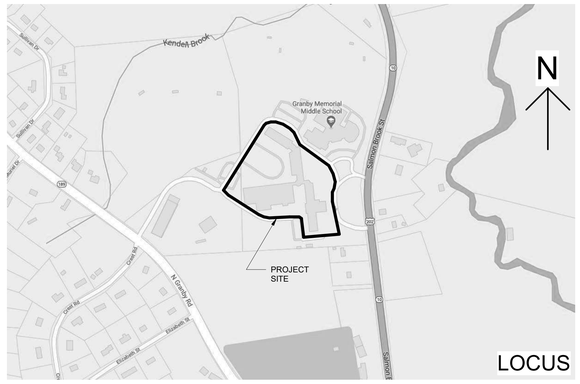
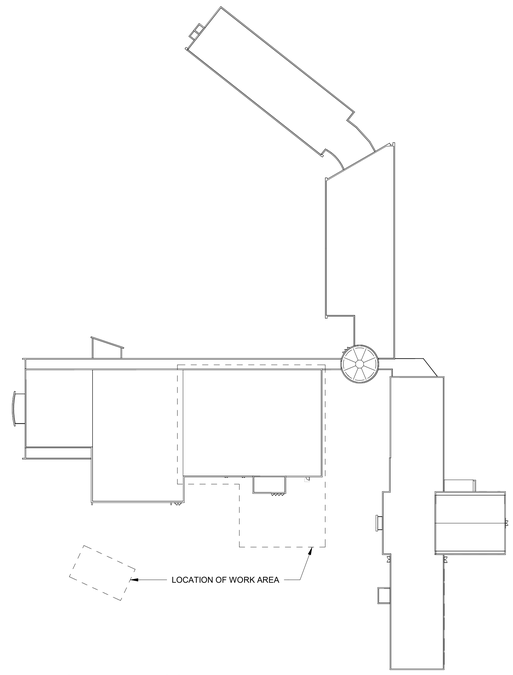
GRANBY MEMORIAL HIGH SCHOOL RENOVATIONS

315 SALMON BROOK STREET, GRANBY, CT 06035

DRA PROJECT NO. 20210.00

STATE PROJECT NO. 056-0052 A





1 OVERALL FLOOR PLAN
1/64" = 1'-0"

DRAWING LIST

COVER SHEET

ARCHITECTURAL

A001	CODE REFERENCE
A002	GENERAL DETAILS & PARTITION TYPES
A003	CONSTRUCTION PHASING PLAN
AD101	DEMOLITION FLOOR PLAN
A100	OVERALL FLOOR PLAN
A111	ENLARGED FLOOR PLAN CULINARY / VOC TECH
A112	ENLARGED FLOOR PLAN KITCHEN
A113	ENLARGED FLOOR PLAN MUSIC
A114	ENLARGED FLOOR PLAN CAFETERIA
A115	SECOND, THIRD & ROOF PARTIAL FLOOR PLANS
A201	BUILDING SECTIONS
A301	WALL SECTIONS
A302	WALL SECTIONS & DETAILS
A401	INTERIOR ELEVATIONS
A501	ENLARGED TOILET PLAN & PLAN DETAILS
A701	DOOR SCHEDULE & DETAILS
A801	REFLECTED CEILING PLAN
AF101	FLOOR FINISHES PLAN
AF102	WALL FINISHES PLAN
AF103	FINISH DETAILS

FOODSERVICE

FS100	FOODSERVICE EQUIPMENT SCHEDULE
FS101	FOODSERVICE EQUIPMENT PLAN
FS111	FOODSERVICE EQUIPMENT ROUGH-IN PLAN
FS121	FOODSERVICE EQUIPMENT VENTILATION ROUGH-IN PLAN
FS131	FOODSERVICE EQUIPMENT SPECIAL CONDITIONS PLAN
FS201	FOODSERVICE EQUIPMENT ELEVATIONS
FS301	FOODSERVICE EQUIPMENT DETAILS

FIRE PROTECTION

FP000	FIRE PROTECTION ABBREVIATIONS, NOTES AND SYMBOLS
FPD101	FIRE PROTECTION FIRST FLOOR DEMOLITION PLAN
FP101	FIRE PROTECTION FIRST FLOOR PLAN
FP500	FIRE PROTECTION DETAILS

PLUMBING

P000	PLUMBING ABBREVIATIONS, NOTES AND SYMBOLS
PD100	PLUMBING UNDERGROUND DEMOLITION PLAN
PD101	PLUMBING FIRST FLOOR DEMOLITION PLAN
P100	PLUMBING UNDERGROUND FLOOR PLAN
P101	PLUMBING FIRST FLOOR PLAN
P102	PLUMBING FLOOR PLANS
P201	PLUMBING FIRST FLOOR KITCHEN PLAN
P202	PLUMBING FIRST FLOOR CULINARY ARTS PLAN
P500	PLUMBING DETAILS
P600	PLUMBING SCHEDULES AND DIAGRAMS
PS100	PLUMBING SITE UTILITY PLAN

MECHANICAL

M000	MECHANICAL ABBREVIATIONS, NOTES AND SYMBOLS
MD101	MECHANICAL FIRST FLOOR DEMOLITION PLAN
M101	MECHANICAL FIRST FLOOR PLAN
M102	MECHANICAL SECOND/THIRD FLOOR PLAN
M103	ROOF PLAN
M500	MECHANICAL DETAILS
M600	MECHANICAL SCHEDULES
M700	MECHANICAL CONTROL DIAGRAMS

ELECTRICAL

E000	ELECTRICAL ABBREVIATIONS, NOTES AND SYMBOLS
E001	ELECTRICAL ABBREVIATIONS, NOTES AND SYMBOLS
ED101	ELECTRICAL FIRST FLOOR DEMOLITION PLAN
EL101	ELECTRICAL LIGHTING FIRST FLOOR PLAN
EP101	ELECTRICAL POWER FIRST FLOOR PLAN
EP104	ELECTRICAL POWER ROOF PLAN
E201	ELECTRICAL KITCHEN PLAN
E202	ELECTRICAL KITCHEN SCHEDULE
E500	ELECTRICAL DETAILS
E501	ELECTRICAL DETAILS
E502	ELECTRICAL DETAILS
E600	ELECTRICAL SCHEDULES AND DIAGRAMS

A	acre
AC	air conditioning
ACOUST	acoustical
ACM	aluminum composite material / panel system
ACT	acoustic ceiling tile / actual
AD	area drain
ADD	addition / addendum
ADJ	adjustable / adjust / adjacent
AED	automatic external defribillator
AESS	architectural(ly) exposed structural steel
AFF	above finish floor
AGGR	aggregate
AHU	air handling unit
AL	align
ALT	alternate
ALUM	aluminum
ANOD	anodized
ANNO	annotate
AP	access panel
APPROX	approximate
ARCH	architectural / architect
AS REQ	as required
ASI	architect's supplemental information
AVB	air / vapor barrier
AUX	auxiliary
AVG	average
&	and
∠	angle
@	at
BC	brick course
BD	board
BG	below ground
BIM	building information modeling
BK	back
BL	building line
BLDG	building
BLK	block / black
BLKG	blocking
BLR	boiler
BM	beam / bench mark
B.O.	bottom of
BOD	bottom of deck
B/O D	bottom of deck
BOF	bottom of footing
BOW	bottom of wall
BR	brick
BS	brick shelf
BT	bottom
BTU	british thermal unit
BOW	bottom of wall
CAB	cabinet
CAM	camera
CB	catch basin / chaulk board
CCD	construction change directive
CEM	cement
CEJ	ceiling expansion joint
CHPS	collaboration for high performance schools
CJ	control joint
C.L.	centerline
CLG	ceiling
CLKG	caulking
CLOS	closet
CLR	clear
CM / CMAR	construction manager
CMT	ceramic mosaic tile
CMU	concrete masonry unit
COL	column
COP	copper
COMP	compressible
CONC	concrete
CONST	construction
CONT	continuous
CONTR	contractor
CORR	corridor
CPT	carpet
CR	classroom
CRS	course
CTB	ceramic tile base
CTR	center
CUH	cabinet unit heater
CT	connecticut
CW	cold water
CY	cubic yard
C	centerline
{	channel
D	deep / depth
DBL	double
DEG	degree
DEMO	demolish / demolition
DEPT	department
DET	detail
DF	drinking fountain
DIA	diameter
DIFF	diffuser
DIM	dimension
DISP	dispenser
DIV	division
DO	ditto
DN	down
DPFG	dampproofing
DR	door
DRW	drawer
DS	downspout
DWG	drawing
DIA	diameter
E	east
EA	each
EC	electrical contractor
EF	epoxy flooring
EFB	epoxy base
EJ	expansion joint
EL	elevation
ELEC	electrical
ELEV	elevation / elevator
EMER	emergency
ENCL	enclosure
ENT(R)	entrance
EOS	edge of slab
EP	electrical panel / Epoxy Paint
EPS	expanded polystyrene
EPDM	ethylene propylene diene monomer
EPOX	epoxy
EQ	equal
EQUIP	equipment
ETR	existing to remain
EWC	electrical water cooler
EXCAV	excavate / excavation
EX / EXIST	existing
EXP	expansion
EXT	extruded / exterior
F / FL	flush
FA / F/A	fire alarm
FAB	fabricate
FB	flat bar
FD	floor drain
FE	fire extinguisher
FEC	fire extinguisher cabinet
FEJ	floor expansion joint
F	finish floor / floor to floor
FH	fire hydrant
FIN	finish
FIN GR	finish grade
FIX	fixative / fixed
FL	floor
FLSHG	flashing
FLEX	flexible
FLOUR	flourescent
FNDT	foundation
FOW	face of finished wall
FR	from
FRFP	fireproofing
FRP	fiberglass reinforced panel
FRT	fire retardant / treated
FT	foot / feet
FTG	footing
FTR	fin tube radiation
FS	food service
FSB	filed sub bid(der)
FURN	furniture
FURR	furring
FUT	future
FWAP	fabric wrapped acoustical panel
G / GA	gauge
GAL	gallon
GALV	galvanized
GC	general contractor
GEN	general
GFRP	glass fiber reinforced polymer / panel
GL	glazed
GND	ground
GWB	gypsum wall board
GYP	gypsum / gypsum wall board
H	high / height
HC	hollow core
HDW	hardware
HDWD	hardwood
HM	hollow metal
HORIZ	horizontal
HI	high
HP	high point
HR	hour
HT	height
HVAC	heating ventilation and air conditioning
HW	hot water
ICBP	insulated composite backup panel
ID	inside diameter
IN	inch(es)
INCL	include / inclusive
INSUL	insulated
INT	interior
INV	inverse
INVT	invert
JAN	janitor
JC	janitor closet
JT	joint
KD	knock down
KEC	kitchen equipment contractor
KIT	kitchen
KW	kilowatt
L	left / length / long
L	acoustical sheet linoleum
LAM	laminated
LAV	lavatory
LB / #	pound(s)
LD	load
LEED	leadership in energy and environmental design
LF	linear foot
LGMF	light gauge metal framing
LH	left hand
LHR	left hand reverse
LIN	sheet linoleum
LP	low point
LT	light
LTG	lighting
LV / LVL	level
LW	light weight
MATL	material
MAX	maximum
MB	marker board
MDO	medium density overlay
MDF	medium density fiberboard
MDF	main distribution frame
MECH	mechanical
MEMB	membrane
MFR	manufacturer
MFG'R	manufacturer
MIN	minimum
MISC	miscellaneous
MO	masonry opening
MR	moisture resistant
MSBA	massachusetts school building authority
MTD	mounted
MTG	mounting / meeting
MTL	metal
MUL	mullion
N	north
N/A	not applicable
NAT	natural
NIC	not in contract
NO / #	number
NOM	nominal
NRC	noise reduction coefficient
NTS	not to scale
OA	overall / outside air
OC	on center
OD	outside diameter / dimension
OH	overhead
OPER	operable
OPNG	opening
OPP	opposite
OZ	ounce
PAR	parallel
PERF	perforated
PERP	perpendicular
POL	polished
POLY ISO	poly isocyanurate
PC	precast concrete
PCO	proposed change order
PE	professional engineer
PG	paint grade
PL	plate / property line
PLBG	plumbing
PLUMB	plumbing
PLAM	plastic laminate
PLAS	plaster
PNL	panel / paneling
PP	porcelain paver
PPB	porcelain base
PR	pair
PR	Proposal Request
PRCST	precast / precast concrete
PRFB	prefabricated
PRTBD	particle board
PSI	pounds per square inch
PT	pressure-treated / paint
PT-	paint color
PTD	painted
PTN	partition
PLYWD	plywood
PVC	poly vinyl chloride
QA	quality assurance
QC	quality control
QZ	quartz
QT	quarry tile
QUAL	quality
QUAN/QTY	quantity
r / RAD	radius
RAF	resilient athletic flooring
R	riser height
RB	resilient base
RCP	reflected ceiling plan
RCPT	receptacle
RD	roof drain
REC	recessed
RECT	rectangle
REF	reference
REFL	reflected
REFR	refrigerator
REINF	reinforced
REQ'D	required
RESIL	resilient
REV	revise / reverse
RFI	request for information
RH	right hand
RL	rain leader
RLG	railing
RO	rough opening
RT	rubber tile / rubber tread / right
S	south
C	solid core
SECT	section
SEG	segment
SF	square foot / square feet
SH	shelf
SHT	sheet
SHR	shower
SI / SQ IN	square inch
SIM	similar
SPEC	specification(s)
SQ	square
SS / S/S	stainless steel
STC	sound transmission class
STOR	storage
STD	standard
STL	steel
STR	structure
STRUCT	structural
SUB	sub contractor
SUB BID	filed sub-bid(der)
SUPT	superintendent
SUSP	suspended
SYN	synthetic
SYST	system
T / TR	tread
TB	tack board
TC	top of curb
TEL	telephone
TEMP	temperature / temporary
T&G	tongue & groove
THK	thick
THR	threshold
TM	team
T.O.	top of
T/O TO	top of
TOB	top of blocking
TOC	top of concrete
TOF	top of foundation
TOIL / TLT	toilet
TOS	top of steel
TPO	thermoplastic polyolefin
TRK	track
T/STL / TOS	top of steel
TS	tube steel
TV	television
T/W / TOW	top of wall
TYP	typical
TZ	terrazzo
UC	undercut
UG	under ground
UL	underwriters laboratory
UNO	unless noted otherwise
UR	urinal
UV	unit ventilator / ultraviolet
VAF	vinyl athletic flooring
VB	vapor barrier
VB	vinyl base
VAT	vinyl asbestos tile
VCT	vinyl composition tile
VERT	vertical
VEST	vestibule
VIF	verify in field
VRB	vented rubber base
VTR	vent through roof
VWC	vinyl wall covering
VWCG	vinyl wall covering graphic
W	wide / width / west
W/	with
WAF	wood athletic flooring
WB	wood base
WC	water closet
WD	wood
WEJ	wall expansion joint
WF	wide flange
WFP	wood fiber panel(s)
WH	water heater
W/O	without
WOC	walk off carpet
WP	working point
WPFG	water proofing
WT	weight
YD	yard
YR	year
YS	yield strength
XBAR	crossbarr
XH	extra heavy
XL	extra large
Z	modulus of section / zee
ZN	zinc

BID SET

JANUARY 7, 2022

DRA

ARCHITECT
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BUILDING CODE REVIEW - INTERNATIONAL BUILDING CODE 2015

BUILDING AND SITE CHARACTERISTICS

PRIMARY OCCUPANCY:	E
SECONDARY OCCUPANCY:	A
CONSTRUCTION TYPE:	IIB
HEIGHT (FEET):	42
HEIGHT (# OF FLOORS):	3
BUILDING AREA (SQUARE FEET)	191,400

USE GROUP CLASSIFICATION
USE GROUP E (EDUCATIONAL)
USE GROUP A (ASSEMBLY)

MAXIMUM FLOOR AREA ALLOWANCES PER OCCUPANT (TABLE 1004.1.1)

EDUCATIONAL - CLASSROOMS	20 GSF / OCCUPANT
EDUCATIONAL - SHOP/VOCATIONAL	50 GSF / OCCUPANT
STORAGE/MECHANICAL	300 GSF / OCCUPANT
ASSEMBLY - UNCONCENTRATED	15 GSF / OCCUPANT

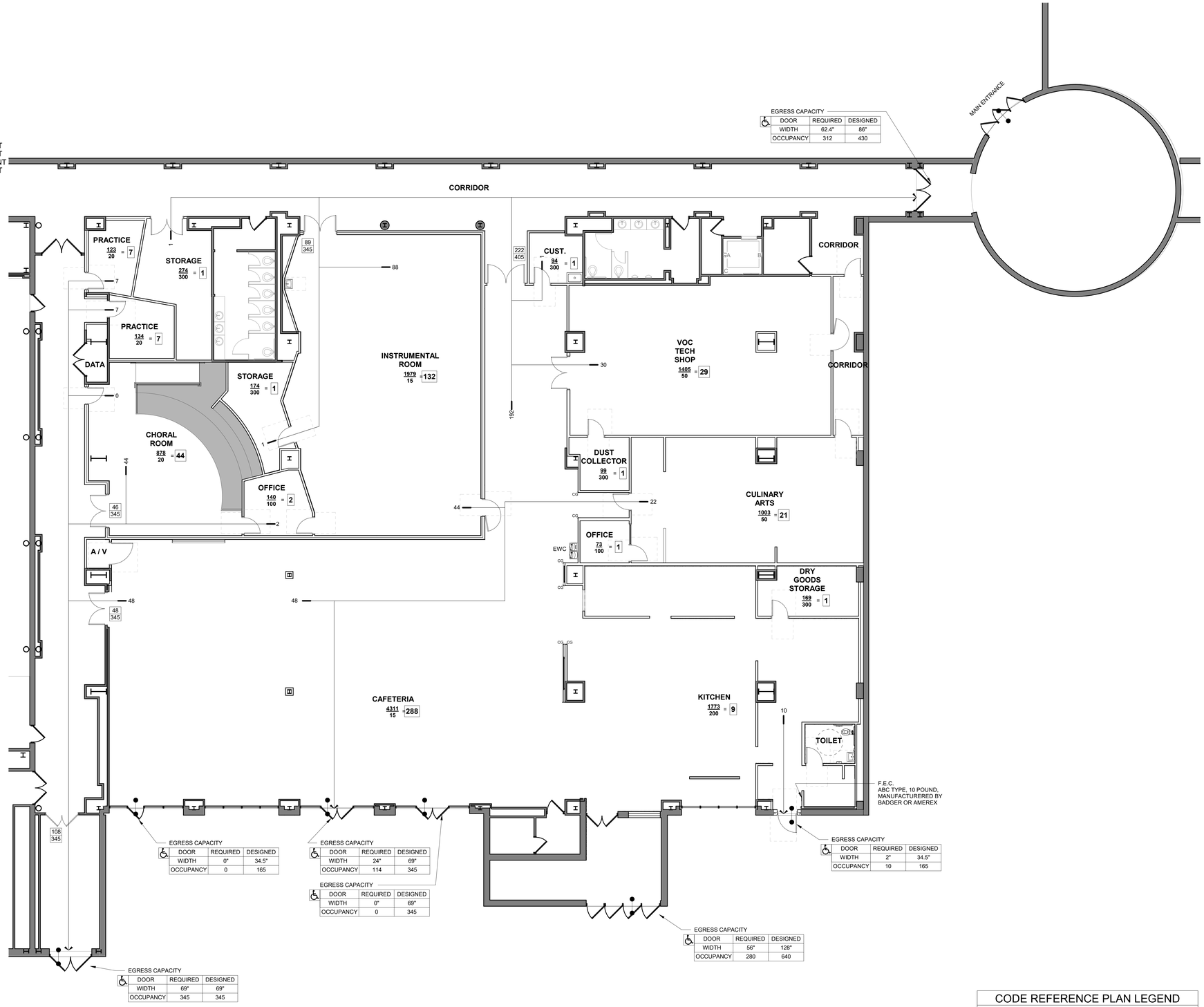
BUILDING CODE SCOPE OF WORK IS LIMITED TO THOSE ITEM SHOWN ON THESE DRAWINGS AREA OF WORK: 19,027 S.F.

CURRENT USE OF SPACE: CAFETERIA, CULINARY, VOC TECH, MUSIC WITH OCCUPANT LOAD OF: 655
PROPOSED USE OF SPACE: CAFETERIA, VOC TECH, MUSIC WITH OCCUPANT LOAD OF: 543

BUILDING IS FULLY FIRE SPRINKLERED

16. BUILDING AREAS FOR GRANT CALCULATIONS (ENTIRE FACILITY)

EXISTING CONSTRUCTION PRIOR TO THIS PROJECT	191,400 S.F.
EXISTING BEING DEMOLISHED AND REMOVED	0 S.F.
TOTAL NEW CONSTRUCTION FOR THIS PROJECT	0 S.F.
TOTAL BUILDING AREA	191,400 S.F.
OPEN AREAS	N/A
TOTAL CONSTRUCTED BUILDING AREA (TO EXTERIOR FACE OF EXTERIOR WALL AKA "CONTRACTOR BUILDING AREA")	215,000 S.F.



5 PARTIAL FIRST FLOOR PLAN
1/8" = 1'-0"

CODE REFERENCE PLAN LEGEND

101B	ROOM NUMBER
696/20 = 34.8P	ROOM OCCUPANCY LOAD — AREA IN SQUARE FEET; OCCUPANCY LOAD FACTOR
1/165	EXIT CAPACITY — ACTUAL EGRESS OCCUPANCY OF DOOR OR STAIR; MAXIMUM ALLOWABLE EGRESS OCCUPANCY OF DOOR OR STAIR
225	DIRECTION OF TRAVEL — WITH ACCUMULATED OCCUPANCY LOAD
	ACCESSIBLE AREA OR EXIT
	FLUSH CONDITION TO COMPLY WITH ADA 1/2" MAX. DIFFERENCE BETWEEN ADJOINING SURFACES
	1 HOUR FIRE RATED WALL — EQUIVALENT TO U.L. DESIGN NO. U415

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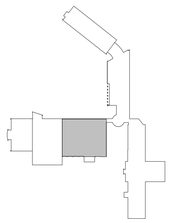
Planning Architecture Interior Design

GRANBY MEMORIAL HIGH SCHOOL

GRANBY, CT

SCHOOL RENOVATIONS



KEY PLAN

STATE PROJECT NO: 056-0052 A

BID SET

1/7/2022

ACTUAL NORTH

CODE REFERENCE

Scale: AS NOTED
Job No.: 20210.00
Drawn By: DRA
Date: 1/7/2022

A001

SYMBOLS LEGEND

MECHANICAL

- A119 — ROOM TAG
- A102 — DOOR TAG
- W4 — WINDOW TAG
- G6.0 — WALL TAG
- XX — SILL, LINTEL & COPING TYPE TAG
- X — WORK SCOPE TAG
- XX — EQUIPMENT TAG
- 1 A2.01 — ELEVATION TAG
- 1 A2.01 — INTERIOR ELEVATION TAG
- 1 A2.01 — BUILDING SECTION
- 1 A2.01 — WALL SECTION
- 1 A2.01 — DETAIL TAG
- 1 — REVISION TAG
- 1 A — COLUMN GRID LIINES
- REFERENCE POINT
- ACCESSIBLE SPACE/ITEM
- ACCESSIBLE EXIT/ENTRANCE

GENERAL NOTES – PARTITION TYPES:

1. RATED WALLS WITH UL DESIGN NUMBERS HAVE ADDITIONAL COMPONENTS AND REQUIREMENTS AS INDICATED THE U.L. DIRECTORY AND IN THE SPECIFICATIONS. PARTITION TYPE DETAILS SHOW ONLY PRINCIPLE COMPONENTS AND REQUIREMENTS

2. RATED PARTITIONS SHALL HAVE U.L. HEAD DESIGNS, SEALANT AND FILL MATERIAL OF THE SAME RATING.

3. FINISHES APPLIED TO PARTITIONS ARE INDICATED IN THE ROOM FINISH SCHEDULE, INTERIOR ELEVATIONS, WALL FINISHES PLANS, AND ELSEWHERE.

4. RATED AND UNRATED GWB PARTITIONS SHALL CLOSE TO UNDERSIDE OF DECK AT ROOF.

5. ALL MATERIALS AND COMPONENTS SHOWN IN PARTITION DETAILS AND/OR INDICATED IN SCHEDULE ARE CONTINUOUS UNLESS INDICATED AS DISCONTINUOUS AND OCCUR ON TWO SIDES OF THE PARTITION UNLESS INDICATED OTHERWISE.

6. SEE STRUCTURAL DRAWINGS FOR LOCATIONS OF BEARING PARTITIONS, SHEAR WALLS, AND OTHER MASONRY PARTITIONS AND WALLS WITH REINFORCING AND OTHER SPECIAL REQUIREMENTS.

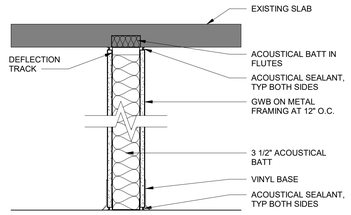
7. SEE SPECIFICATION AND STRUCTURAL DRAWINGS FOR REINFORCING DETAILS AND REQUIREMENTS.

8. STEEL STUD AND LGMF PARTITIONS SHALL INCLUDE FRAMING MEMBERS AT 16" O.C. MAXIMUM, RUNNERS AT HEAD AND FOOT, DEFLECTION HEADS AT EXTERIOR WALLS, DEFLECTION HEADS AT ROOF TERMINATIONS, FASTENERS, ANGLED BRACING, AND ALL OTHER FRAMING ACCESSORIES AS SHOWN, AND AS REQUIRED FOR STRUCTURALLY SOUIND CONSTRUCTION.

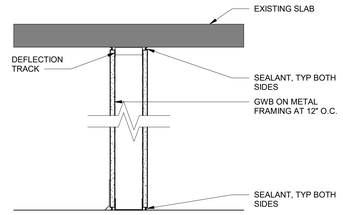
9. STUD SPACING SHALL BE ALSO COORDINATED WITH THE REQUIRMENTS FOR THE FINISH MATERIALS APPLIED TO THE WALL SURFACES.

10. WHERE UNRATED GYPSUM WALLBOARD PARTITIONS ARE USED FOR PLUMBING CHASES, DUCTWORK ENCLOSURES, ETC. GWB AND FINISH IS TO BE OMITTED ON UNEXPOSED SIDE.

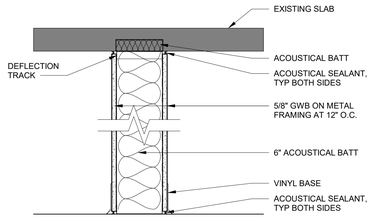
11. AT TOP OF ALL INTERIOR CMU PARTITION WALLS PROVIDE STEEL ANGLE RESTRAINTS AND ASSOCIATED STEEL CHANNELS. ALL ANGLES AND CHANNELS ARE TO BE FURNISHED AND INSTALLED BY METAL FABRICATIONS (SUB-BID CONTRACTOR). SEE STRUCTURAL DRAWINGS FOR SIZE AND DETAILS.



