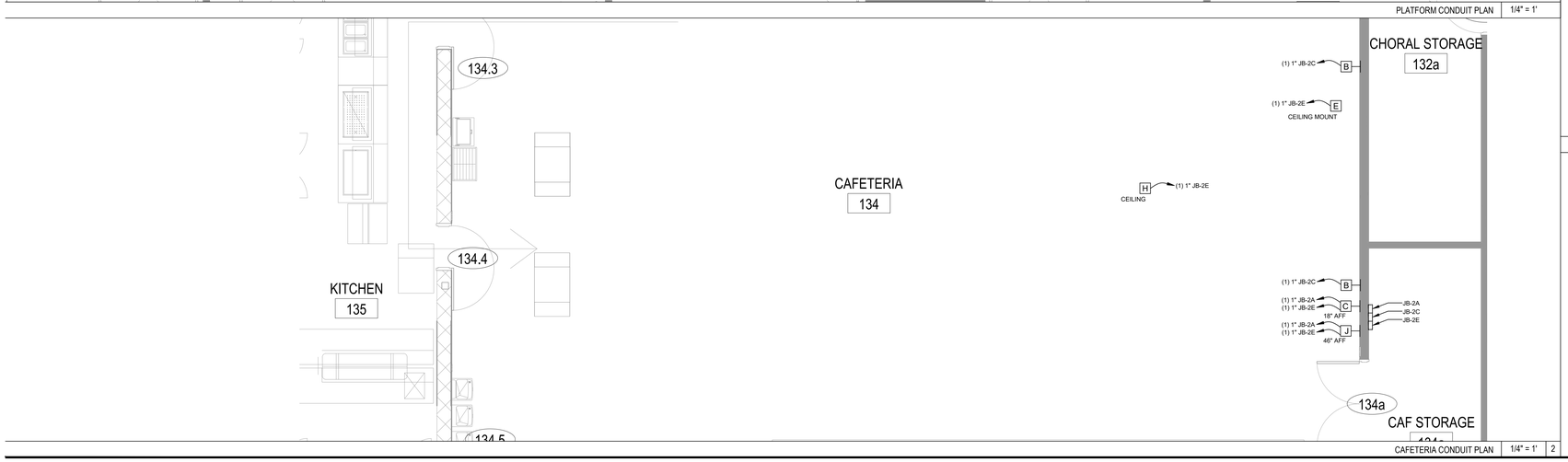
IT-101C

CONSTRUCTION DOCUMENTS

AUGUST 19, 2019



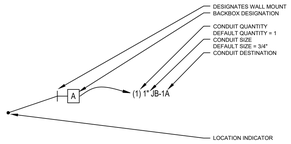
PLATFORM CONDUIT PLAN | 1/4" = 1'



CAFETERIA CONDUIT PLAN | 1/4" = 1' | 2

			CONNECTORS					CABLE					
SYMBOL	DESCRIPTION	BACKBOX SIZE	XLR FEMALE NEUTRIK #NC3DFX-L-1	SPEAKON 4-PIN NEUTRIK NL1M4P-BAG	RJ-45 CONNECTOR NEUTRIK NEBFDVY110-B	CRESTRON #DM-TX-200-C-2G-WALL	1.5" GROMMET PASS THROUGH	CRESTRON MPC-M5	BELDEN 82761	BELDEN 6930134	PLENUM RATED CONTROL CABLE (RS232)	CRESTRON DM-CBL-SC-P	BELDEN 1505A	FOR 110M 1GPCPCSH HOOM	CABLES FOR COMPLETE SYSTEM FUNCTIONALITY
A	MICROPHONE INPUT PLATE	4"X4"X4"	4						4						AR
B	SPEAKER OUTPUT PLATE	4"X4"X4"		2						2					AR
C	MICROPHONE & AV INPUT PLATE	4"X6"X4"	2			1			2			1			AR
D	MICROPHONE INPUT PLATE SCREEN PASS THROUGH PLATE	4"X4"X4"	2						2						AR
E		4"X4"X4"					1					1			AR
F	MIX STATION PLATE	4"X4"X4"			2									2	AR
G	CAMERA STATION PLATE	4"X4"X4"			2									2	AR
H	PROJECTOR PLATE	4"X4"X4"			2								2		AR
J	CONTROL PLATE	4"X4"X4"						1						1	AR
JB-1A	JUNCTION BOX	PER CONDUIT													AR
JB-1C	JUNCTION BOX	PER CONDUIT													AR
JB-1E	JUNCTION BOX	PER CONDUIT													AR
JB-2A	JUNCTION BOX	PER CONDUIT													AR
JB-2C	JUNCTION BOX	PER CONDUIT													AR
JB-2E	JUNCTION BOX	PER CONDUIT													AR

BACKBOX, FACEPLATE, CABLING LEGEND | NTS | 3



CONDUIT, DEVICE, AND DESTINATION KEY | NTS | 4

	GROUP A	GROUP B	GROUP C	GROUP D	GROUP E
GROUP A - MICROPHONE	ADJACENT	6"	18"	9"	12"
GROUP B - LINE	6"	ADJACENT	12"	3"	12"
GROUP C - LOUDSPEAKER	18"	12"	ADJACENT	9"	3"
GROUP D - VIDEO	9"	3"	9"	ADJACENT	3"
GROUP E - DATA & CONTROL	12"	12"	3"	3"	ADJACENT

CONDUIT SEPARATION KEY | NTS | 5

1. CONTRACTOR SHALL SUBMIT FOR REVIEW AND APPROVAL, SHOP DRAWING OF CONDUIT PLANS FOR THESE ROOMS PRIOR TO INSTALLATION.
2. ALL CONDUIT O BE FERROUS METAL (E.G., STEEL) LL CONDUIT IN PLENUM SPACES TO BE RIGID STEEL
3. CONDUIT RUN IN ND ELOW ONCRETE LABS N RADE TO BE PVC COATED STEEL.
4. RUN HOME RUNS TO JUNCTION BOXES
5. INTERMEDIATE MARSHALLING BOXES FOR THE GROUPING OF HOME RUN CONDUITS ARE ACCEPTABLE. CONTRACTOR RESPONSIBLE FOR MAINTAINING CONDUIT CAPACITY AND PULL BOX SIZE. USE 30% FILL RATE FOR CONDUIT SIZE CALCULATIONS.
6. ON CATWALKS AND GALLERIES SURFACE MOUNT OR PIPE MOUNT DEVICES AS FIELD CONDITIONS DICTATE.
7. FOR RECESS-MOUNTED GANG BOXES USE RACO 3-1/2" DEEP STEEL BACK BOXES OR EQUAL.
8. FOR SURFACE AND PIPE-MOUNTED GANG BOXES USE LEVITON BKBOX SERIES SURFACE MOUNT POWDER-COATED STEEL BOX OR EQUAL BY ELECTRONIC THEATRE CONTROLS.
9. SPACE CONDUIT AT LEAST 12 INCHES AWAY FROM POWER CONDUIT. INSULATE ALL CONDUIT FROM THE EQUIPMENT RACKS; GROUND CONDUIT ONLY TO POWER SYSTEM GROUND.
10. PROVIDE ALL EMPTY BOXES WITH PULL STRINGS.
11. PROVIDE PULL BOX AFTER 180 DEGREES OF CONDUIT BEND.
12. LABEL ALL GANG BOXES, JUNCTION BOXES, AND PULL BOXES.
13. LABEL ALL JUNCTION BOX AND PULL BOX DESTINATIONS.
14. SPECIALTY BACK BOX PROVIDERS:

FSR, INC.
244 BERGEN BOULEVARD
WOODLAND PARK, NEW JERSEY 07424
973.785.4347

MYSTERY ELECTRONICS, LLC
6438 MORTON ROAD
GREENBRIER, TENNESEE 37073
800.798.2256

ACE BACKSTAGE CO., INC.
24846 AVENUE ROCKEFELLER, SUITE 200
VALENCIA, CALIFORNIA 91355
661.295.5760

DRAWING NOTES | NTS | 6

	PROVIDED BY	INSTALLED BY
CONDUIT	ELECTRICIAN	ELECTRICIAN
BACKBOXES	AV INTEGRATOR	ELECTRICIAN
AV CABLING	AV INTEGRATOR	AV INTEGRATOR
AV DEVICES LISTED IN 27 41 00	AV INTEGRATOR	AV INTEGRATOR
CONFIGURATION LISTED IN 27 41 00	AV INTEGRATOR	AV INTEGRATOR

AV SCOPE RESPONSIBILITY | NTS | 7

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1266 EAST MAIN STREET
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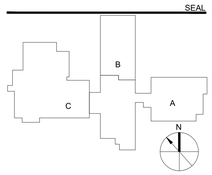

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PROJECT No: 68962

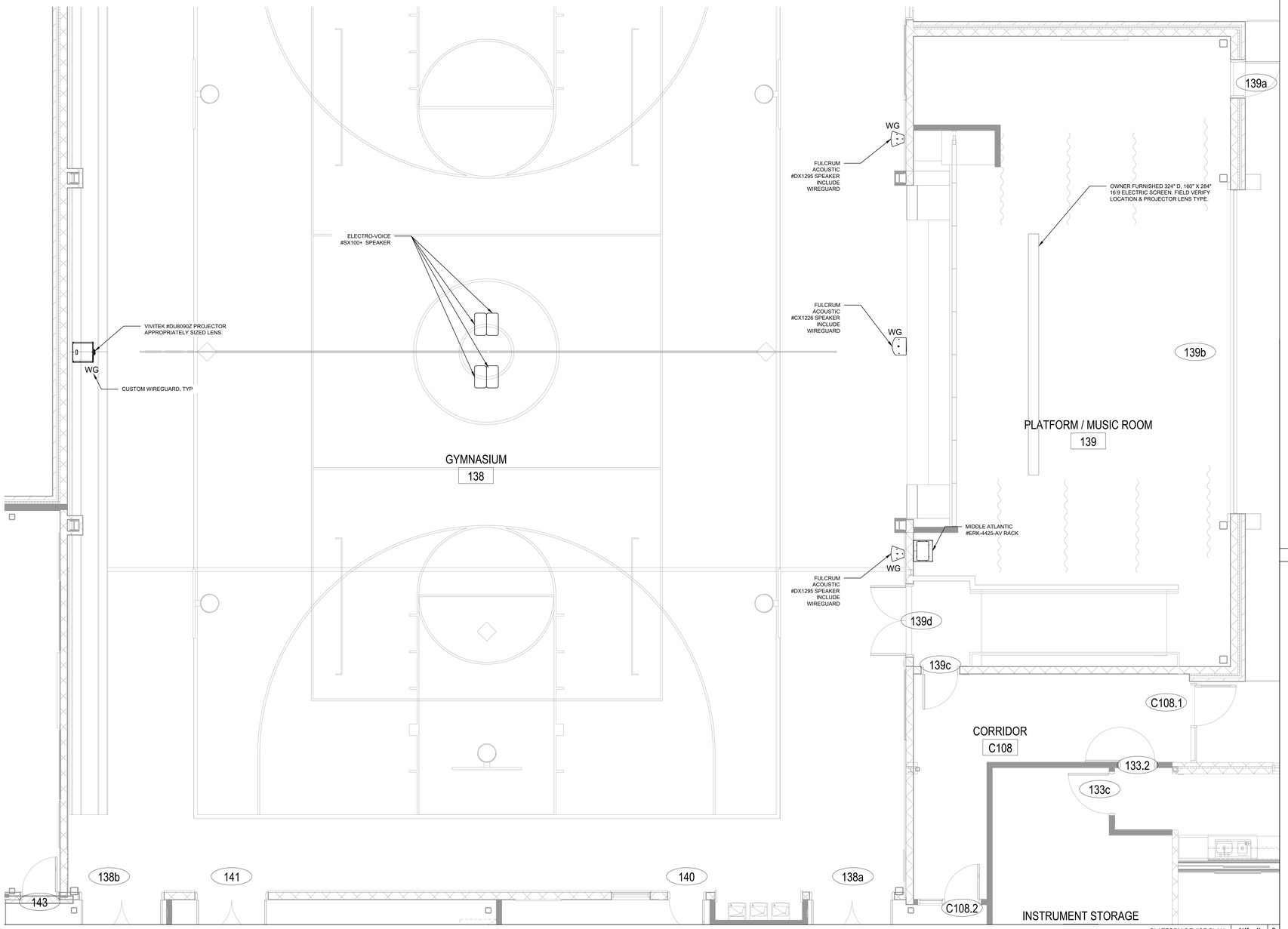
DRAWING TITLE:
AUDIO VISUAL GYMNASIUM & CAFETERIA CONDUIT DETAILS

SCALE: AS NOTED

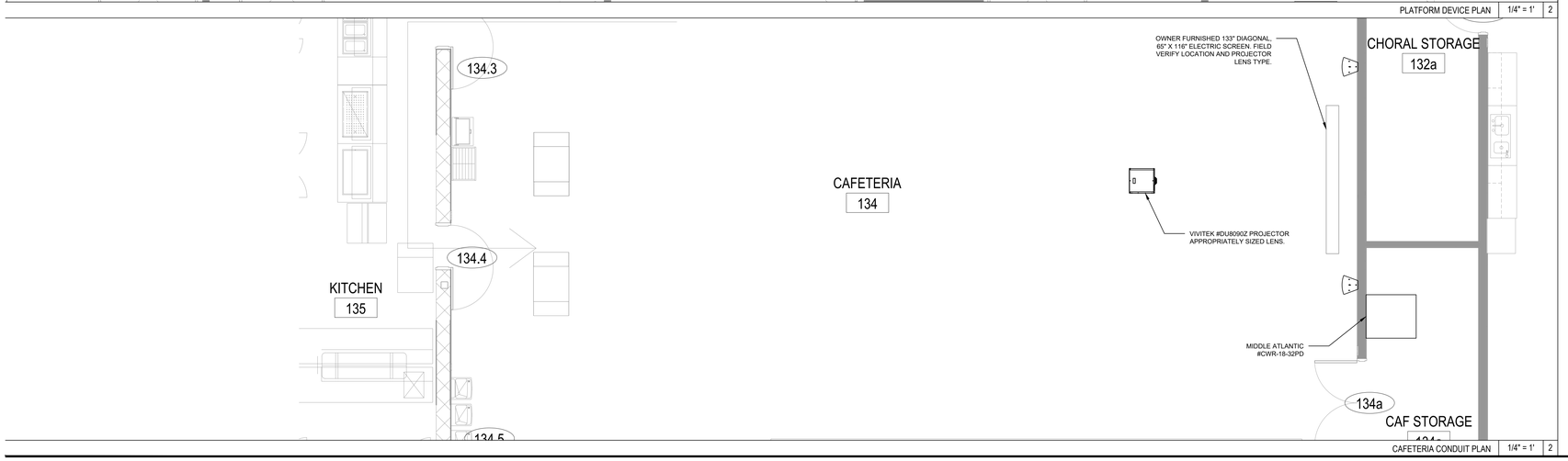
IT-101D

CONSTRUCTION DOCUMENTS

AUGUST 19, 2019



PLATFORM DEVICE PLAN | 1/4" = 1' | 2



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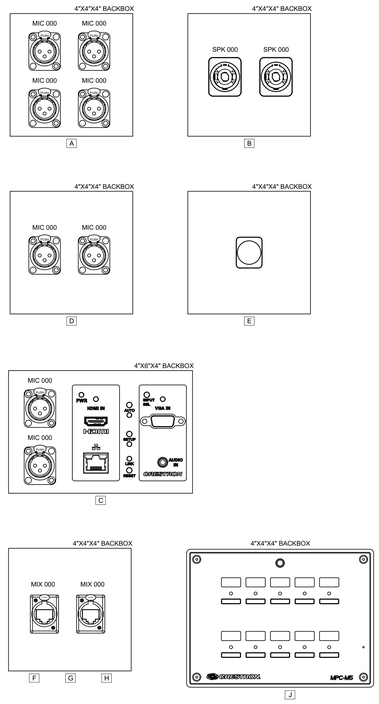

FACEPLATE DETAILS | NTS | 7

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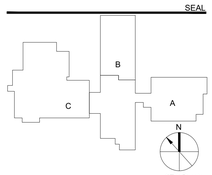

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SCALE: AS NOTED

IT-101E

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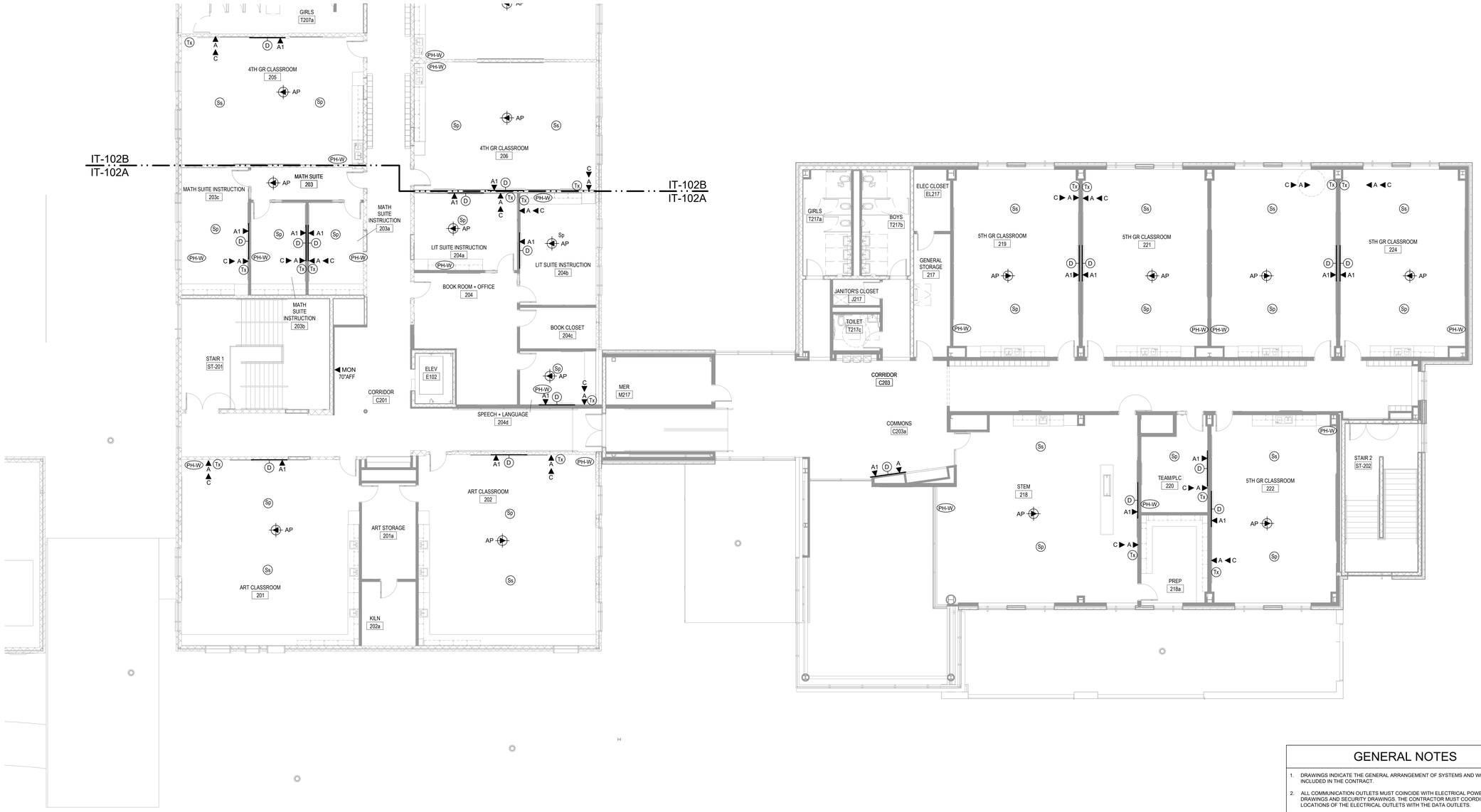