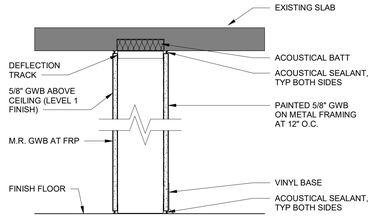
1 G4.0
1 1/2" = 1'-0"



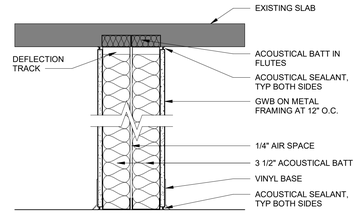
2 G4.0A
1 1/2" = 1'-0"



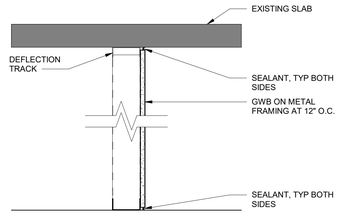
3 G6.0
1 1/2" = 1'-0"



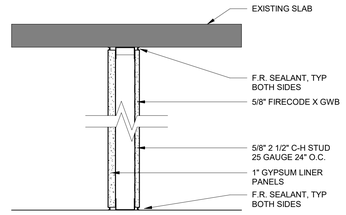
4 G6.0A
1 1/2" = 1'-0"



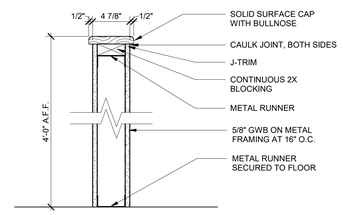
5 G7.0
1 1/2" = 1'-0"



7 F4.0, F4.0A, F6.0
1 1/2" = 1'-0"



6 S3.0
1 1/2" = 1'-0"



8 G4.0L
1 1/2" = 1'-0"

TYPICAL PARTITION TYPES

GWB PARTITIONS:

G4.0
UL DESIGN NA
NON-BEARING PARTITION
0-HOUR RATED
5/8" GWB ON
3 5/8" METAL STUDS WITH
3 1/2" ACOUSTICAL BATT
5/8" GWB
SEE DETAIL 1/A002

G4.0A
UL DESIGN NA
NON-BEARING PARTITION
0-HOUR RATED
5/8" M.R. GWB ON
3 5/8" METAL STUDS
5/8" GWB
SEE DETAIL 2/A002

G4.0L
UL DESIGN NA
NON-BEARING PARTITION
0-HOUR RATED
5/8" GWB ON
3 5/8" METAL STUDS WITH
3 1/2" ACOUSTICAL BATT
5/8" GWB
SEE DETAIL 8/A002

G6.0
UL DESIGN NA
NON-BEARING PARTITION
0-HOUR RATED
5/8" GWB ON
6" METAL STUDS WITH
6" ACOUSTICAL BATT
5/8" GWB
SEE DETAIL 3/A002

G6.0A
UL DESIGN NA
NON-BEARING PARTITION
0-HOUR RATED
5/8" M.R. GWB ON
6" METAL STUDS WITH
5/8" GWB
SEE DETAIL 4/A002

G7.0
UL DESIGN NA
NON-BEARING PARTITION
0-HOUR RATED
5/8" GWB ON
3 5/8" METAL STUDS WITH
3 1/2" ACOUSTICAL BATT
1/4" AIR SPACE
3 5/8" METAL STUDS WITH
3 1/2 ACOUSTICAL BAT
5/8" GWB
SEE DETAIL 5/A002

FURRING PARTITIONS:

F4.0
UL DESIGN NA
NON-BEARING PARTITION
0-HOUR RATED
5/8" GWB ON
3 5/8" METAL STUDS
SEE DETAIL 7/A002

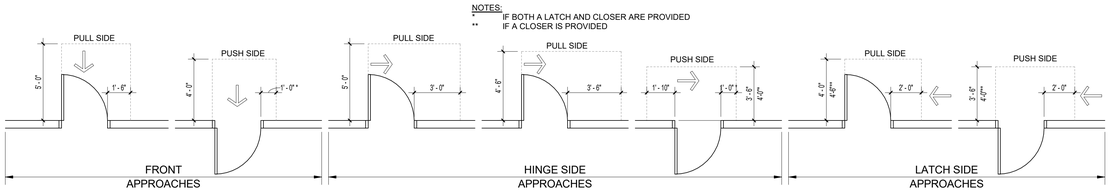
F4.0A
UL DESIGN NA
NON-BEARING PARTITION
0-HOUR RATED
5/8" M.R. GWB ON
3 5/8" METAL STUDS WITH
SEE DETAIL 7/A002

F6.0
UL DESIGN NA
NON-BEARING PARTITION
0-HOUR RATED
5/8" GWB ON
6" METAL STUDS
SEE DETAIL 7/A002

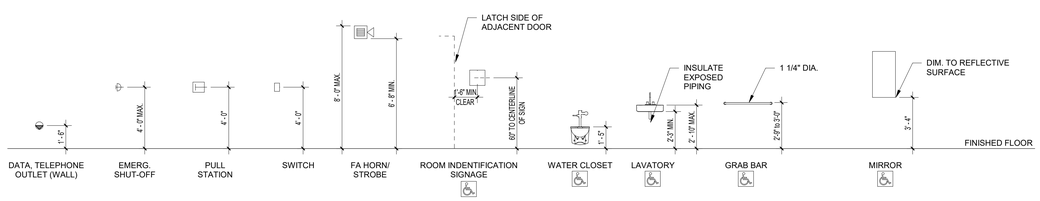
NOTE:
ALL METAL STUDS SHALL BE 12" O.C. UNLESS NOTED OTHERWISE.

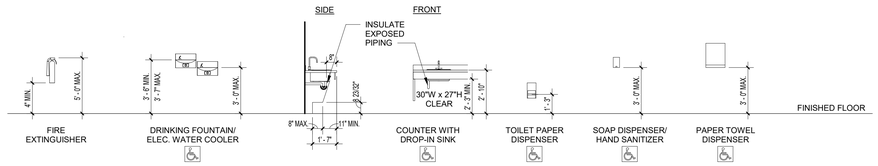
REFER TO FINISH PLANS FOR WALL FINISHES.

NOTES:
1 IF BOTH A LATCH AND CLOSER ARE PROVIDED
2 IF A CLOSER IS PROVIDED



DOOR CLEARANCES





MOUNTING HEIGHTS

HEIGHTS INDICATED HERE ARE TYPICAL UNLESS NOTED OTHERWISE IN SET

MATERIALS LEGEND

MASONRY:
- BRICK - CUT VIEW
- UTILITY BRICK - PROJECTED VIEW
- ECONO BRICK - PROJECTED VIEW
- CONCRETE MASONRY UNIT - CUT VIEW
- CONCRETE MASONRY UNIT - PROJECTED VIEW
- PRECAST CONCRETE

THERMAL & MOISTURE PROTECTION
- BATT INSULATION
- RIGID INSULATION

METALS:
- STEEL
- ALUMINUM

WOODS:
- WOOD - FINISHED
- WOOD BLOCKING - CONTINUOUS
- WOOD BLOCKING - INTERMITTENT
- PLYWOOD

FINISHES
- GYPSUM WALL BOARD
- ACOUSTIC CEILING TILE - CUT VIEW
- CERAMIC WALL TILE

MISCELLANEOUS
- CONCRETE
- GROUT
- CRUSHED STONE / GRAVEL
- EARTH
- SAND

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Planning Architecture Interior Design

GRANBY MEMORIAL HIGH SCHOOL

GRANBY, CT

SCHOOL RENOVATIONS

STATE PROJECT NO:
056-0052 A

BID SET

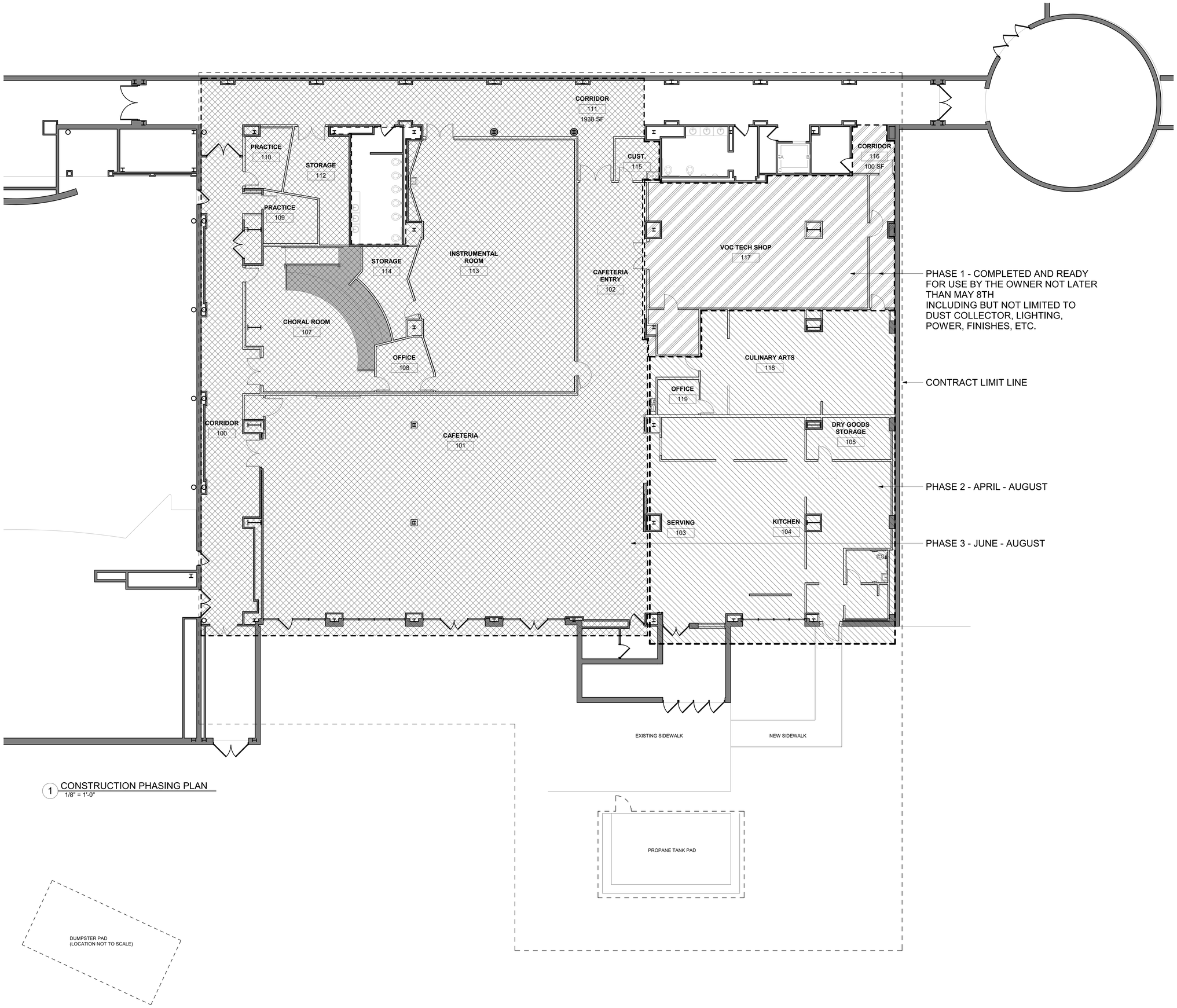
1/7/2022

STATE OF CONNECTICUT JAMES A. BARRETT NO. 10498 LICENSED ARCHITECT

GENERAL DETAILS & PARTITION TYPES

Scale: AS NOTED
Job No.: 20210.00
Drawn By: DRA
Date: 1/7/2022

A002



1 CONSTRUCTION PHASING PLAN
1/8" = 1'-0"

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GRANBY MEMORIAL HIGH SCHOOL

GRANBY, CT

SCHOOL RENOVATIONS

STATE PROJECT NO:
056-0052 A

BID SET

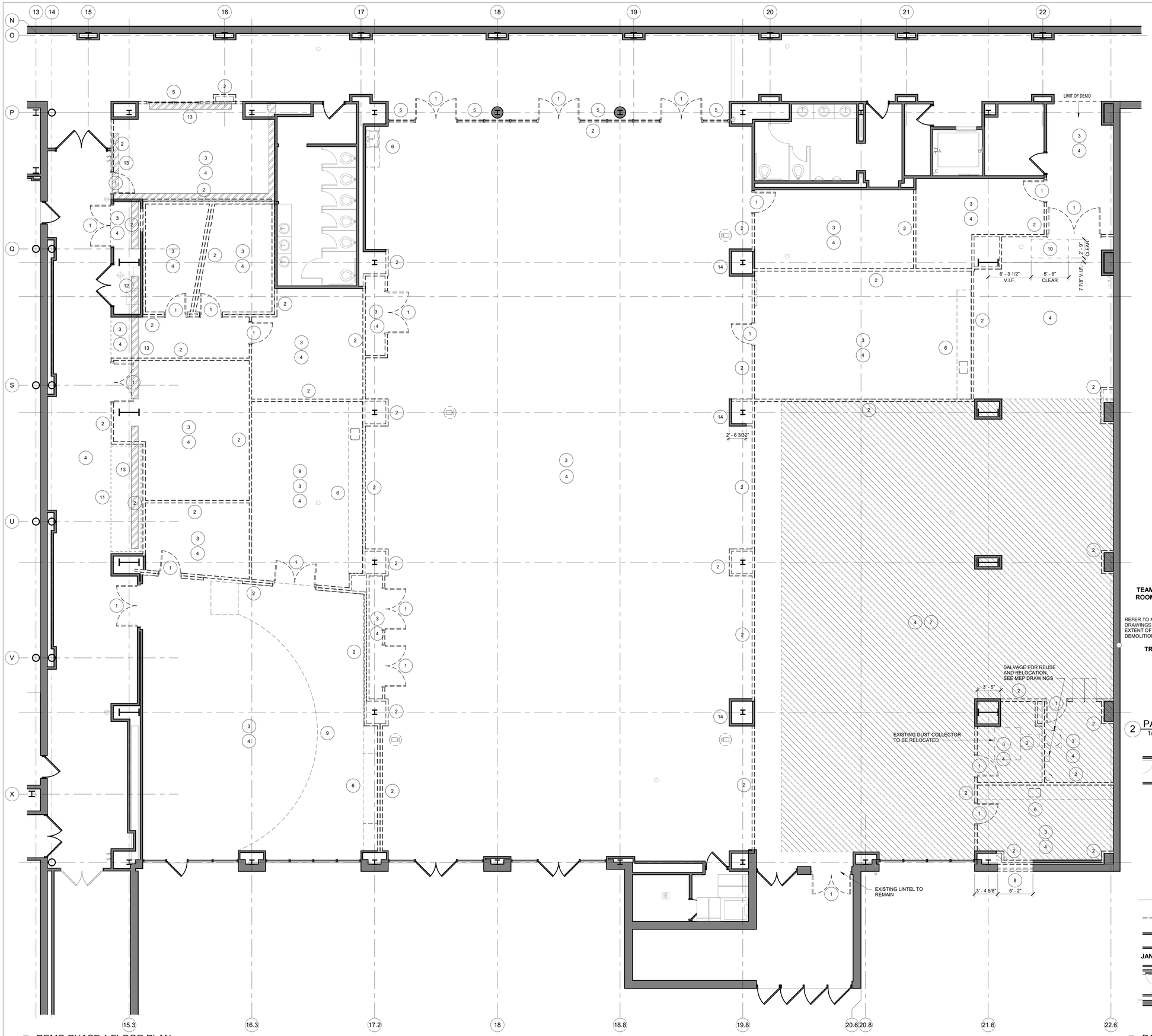
1/7/2022

STATE OF CONNECTICUT
JAMES A. BARRETT
NO. 10490
LICENSED ARCHITECT

CONSTRUCTION PHASING PLAN

Scale: AS NOTED
Job No.: 20210.00
Drawn By: DRA
Date: 1/7/2022

A003



1 DEMO PHASE 1 FLOOR PLAN
3/16" = 1'-0"

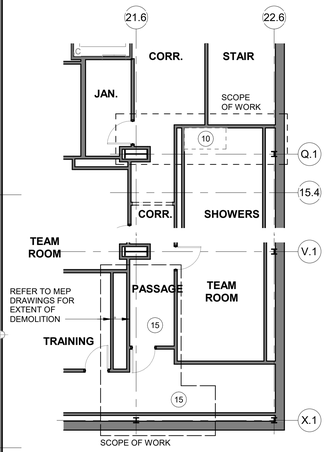
SYMBOL LEGEND

- EXISTING WALLS TO BE REMOVED
- EXISTING TO BE REMOVED
- KEYNOTES
- EXISTING WALLS TO REMAIN
- EXISTING TO REMAIN

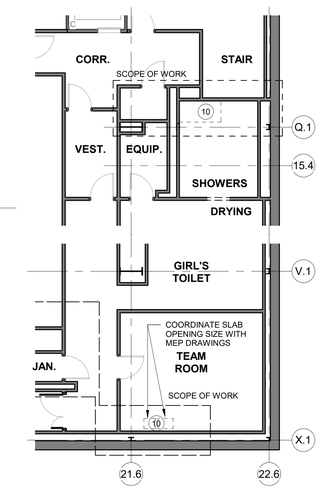
DEMOLITION KEYNOTES

1. REMOVE DOOR, FRAME AND THRESHOLD
2. REMOVE INTERIOR STUD/CMU WALL, FULL HEIGHT, WALL BASE, TRIM, WALL MOUNTED FIXTURES, OUTLETS, SWITCHES
3. REMOVE FINISH FLOORING
4. REMOVE CEILING (SUSPENDED & GWB), TRACKS, WIRES, FRAMING, LIGHTING, MECHANICAL
5. REMOVE GLAZING AND FRAME
6. REMOVE UPPER AND LOWER CASEWORK AND COUNTERTOP
7. REMOVE (SAWCUT) CONCRETE SLAB AS REQUIRED FOR NEW PIPING, CONDUIT, ETC.; HATCH INDICATES APPROXIMATE AREA, COORDINATE WITH FOODSERVICE AND MEP DRAWINGS
8. REMOVE PORTION OF EXTERIOR WALL, SEE STRUCTURAL DRAWINGS; RETAIN BRICKS FOR RE-USE
9. REMOVE BUILT-UP PLATFORM AND FINISH FLOORING, SEE ELETRICAL DEMO FOR ADDITIONAL INFORMATION
10. REMOVE PORTION OF FLOOR SLAB ON SECOND AND THIRD FLOOR, REMOVE PORTION OF ROOF DECK AT ROOF; COORDINATE WITH MEP DRAWINGS
11. REMOVE METAL INSTRUMENT STORAGE LOCKERS
12. KEEP FLOORING AND CEILING, EXTENT TO MATCH NEW CLOSET
13. HATCH INDICATES AREA OF EXPOSED EXISTING FOUNDATION, VERIFY IN FIELD; SEE WALL SECTIONS
14. STRIP EXISTING TILE AND WOOD CAP, REMOVE ADHESIVE
15. REMOVE AND REPLACE CEILING GRID FOR NEW DUCTWORK

NOTES:
SEE MEP DRAWINGS FOR DEMOLITION OF PLUMBING FIXTURES, HVAC, FIRE PROTECTION, ETC.



2 PARTIAL SECOND FLOOR DEMO PLAN
1/8" = 1'-0"



3 PARTIAL THIRD FLOOR DEMO PLAN
1/8" = 1'-0"

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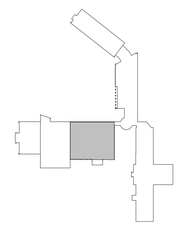
GRANBY MEMORIAL HIGH SCHOOL

GRANBY, CT

SCHOOL RENOVATIONS



KEY PLAN

STATE PROJECT NO:
056-0052 A

BID SET

1/7/2022

ACTUAL NORTH

STATE OF CONNECTICUT
JAMES A. BARRETT
NO. 10495
LICENSED ARCHITECT

DEMOLITION FLOOR PLAN

Scale: AS NOTED
Job No.: 20210.00
Drawn By: DRA
Date: 1/7/2022

AD101

1 PARTIAL FIRST FLOOR PLAN
3/16" = 1'-0"

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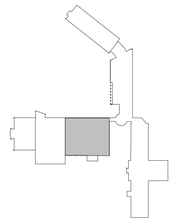
GRANBY MEMORIAL HIGH SCHOOL

GRANBY, CT

SCHOOL RENOVATIONS



KEY PLAN

STATE PROJECT NO:
056-0052 A

BID SET

1/7/2022

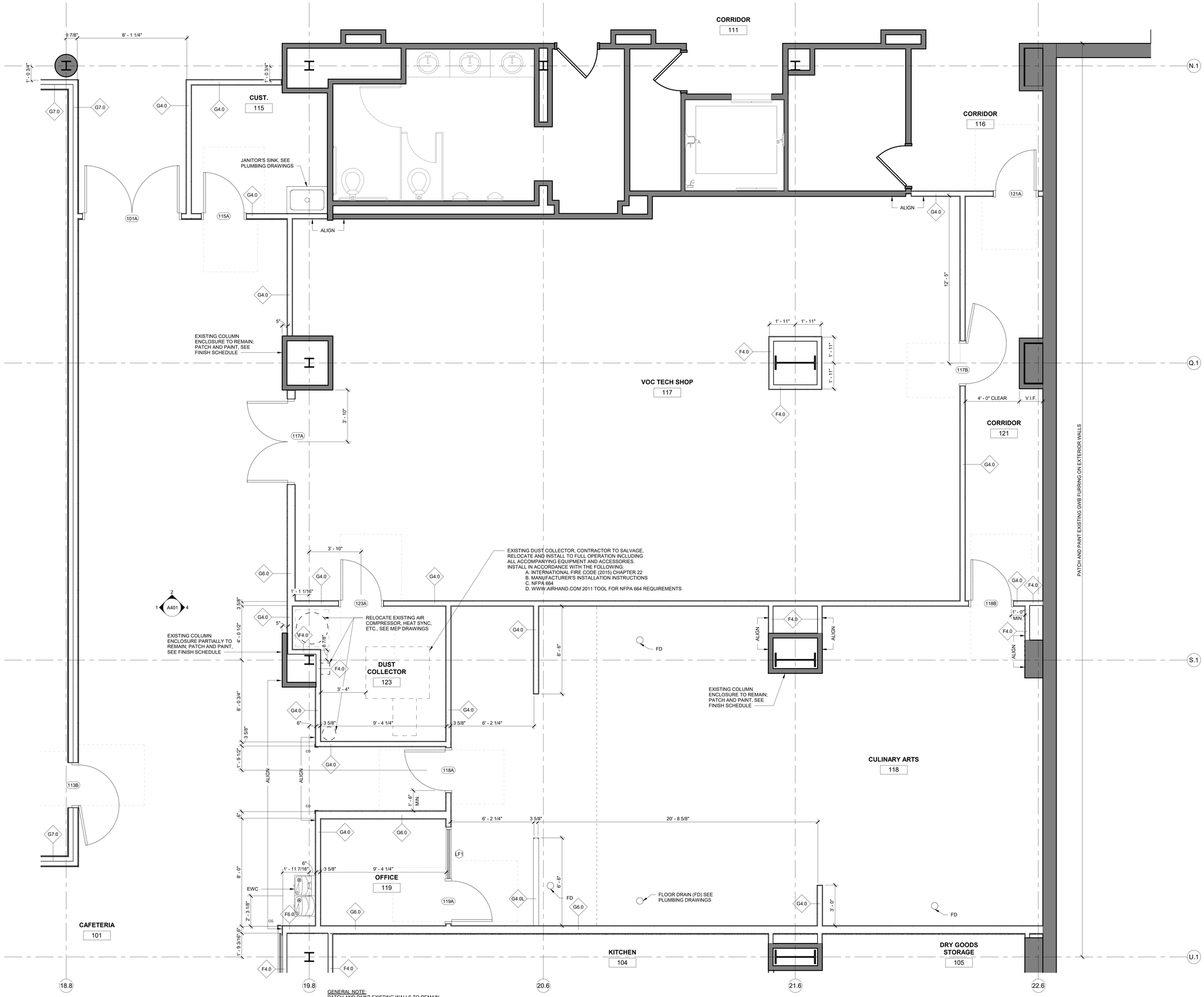
ACTUAL NORTH

STATE OF CONNECTICUT JAMES A. BARRETT NO. 10495 LICENSED ARCHITECT

OVERALL FLOOR PLAN

Scale: AS NOTED
Job No.: 20210.00
Drawn By: DRA
Date: 1/7/2022

A100



1 ENLARGED CULINARY & VOCTECH FLOOR PLAN
3/8" = 1'-0"

GENERAL NOTE:
PATCH AND PAINT EXISTING WALLS TO REMAIN WHERE DISTURBED FROM DEMOLITION.

SEE FOODSERVICE DRAWINGS FOR ALL CULINARY EQUIPMENT.

REFER TO DRAWING FS131 FOR BLOCKING IN CULINARY ARTS #118.

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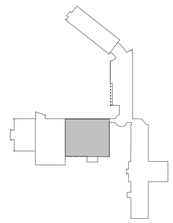
GRANBY MEMORIAL HIGH SCHOOL

GRANBY, CT

SCHOOL RENOVATIONS



KEY PLAN

STATE PROJECT NO:
056-0052 A

BID SET

1/7/2022

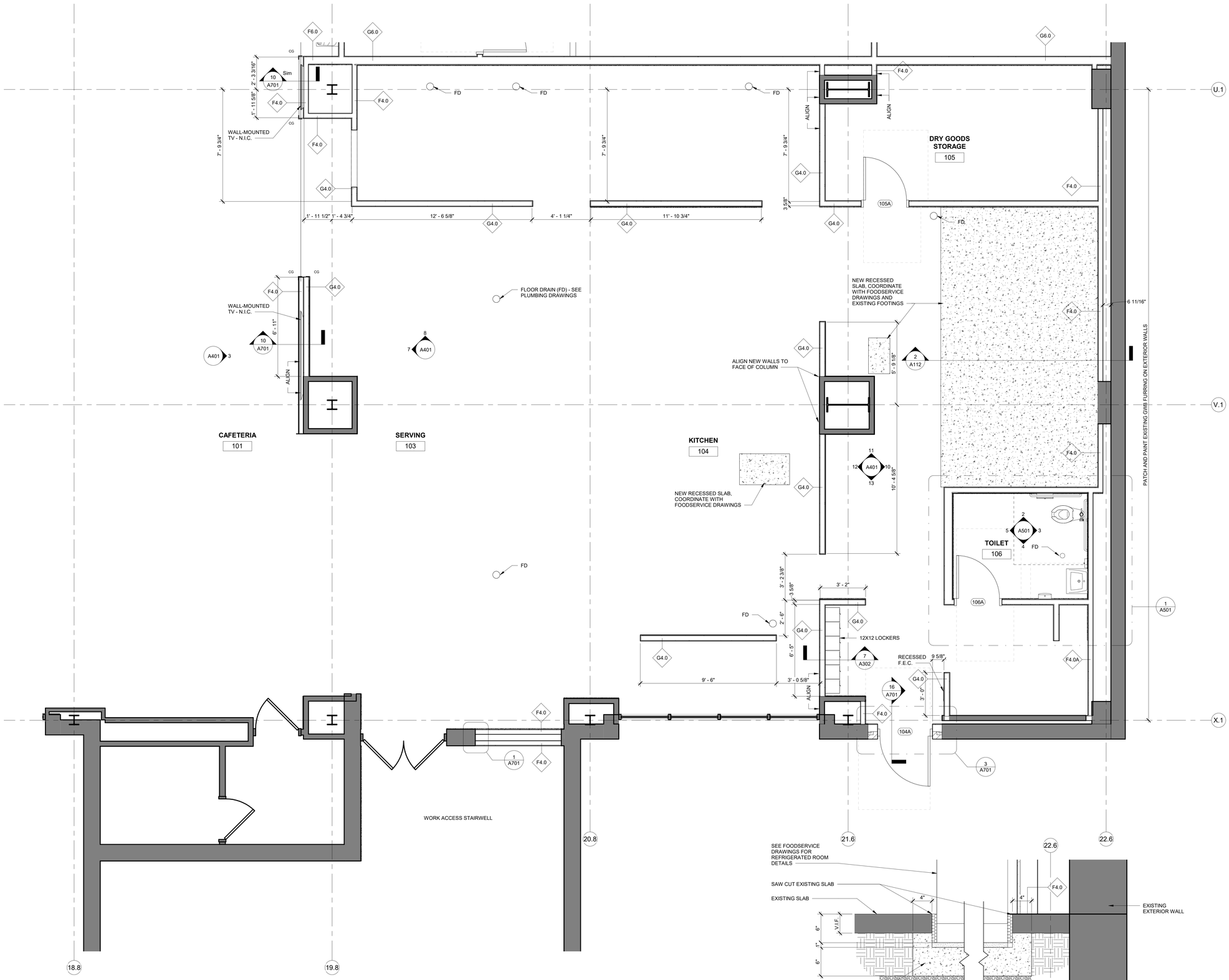
ACTUAL NORTH

STATE OF CONNECTICUT JAMES A. BARRETT NO. 10449 LICENSED ARCHITECT

ENLARGED FLOOR PLAN CULINARY / VOC TECH

Scale: AS NOTED
Job No.: 20210.00
Drawn By: DRA
Date: 1/7/2022

A111



1 ENLARGED KITCHEN FLOOR PLAN
3/8" = 1'-0"

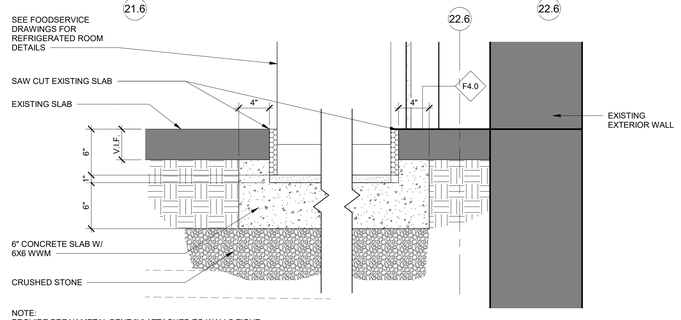
GENERAL NOTE:

PATCH AND PAINT EXISTING WALLS TO REMAIN WHERE DISTURBED FROM DEMOLITION.

SEE FOODSERVICE DRAWINGS FOR ALL KITCHEN AND SERVING EQUIPMENT.

REFER TO DRAWING FS131 FOR BLOCKING IN KITCHEN #104.

COORDINATE POWER/DATA TO FREE-STANDING EQUIPMENT, EQUIPMENT ON TABLES, CARTS, ETC.



NOTE:
PROVIDE BREAK METAL BENT "L" ATTACHED TO WALLS TIGHT TO FLOOR, CEILING AND BOTH SIDES OF COOLER/FREEZER

2 RECESSED SLAB DETAIL
1 1/2" = 1'-0"

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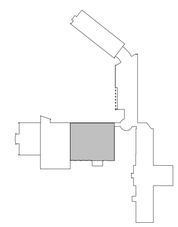
GRANBY MEMORIAL HIGH SCHOOL

GRANBY, CT

SCHOOL RENOVATIONS



KEY PLAN

STATE PROJECT NO:
056-0052 A

BID SET

1/7/2022

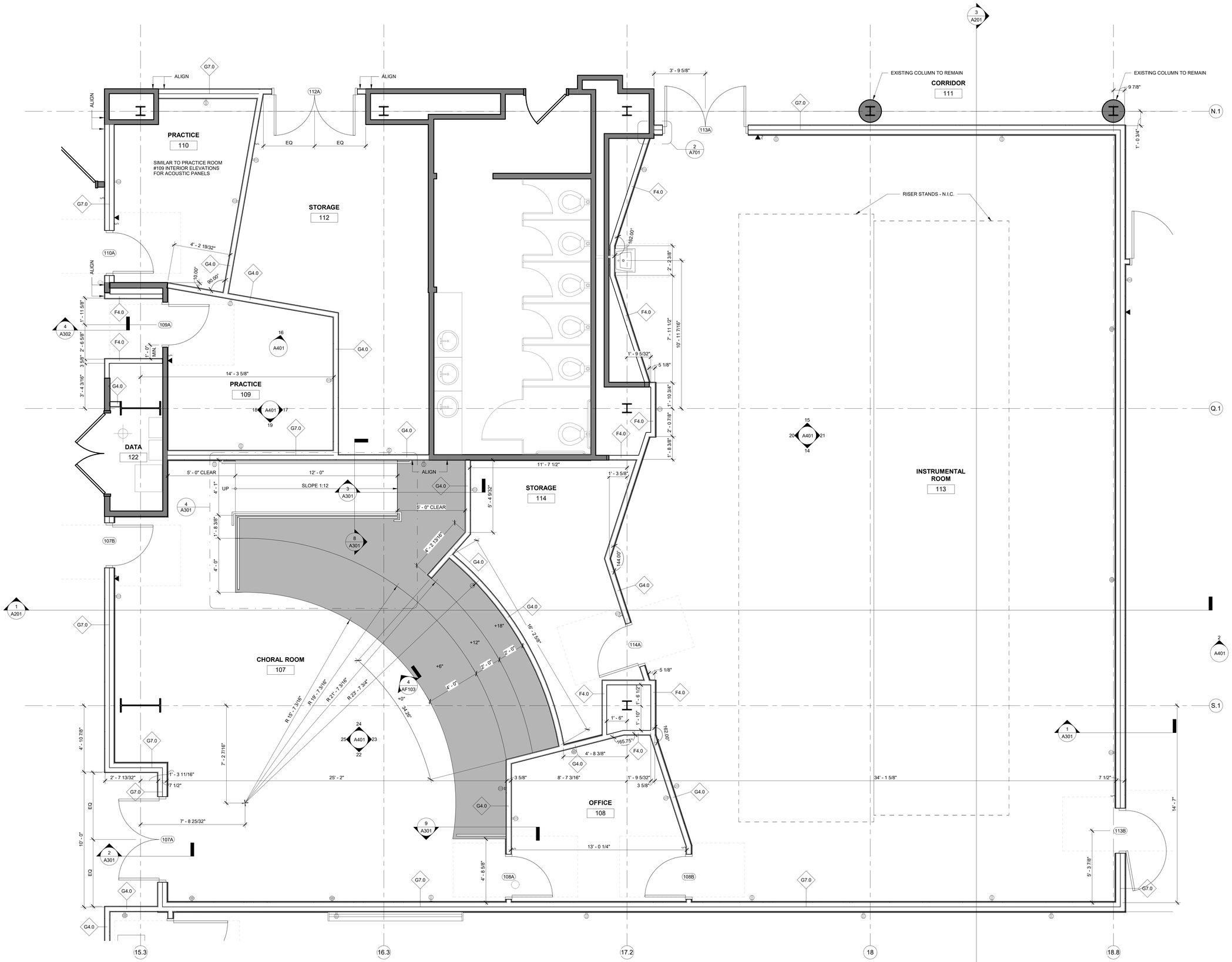
ACTUAL NORTH

STATE OF CONNECTICUT JAMES A. BARRETT NO. 10495 LICENSED ARCHITECT

ENLARGED FLOOR PLAN KITCHEN

Scale: AS NOTED
Job No.: 20210.00
Drawn By: DRA
Date: 1/7/2022

A112



1 ENLARGED MUSIC FLOOR PLAN
3/8" = 1'-0"

GENERAL NOTE:

PATCH AND PAINT EXISTING WALLS TO REMAIN WHERE DISTURBED FROM DEMOLITION.

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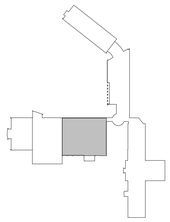
Planning Architecture Interior Design

GRANBY MEMORIAL HIGH SCHOOL

GRANBY, CT

SCHOOL RENOVATIONS



KEY PLAN

STATE PROJECT NO:
056-0052 A

BID SET

1/7/2022

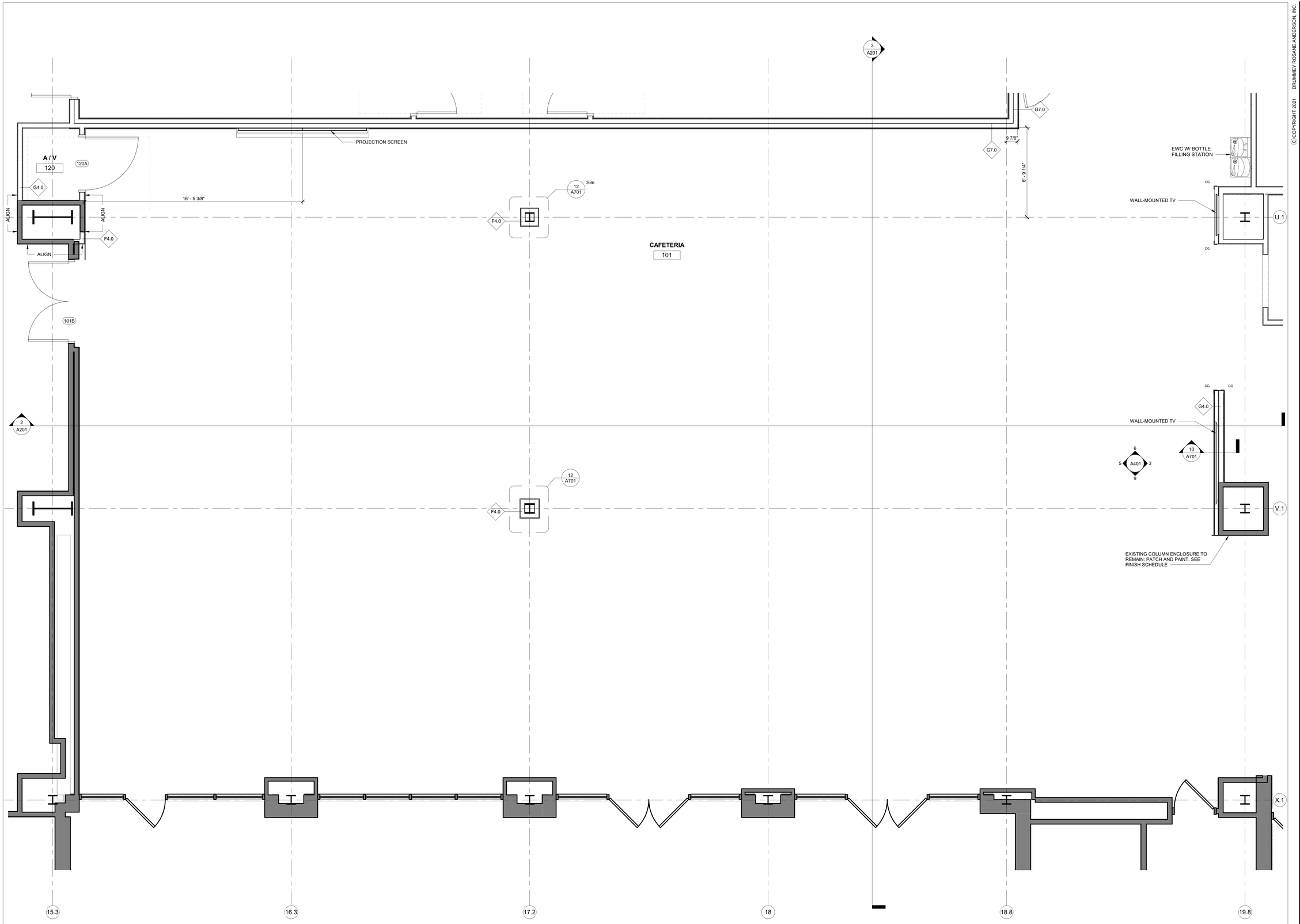
ACTUAL NORTH

STATE OF CONNECTICUT JAMES A. BARRETT NO. 10495 LICENSED ARCHITECT

ENLARGED FLOOR PLAN MUSIC

Scale: AS NOTED
Job No.: 20210.00
Drawn By: DRA
Date: 1/7/2022

A113



1 ENLARGED CAFETERIA PLAN
3/8" = 1'-0"

GENERAL NOTE:

PATCH AND PAINT EXISTING WALLS TO REMAIN WHERE DISTURBED FROM DEMOLITION.

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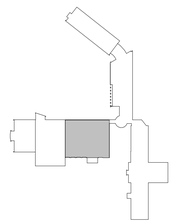
GRANBY MEMORIAL HIGH SCHOOL

GRANBY, CT

SCHOOL RENOVATIONS



KEY PLAN

STATE PROJECT NO:
056-0052 A

BID SET

1/7/2022

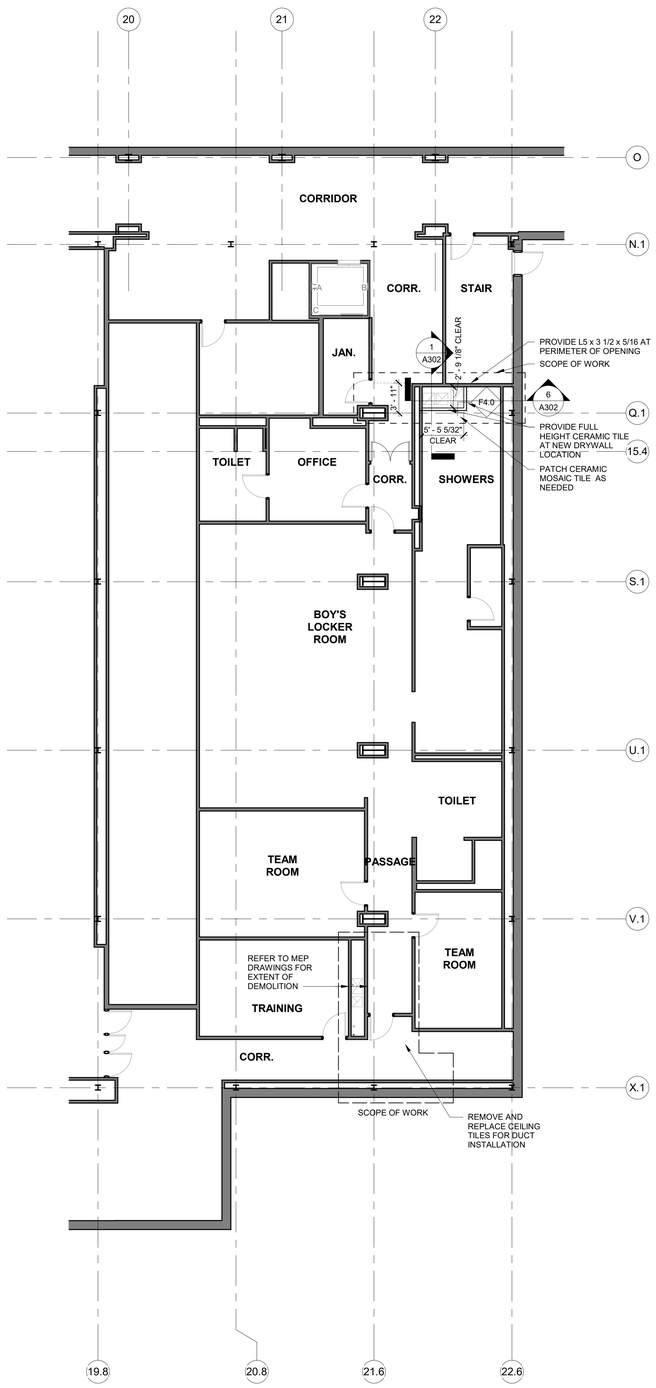
N
ACTUAL NORTH

STATE OF CONNECTICUT
JAMES A. BARNES
NO. 10490
LICENSED ARCHITECT

ENLARGED FLOOR PLAN CAFETERIA

Scale: AS NOTED
Job No.: 20210.00
Drawn By: DRA
Date: 1/7/2022

A114

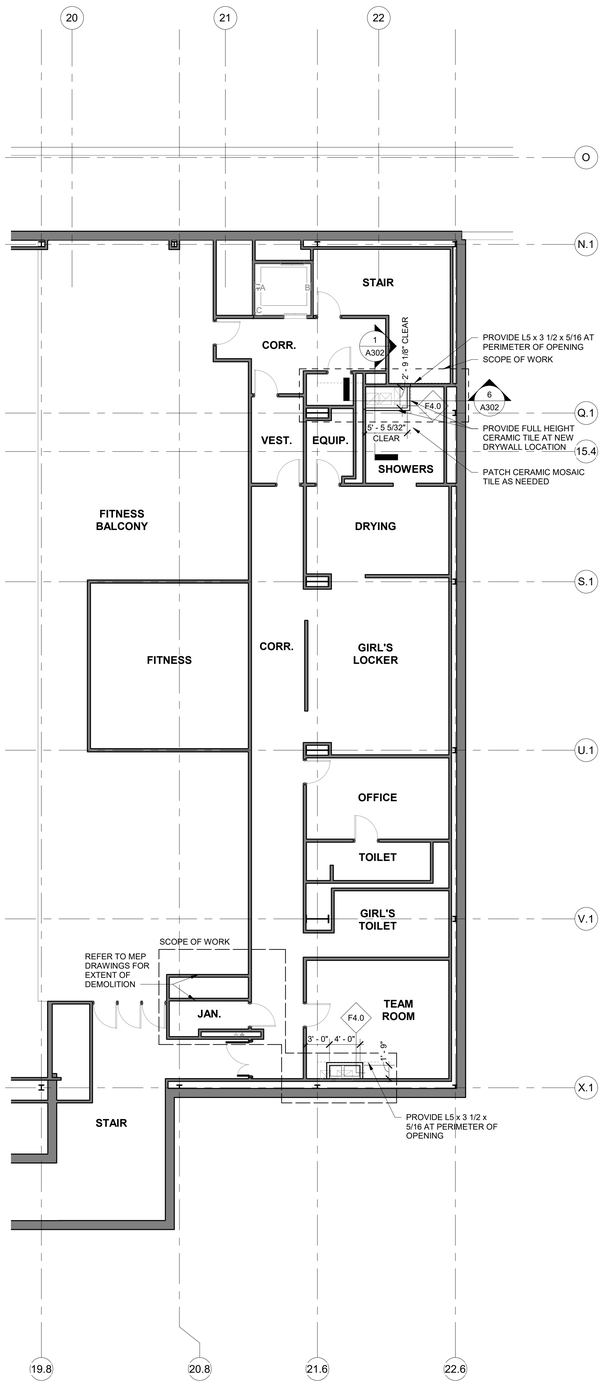


1 2ND FL. BLD. #4 & 5
1/8" = 1'-0"

GENERAL NOTE:

PATCH AND PAINT EXISTING WALLS TO REMAIN WHERE DISTURBED FROM DEMOLITION.

REMOVE EXISTING PARTITIONS TO ACCOMODATE NEW MECHANICAL / ELECTRICAL WORK. INFILL WALL OPENINGS AND REFINISH ENTIRE WALL SURFACE. SEE MEP DRAWINGS FOR NEW WORK.

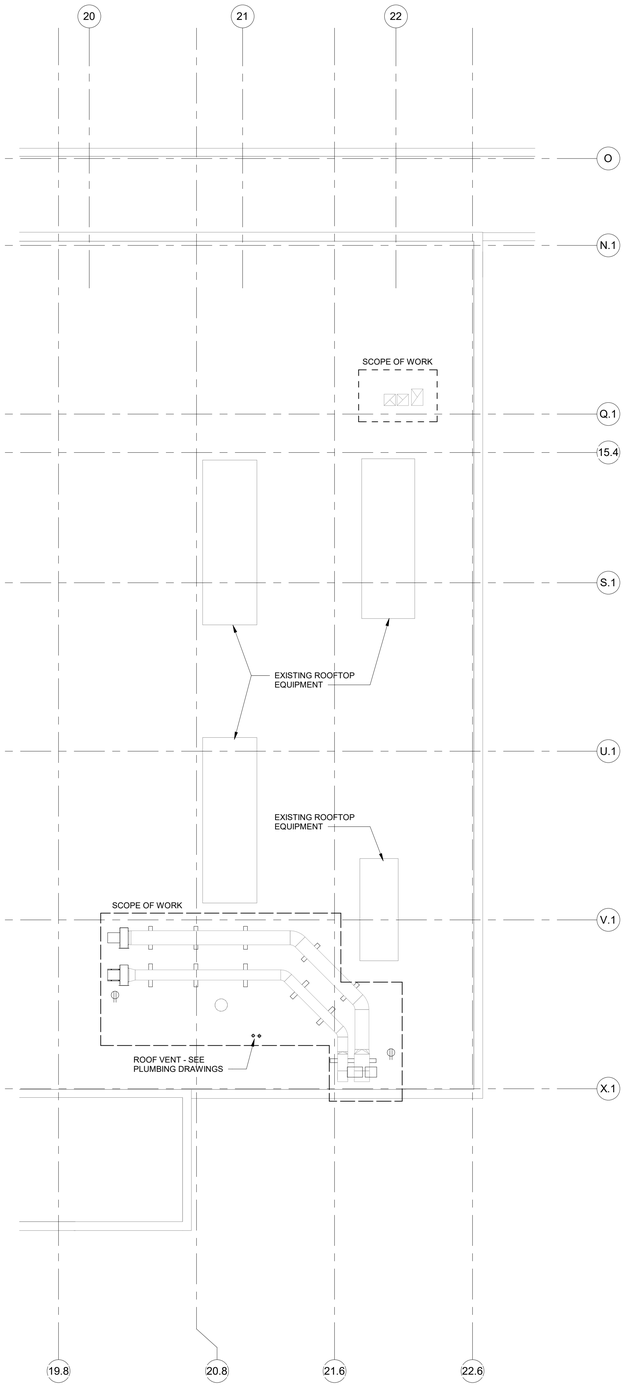


2 3RD FL. BLD. 4 & 5
1/8" = 1'-0"

GENERAL NOTE:

PATCH AND PAINT EXISTING WALLS TO REMAIN WHERE DISTURBED FROM DEMOLITION.

REMOVE EXISTING PARTITIONS TO ACCOMODATE NEW MECHANICAL / ELECTRICAL WORK. INFILL WALL OPENINGS AND REFINISH ENTIRE WALL SURFACE. SEE MEP DRAWINGS FOR NEW WORK.



3 ROOF PLAN
1/8" = 1'-0"

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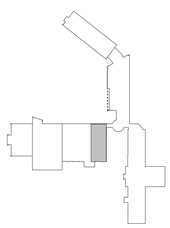
GRANBY MEMORIAL HIGH SCHOOL

GRANBY, CT

SCHOOL RENOVATIONS



KEY PLAN

STATE PROJECT NO:
056-0052 A

BID SET

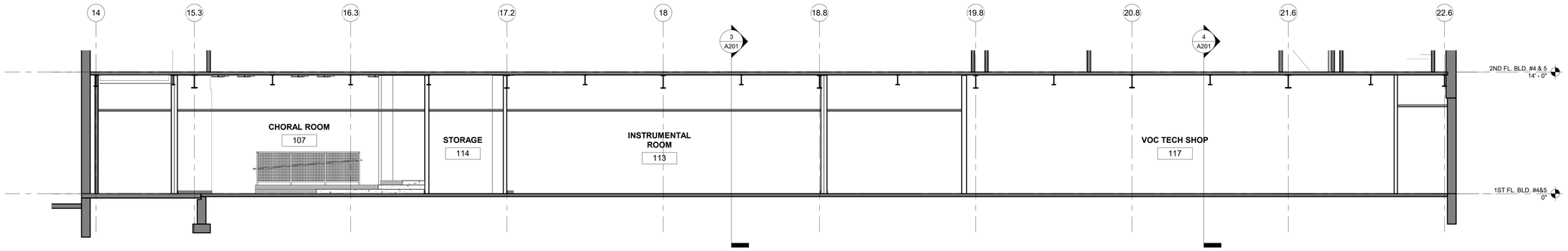
1/7/2022

STATE OF CONNECTICUT
JAMES A. BAKER
NO. 10495
LICENSED ARCHITECT

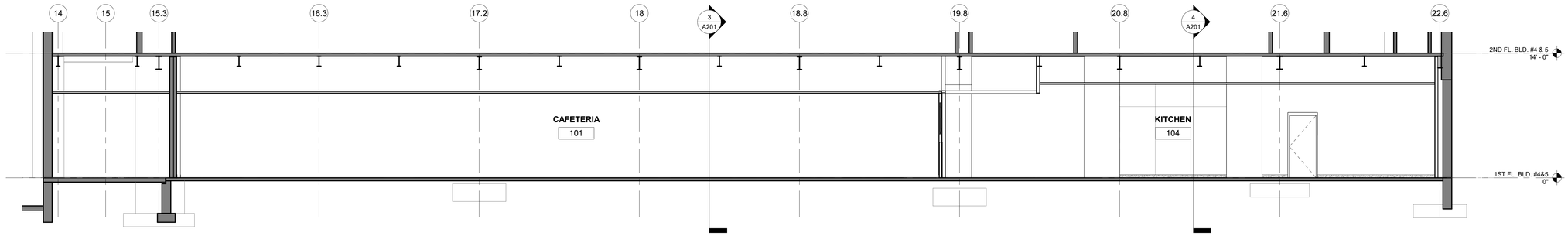
SECOND, THIRD & ROOF PARTIAL FLOOR PLANS