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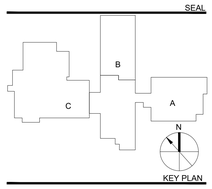

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PROJECT TITLE:
RALPH M. T. JOHNSON ELEMENTARY SCHOOL ADDITIONS & RENOVATIONS
400 WHITTLESEY DR, BETHEL, CT 06801
STATE PROJECT No: 009-0059-RNV

PROJECT No: 68962

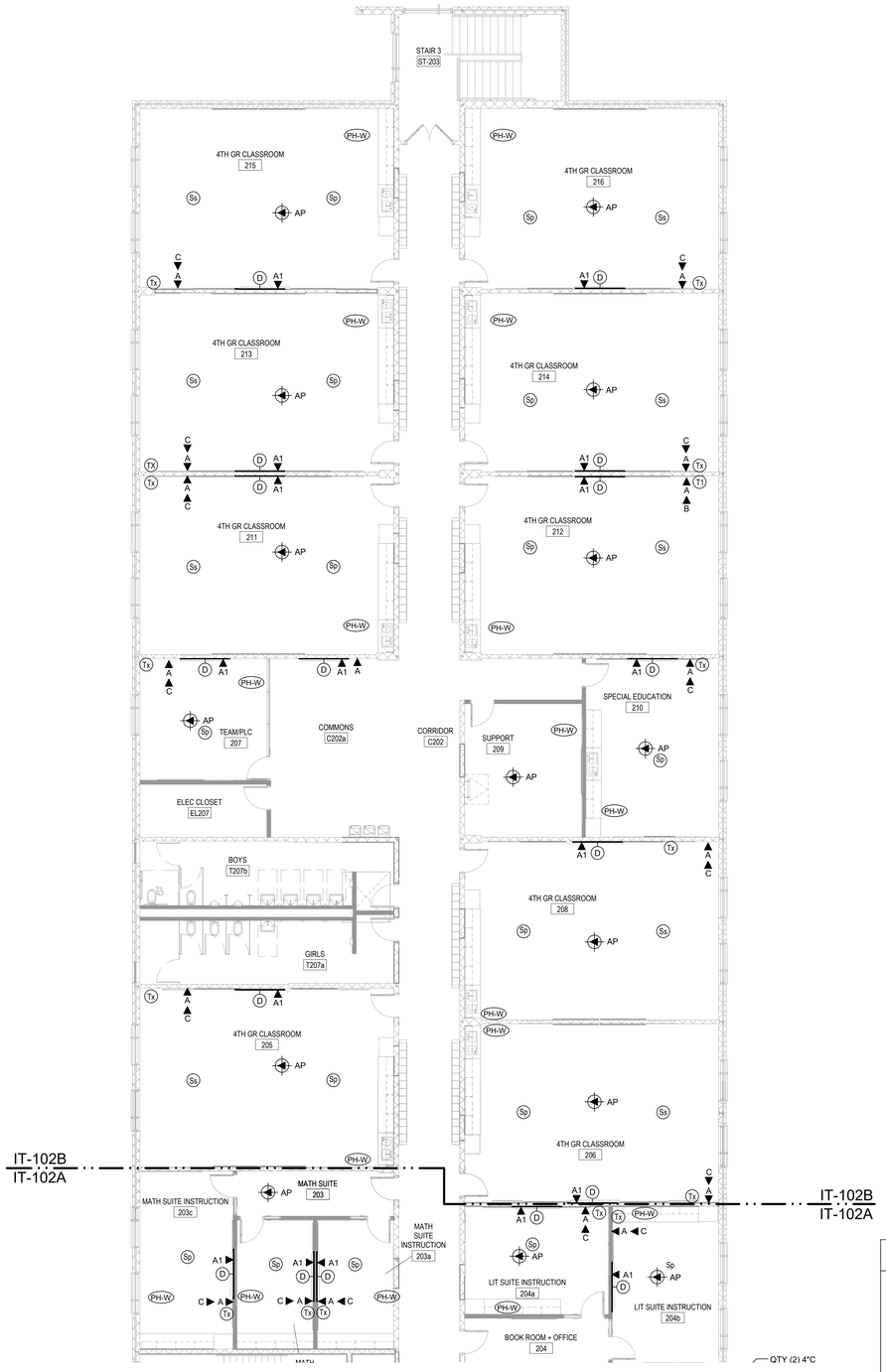
DRAWING TITLE:
TECHNOLOGY FFE

LEVEL 2, PART A PLAN
SCALE: 1/8" = 1'-0"