Scale: AS NOTED
Job No.: 20210.00
Drawn By: DRA
Date: 1/7/2022

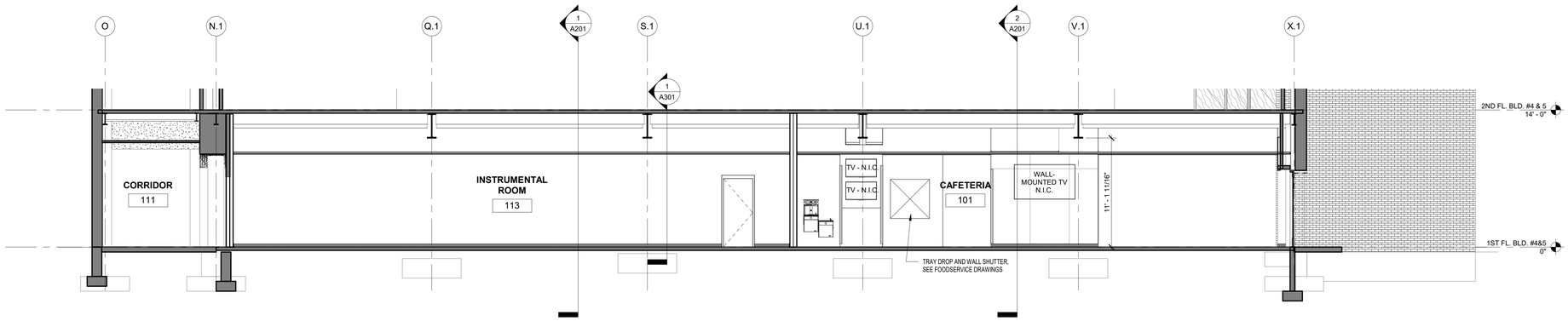
A115



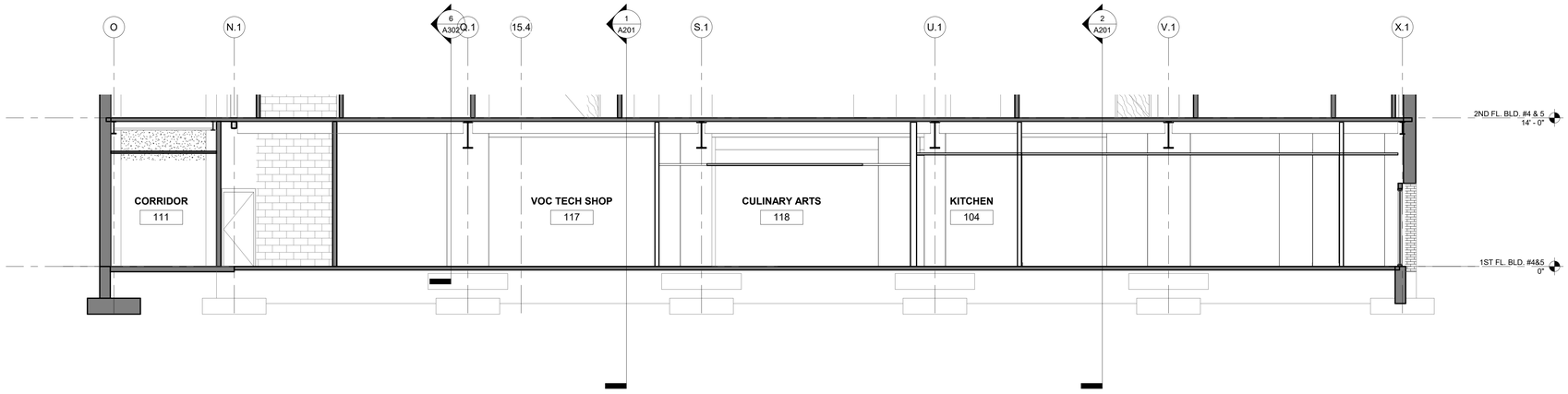
1 BUILDING SECTION
3/16" = 1'-0"



2 BUILDING SECTION
3/16" = 1'-0"



3 BUILDING SECTION
3/16" = 1'-0"



4 BUILDING SECTION
3/16" = 1'-0"

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GRANBY MEMORIAL HIGH SCHOOL

GRANBY, CT

SCHOOL RENOVATIONS

STATE PROJECT NO:
056-0052 A

BID SET

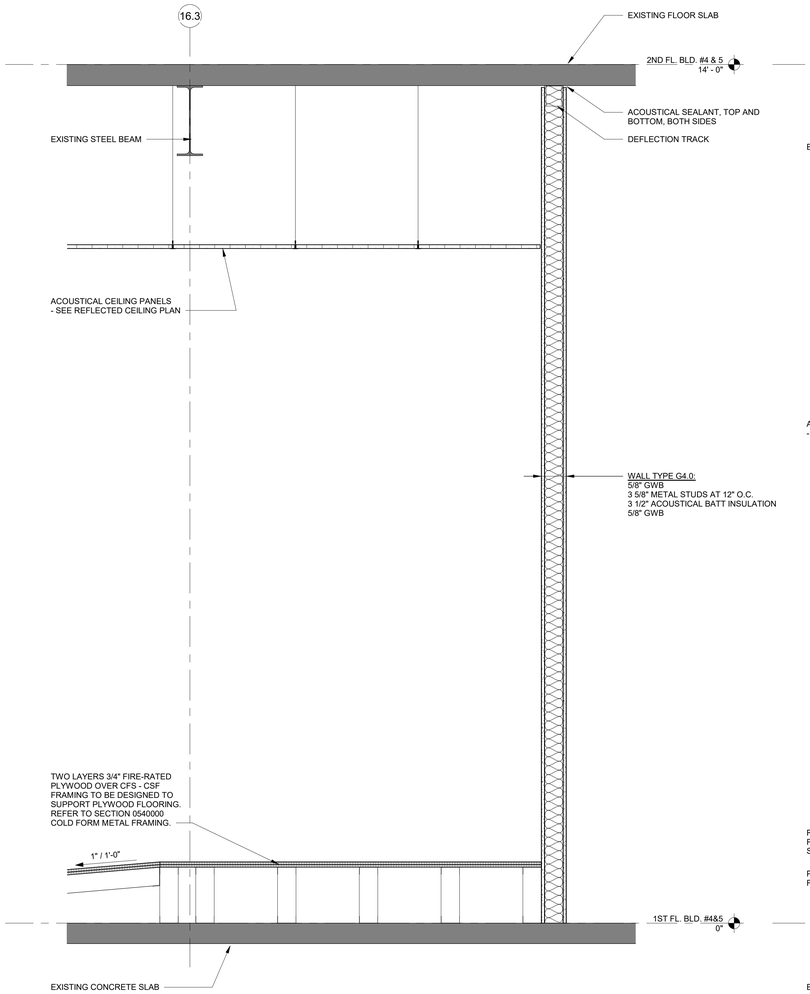
1/7/2022

STATE OF CONNECTICUT
JAMES A. BARRETT
NO. 10495
LICENSED ARCHITECT

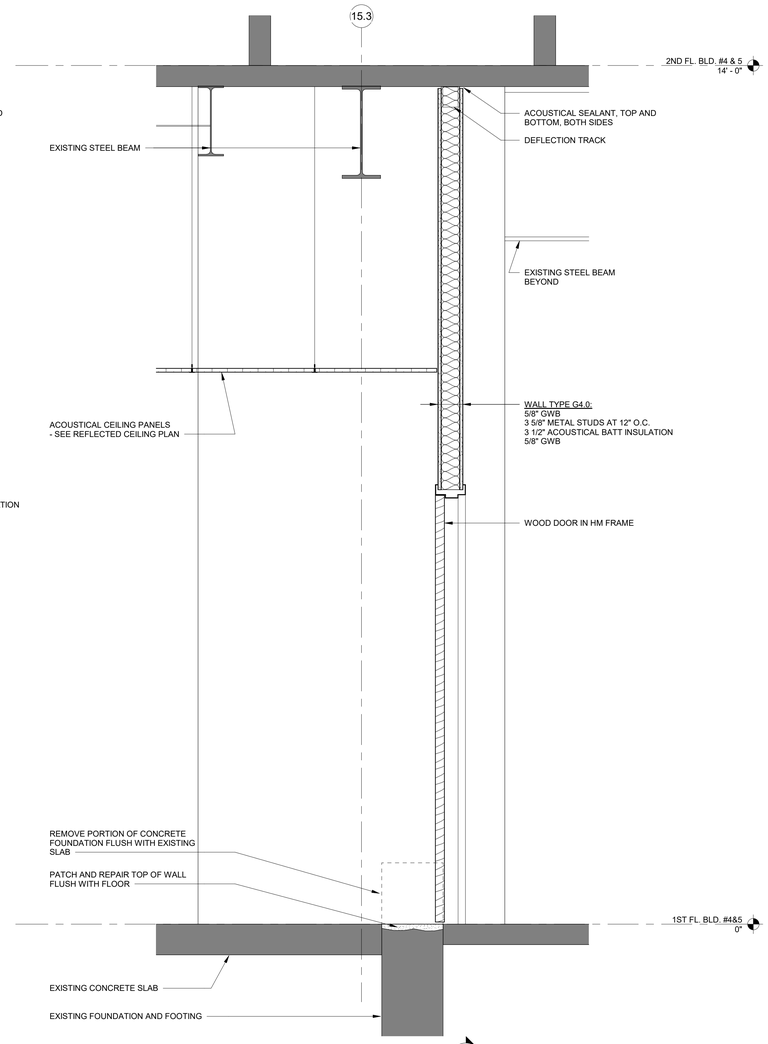
BUILDING SECTIONS

Scale: AS NOTED
Job No.: 20210.00
Drawn By: DRA
Date: 1/7/2022

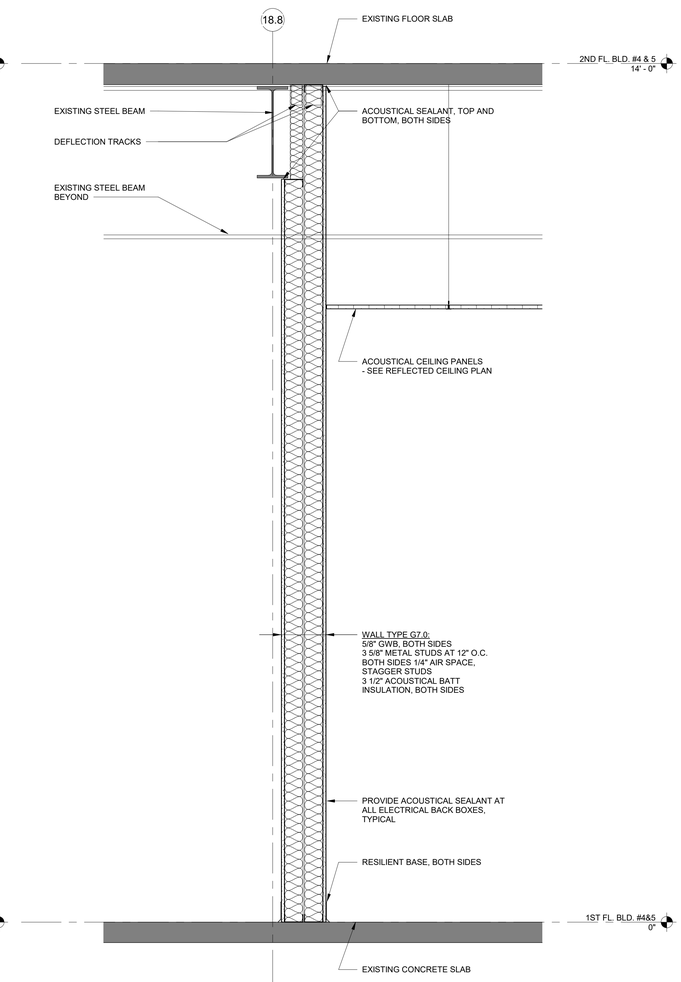
A201



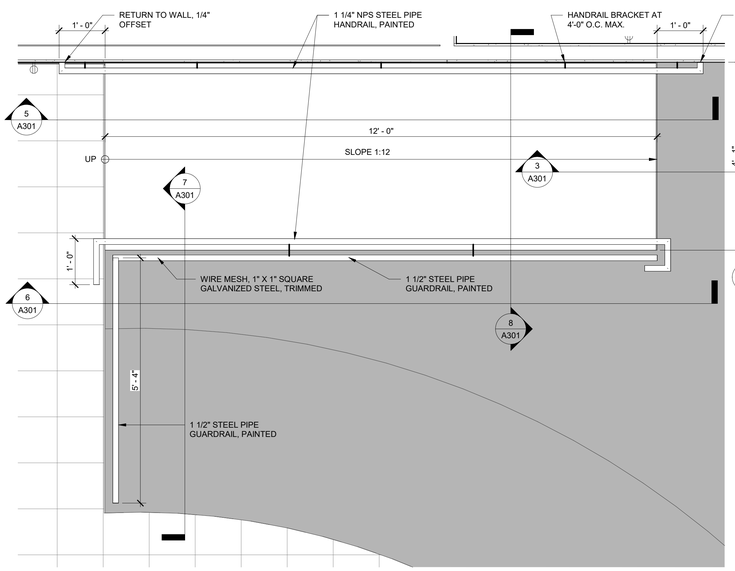
3 G4.0 Wall Section at Raised Floor
1" = 1'-0"



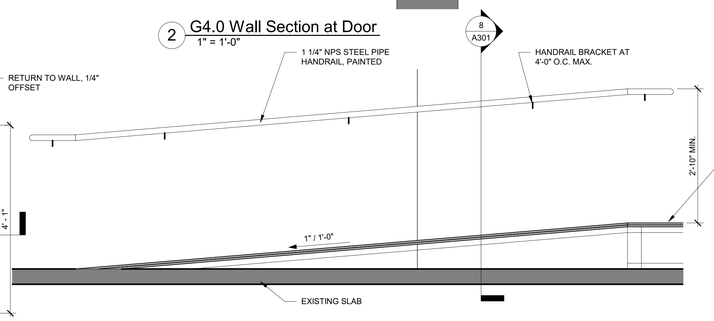
2 G4.0 Wall Section at Door
1" = 1'-0"



1 G7.0 Wall Section
1" = 1'-0"

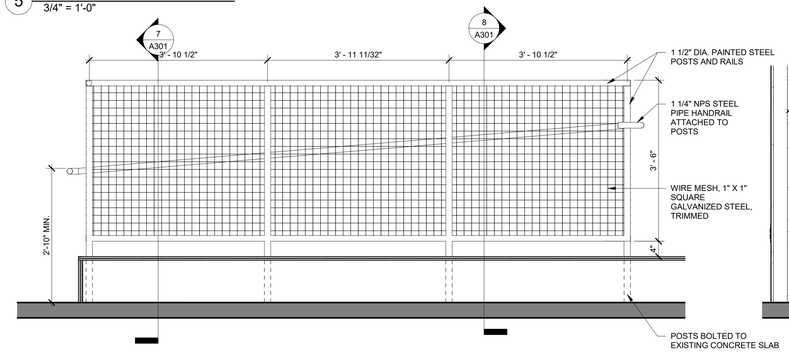


4 ENLARGED CHORAL RAMP PLAN
3/4" = 1'-0"

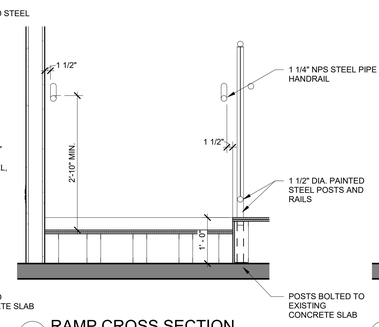


5 RAMP SECTION - WALL
3/4" = 1'-0"

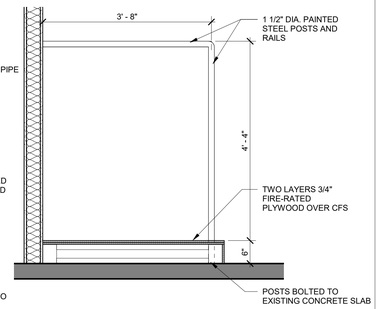
7 RISER CROSS SECTION
3/4" = 1'-0"



6 RAMP SECTION - GUARDRAIL
3/4" = 1'-0"



8 RAMP CROSS SECTION
3/4" = 1'-0"



9 RISER CROSS SECTION
3/4" = 1'-0"

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Planning Architecture Interior Design

GRANBY MEMORIAL HIGH SCHOOL

GRANBY, CT

SCHOOL RENOVATIONS

STATE PROJECT NO:
056-0052 A

BID SET

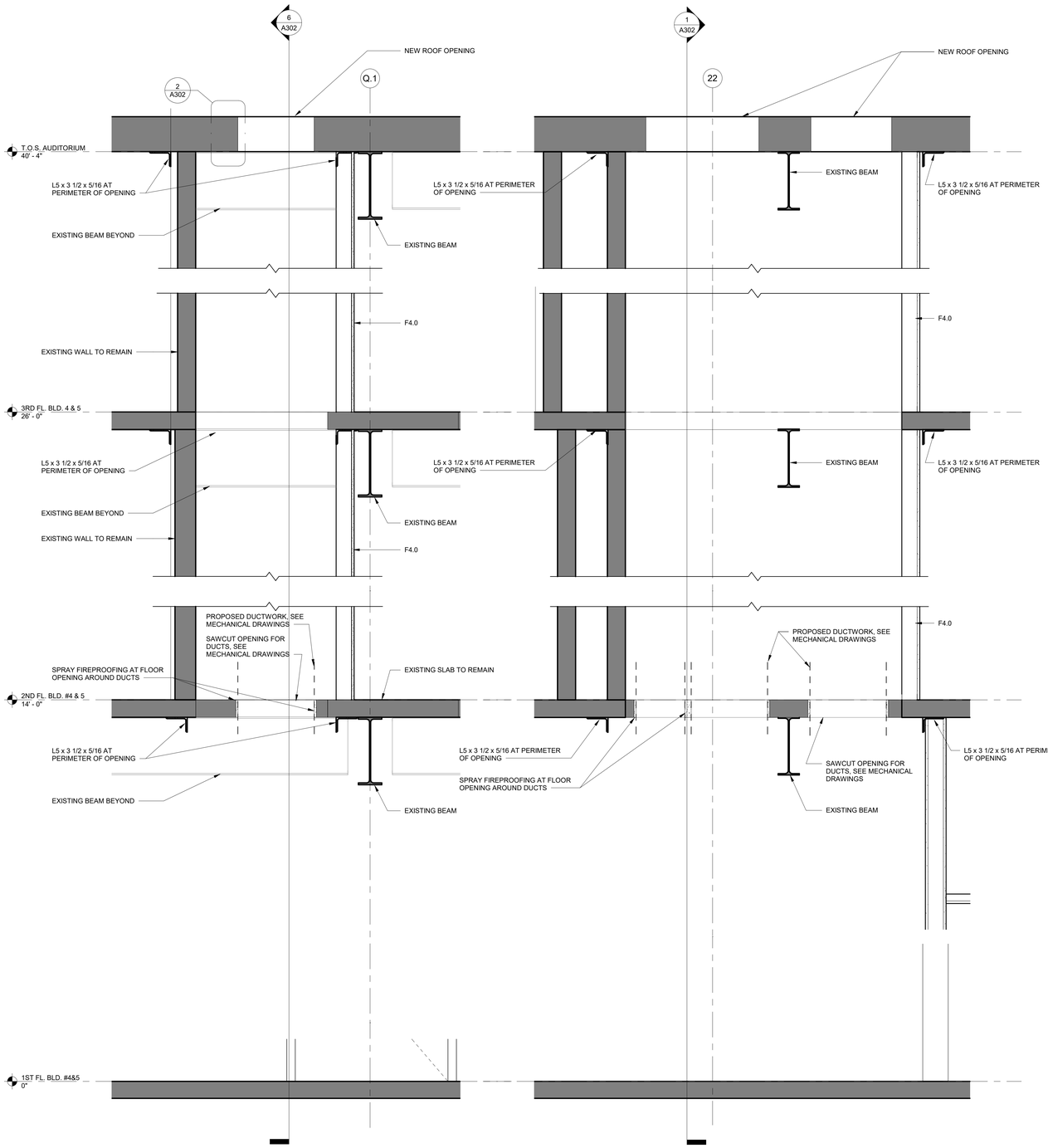
1/7/2022

STATE OF CONNECTICUT JAMES A. BAHREY NO. 10495 LICENSED ARCHITECT

WALL SECTIONS

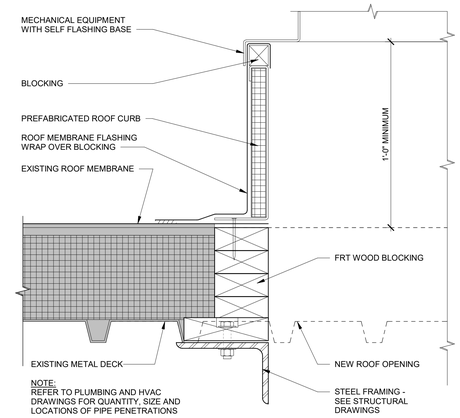
Scale: AS NOTED
Job No.: 20210.00
Drawn By: DRA
Date: 1/7/2022

A301

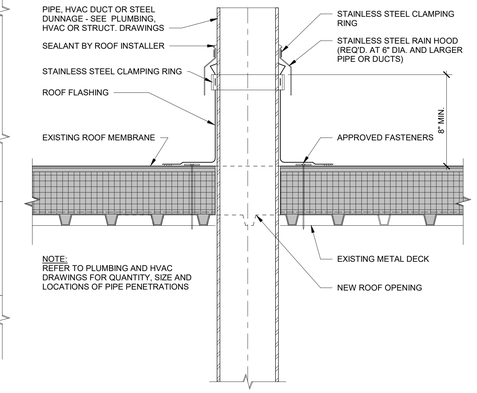


1 SECTION AT SHAFT
1" = 1'-0"

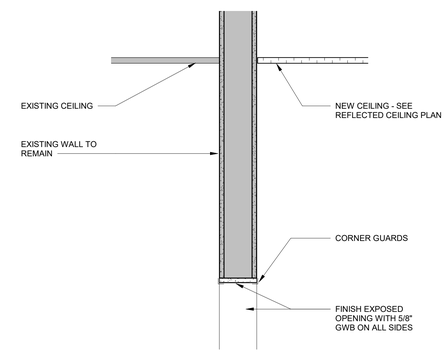
6 SECTION AT SHAFT
1" = 1'-0"



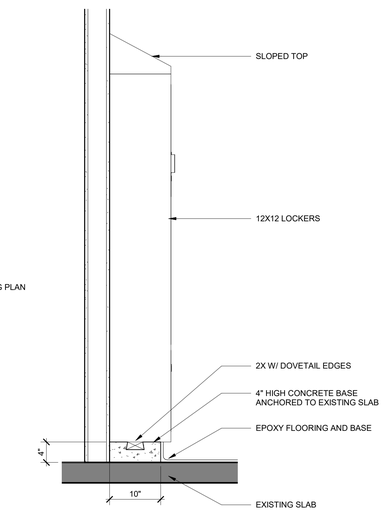
2 ROOF CURB DETAIL
3" = 1'-0"



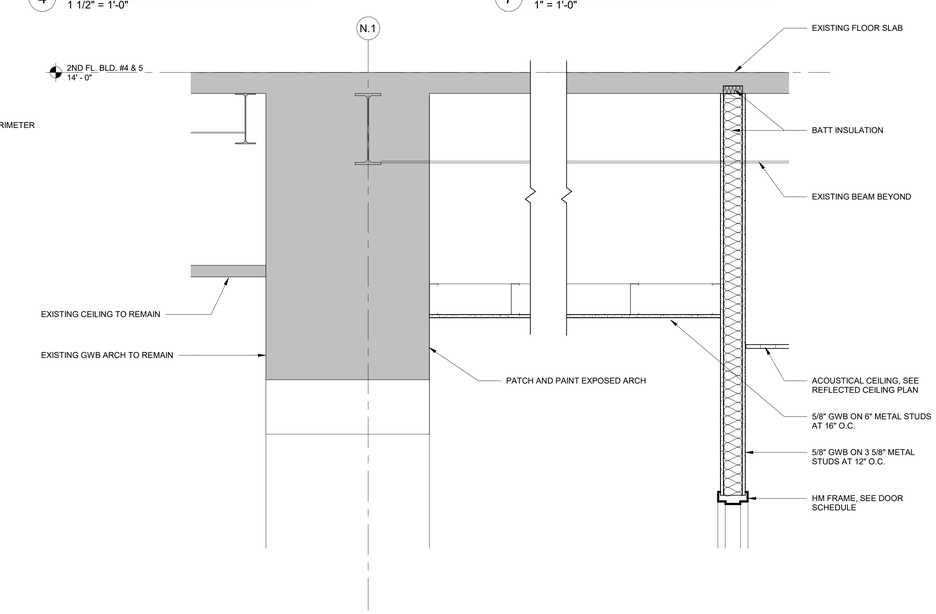
3 ROOF PENETRATION DETAIL
1 1/2" = 1'-0"



4 SECTION AT DOOR OPENING
1 1/2" = 1'-0"



7 LOCKER SECTION
1" = 1'-0"



5 SECTION AT CAFETERIA ENTRY
1" = 1'-0"

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Planning Architecture Interior Design

GRANBY MEMORIAL HIGH SCHOOL

GRANBY, CT

SCHOOL RENOVATIONS

STATE PROJECT NO:
056-0052 A

BID SET

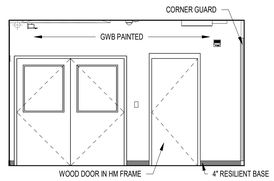
1/7/2022

STATE OF CONNECTICUT
JAMES A. BARRETT
NO. 10495
LICENSED ARCHITECT

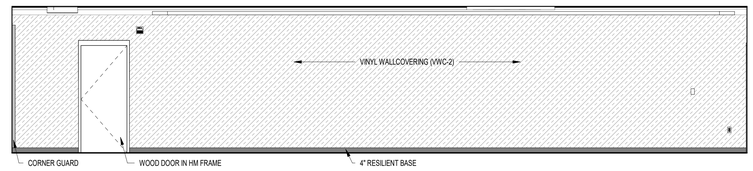
WALL SECTIONS & DETAILS

Scale: AS NOTED
Job No.: 20210.00
Drawn By: DRA
Date: 1/7/2022

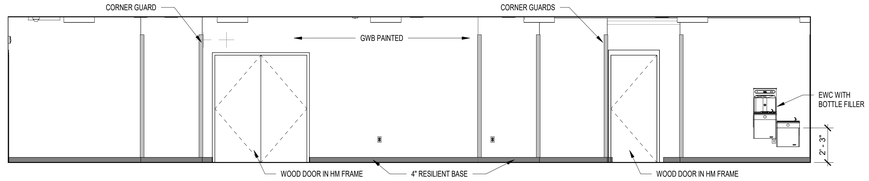
A302



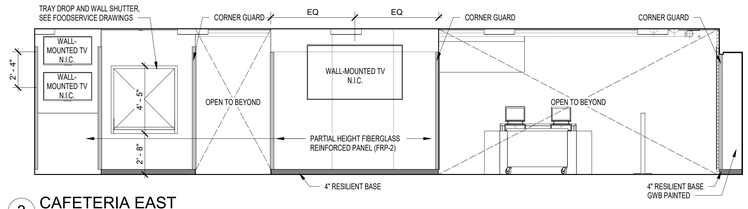
2 CAFETERIA ENTRY NORTH
1/4" = 1'-0"



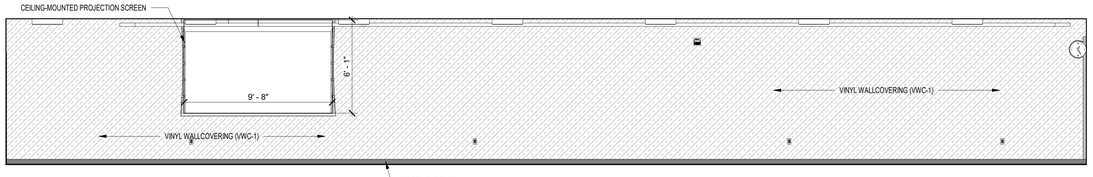
1 CAFETERIA ENTRY WEST
1/4" = 1'-0"



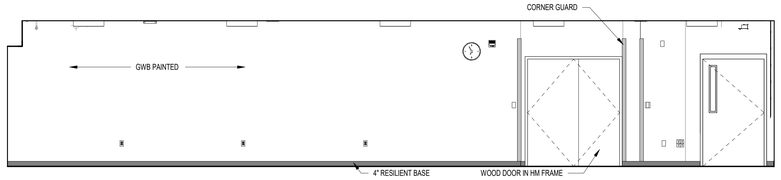
4 CAFETERIA ENTRY EAST
1/4" = 1'-0"



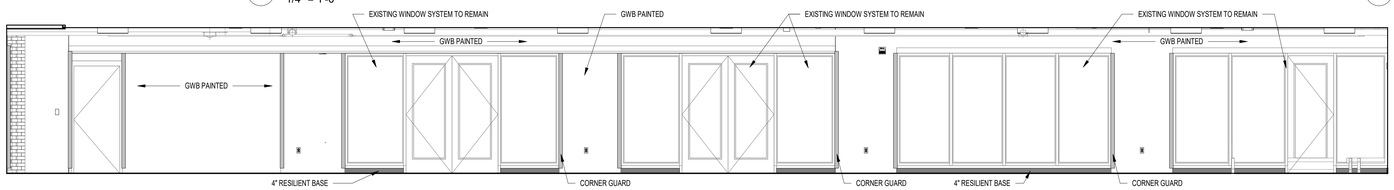
3 CAFETERIA EAST
1/4" = 1'-0"



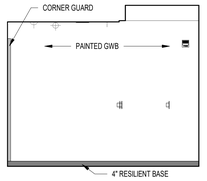
6 CAFETERIA NORTH
1/4" = 1'-0"



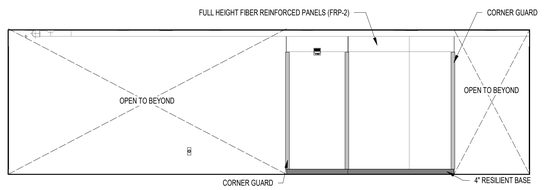
5 CAFETERIA WEST
1/4" = 1'-0"



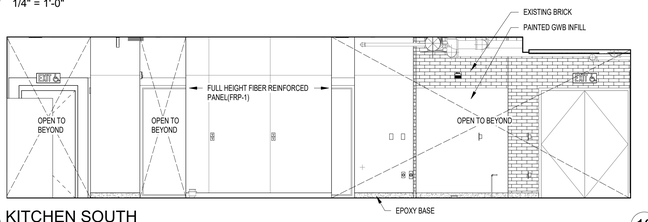
9 CAFERTIRIA SOUTH
1/4" = 1'-0"



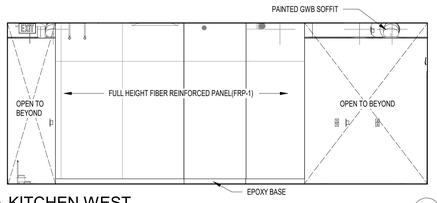
8 SERVING NORTH
1/4" = 1'-0"



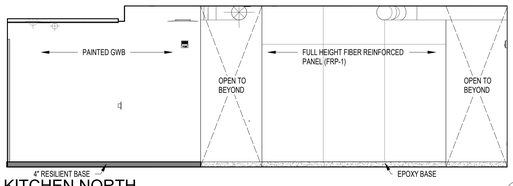
7 SERVING WEST
1/4" = 1'-0"



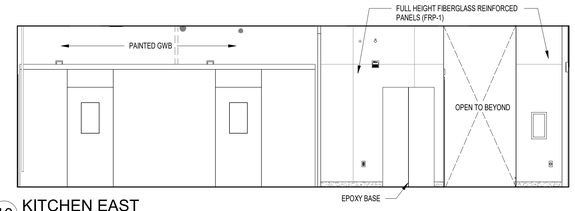
13 KITCHEN SOUTH
1/4" = 1'-0"



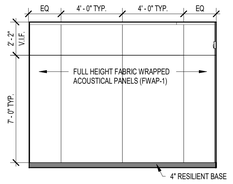
12 KITCHEN WEST
1/4" = 1'-0"



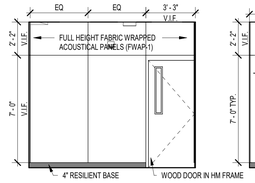
11 KITCHEN NORTH
1/4" = 1'-0"



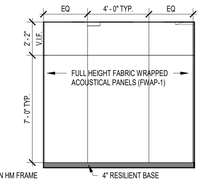
10 KITCHEN EAST
1/4" = 1'-0"



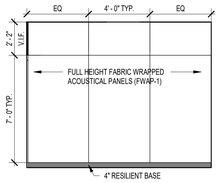
19 PRACTICE SOUTH
1/4" = 1'-0"



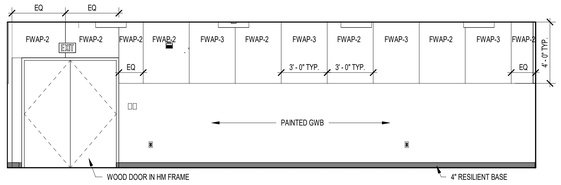
18 PRACTICE WEST
1/4" = 1'-0"



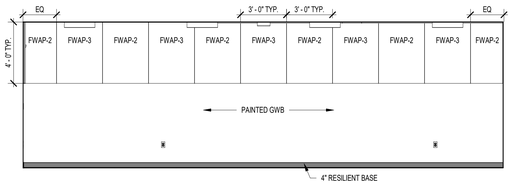
17 PRACTICE EAST
1/4" = 1'-0"



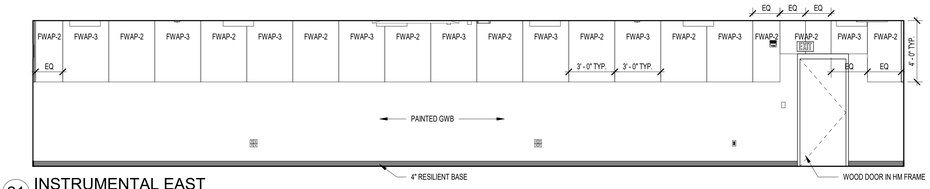
16 PRACTICE NORTH
1/4" = 1'-0"



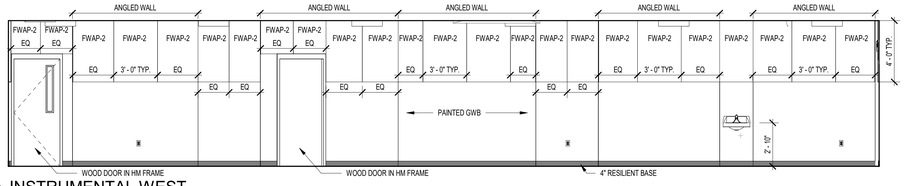
15 INSTRUMENTAL NORTH
1/4" = 1'-0"



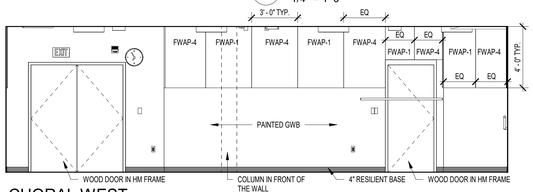
14 INSTRUMENTAL SOUTH
1/4" = 1'-0"



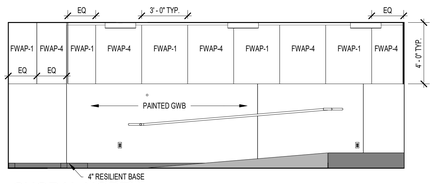
21 INSTRUMENTAL EAST
1/4" = 1'-0"



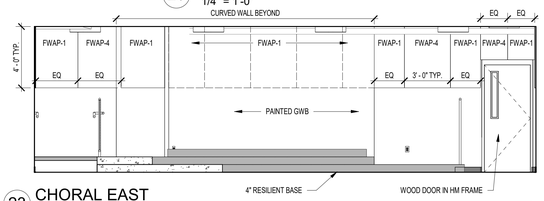
20 INSTRUMENTAL WEST
1/4" = 1'-0"



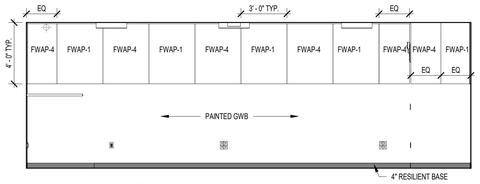
25 CHORAL WEST
1/4" = 1'-0"



24 CHORAL NORTH
1/4" = 1'-0"



23 CHORAL EAST
1/4" = 1'-0"



22 CHORAL SOUTH
1/4" = 1'-0"

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Planning Architecture Interior Design

GRANBY MEMORIAL HIGH SCHOOL

GRANBY, CT

SCHOOL RENOVATIONS

STATE PROJECT NO:
056-0052 A

BID SET

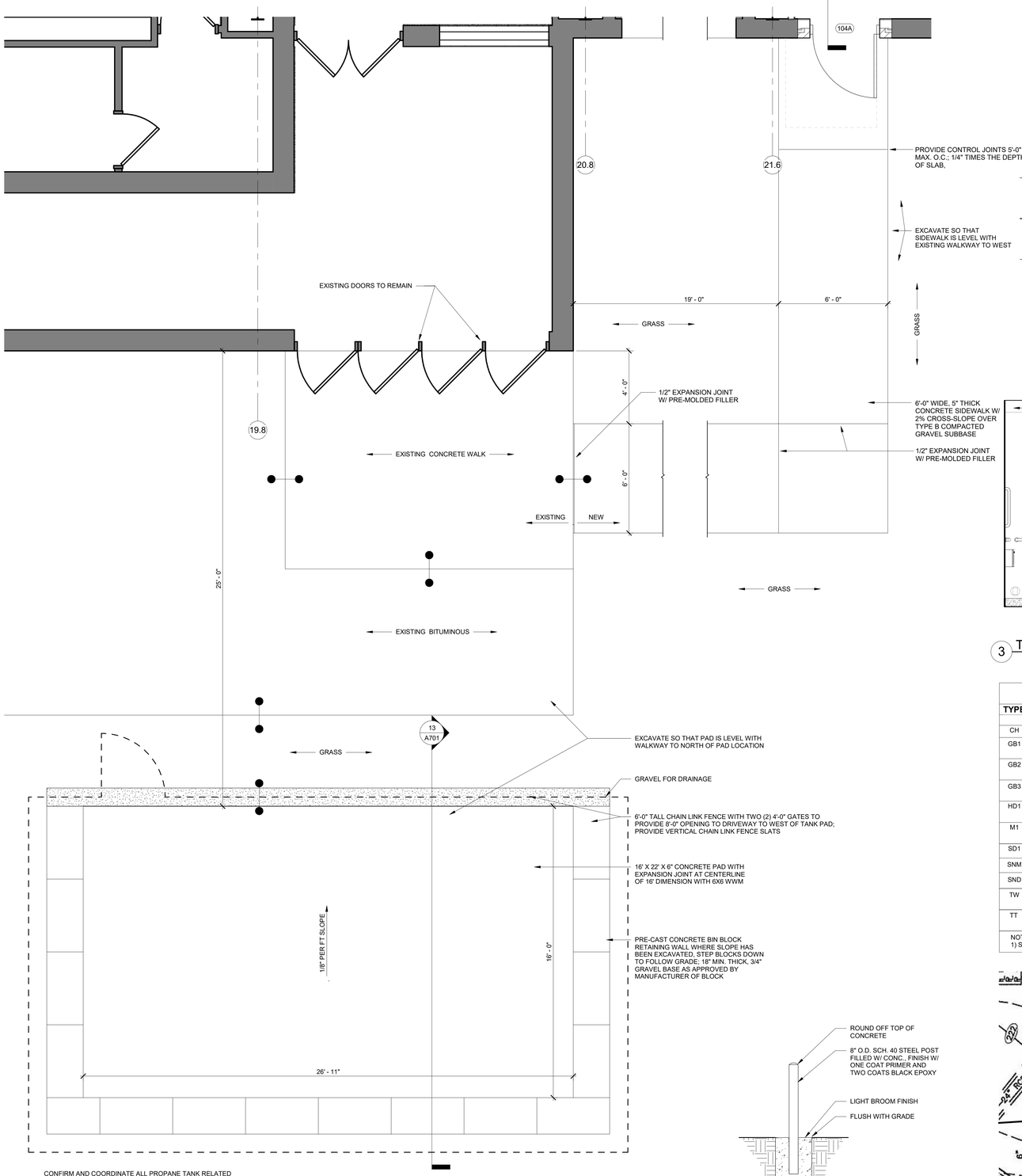
1/7/2022

STATE OF CONNECTICUT
LANCE A. BARRETT
NO. 10410
LICENSED ARCHITECT

INTERIOR ELEVATIONS

Scale: AS NOTED
Job No.: 20210.00
Drawn By: DRA
Date: 1/7/2022

A401



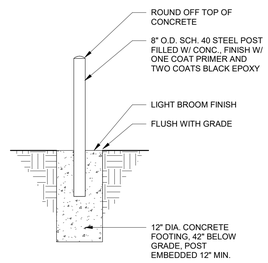
CONFIRM AND COORDINATE ALL PROPANE TANK RELATED ASPECTS WITH PROPANE SUPPLY COMPANY PRIOR TO CONSTRUCTION

PAD LOCATED AS DIRECTED BY PROPANE COMPANY, MINIMUM 25'-0" FROM BUILDING

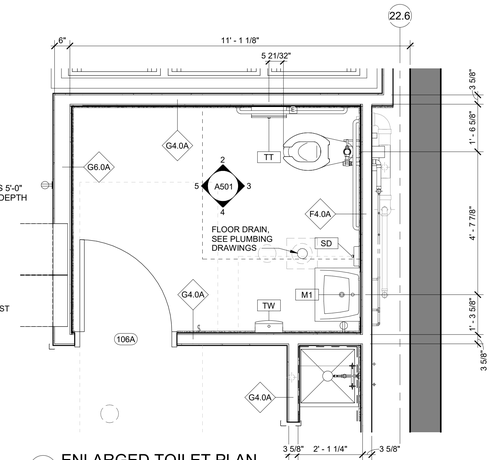
BOLLARD SPACING AND PLACEMENT AS DIRECTED BY PROPANE COMPANY, SEE DETAIL 7/A501

SEE DETAIL 14/A701 FOR PIPING TRENCH DETAIL

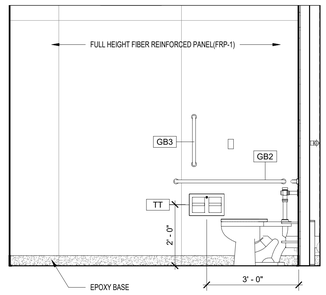
6 ENLARGED OUTDOOR AREA
3/8" = 1'-0"



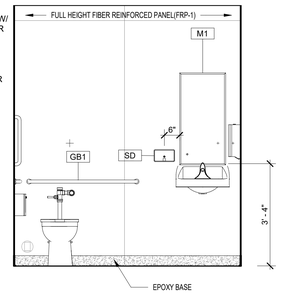
7 FIXED BOLLARD DETAIL
3/4" = 1'-0"



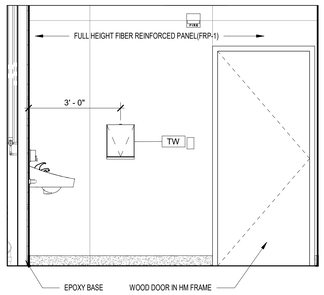
1 ENLARGED TOILET PLAN
1/2" = 1'-0"



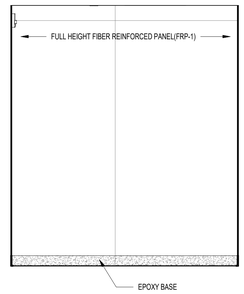
2 TOILET NORTH
1/2" = 1'-0"



3 TOILET EAST
1/2" = 1'-0"



4 TOILET SOUTH
1/2" = 1'-0"

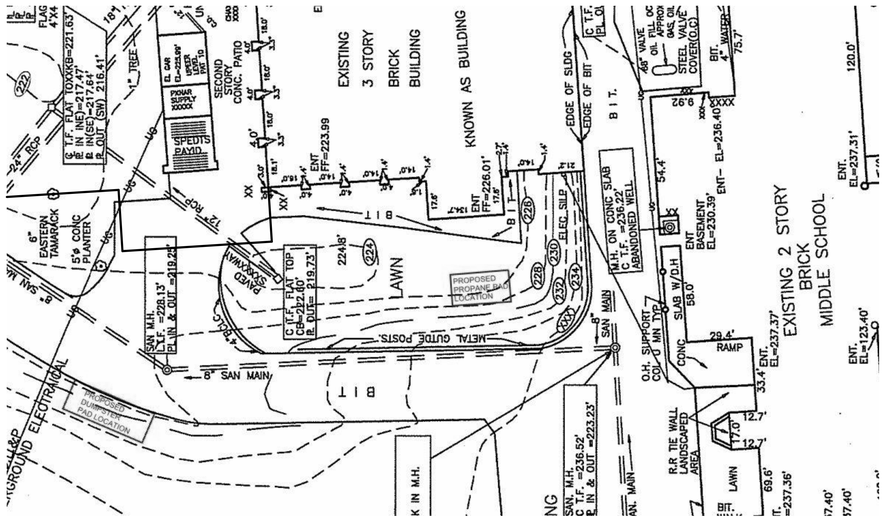


5 TOILET WEST
1/2" = 1'-0"

TOILET ACCESSORY SCHEDULE

TYPE	DESCRIPTION	MOUNTING HEIGHT	REMARKS
CH	STAINLESS STEEL SURFACE MOUNTED COAT HOOK	4' - 6" MAX	PROVIDE (1) AT TOILET ROOM DOOR
GB1	1 1/2" DIA. X 42" STAINLESS STEEL HORIZONTAL REAR GRAB BAR	33" - 36" AFF TO TOP OF BAR	1 1/2" CLEARANCE FROM WALL WITH CONCEALED MOUNTING
GB2	1 1/2" DIA. X 42" STAINLESS STEEL HORIZONTAL SIDE GRAB BAR	33" - 36" AFF TO TOP OF BAR	1 1/2" CLEARANCE FROM WALL WITH CONCEALED MOUNTING
GB3	1 1/2" DIA. X 18" STAINLESS STEEL VERTICAL GRAB BAR	BOTTOM OF GRAB BAR SHALL BE NO LESS THAN 3" ABOVE GB2	1 1/2" CLEARANCE FROM WALL WITH CONCEALED MOUNTING
HD1	SURFACE MOUNTED PAPER TOWEL DISPENSER	3' - 6" AFF TO CONTROLS	PROVIDE ONE AT ALL TOILET ROOM LOCATIONS, DISPENSER FURNISHED BY THE OWNER, INSTALLED BY THE GC
M1	18" X 36" STAINLESS STEEL FRAMED MIRROR	3' - 4" AFF TO BOTTOM OF REFLECTIVE SURFACE	PROVIDE ONE AT ALL ACCESSIBLE LAVATORY LOCATIONS
SD1	SURFACE MOUNTED SOAP DISPENSER	3' - 6" AFF TO CONTROLS	FURNISHED BY OWNER; INSTALLED BY GC
SNM	TAMPON AND SANITARY NAPKIN VENDING MACHINE	3' - 6" AFF TO CONTROLS	WHERE INDICATED ON DRAWINGS
SND	SURFACE MOUNTED SANITARY NAPKIN DISPOSAL	1' - 11" AFF TO TOP OF DISPOSAL	
TW	PAPER TOWEL DISPENSER	42" AFF MAX TO CONTROL HANDLE OR TOWEL OPENING	DISPENSER FURNISHED BY THE OWNER, INSTALLED BY THE GC
TT	SURFACE MOUNTED MULTI - ROLL TOILET TISSUE DISPENSER	24" AFF TO CENTER LINE OF DISPENSER	

NOTE:
1) SEE A002 AND PLUMBING DRAWINGS FOR PLUMBING FIXTURE MOUNTING HEIGHT VERIFICATION.



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GRANBY, CT

SCHOOL RENOVATIONS

STATE PROJECT NO:
056-0052 A

BID SET

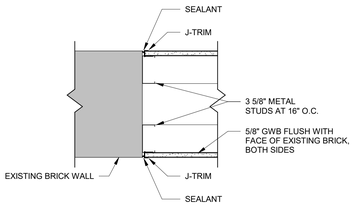
1/7/2022

STATE OF CONNECTICUT
JAMES A. BARRETT
NO. 10490
LICENSED ARCHITECT

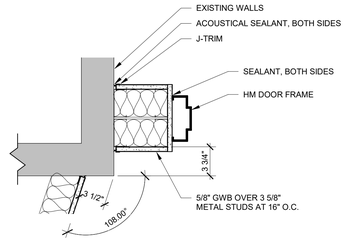
ENLARGED TOILET PLAN & PLAN DETAILS

Scale: AS NOTED
Job No.: 20210.00
Drawn By: DRA
Date: 1/7/2022

A501



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



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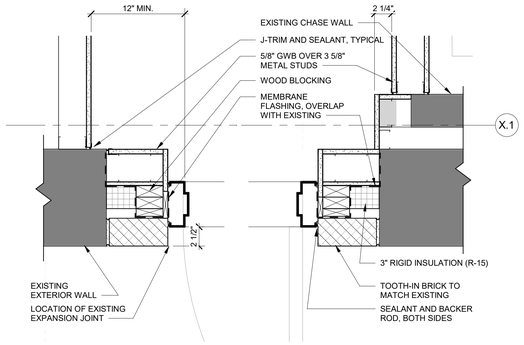
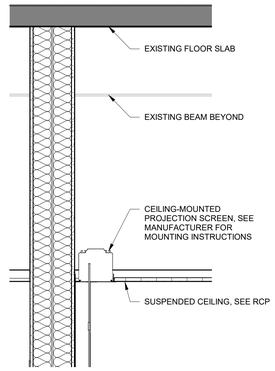
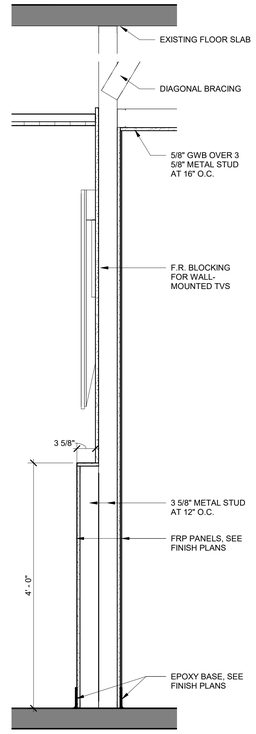
1 1/2" = 1'-0"



3 PLAN DETAIL
1 1/2" = 1'-0"



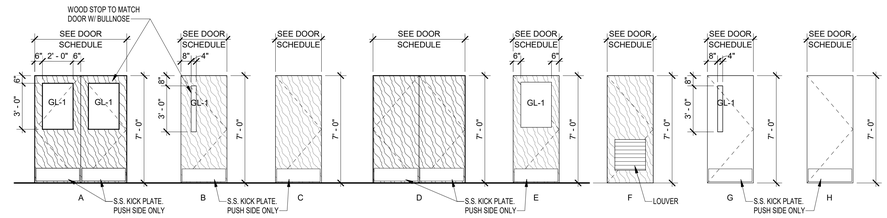
4 PROJECTION SCREEN
1" = 1'-0"



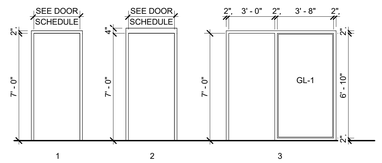
10 STEPPED WALL SECTION
1" = 1'-0"

DOOR SCHEDULE

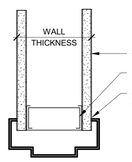
DOOR NO.	TO NO.	TO NAME	FROM NO.	FROM NAME	SIZE Width	SIZE Height	SIZE Thick.	Second Leaf	DOOR TYPE	DOOR MATERIAL	FRAME TYPE	FRAME MATERIAL	HEAD / JAMB DETAIL	FIRE RATING	SILL MATERIAL	COMMENTS
101A			102	CAFETERIA ENTRY	3' - 6"	7' - 0"	1 3/4"	3' - 6"	A	WD	1	HM	5/A701	--	N/A	
101B	100	CORRIDOR	101	CAFETERIA	3' - 0"	7' - 0"	1 3/4"	3' - 0"	A	WD	1	HM	9/A701	--	N/A	
104A			104	KITCHEN	3' - 6"	7' - 0"	1 3/4"		G	HM	2	HM	7/A701	--	ALUM	
105A	105	DRY GOODS STORAGE	104	KITCHEN	3' - 0"	7' - 0"	1 3/4"		H	HM	1	HM	5/A701	--	N/A	
106A	106	TOILET	104	KITCHEN	3' - 0"	7' - 0"	1 3/4"		C	WD	1	HM	5/A701	--	N/A	
107A	100	CORRIDOR	107	CHORAL ROOM	3' - 0"	7' - 0"	1 3/4"	3' - 0"	A	WD	1	HM	6/A701	--	N/A	
107B	107	CHORAL ROOM	100	CORRIDOR	3' - 0"	7' - 0"	1 3/4"		B	WD	1	HM	6/A701	--	N/A	
108A	108	OFFICE	107	CHORAL ROOM	3' - 0"	7' - 0"	1 3/4"		B	WD	1	HM	5/A701	--	N/A	
108B	108	OFFICE	113	INSTRUMENTAL ROOM	3' - 0"	7' - 0"	1 3/4"		B	WD	1	HM	5/A701	--	N/A	
109A	109	PRACTICE			3' - 0"	7' - 0"	1 3/4"		B	WD	1	HM	9/A701	--	N/A	
110A	110	PRACTICE	100	CORRIDOR	3' - 0"	7' - 0"	1 3/4"		B	WD	1	HM	6/A701	--	N/A	
112A	112	STORAGE	111	CORRIDOR	3' - 0"	7' - 0"	1 3/4"	3' - 0"	D	WD	1	HM	5/A701	--	ALUM	
113A	111	CORRIDOR	113	INSTRUMENTAL ROOM	3' - 0"	7' - 0"	1 3/4"	3' - 0"	A	WD	1	HM	6/A701	--	N/A	
113B	102	CAFETERIA ENTRY	113	INSTRUMENTAL ROOM	3' - 0"	7' - 0"	1 3/4"		B	WD	1	HM	6/A701	--	N/A	180 SWING DOOR
114A	114	STORAGE	113	INSTRUMENTAL ROOM	3' - 0"	7' - 0"	1 3/4"		C	WD	1	HM	5/A701	--	N/A	
115A	115	CUST.	102	CAFETERIA ENTRY	3' - 0"	7' - 0"	1 3/4"		C	WD	1	HM	5/A701	--	ALUM	
117A	102	CAFETERIA ENTRY	117	VOC TECH SHOP	3' - 0"	7' - 0"	1 3/4"	3' - 0"	A	WD	1	HM	5/A701	--	ALUM	
117B	121	CORRIDOR	117	VOC TECH SHOP	3' - 0"	7' - 0"	1 3/4"		B	WD	1	HM	5/A701	--	ALUM	180 SWING DOOR
118A	118	CULINARY ARTS	102	CAFETERIA ENTRY	3' - 0"	7' - 0"	1 3/4"		B	WD	1	HM	5/A701	--	ALUM	
118B	121	CORRIDOR	118	CULINARY ARTS	3' - 0"	7' - 0"	1 3/4"		B	WD	1	HM	5/A701	--	ALUM	
119A	119	OFFICE	118	CULINARY ARTS	3' - 0"	7' - 0"	1 3/4"		E	WD	3	HM	5/A701	--	ALUM	
120A	101	CAFETERIA			4' - 0"	7' - 0"	1 3/4"		F	WD	1	HM	5/A701	--	N/A	
121A	116	CORRIDOR	121	CORRIDOR	3' - 0"	7' - 0"	1 3/4"		B	WD	1	HM	5/A701	--	N/A	
123A	117	VOC TECH SHOP	123	DUST COLLECTOR	3' - 0"	7' - 0"	1 3/4"		C	WD	1	HM	5/A701	--	N/A	