IT-102A

CONSTRUCTION DOCUMENTS

AUGUST 19, 2019



GENERAL NOTES

1. DRAWINGS INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS AND WORK INCLUDED IN THE CONTRACT.
2. ALL COMMUNICATION OUTLETS MUST COINCIDE WITH ELECTRICAL POWER DRAWINGS AND SECURITY DRAWINGS. THE CONTRACTOR MUST COORDINATE ALL LOCATIONS OF THE ELECTRICAL OUTLETS WITH THE DATA OUTLETS.
3. DEVICE CABLING SHALL BE TERMINATED WITHIN THE INDICATED DATA ROOMS AND SHALL BE TERMINATED ONTO A 19" RACK MOUNTED, RJ45, CATEGORY 6A RATED PATCH PANEL.
4. THE FOLLOWING CABLING SHALL BE TERMINATED ONTO IT'S OWN DISCRETE AND SEPARATE CATEGORY 6A RATED, RACK MOUNTED PATCH PANELS. REFER TO RACK ELEVATION DETAILS:
   - 4.1. ALL STUDENT AND CLASSROOM SPACES
   - 4.2. ALL ADMINISTRATION AREAS AND OFFICES
   - 4.3. ALL WIRELESS AP'S
   - 4.4. ALL VIDEO SURVEILLANCE CAMERAS (REFER TO SECURITY DRAWINGS FOR PLACEMENT).
5. SPEAKER CABLING SHALL BE INSTALLED FROM THE SPEAKER AND/OR SPEAKER ARRAY WITHIN EACH ROOM TO THE DATA ROOM INDICATED WITHIN THE PA WIRING DIAGRAMS.
6. LOCATIONS OF EQUIPMENT FOR ALL OTHER TRADES SHALL BE COORDINATED BEFORE CONSTRUCTION.
7. CONTRACTOR SHALL COORDINATE LAYOUT LOCATIONS AND CLEARANCE OF ALL EQUIPMENT WITH OTHER TRADES AND ATTAIN OWNER'S APPROVAL PRIOR TO CONSTRUCTION.
8. CONTRACTOR SHALL COORDINATE ALL RACEWAYS, LOCATIONS, AND POWER REQUIREMENTS WITH THE ELECTRICAL CONTRACTOR.
9. ALL VOICE AND DATA OUTLETS THAT DO NOT HAVE AN ELECTRICAL OUTLET WITHIN 3FT SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE THE PROJECT ARCHITECT, CONSTRUCTION MANAGER, AND TECHNOLOGY CONSULTANT PRIOR TO THE TIME OF INSTALLATION.
10. PLACEMENT OF ALL EXTERIOR SECURITY VIDEO SURVEILLANCE CAMERAS MUST BE APPROVED BY THE SECURITY CONSULTANT AND/OR OWNER PRIOR TO CONSTRUCTION.
11. ALL EXISTING LOW VOLTAGE TERMINATION DEVICES & CABLING SHALL BE REMOVED & DISCARDED FROM THIS FACILITY.
12. ALL DEVICES SHOWN ON THESE PLANS MUST BE COORDINATED AND APPROVED BY THE ARCHITECT. THE INSTALLATION CONTRACTOR SHALL DEPICT ALL DEVICES ONTO ELEVATION SUBMITTALS BEFORE INSTALLATION. ANY DEVICE THAT IS NOT APPROVED BY THE ARCHITECT PRIOR TO INSTALLATION MAY BE REQUIRED TO BE RELOCATED AS DIRECTED BY THE ARCHITECT AND CORRECTED BY THE CONTRACTOR WITH NO ADDITIONAL CHARGE TO THIS PROJECT.
13. ALL PATHWAYS, INCLUDING ALL WALL AND CEILING PENETRATIONS ARE REQUIRED TO INSTALL CABLING TO THE END DEVICE AND SHALL BE COORDINATED BETWEEN THE LOW VOLTAGE AND SECURITY CONTRACTOR AND THE ELECTRICAL CONTRACTOR AND SHALL BE INCLUDED AS PART OF THIS SECTION.
14. ALL CABLING SHALL BE LABELED AT BOTH ENDS.
15. SECURE ATTACHMENT OF TECHNOLOGY ITEMS:
    TO ENSURE PROPER ATTACHMENT OF FIXTURES, FURNISHINGS & EQUIPMENT ITEMS, INCLUDING AND TECHNOLOGY ITEMS, WHERE "ITEMS" ARE ATTACHED TO WALL, CEILING, OVERHEAD STRUCTURE, AND/OR FLOOR, CONTRACTOR SHALL PROVIDE INFORMATION ADEQUATE FOR ARCHITECT TO VERIFY ITEMS, ATTACHED TO WALL, CEILING, AND/OR FLOOR ARE ATTACHED SECURELY AND PER MANUFACTURER'S RECOMMENDATIONS. ARCHITECT'S REVIEW MAY BE IMPLEMENTED DURING SUBMITTAL PROCESS. CONTRACTOR SHALL PROVIDE STRUTS, HANGERS, FASTENERS, SAFETY HARNESSES, CHANNELS, BOLTS, SCREWS, RODS, ETC. TO SECURELY ATTACH ITEMS TO EXISTING STRUCTURE AS REQUIRED TO MEET FIELD CONDITIONS AND MEET APPLICABLE CODES.

KEY NOTES

NO.	DATE	ISSUE

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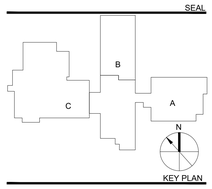
SEAL



KEY PLAN

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PROJECT TITLE:
RALPH M. T. JOHNSON ELEMENTARY SCHOOL ADDITIONS & RENOVATIONS
400 WHITTLESEY DR, BETHEL, CT 06801
STATE PROJECT No: 009-0059-RNV