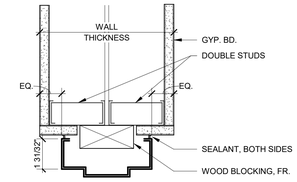
DOOR ELEVATIONS



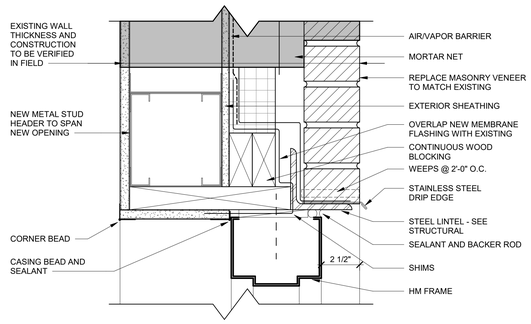
FRAME ELEVATIONS



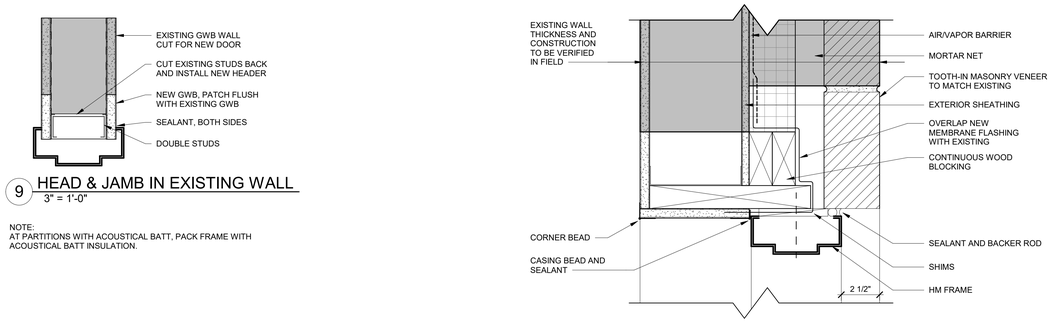
5 HEAD & JAMB
3" = 1'-0"



6 HEAD & JAMB
3" = 1'-0"



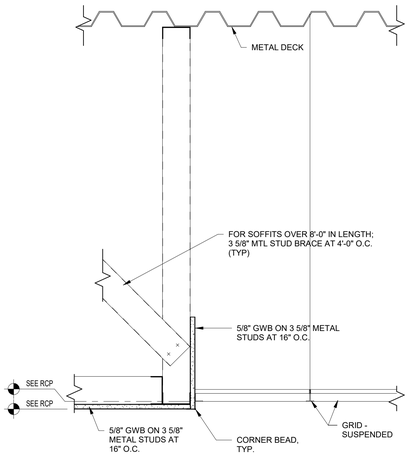
7 EXTERIOR HEAD
3" = 1'-0"



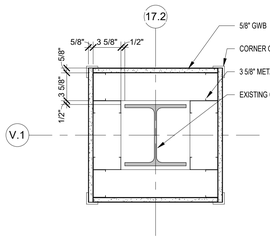
8 EXTERIOR JAMB
3" = 1'-0"

9 HEAD & JAMB IN EXISTING WALL
3" = 1'-0"

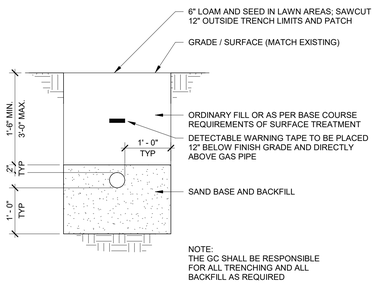
NOTE:
AT PARTITIONS WITH ACOUSTICAL BATT, PACK FRAME WITH ACOUSTICAL BATT INSULATION.



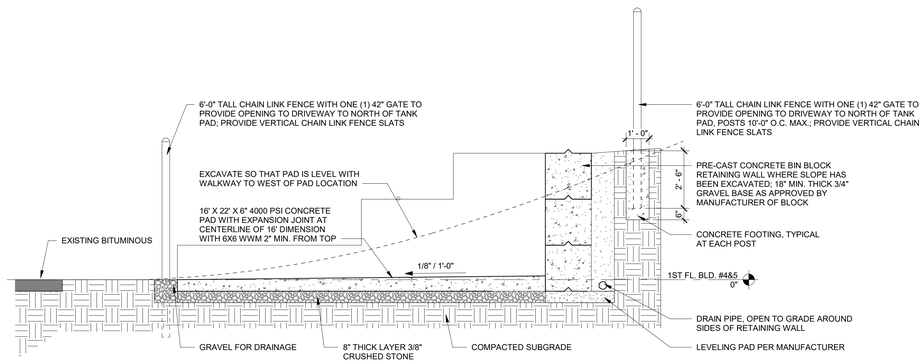
11 TYPICAL SOFFIT DETAIL
1 1/2" = 1'-0"



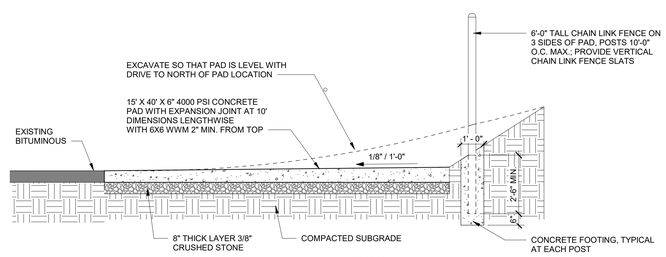
12 COLUMN ENCLOSURE
1 1/2" = 1'-0"



14 PIPE TRENCH DETAIL
3/4" = 1'-0"



13 PROPANE SLAB SECTION
3/8" = 1'-0"



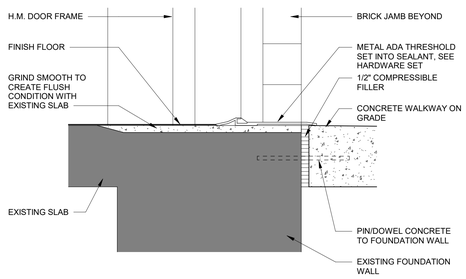
NOTES:
PLANT ARBORVIAE ALONG EAST, SOUTH AND WEST SIDES OF FENCE AS DIRECTED BY OWNER.

ABUT PAD AND LEVEL WITH EXISTING PAVING.

CUT AND FILL GRADE AS REQUIRED.

Arborvitae

15 DUMPSTER SLAB SECTION
3/8" = 1'-0"



16 EXTERIOR SILL DETAIL
3" = 1'-0"

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Planning Architecture Interior Design

GRANBY MEMORIAL HIGH SCHOOL

GRANBY, CT

SCHOOL RENOVATIONS

STATE PROJECT NO:
056-0052 A

BID SET

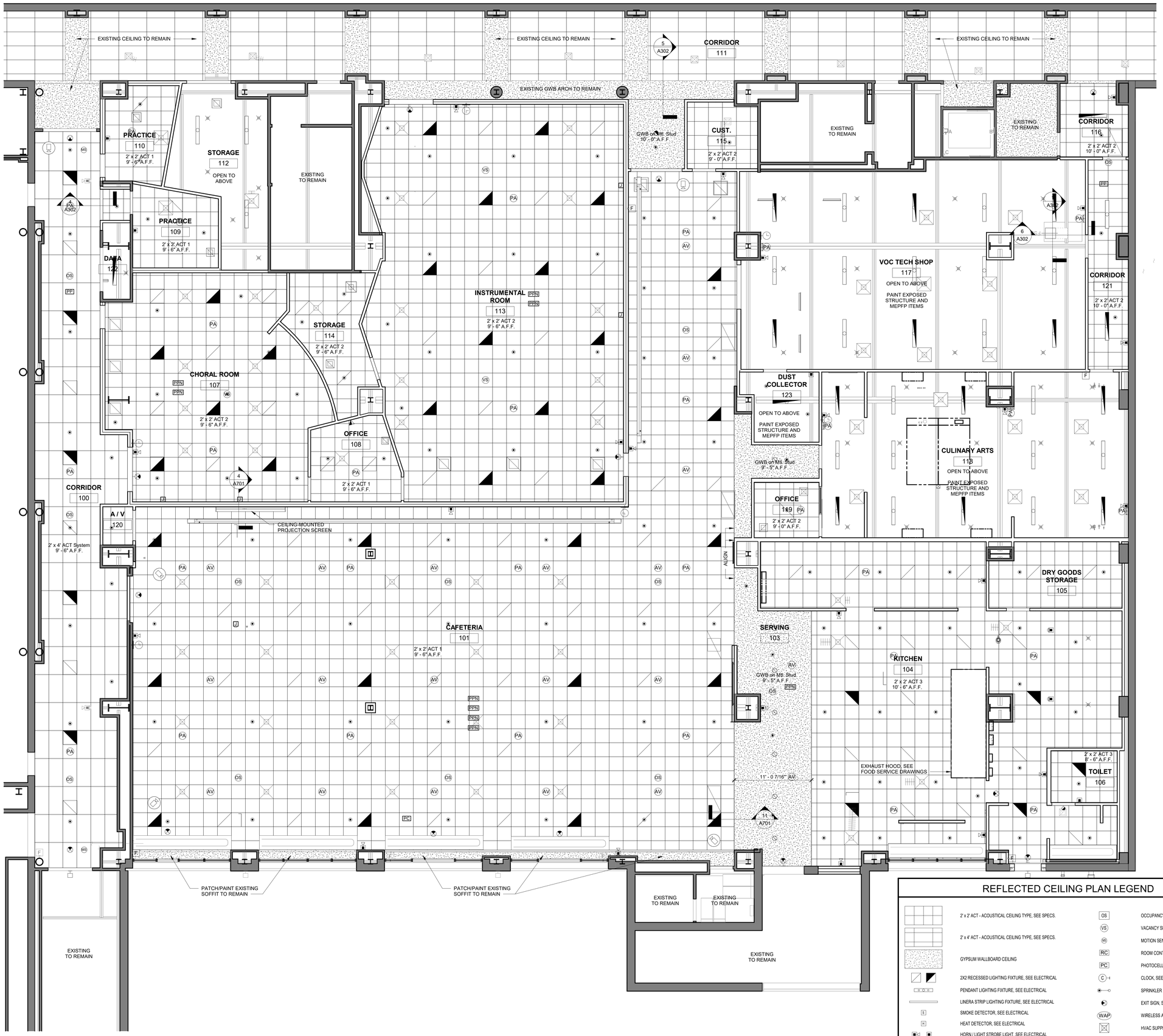
1/7/2022

STATE OF CONNECTICUT JAMES A. BARNES NO. 10495 LICENSED ARCHITECT

DOOR SCHEDULE & DETAILS

Scale: AS NOTED
Job No.: 20210.00
Drawn By: DRA
Date: 1/7/2022

A701



1 REFLECTED CEILING PLAN FIRST FLOOR
3/16" = 1'-0"

REFLECTED CEILING PLAN LEGEND

2' x 2' ACT - ACOUSTICAL CEILING TYPE, SEE SPECS.	OS — OCCUPANCY SENSOR - WALL, SEE ELECTRICAL
2' x 4' ACT - ACOUSTICAL CEILING TYPE, SEE SPECS.	VS — VACANCY SENSOR, SEE ELECTRICAL
GYPSUM WALLBOARD CEILING	MS — MOTION SENSOR, SEE ELECTRICAL
	RC — ROOM CONTROLLER, SEE ELECTRICAL
2X2 RECESSED LIGHTING FIXTURE, SEE ELECTRICAL	PC — PHOTOCELL, SEE ELECTRICAL
PENDANT LIGHTING FIXTURE, SEE ELECTRICAL	C — CLOCK, SEE TECHNOLOGY
LINERA STRIP LIGHTING FIXTURE, SEE ELECTRICAL	SPRINKLER HEADS, SEE FIRE PROTECTION
S — SMOKE DETECTOR, SEE ELECTRICAL	EXIT SIGN, SEE ELECTRICAL
H — HEAT DETECTOR, SEE ELECTRICAL	WAP — WIRELESS ACCWSS POINT, SEE TECHNOLOGY
HORN / LIGHT STROBE LIGHT, SEE ELECTRICAL	HVAC SUPPLY DIFFUSER, SEE MECHANICAL
S — SPEAKER, SEE TECHNOLOGY	HVAC RETURN DIFFUSER, SEE MECHANICAL
OS — OCCUPANCY SENSOR - CEILING, SEE ELECTRICAL	

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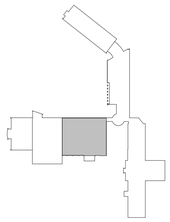
GRANBY MEMORIAL HIGH SCHOOL

GRANBY, CT

SCHOOL RENOVATIONS



KEY PLAN

STATE PROJECT NO:
056-0052 A

BID SET

1/7/2022

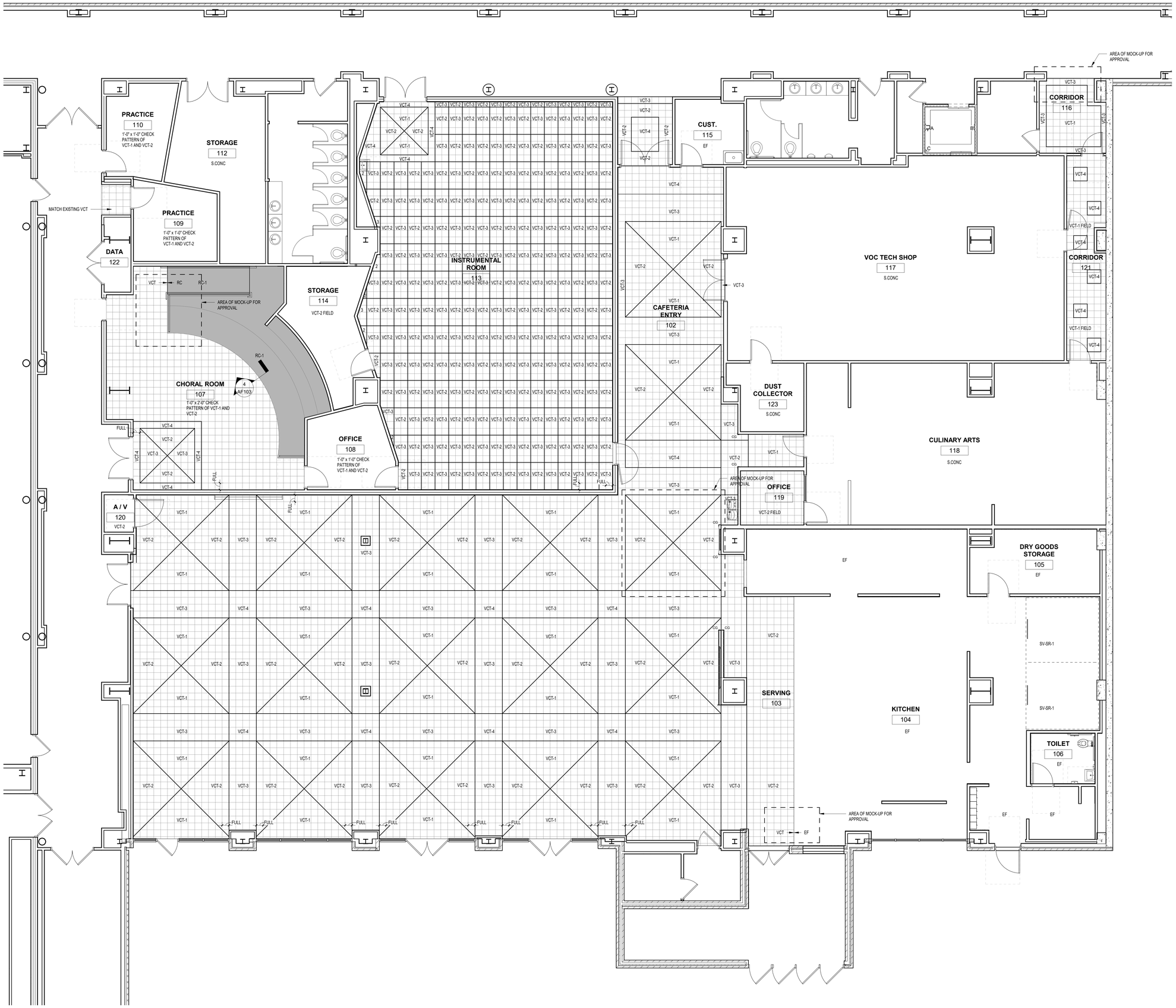
N
ACTUAL NORTH

STATE OF CONNECTICUT
JAMES A. BARRETT
NO. 10490
LICENSED ARCHITECT

REFLECTED CEILING PLAN

Scale: AS NOTED
Job No.: 20210.00
Drawn By: DRA
Date: 1/7/2022

A801



1 PARTIAL FIRST FLOOR PLAN
3/16" = 1'-0"

FLOOR FINISH ABBREVIATION

EF	EPOXY FLOORING
RC	RESILIENT CARPET
SV-SR	SLIP RESISTANT SHEET VINYL
S.CONC	SEALED CONCRETE
VCT	VINYL COMPOSITION TILE

FLOOR FINISH LEGEND

ARMSTRONG STANDARD EXCELON IMPERIAL TEXTURE

VCT-1 = SHELTER WHITE #51836_3A
VCT-2 = FIELD GRAY #51927
VCT-3 = CHARCOAL #51915
VCT-4 = CHERRY RED #51816

FORBO FLOTEX CANYON

RC-1 = TBD

ALTRO STRONGHOLD 30

SV-SR-1 = TBD

DUR-A-FLEX POLY-CRETE MDB

EF-1 = TBD

GENERAL NOTES:

1. ALL FINISHES SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS FOR THE SPECIFIC SUBSTRATE.
2. PRODUCTS INDICATED ARE BASIS OF DESIGN REFER TO SPECIFICATIONS FOR ACCEPTABLE COMPARABLE PRODUCTS AND/OR PERFORMANCE REQUIREMENTS.
3. ALL FLOOR FINISH CHANGES SHALL OCCUR UNDER CENTERLINE OF DOOR IN CLOSED, OR POSITION OF AT THE CENTERLINE OF AN OPENING WHERE NO DOOR OCCURS UNLESS NOTED OTHERWISE.
4. REFER TO BASE DETAILS AND TRANSITION DETAIL FOR ADDITIONAL INFORMATION.
5. PROVIDE FLOORING MOCK-UPS AS SPECIFIED AND SHOWN ON DRAWINGS.
6. ALL PRELIMINARY COLOR SELECTIONS UPON APPROVAL DURING CONSTRUCTION.
7. VINYL COMPOSITION TILE TO RUN MONOLITHICALLY.

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Planning Architecture Interior Design

GRANBY MEMORIAL HIGH SCHOOL

GRANBY, CT

SCHOOL RENOVATIONS

STATE PROJECT NO:
056-0052 A

BID SET

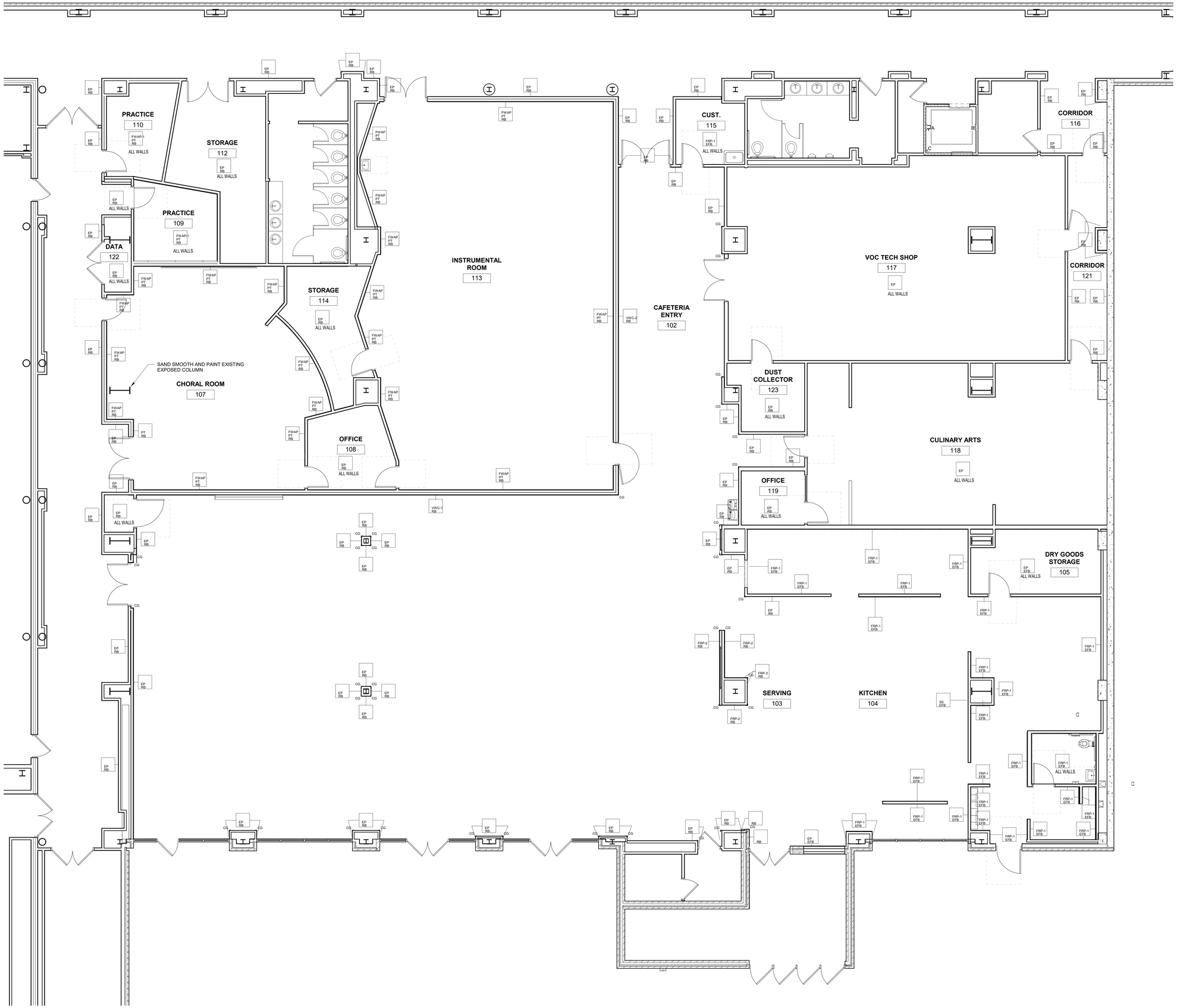
1/7/2022

STATE OF CONNECTICUT
JAMES A. BARNES
NO. 10495
LICENSED ARCHITECT

FLOOR FINISHES PLAN

Scale: AS NOTED
Job No.: 20210.00
Drawn By: DRA
Date: 1/7/2022

AF101



1 PARTIAL FIRST FLOOR PLAN
3/16" = 1'-0"

WALL FINISH LEGEND	
TAG	DESCRIPTION
EP RB	EPOXY PAINT W/ RESILIENT BASE.
EP RB	EPOXY PAINT W/ RESILIENT BASE.
EP EFB	EPOXY PAINT W/ EPOXY BASE.
FRP-1 EFB	FULL HEIGHT FIBERGLASS REINFORCED PANEL(FRP-1) W/ EPOXY BASE.
FRP-2 RB	FULL HEIGHT FIRBERGLASS REINFORCED PANEL(FRP-2) W/ RESILIENT BASE.
FWAP PT RB	FABRIC WRAPPED ACOUSTICAL PANELS AND PAINT W/ RESILIENT BASE.
FWAP-1 PT RB	FABRIC WRAPPED ACOUSTICAL PANEL(FWAP-1) AND PAINT W/ RESILIENT BASE.
VWC-2 RB	PAINT W/ RESILIENT BASE.
RB	RESILIENT BASE
SS EFB	FULL HEIGHT STAINLESS STEEL W/ EPOXY BASE.
VWC-1 RB	FULL HEIGHT VINYL WALLCOVERING (VWC-1) W/ RESILIENT BASE.
VWC-2 RB	FULL HEIGHT VINYL WALLCOVERING (VWC-2) W/ RESILIENT BASE.

VINYL WALL COVERING

VWC-1 FINISH:
MANUFACTURER: WOLFGORDON
MODEL: DIGITAL RAMPART
COLOR: CUSTOM

VWC-2 FINISH:
MANUFACTURER: WOLFGORDON
MODEL: DIGITAL RAMPART
COLOR: CUSTOM

SOUND ABSORBING PANELS LEGEND

FWAP-1 FINISH:
MANUFACTURER: KNOLL TEXTILES
MODEL: HOURGLASS
COLOR: TBD
THICKNESS: 1" PANELS

FWAP-2 FINISH:
MANUFACTURER: KNOLL TEXTILES
MODEL: HOURGLASS
COLOR: TBD
THICKNESS: 1" PANELS

FWAP-3 FINISH:
MANUFACTURER: KNOLL TEXTILES
MODEL: HOURGLASS
COLOR: TBD
THICKNESS: 2" PANELS

FWAP-4 FINISH:
MANUFACTURER: KNOLL TEXTILES
MODEL: HOURGLASS
COLOR: TBD
THICKNESS: 1" PANELS

FIBERGLASS REINFORCED PANEL LEGEND

FRP-1 FINISH:
MANUFACTURER: CRANE SURFACE SYSTEM
MODEL: GLASSBORD FX WALL PANELS WITH SURFASEAL FINISH
TEXTURE: PEBBLED EMBOSSED TEXTURE
COLOR: TBD

FRP-2 FINISH:
MANUFACTURER: CRANE SURFACE SYSTEM
MODEL: DESIGNS - CLASSIC COLLECTIONS WALL PANELS - CANVAS PATTERNS
COLOR: TBD

GENERAL NOTES:

1. ALL FINISHES SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTION AND RECOMMENDATIONS FOR THE SPECIFIC SUBSTRATE.
2. PRODUCTS INDICATED ARE BASIS OF DESIGN; REFER TO SPECIFICATIONS FOR ACCEPTABLE COMPARABLE PRODUCTS AND/OR PERFORMANCE REQUIREMENTS.
3. ALL CONCRETE AND CMU WALLS SHALL RECEIVE ONE (1) COAT BLOCK FILLER/PRIMER AND TWO (2) FINISH COATS PAINT AS SPECIFIED.
4. GYPSUM WALL BOARD TO BE FINISHED WITH ONE (1) COAT PRIMER AND TWO (2) FINISH COATS PAINT AS SPECIFIED.
5. ALL HOLLOW METAL FRAMES ARE TO BE PAINTED. ALUMINUM GLAZING SYSTEM ARE FACTORY FINISHED.
6. ALL CUSTOM MILLWORK SHALL RECEIVE RESILIENT BASE UNLESS OTHERWISE NOTED.
7. ALL CASEWORK SHALL RECEIVE RESILIENT BASE. AT ALL SINK CABINETS, CONTINUE WALL BASE AND FLOORING INTO SPACE BENEATH SINK, TYP.
8. REFER TO INTERIOR ELEVATIONS FOR LOCATION OF TACKBOARDS, ACOUSTICAL WALL PANELS, AND MARKER BOARDS.
9. SEE INTERIOR ELEVATION FOR ADDITIONAL INFORMATION.
10. ALL PRELIMINARY COLOR SELECTIONS UPON APPROVAL DURING CONSTRUCTION.
11. PROVIDE CORNER GUARDS AT ALL EXPOSED GWB OUTSIDE CORNERS.
12. EXPOSED TO VIEW MEP AND FP SYSTEMS, INCLUDING BUT NOT LIMITED TO SPRINKLER PIPES AND ELECTRICAL CONDUITS, SHALL BE PAINTED TO MATCH ADJOINING SURFACES.
13. PATCH EXISTING PARTITION IMPERFECTIONS PRIOR TO PAINTING.

CG = CORNER GUARD

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Planning Architecture Interior Design

GRANBY MEMORIAL HIGH SCHOOL

GRANBY, CT

SCHOOL RENOVATIONS

STATE PROJECT NO:
056-0052 A

BID SET

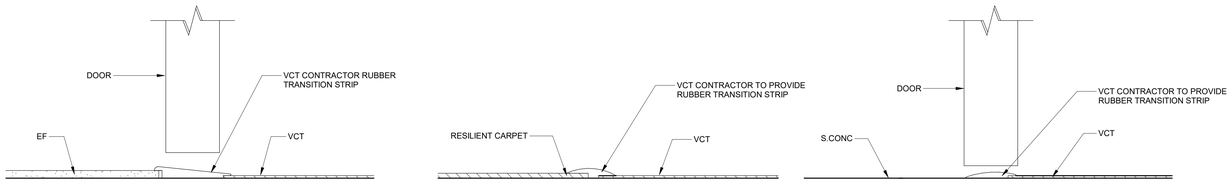
1/7/2022

STATE OF CONNECTICUT
JAMES A. BARNES
NO. 10495
LICENSED ARCHITECT

WALL FINISHES PLAN

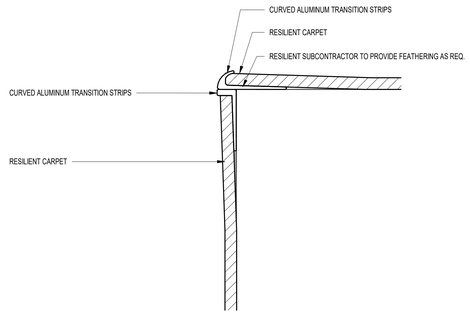
Scale: AS NOTED
Job No.: 20210.00
Drawn By: DRA
Date: 1/7/2022

AF102

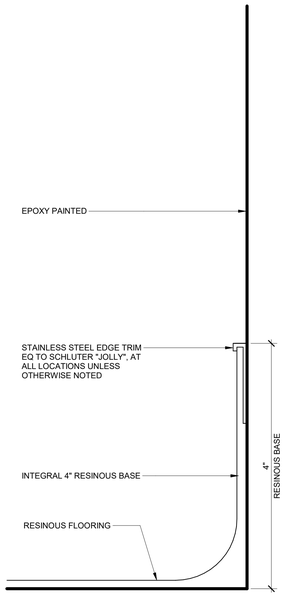


EF / VCT **RC / VCT** **S.CONC / VCT**

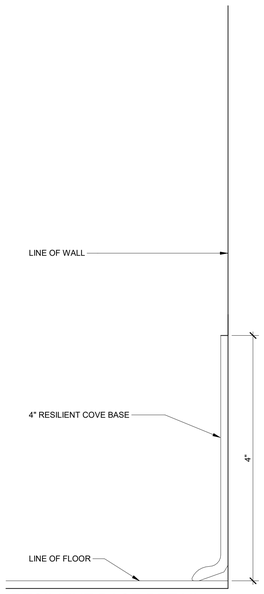
3 TRANSITION DETAILS
6" = 1'-0"



4 STAIR DETAILS IN CHORAL ROOM
12" = 1'-0"



2 EPOXY BASE DETAILS
12" = 1'-0"



1 RESILIENT BASE DETAIL
12" = 1'-0"

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Planning Architecture Interior Design

GRANBY MEMORIAL HIGH SCHOOL

GRANBY, CT

SCHOOL RENOVATIONS

STATE PROJECT NO:
056-0052 A

BID SET

1/7/2022

STATE OF CONNECTICUT
JAMES A. BARRETT
NO. 10490
LICENSED ARCHITECT

FINISH DETAILS

Scale: AS NOTED
Job No.: 20210.00
Drawn By: DRA
Date: 1/7/2022

AF103

SCHEDULE OF FOODSERVICE EQUIPMENT & CONNECTIONS

Item	Qty	Description	Plumbing	Electrical	Mechanical / Equipment Remarks
1	1	Mop Sink & Faucet (by PC)	1/2" H&CW; Drain in Floor		PC to install on sub-floor prior to finished floor with coved base (by GC)
2	1	Utility Shelf			Requires wall blocking by GC (See Special Conditions Plan)
3	1	Mop Bucket (by Owner)			
4	1	Detergent Storage Cabinet			Requires wall blocking by GC (See Special Conditions Plan)
5	1	Front Load Clothes Dryer		30 A circuit - 120/240/1 - C&P	4" diameter dryer vent
6	1	Front Load Clothes Washer	1/2" H&CW; Standpipe W	20 A circuit - 120/1 - C&P	
7	5	Lockers (by GC)			Requires wall blocking by GC (See Special Conditions Plan)
8	27	Stainless Steel Corner Guard			
9	1	-spare number-			
10	1	Walk-in Cooler		1.1 KW - 120/1 (lights, temp. monitor/alarm, etc); Low voltage wiring from temperature monitor to BMS	Requires floor recess by GC (See Special Conditions Plan)
11	1	Walk-in Freezer		1.3 KW - 120/1 (lights, temp. monitor/alarm, etc); 20 A circuit - 120/1 (drain line heat trace); Low voltage wiring from temperature monitor BMS	Requires floor recess by GC (See Special Conditions Plan)
12	1	Mechanical Refrigeration System			
12a	1	Cooler Evaporator Coil	3/4" IW to FD	1 A - 208/1; Low voltage wiring from evaporator coil controller to BMS	Remote refrigeration from Item 12b by KEC
12b	1	Cooler Condensing Unit		5.2 A - 0.8 HP - 208/3	Mounted on roof - See Detail 1/FS111
12c	1	Freezer Evaporator Coil	3/4" IW to FD	9.1 A - 208/1; Low voltage wiring from evaporator coil controller to BMS	Remote refrigeration from Item 12d by KEC
12d	1	Freezer Condensing Unit		9.7 A - 2.5 HP - 208/3	Mounted on roof - See Detail 1/FS111
13	12	Mobile Shelving Unit, Four-Tier			
14	6	Mobile Dunnage Rack			
15	11	Dry Storage Shelving			
16	2	Dunnage Rack			
17	1	-spare number-			
18	1	-spare number-			
19	1	Ice Cuber	3/8" filtered CW (from Item 21); 3/4" IW to Floor Pan (Item 22)	5.5 A - 208/1	
20	1	Ice Bin	3/4" IW to Floor Pan (Item 22)		
21	1	Water Filter Assembly	3/8" CW		PC to branch filtered CW output supply piping to Item 19; Requires wall blocking by GC (See Special Conditions Plan)
22	1	Floor Pan & Grate	3" W conn 7" BFF		Requires floor recess by GC
23	1	Prep Table with Sinks	1/2" H&CW; 2" IW to FS	(2) 20 A circuit - 120/1 wall mounted convenience outlet	
24	1	Wall Shelf			Requires wall blocking by GC (See Special Conditions Plan)
25	1	Food Processor		12 A - 120/1 - C&P (from convenience outlet)	
26	1	Trash Barrel (by Owner)			
27	2	Hand Sink	1/2" H&CW; 1-1/2" W		Requires wall blocking by GC (See Special Conditions Plan)
28	3	Waste Bin (by Owner)			
29	2	Mobile Work Table			
30	1	Drop Cord Assembly		20 A circuit - 120/1	Coordination required between EC & GC to mount to ceiling
31	1	ADA Prep Table with Sinks	1/2" H&CW; 2" IW to FS	(2) 20 A circuit - 120/1 wall mounted convenience outlet	
32	1	ADA Hand Sink	1/2" H&CW; 1-1/2" W		Requires wall blocking by GC (See Special Conditions Plan)
33	1	Office Desk (by GC)		Verify requirements for Office Equipment by Others	
34	1	File Cabinet (by GC)			
35	3	Bun Pan Rack			
36	1	-spare number-			
37	2	Double Convection Oven	3/4" G @ 100 MBTU; QD	(2) 8 A - 120/1 - C&P	Provided with quick disconnect gas hose assembly
38	1	Forty Gallon Braising Pan	1/2" G @ 144 MBTU; 1/2" H&CW	5 A - 120/1	
39	1	Floor Pan & Grate	3" W conn 7" BFF		Requires floor recess by GC
40	1	Four-Burner Range with Oven	3/4" G @ 143 MBTU; QD	0.1 A - 120/1 - C&P	Provided with quick disconnect gas hose assembly
41	1	Exhaust Ventilator		Power to lights from Item 45	EXH: 3,642 CFM thru (2) 14" dia. collars @ -0.792" SP; Coordinate support from structure above for hood hangers by KEC
43	1	Stainless Steel Wall Flashing			
44	1	Fire Suppression System		120/1; J-box for connection to building alarm system & equipment shutdown	Protection for Item 41; Requires wall blocking by GC (See Special Conditions Plan)
45	1	Ventilator Demand Control System		15 A circuit - 120/1	Control for Item 41; Requires wall blocking by GC (See Special Conditions Plan)
45a	1	Demand Control System Interface Screen		Cable from Item 45	Cable provided with system
45b	1	Room Temperature Sensor		Wiring from Item 45	
46	1	Fire Suppression System		120/1; J-box for connection to building alarm system & equipment shutdown	Protection for Item 71; Requires wall blocking by GC (See Special Conditions Plan)
47	1	Ventilator Demand Control System		15 A circuit - 120/1 (see Note E-47 on Sheet FS111)	Control for Item 71; Requires wall blocking by GC (See Special Conditions Plan)
47a	1	Demand Control System Interface Screen		Cable from Item 47	Cable provided with system
47b	1	Room Temperature Sensor		Wiring from Item 47	
48	1	-spare number-			
49	1	Cook's Work Table with Overshelf		(4) 20 A circuit - 120/1 table mounted DR by KEC (stub-up)	
50	5	Trash Barrel (by Owner)			
51	1	Work Table		(2) 20 A circuit - 120/1 table mounted DR by KEC (stub-up)	
52	1	Ceiling Mounted Utensil Rack			Provisions required by GC to mount to structure above
53	2	Mobile Equipment Stand			
54	1	Slicer		5.6 A - 120/1 - C&P (from mounted DR at Item 49)	
55	1	Twenty-Quart Mixer		8 A - 120/1 - C&P (from mounted DR at Item 51)	
56	1	Pass-Thru Warming Cabinet		13 A - 208/1 - C&P (NEMA L14-20P)	
57	1	Pass-Thru Refrigerator		6.5 A - 120/1 - C&P	
58	1	Work Table with Overshelf		(2) 20 A circuit - 120/1 table mounted DR by KEC (stub-up)	
59	1	Pass-Thru Warming Cabinet		6.3 A - 208/1 - C&P (NEMA 6-20P)	
60	1	Pass-Thru Refrigerator		6.5 A - 120/1 - C&P	
61	1	Trash Bin (by Owner)			
62	1	Deli Serving Counter		(4) 20 A circuit - 120/1 mounted DR by KEC (stub-up)	
63	1	Sandwich Prep Refrigerator		5.4 A - 120/1 - C&P (from mounted DR at Item 62)	
64	1	Vertical Glass Food Protector with Top Shelf			

SCHEDULE OF FOODSERVICE EQUIPMENT & CONNECTIONS

Item	Qty	Description	Plumbing	Electrical	Mechanical / Equipment Remarks
65	1	Drop-in Hot Food Well	1" IW to FS	10 A - 1.2 KW - 120/1 - C&P (from mounted DR at Item 62)	
66	1	Drop-in Frost Top	1" IW to FS	3.8 A - 120/1 - C&P (from mounted DR at Item 62)	
67	1	Convertible Glass Food Protector			
68	1	Hot Food Serving Counter		(4) 20 A circuit - 120/1 mounted DR by KEC (stub-up)	
69	1	Two-Tier Heated Display Shelf		15.1 A - 120/1 - C&P (from mounted DR at Item 68)	
70	1	Drop-in Electric Griddle		50 A - 18.0 KW - 208/3 (stub-up)	
71	1	Exhaust Ventilator		Power to lights from Item 47	EXH: 1,800 CFM thru a 14" dia. collar @ -0.854" SP; Coordinate support from structure above for hood hangers by KEC
72	4	Drop-in Hot Food Well (mounted in group)	1" IW manifold to FS	3.6 KW - 208/1 (total for group) (stub-up)	
73	1	Fill Faucet	1/2" HW (stub-up)		
74	1	Full Service Glass Food Protector			
75	1	Heated Black Glass Surface		7.1 A - 120/1 - C&P (from mounted DR by KEC)	
76	1	Convertible Glass Food Protector with Warmer		5.3 A - 1.1 KW - 208/1 (stub-up)	
77	1	Vertical Glass Food Protector			
78	1	Milk Cooler		3.3 A - 120/1 - C&P	
79	1	Grab & Go Display Refrigerator		16 A - 120/1 - C&P (NEMA L5-20P) (floor receptacle)	
80	1	Cashier Stand			
81	2	Cashier Terminal (by Owner)		20 A circuit - 120/1 - C&P (floor receptacle); Data cable (floor receptacle)	GC to confirm & coordinate data start points and line runs
82	1	Mobile Condiment Counter			
83	2	Portable Taffic Barrier Stanchion (set of two)			
84	1	Soiled Ware Table w/ Sink & Integral Pass-Thru Frame	2" W		
85	1	Roll-Down Shutter			Requires wall blocking by GC (See Special Conditions Plan)
86	1	Hose Reel Assembly	1/2" H&CW		Requires wall blocking by GC (See Special Conditions Plan)
87	1	Warewasher	1/2" HW; 1/2" CW (drain tempering); 2" IW to FS	68 A - 480/3; J-box for EXH fan control wiring to interlock with warewasher operation	EXH: 200 CFM (load end) & 400 CFM (unload end) thru (2) 4" x 16" collars @ 0.25 SP; Provided with drain water tempering system
88	2	Stainless Steel Exhaust Duct			
89	1	Clean Ware Table			
90	1	-spare number-			
91	4	Utility Cart			
92	5	Mobile Shelving Unit, Four-Tier			
93	1	Three-Compartment Sink	(2) 3/4" 120°F H&CW; (3) 2" IW manifold to FS		
94	1	Wall Shelf			Requires wall blocking by GC (See Special Conditions Plan)
95	1	-spare number-			
96	1	-spare number-			
97	1	-spare number-			
98	1	-spare number-			
99	1	-spare number-			
100	1	-spare number-			
101	1	Refrigerator, Reach-In		6.5 A - 120/1 - C&P	
102	1	Freezer, Reach-In		10.5 A - 120/1 - C&P	
103	1	Mobile Shelving Unit, Four-Tier			
104	1	Stacked Clothes Washer/Dryer	1/2" H&CW; Standpipe W	20 A circuit - 120/1 - C&P; 30 A circuit - 120/240/1 - C&P	4" diameter dyer vent
105	1	Warewasher	3/4" HW; 5/8" IW to FS	30.5 A - 120/208/1 - C&P	
106	1	Pre-Rinse Spray with Add-on Facuet	3/4" 120°F H&CW		Requires wall blocking by GC (See Special Conditions Plan)
107	1	Three-Compartment Sink	3/4" 120°F H&CW; (3) 2" IW manifold to FS		
108	1	Wall Shelf			Requires wall blocking by GC (See Special Conditions Plan)
109	1	Waste Bin (by Owner)			
110	1	ADA Hand Sink	1/2" H&CW; 1-1/2" W		Requires wall blocking by GC (See Special Conditions Plan)
111	1	-spare number-			
112	1	-spare number-			
113	3	Dry Storage Shelving			
114	4	Mobile Work Table			
115	4	Work Table			
116	4	Four-Burner Range with Oven	3/4" G @ 143 MBTU; QD		Provided with quick disconnect gas hose assembly
117	2	Work Table			For gas supply main from above
118	1	Stainless Steel Utility Chase			
119	1	Exhaust Ventilator		Power to lights from Item 121	EXH: 1,912 CFM thru a 14" dia. collar @ -0.786" SP; Coordinate support from structure above for hood hangers by KEC
120	1	Exhaust Ventilator		Power to lights from Item 121	EXH: 1,912 CFM thru a 14" dia. collar @ -0.786" SP; Coordinate support from structure above for hood hangers by KEC
121	1	Fire Suppression System		120/1; J-box for connection to building alarm system & equipment shutdown	Protection for Items 119 & 120; Requires wall blocking by GC (See Special Conditions Plan)
122	1	Ventilator Demand Control System		15 A circuit - 120/1	Control for Items 119 & 120; Requires wall blocking by GC (See Special Conditions Plan)
122a	1	Demand Control System Interface Screen		Cable from Item 122	Cable provided with system
122b	1	Room Temperature Sensor		Wiring from Item 122	
123	1	-spare number-			
124	1	-spare number-			
125	4	Wall Cabinet With Hinged Doors			Requires wall blocking by GC (See Special Conditions Plan)
126	1	Work Counter with Sinks	(2) 1/2" H&CW; 2" IW to FS; 1-1/2" IW to FS	(6) 20 A circuit - 120/1 wall mounted convenience DR	
127	1	Work Counter with Sinks	(2) 1/2" H&CW; 2" IW to FS; 1-1/2" IW to FS	(6) 20 A circuit - 120/1 wall mounted convenience DR	
128	1	Stainless Steel Wall Oven Cabinet			
129	1	Wall Oven (by GC)		20 A - 3.2 KW - 208/1	Verify utility requirements for equipment by Others
130	1	Mobile Demonstration Counter with Mirror			
131	1	Beverage Table		(3) 20 A circuit - 120/1 wall mounted convenience DR	
133	8	Storage Cubbies (by GC)			

SCHEDULE NOTES

1) UTILITIES SHOWN IN THESE SCHEDULES ARE SPECIFIC TO THE PRIME MANUFACTURER LISTED IN THE WRITTEN SPECIFICATION SECTION 114000. IF EQUIPMENT FROM AN ALTERNATE MANUFACTURER IS PROVIDED, IT IS THE RESPONSIBILITY OF THE KITCHEN EQUIPMENT CONTRACTOR TO COORDINATE AND SUBMIT TO THE PROJECT DESIGN TEAM FOR REVIEW.

2) UTILITIES LISTED ON THIS SCHEDULE FOR OWNER FURNISHED OR VENDOR SUPPLIED EQUIPMENT ARE ESTIMATES ASSUMED FOR ENGINEERING PURPOSES ONLY. IT IS THE RESPONSIBILITY OF THE OWNER TO PROVIDE EQUIPMENT CUT SHEETS OF THIS EQUIPMENT TO CRABTREE-MCGRATH ASSOCIATES PRIOR TO CONSTRUCTION.

3) INSTALLING SUB-CONTRACTORS MUST NOTIFY CRABTREE-MCGRATH ASSOCIATES IF A UTILITY REQUIREMENT LISTED ON THIS EQUIPMENT SCHEDULE IS NOT AVAILABLE.

4) REFER TO THE ABBREVIATIONS NOTES PROVIDED ON THIS SHEET FOR CLARIFICATION OF ABBREVIATIONS USED WITHIN THIS EQUIPMENT SCHEDULE.

Abbreviations used:

A	Amperes	EXH	Exhaust	IW	Indirect waste
AFF	Above finished floor	FD	Floor drain	KEC	Kitchen Equip. Contractor
BFF	Below finished floor	FFD	Funnel floor drain	KW	Kilowatt
BTC	Branch to connection	FHW	Fahrenheit hot water	MBTU	BTU per hour/1000
C&P	Cord & plug provided	FS	Floor sink	MUA	Make-up air
CFM	Cubic feet per minute	G	Gas	PC	Plumbing Contractor
CR	Condensate return	GC	General Contractor	QD	Quick disconnect
CW	Cold water	GI	Grease interceptor	SP	Static pressure (WG)
DFA	Drop from above	HP	Horsepower	SR	Single receptacle
DR	Duplex receptacle	HW	Hot water	SS	Steam supply
EC	Electrical contractor	H&CW	Hot & cold water	W	Waste (direct connection)

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Planning Architecture Interior Design

GRANBY MEMORIAL HIGH SCHOOL

GRANBY, CT

SCHOOL RENOVATIONS

STATE PROJECT NO:
056-0052 A

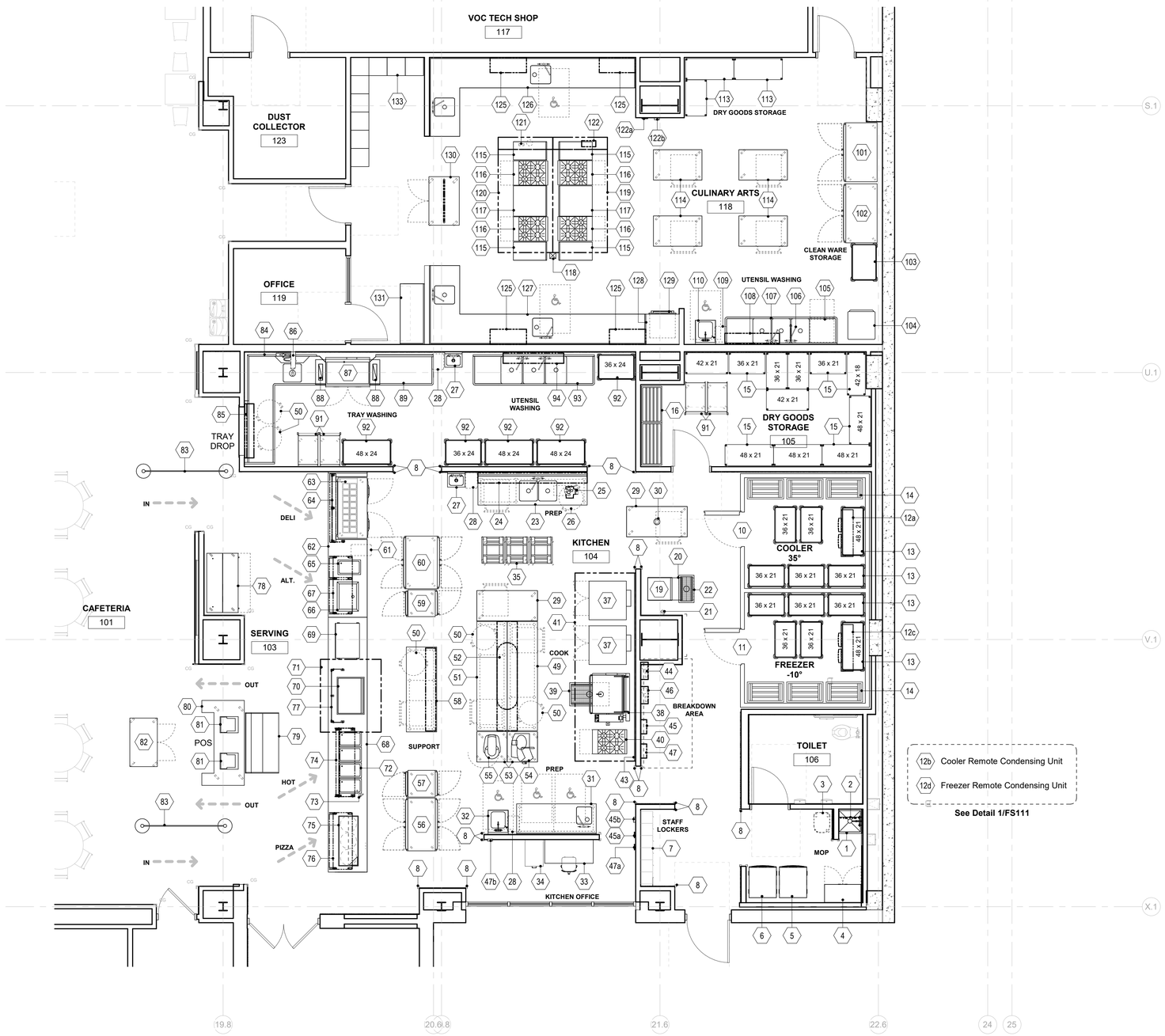
BID SET

1/7/2022

FOODSERVICE EQUIPMENT SCHEDULE

Scale: AS NOTED
Job No.: 20210.00
Drawn By: DRA
Date: 1/7/2022

FS100

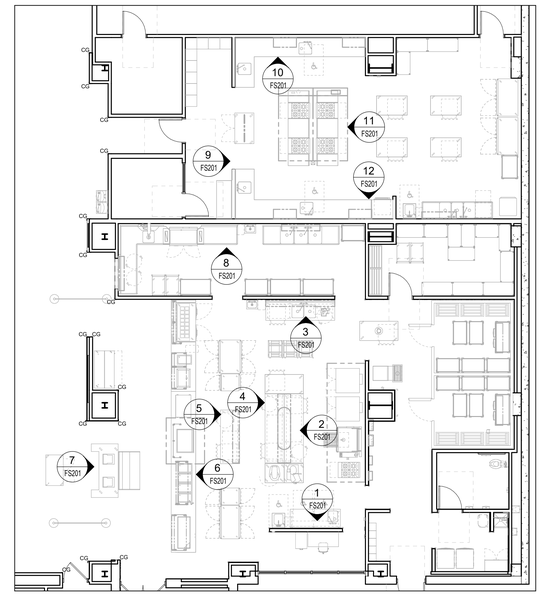


FOODSERVICE EQUIPMENT PLAN
1/4" = 1'-0"

12b Cooler Remote Condensing Unit

12d Freezer Remote Condensing Unit

See Detail 1/FS111



Elevation Key
1/8" = 1'-0"

PLAN NOTES

1) IT IS THE RESPONSIBILITY OF THE KITCHEN EQUIPMENT CONTRACTOR TO FIELD VERIFY THE DELIVERY PATH OF ALL EQUIPMENT WITHIN THEIR SCOPE WITH BUILDING CONDITIONS PRIOR TO ORDERING TO CONFIRM ALL EQUIPMENT FITS WITHIN THE DESIGNATED SPACE AS LOCATED ON PLANS.

2) KITCHEN EQUIPMENT CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR AS NECESSARY FOR OPENINGS IN BUILDING, WALL LEAVE OUTS, DOOR WIDTHS AND HEADER HEIGHTS REQUIRED FOR DELIVERY AND INSTALLATION MEANS.