PROJECT No: 68962

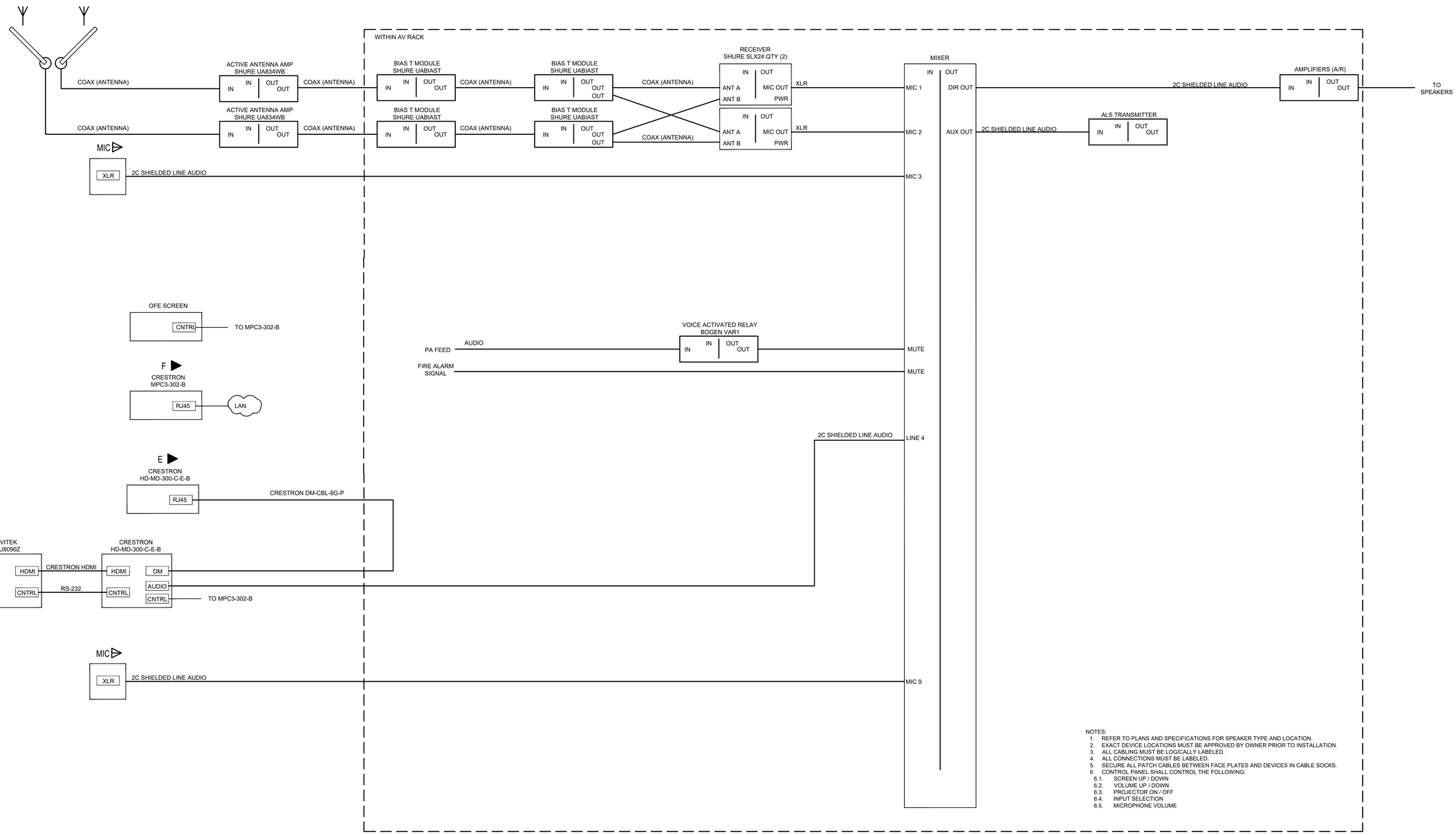
DRAWING TITLE:
TECHNOLOGY FFE

LEVEL 2, PART B PLAN
SCALE: 1/8" = 1'-0"

IT-102B

CONSTRUCTION DOCUMENTS

AUGUST 19, 2019



NOTES:
1. REFER TO PLANS AND SPECIFICATIONS FOR SPEAKER TYPE AND LOCATION.
2. EXACT DEVICE LOCATIONS MUST BE APPROVED BY OWNER PRIOR TO INSTALLATION.
3. ALL CABLING MUST BE LOGICALLY LABELED.
4. ALL CONNECTIONS MUST BE LABELED.
5. SECURE ALL PATCH CABLES BETWEEN FACE PLATES AND DEVICES IN CABLE SOCKS.
6. CONTROL PANEL SHALL CONTROL THE FOLLOWING:
   - 6.1. SCREEN UP / DOWN
   - 6.2. VOLUME UP / DOWN
   - 6.3. PROJECTOR ON / OFF
   - 6.4. INPUT SELECTION
   - 6.5. MICROPHONE VOLUME

NO.	DATE	ISSUE

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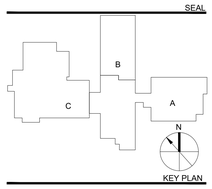

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PROJECT TITLE:
RALPH M. T. JOHNSON ELEMENTARY SCHOOL ADDITIONS & RENOVATIONS
400 WHITTLESEY DR, BETHEL, CT 06801
STATE PROJECT No: 009-0059-RNV

PROJECT No: 68962

DRAWING TITLE:
AUDIO VISUAL

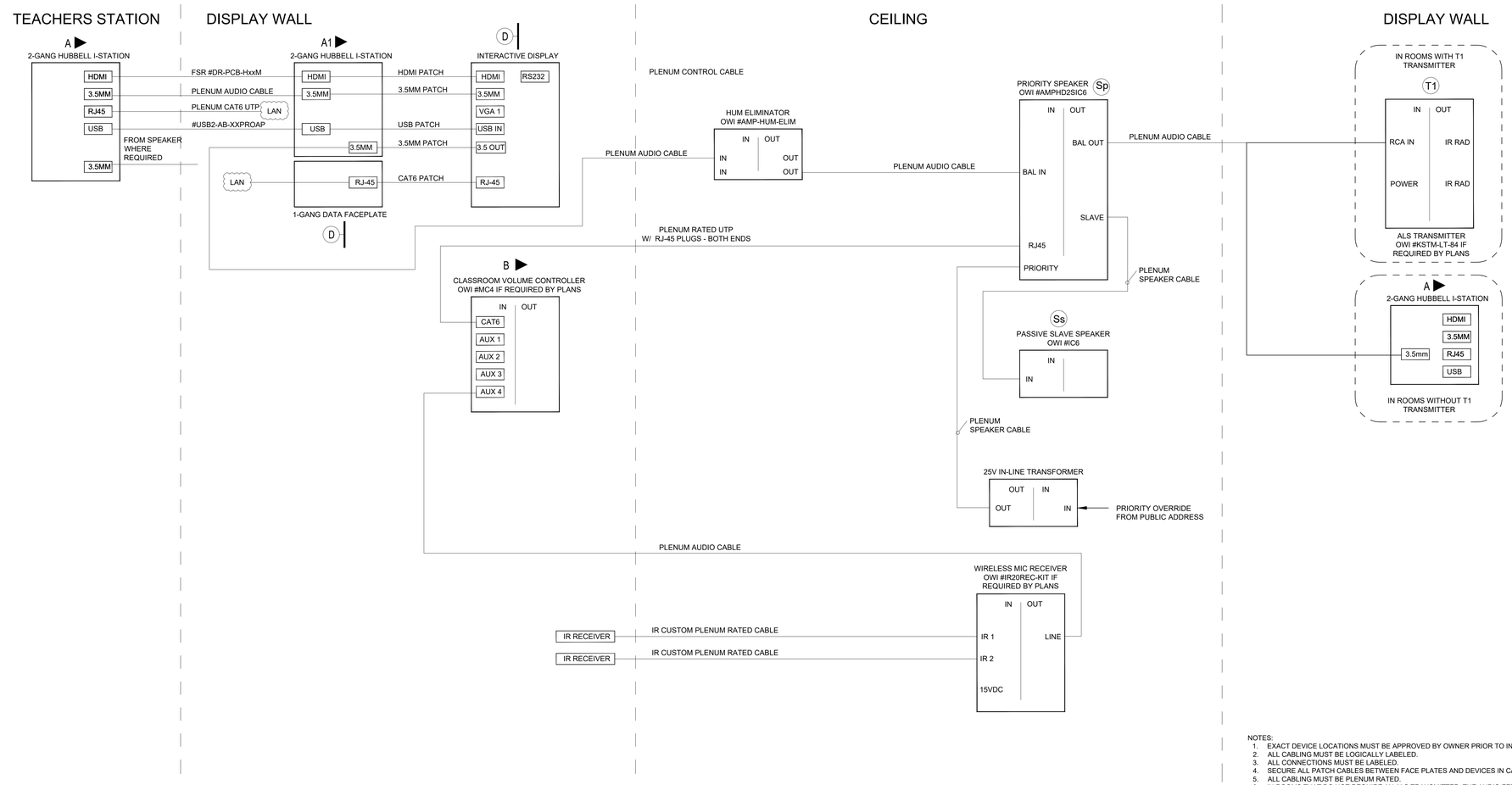
WIRING DIAGRAMS

SCALE: AS NOTED

IT-300

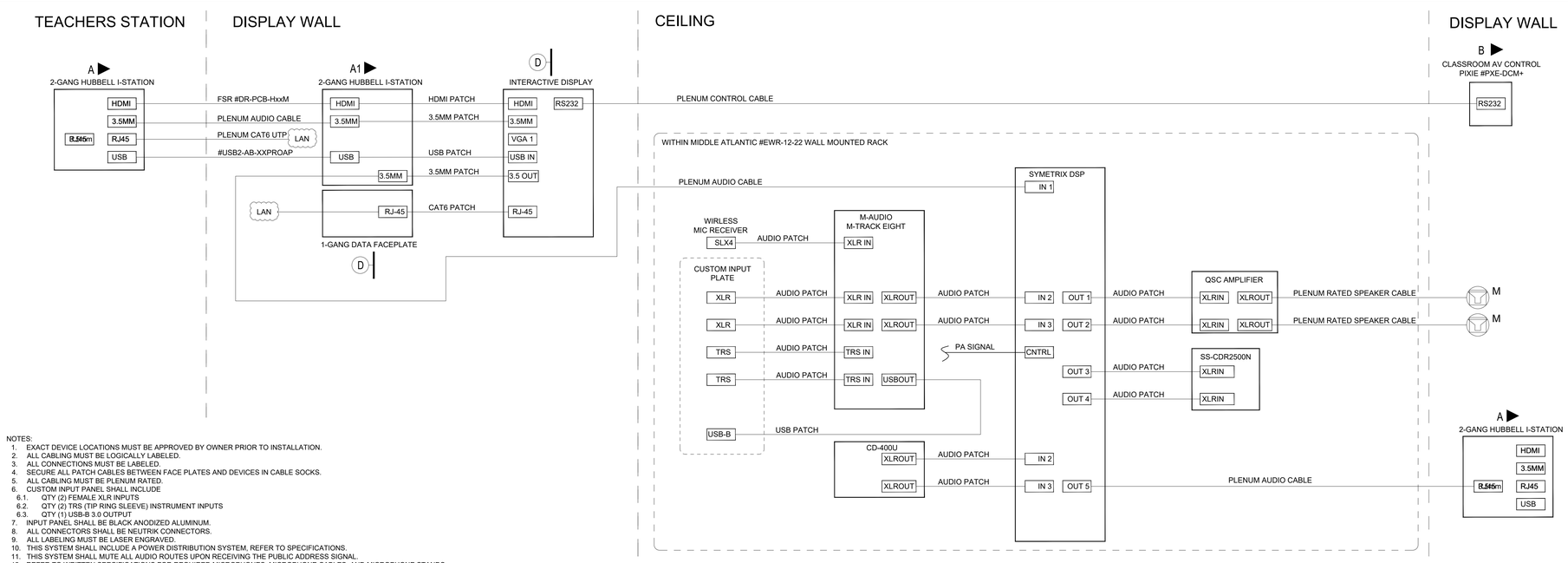
CONSTRUCTION DOCUMENTS

AUGUST 19, 2019



NOTES:
1. EXACT DEVICE LOCATIONS MUST BE APPROVED BY OWNER PRIOR TO INSTALLATION.
2. ALL CABLING MUST BE LOGICALLY LABELED.
3. ALL CONNECTIONS MUST BE LABELED.
4. SECURE ALL PATCH CABLES BETWEEN FACE PLATES AND DEVICES IN CABLE SOCKS.
5. ALL CABLING MUST BE PLENUM RATED.
6. IN ROOMS THAT DO NOT REQUIRE AN ALS TRANSMITTER, THE AUDIO FEED SHALL EXTEND TO THE "A" PLATE AT THE TEACHER'S STATION FROM THE AMPLIFIED SPEAKER.

WIRING DIAGRAM -CLASSROOM PROJECTOR AND SPEAKERS | NONE | 01



NOTES:
1. EXACT DEVICE LOCATIONS MUST BE APPROVED BY OWNER PRIOR TO INSTALLATION.
2. ALL CABLING MUST BE LOGICALLY LABELED.
3. ALL CONNECTIONS MUST BE LABELED.
4. SECURE ALL PATCH CABLES BETWEEN FACE PLATES AND DEVICES IN CABLE SOCKS.
5. ALL CABLING MUST BE PLENUM RATED.
6. CUSTOM INPUT PANEL SHALL INCLUDE
   6.1. QTY (2) FEMALE XLR INPUTS
   6.2. QTY (2) TRS (TIP RING SLEEVE) INSTRUMENT INPUTS
   6.3. QTY (1) USB-B 3.0 OUTPUT
7. INPUT PANEL SHALL BE BLACK ANODIZED ALUMINUM.
8. ALL CONNECTORS SHALL BE NEUTRIK CONNECTORS.
9. ALL LABELING MUST BE LASER ENGRAVED.
10. THIS SYSTEM SHALL INCLUDE A POWER DISTRIBUTION SYSTEM, REFER TO SPECIFICATIONS.
11. THIS SYSTEM SHALL MUTE ALL AUDIO ROUTES UPON RECEIVING THE PUBLIC ADDRESS SIGNAL.
12. REFER TO WRITTEN SPECIFICATIONS FOR REQUIRED MICROPHONES, MICROPHONE CABLES, AND MICROPHONE STANDS.

WIRING DIAGRAM -CLASSROOM PROJECTOR AND SPEAKERS MUSIC #132 & ENSEMBLE ROOM #133 | NONE | 02

NO.	DATE	ISSUE

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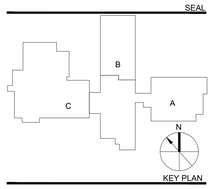

KEY PLAN

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PROJECT TITLE:
RALPH M. T. JOHNSON ELEMENTARY SCHOOL ADDITIONS & RENOVATIONS
400 WHITTLESEY DR, BETHEL, CT 06801
STATE PROJECT No: 009-0059-RNV

PROJECT No: 68962

DRAWING TITLE:
TECHNOLOGY FFE

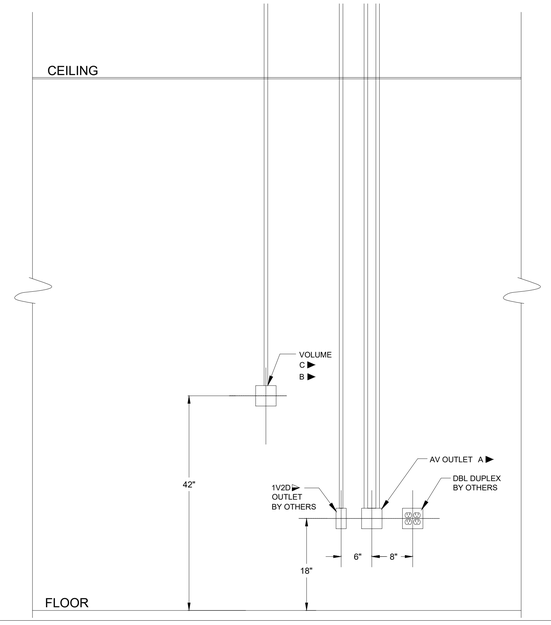
AV DETAILS

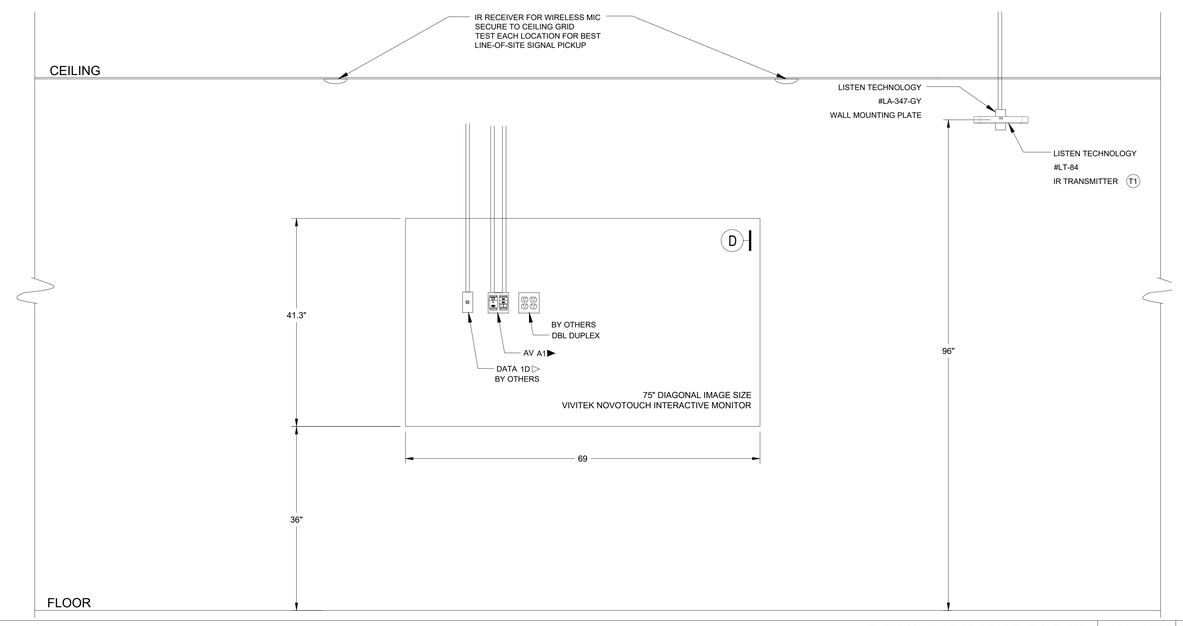
SCALE:

IT-301

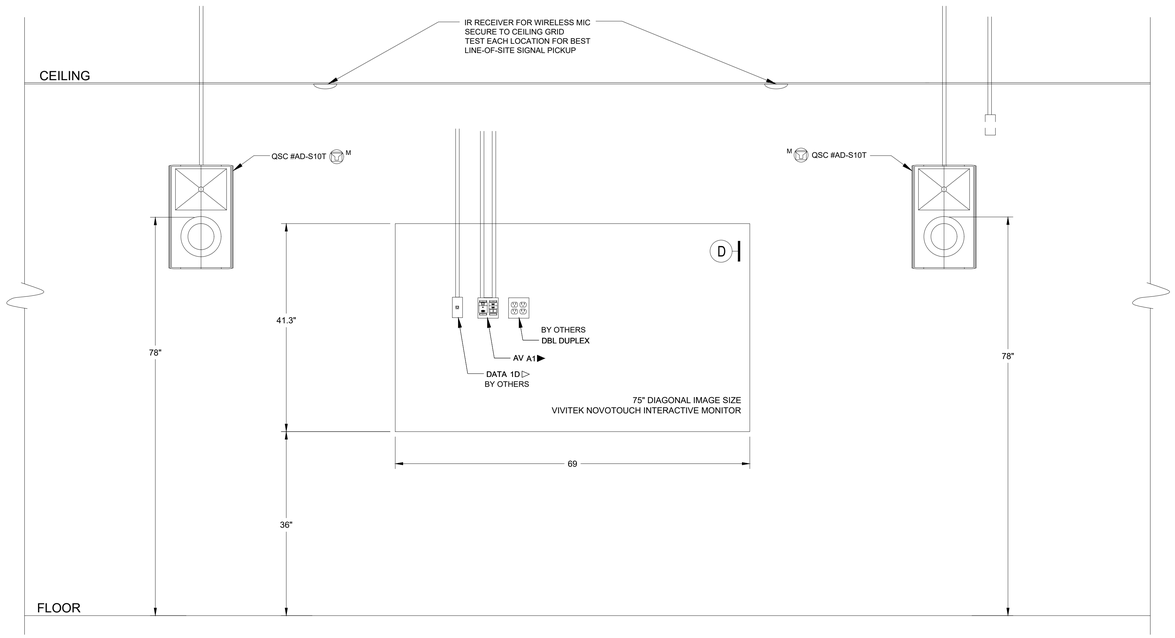
CONSTRUCTION DOCUMENTS

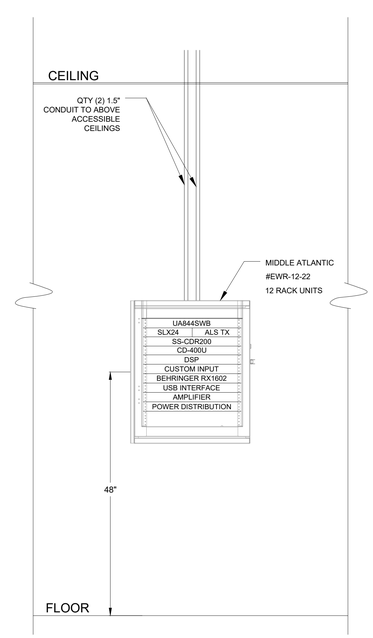
AUGUST 19, 2019





TYPICAL CLASSROOM ELEVATION | 1" = 1'-0" | 01





WALL MOUNT SPEAKER CLASSROOM ELEVATION - PARTIAL | 1" = 1'-0" | 02

NO.	DATE	ISSUE

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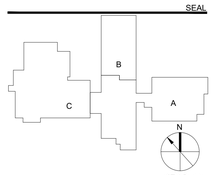

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400 WHITTLESEY DR, BETHEL, CT 06801
STATE PROJECT No: 009-0059-RNV

PROJECT No: 68962

DRAWING TITLE:
TECHNOLOGY FFE

AV ELEVATIONS

SCALE:

IT-302

CONSTRUCTION DOCUMENTS

AUGUST 19, 2019