3) FINISHES TO ALL WALLS, FLOORS AND CEILINGS ARE TO BE PROVIDED BY THE GENERAL CONTRACTOR AS SPECIFIED BY THE PROJECT ARCHITECT TO MEET THE REQUIREMENTS OF THE LOCAL HEALTH DEPARTMENT.

4) REVISIONS TO THESE PLANS DUE TO FIELD CONDITIONS MUST BE SUBMITTED TO THE PROJECT DESIGN TEAM FOR REVIEW AND APPROVAL PRIOR TO PROCEEDING WITH CONSTRUCTION.

5) FLOORING MATERIAL SPECIFIED BY THE ARCHITECT MUST BE PROVIDED WITH A COVED BASE AT ALL WALLS TO INCLUDE THE INTERIOR AND EXTERIOR OF WALK-IN REFRIGERATED ROOMS.

6) ALL FOODSERVICE EQUIPMENT AND CUSTOM FABRICATED ITEMS MUST MEET THE STANDARDS OF THE NATIONAL SANITATION FOUNDATION AND SHALL BE LABELED ACCORDINGLY.

Abbreviations used:

A	Amperes	EXH	Exhaust	IW	Indirect waste
AFF	Above finished floor	FD	Floor drain	KEC	Kitchen Equip. Contractor
BFF	Below finished floor	FFD	Funnel floor drain	KW	Kilowatt
BTC	Branch to connection	FHW	Fahrenheit hot water	MBTU	BTU per hour/1000
C&P	Cord & plug provided	FS	Floor sink	MUA	Make-up air
CFM	Cubic feet per minute	G	Gas	PC	Plumbing Contractor
CR	Condensate return	GC	General Contractor	QD	Quick disconnect
CW	Cold water	GI	Grease interceptor	SP	Static pressure (WG)
DFA	Drop from above	HP	Horsepower	SR	Single receptacle
DR	Duplex receptacle	HW	Hot water	SS	Steam supply
EC	Electrical contractor	H&CW	Hot & cold water	W	Waste (direct connection)

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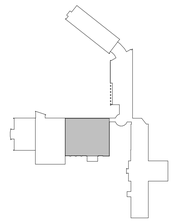
Planning Architecture Interior Design

GRANBY MEMORIAL HIGH SCHOOL

GRANBY, CT

SCHOOL RENOVATIONS



KEY PLAN

STATE PROJECT NO:
056-0052 A

BID SET

1/7/2022

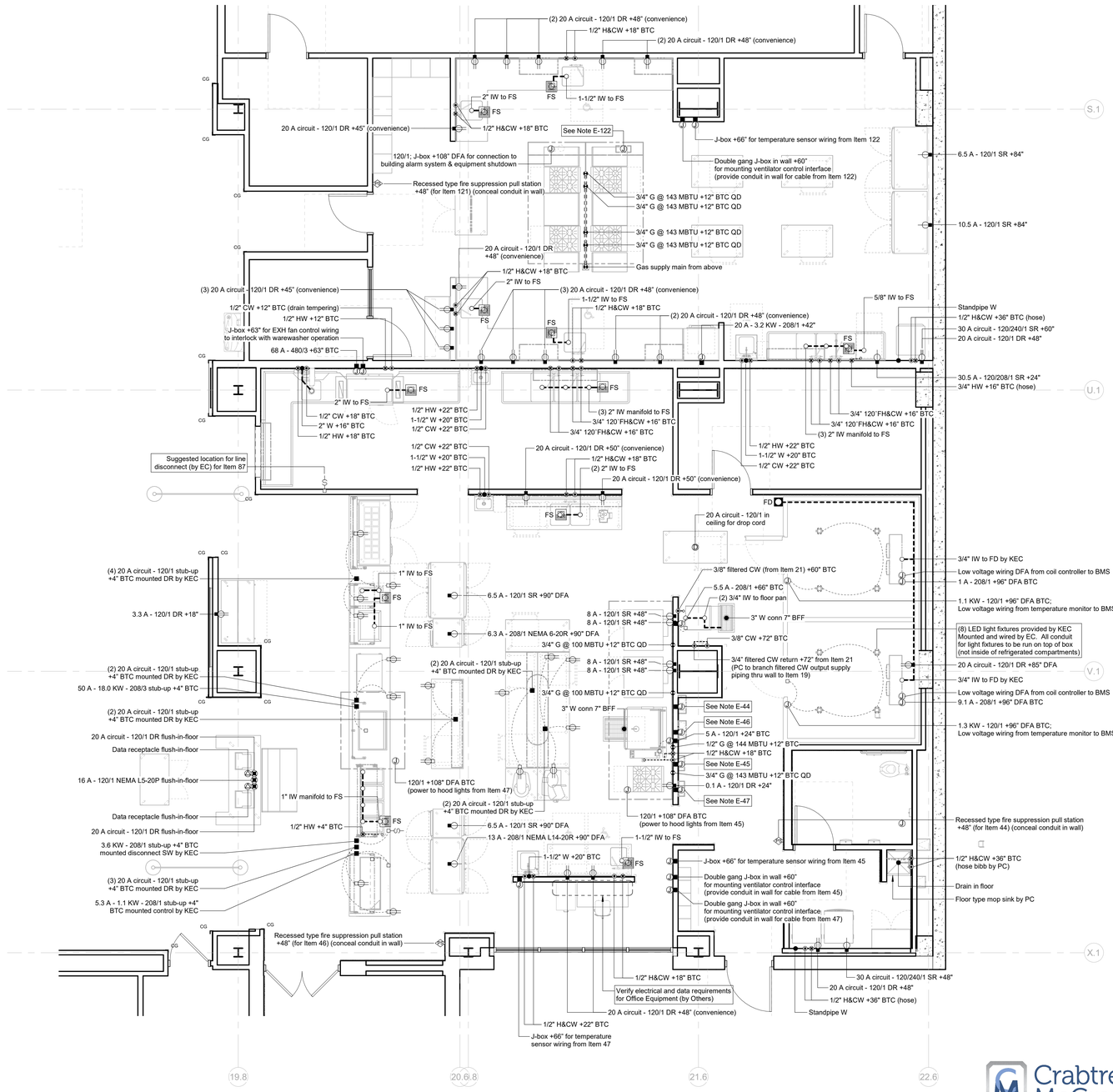
FOODSERVICE EQUIPMENT PLAN

Scale: AS NOTED
Job No.: 20210.00
Drawn By: DRA
Date: 1/7/2022

FS101

Note E-122

15 A circuit - 120/1 DFA for conn to ventilator control & hood lights at Items 119 & 120;
Microswitch wiring from fire suppression system (Item 121);
EC to provide CAT5 connection to remote touch screen (Item 122a - cable supplied with system);
EC to provide high voltage conns from VFD to EHX fan(s);
EC to provide wiring to temp sensors at hoods;
EC to provide wiring to room temp sensor (Item 122b);
EC to provide wiring from building management system remote control

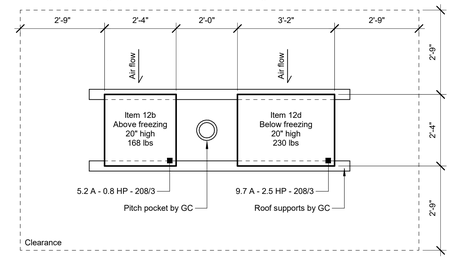


FOODSERVICE EQUIPMENT ROUGH-IN PLAN

1/4" = 1'-0"

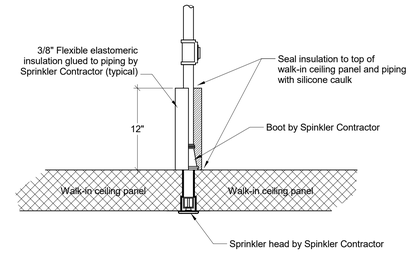
Mount on roof (Location to be coordinated)

Maximum refrigeration line run = 100' (including a 55' maximum vertical run)



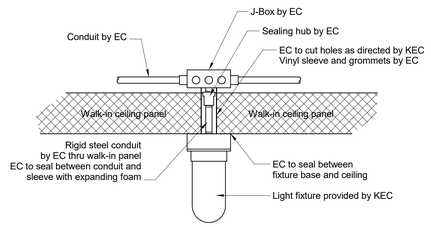
1 FS111 Detail - Condensing Units

NTS



Typical Detail - Refrigerated Room Fire Sprinkler

NTS



Notes:
1. All light fixture to be furnished by KEC
2. Mounting light fixtures, all conduit and interwiring by EC
3. All conduit to be on exterior of walk-in by EC
4. All penetrations thru walk-in panels to be thoroughly sealed by EC

Typical Detail - Refrigerated Room Light Fixture

NTS

Note E-44

120/1; J-box +108" for connection to building alarm system & equipment shutdown

Note E-45

15 A circuit - 120/1 DFA for conn to ventilator control & hood lights at Item 41;
Microswitch wiring from fire suppression system (Item 44);
EC to provide CAT5 connection to remote touch screen (Item 45a - cable supplied with system);
EC to provide high voltage conns from VFD to EHX fan;
EC to provide wiring to temp sensors at hood;
EC to provide wiring to room temp sensor (Item 45b);
EC to provide wiring from building management system remote control

Note E-46

120/1; J-box +108" for connection to building alarm system & equipment shutdown

Note E-47

15 A circuit - 120/1 DFA for conn to ventilator control & hood lights at Item 71;
Microswitch wiring from fire suppression system (Item 46);
EC to provide CAT5 connection to remote touch screen (Item 47a - cable supplied with system);
EC to provide high voltage conns from VFD to EHX fan;
EC to provide wiring to temp sensors at hood;
EC to provide wiring to room temp sensor (Item 47b);
EC to provide wiring from building management system remote control

ELECTRICAL ROUGH-IN LEGEND
DUPLEX RECEPTACLE
DUPLEX RECEPTACLE (TABLE MOUNTED)
SIMPLEX RECEPTACLE
SIMPLEX RECEPTACLE (TABLE MOUNTED)
SPECIAL PURPOSE RECEPTACLE
FLOOR RECEPTACLE
JUNCTION BOX
DROP CORD
ELECTRICAL CONDUIT
FIELD CONNECTION
SWITCH
LIGHT FIXTURE
FIRE PULL STATION
FIELD WIRING

PLUMBING ROUGH-IN LEGEND
HOT WATER
COLD WATER
WASTE - DIRECT CONNECTED
WASTE - INDIRECT
GAS
AREA FD (SUGGESTED LOCATION)
FLOOR DRAIN
FUNNEL FLOOR DRAIN
FLOOR SINK
FLOOR SINK (3/4 GRATE)
FLOOR SINK (1/2 GRATE)
FIELD CONNECTION
FIELD PIPING (WASTE)
FIELD PIPING (WATER)

ELECTRICAL NOTES

1) DIMENSIONS ON THIS PLAN ARE PROVIDED FOR DESIGN INTENT. IT IS THE RESPONSIBILITY OF THE KITCHEN EQUIPMENT CONTRACTOR TO VERIFY AND COORDINATE ALL DIMENSIONS AND HEIGHTS LISTED IN THE FIELD WITH THE EQUIPMENT BEING PROVIDED.

2) ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL FINAL CONNECTIONS TO EQUIPMENT THAT REQUIRES A BRANCH TO CONNECTION (BTC), OR WHERE INTER-WIRING IS INDICATED ON THE PLAN IN A DASHED LINE.

3) ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR REVIEWING ALL MANUFACTURER'S SHOP DRAWINGS AND EQUIPMENT CUT SHEETS SUBMITTED TO CONFIRM SCOPE REQUIREMENTS AND EXPECTATIONS.

4) ELECTRICAL PANELS PROVIDED SHALL BE DESIGNED WITH A MINIMUM OF 20% SPARE CAPACITY FOR FUTURE EXPANSION UNLESS OTHERWISE APPROVED BY THE OWNER.

5) ELECTRICAL CONTRACTOR TO INSTALL DROP CORDS AS LOCATED ON PLANS WITH THE CORD ADJUSTED TO HANG 78" ABOVE FINISH FLOOR. PLASTIC WIRE TIES ARE NOT ACCEPTABLE FOR THIS WORK. DROP CORDS MUST BE PROVIDED WITH STRAIN RELIEF.

6) ELECTRICAL CONNECTIONS ON THIS PLAN ARE PROVIDED AS IT RELATES SPECIFICALLY TO FOOD SERVICE EQUIPMENT. CONVENIENCE OUTLETS ARE PROVIDED IN SPECIFIC LOCATIONS AS REQUESTED BY OWNER. IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL ANY OTHER ELECTRICAL OUTLETS AS REQUIRED TO MEET CODE REQUIREMENTS BY LOCAL AUTHORITY HAVING JURISDICTION.

7) WALK-IN REFRIGERATED ROOM LIGHT FIXTURES ARE TO BE PROVIDED BY THE KITCHEN EQUIPMENT CONTRACTOR. LIGHTS ARE TO BE MOUNTED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.

8) IT IS THE RESPONSIBILITY OF THE KITCHEN EQUIPMENT CONTRACTOR TO CONFIRM WITH THE WALK-IN REFRIGERATED ROOM MANUFACTURER THAT THE QUANTITY AND LOCATIONS OF THE LIGHTING LAYOUT WILL MEET 20 FOOT CANDLES OF LIGHT AT A DISTANCE OF 30" ABOVE FINISH FLOOR AS REQUIRED IN WALK-IN REFRIGERATED ROOMS BY THE NATIONAL FOOD CODE.

9) DRAIN PIPING WITHIN A WALK-IN FREEZER SHALL BE PROVIDED WITH A DRAIN LINE HEATER AND INSULATION. FINAL CONNECTION OF THE DRAIN LINE HEATER MUST BE PROVIDED BY THE ELECTRICAL CONTRACTOR.

10) ELECTRICAL CONTRACTOR TO INSTALL UTILITIES CONCEALED IN WALLS AND STUB-OUT AT TERMINATION POINTS.

11) ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL WIRING BETWEEN EXHAUST VENTILATORS, AND ASSOCIATED FAN SYSTEMS, CONTROL PANELS, MAGNETIC STARTERS, FIRE SUPPRESSION SYSTEMS, PULL STATIONS AND SWITCHES AS REQUIRED.

12) CONTROL AND POWER WIRING BETWEEN CONTROL PANELS AND GARBAGE DISPOSALS, WASTE PULPERS, TROUGH COLLECTORS ETC. ARE TO BE PROVIDED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.

13) ELECTRICAL CONTRACTOR MUST PROVIDE ELECTRICAL POWER TO ANY COOKING EQUIPMENT THROUGH A SHUNT TRIP SYSTEM.

14) FOOD PREPARATION AREAS MUST BE PROVIDED WITH 50 FOOT CANDLES OF LIGHTING AS REQUIRED BY THE NATIONAL FOOD CODE.

15) ELECTRICAL CONTRACTOR MUST VERIFY REMOTE FIRE SUPPRESSION PULL STATION LOCATIONS WITH THE LOCAL FIRE INSPECTOR PRIOR TO INSTALLATION.

16) FOODSERVICE EQUIPMENT CAN NOT BLOCK ACCESS TO GFI RECEPTACLES. CRABTREE-MCGRATH ASSOCIATES STRONGLY RECOMMENDS THAT THE ELECTRICAL CONTRACTOR PROVIDE GFI PROTECTION AT THE CIRCUIT BREAKER PANEL. THIS WILL ALSO LIMIT NUISANCE TRIPPING THAT IS COMMON WITH COMMERCIAL FOODSERVICE EQUIPMENT.

PLUMBING NOTES

1) DIMENSIONS ON THIS PLAN ARE PROVIDED FOR DESIGN INTENT. IT IS THE RESPONSIBILITY OF THE KITCHEN EQUIPMENT CONTRACTOR TO VERIFY AND COORDINATE ALL DIMENSIONS AND HEIGHTS LISTED IN THE FIELD WITH THE EQUIPMENT BEING PROVIDED.

2) PLUMBING CONTRACTOR IS RESPONSIBLE FOR ALL FINAL CONNECTIONS TO EQUIPMENT THAT REQUIRE A BRANCH TO CONNECTION (BTC), OR WHERE PLUMBING INTERCONNECTION IS INDICATED ON THE PLAN WITH A DASHED LINE.

3) PLUMBING CONTRACTOR IS RESPONSIBLE FOR REVIEWING ALL MANUFACTURER'S SHOP DRAWINGS AND EQUIPMENT CUT SHEETS SUBMITTED TO CONFIRM SCOPE REQUIREMENTS AND INSTALLATION EXPECTATIONS.

4) ALL FLOOR SINKS AND DRAINS MUST BE PROVIDED AND INSTALLED BY THE PLUMBING CONTRACTOR. AREA DRAINS, IF LOCATED LOCATED ON THESE PLANS, ARE TO BE CONSIDERED RECOMMENDED AREAS. IT IS THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR TO CONFIRM QUANTITIES AND LOCATIONS OF AREA DRAINS WITH THE LOCAL AUTHORITY HAVING JURISDICTION.

5) FLOOR SINKS LOCATED UNDER COUNTERS WITH LIMITED ACCESSIBILITY MUST BE INSTALLED 50% EXPOSED AND EASILY ACCESSIBLE FOR CLEANING. IF A FLOOR SINK CAN NOT BE INSTALLED 50% EXPOSED, THE UNDER SHELF OF THE CABINET MUST BE FULLY REMOVABLE OR BE PROVIDED WITH AN ACCESS PANEL LARGE ENOUGH TO REMOVE THE DRAIN GRATE FOR CLEANING.

6) CONDENSATE DRAIN LINES FROM WALK-IN REFRIGERATED ROOM EVAPORATOR COILS SHALL BE INSTALLED BY THE KITCHEN EQUIPMENT CONTRACTOR. DRAIN LINES MUST BE COPPER AND INSTALLED 1" OFF THE WALLS WITH A MINIMUM PITCH OF 1/2" PER FOOT. KITCHEN EQUIPMENT CONTRACTOR TO PROVIDE AND INSTALL A COPPER UNION WITHIN 24" OF THE CONNECTION TO THE EVAPORATOR COIL. FOR INSTALLATION OF DRAIN LINES IN A FREEZER, THE DRAIN SHALL EXIT THE FREEZER AT THE EARLIEST DISTANCE POSSIBLE. DRAIN PENETRATIONS THROUGH THE WALK-IN REFRIGERATED ROOM WALL PANEL MUST BE APPROPRIATELY SEALED TO INCLUDE A VAPOR SEAL AND PROVIDED WITH CHROME ESCUTCHEON PLATES AT ALL EXPOSED POINTS WHERE PIPING PENETRATES THE WALL. DRAINS MUST BE "P" TRAPPED OUTSIDE OF THE REFRIGERATED ROOM WALL TO AVOID ENTRANCE OF WARM AIR AND TERMINATED 1" ABOVE THE FLOOR DRAIN OR AS REQUIRED BY LOCAL CODE.

7) PLUMBING CONTRACTOR TO INSTALL UTILITIES CONCEALED IN WALLS AND STUB-OUT AT TERMINATION POINTS. PLEASE NOTE THAT NOT ALL JURISDICTIONS ALLOW GAS LINES TO BE CONCEALED IN WALL, IT IS THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR TO VERIFY AND CONFIRM PRIOR TO INSTALLATION.

8) PLUMBING CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ALL DRAINS, FAUCETS, PIPING TRAPS, VALVES, SHUT-OFFS, GAUGES, WATER PRESSURE REDUCERS, REGULATORS AND BACKFLOW PREVENTION, ETC. AS REQUIRED BY LOCAL AUTHORITY HAVING JURISDICTION.

9) IT IS THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR TO FLUSH ALL WATER LINES PRIOR TO FINAL CONNECTION TO FOODSERVICE EQUIPMENT.

10) A MAIN SHUT-OFF GAS VALVE MUST BE INSTALLED BY THE PLUMBING CONTRACTOR LOCATED TO MEET THE REQUIREMENTS OF THE PLUMBING CODE.

11) GAS SUPPLY TO ALL COOKING EQUIPMENT MUST BE PROVIDED WITH AN ELECTRIC OR MECHANICAL SHUT-OFF VALVE. KITCHEN EQUIPMENT CONTRACTOR SHALL FURNISH THE VALVE AND INSTALLATION PERFORMED BY THE PLUMBING CONTRACTOR. VALVE SHALL BE TIED INTO THE FIRE PROTECTION SYSTEM FOR AUTOMATIC SHUT-OFF.

12) THE PLUMBING CONTRACTOR IS RESPONSIBLE FOR LOCATION OF GREASE TRAPS AS REQUIRED BY LOCAL AUTHORITY HAVING JURISDICTION. GREASE TRAPS MUST BE LOCATED IN A MANNER THAT DOES NOT INTERFERE WITH FOODSERVICE EQUIPMENT LAYOUT.

Abbreviations used:

A	Amperes	EXH	Exhaust	IW	Indirect waste
AFF	Above finished floor	FD	Floor drain	KEC	Kitchen Equip. Contractor
BFF	Below finished floor	FFD	Funnel floor drain	KW	Kilowatt
BTC	Branch to connection	FHW	Fahrenheit hot water	MBTU	BTU per hour/1000
C&P	Cord & plug provided	FS	Floor sink	MUA	Make-up air
CFM	Cubic feet per minute	G	Gas	PC	Plumbing Contractor
CR	Condensate return	GC	General Contractor	QD	Quick disconnect
CW	Cold water	GI	Grease interceptor	SP	Static pressure (WG)
DFA	Drop from above	HP	Horsepower	SR	Single receptacle
DR	Duplex receptacle	HW	Hot water	SS	Steam supply
EC	Electrical contractor	H&CW	Hot & cold water	W	Waste (direct connection)

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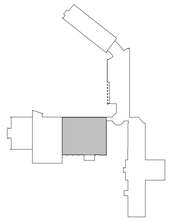
Planning Architecture Interior Design

GRANBY MEMORIAL HIGH SCHOOL

GRANBY, CT

SCHOOL RENOVATIONS



KEY PLAN

STATE PROJECT NO:
056-0052 A

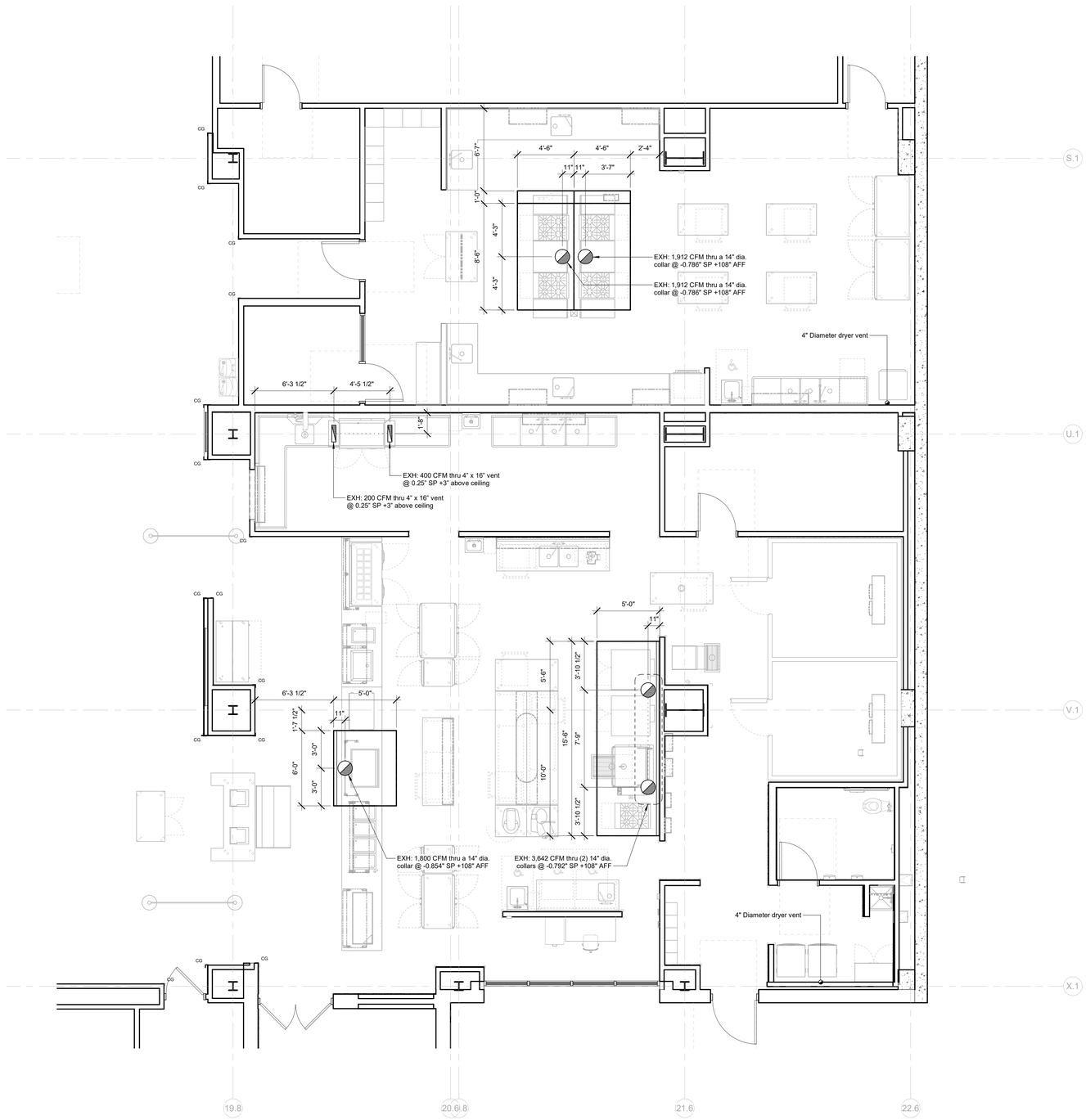
BID SET

1/7/2022

FOODSERVICE EQUIPMENT ROUGH-IN PLAN

Scale: AS NOTED
Job No.: 20210.00
Drawn By: DRA
Date: 1/7/2022

FS111



FOODSERVICE EQUIPMENT VENTILATION ROUGH-IN PLAN
1/4" = 1'-0"

Abbreviations used:					
A	Amperes	EXH	Exhaust	IW	Indirect waste
AFF	Above finished floor	FD	Floor drain	KEC	Kitchen Equip. Contractor
BFF	Below finished floor	FFD	Funnel floor drain	KW	Kilowatt
BTC	Branch to connection	FHW	Fahrenheit hot water	MBTU	BTU per hour/1000
C&P	Cord & plug provided	FS	Floor sink	MUA	Make-up air
CFM	Cubic feet per minute	G	Gas	PC	Plumbing Contractor
CR	Condensate return	GC	General Contractor	QD	Quick disconnect
CW	Cold water	GI	Grease interceptor	SP	Static pressure (WG)
DFA	Drop from above	HP	Horsepower	SR	Single receptacle
DR	Duplex receptacle	HW	Hot water	SS	Steam supply
EC	Electrical contractor	H&CW	Hot & cold water	W	Waste (direct connection)

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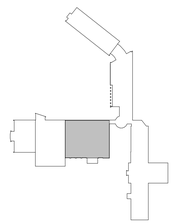
Planning Architecture Interior Design

GRANBY MEMORIAL HIGH SCHOOL

GRANBY, CT

SCHOOL RENOVATIONS



KEY PLAN

STATE PROJECT NO:
056-0052 A

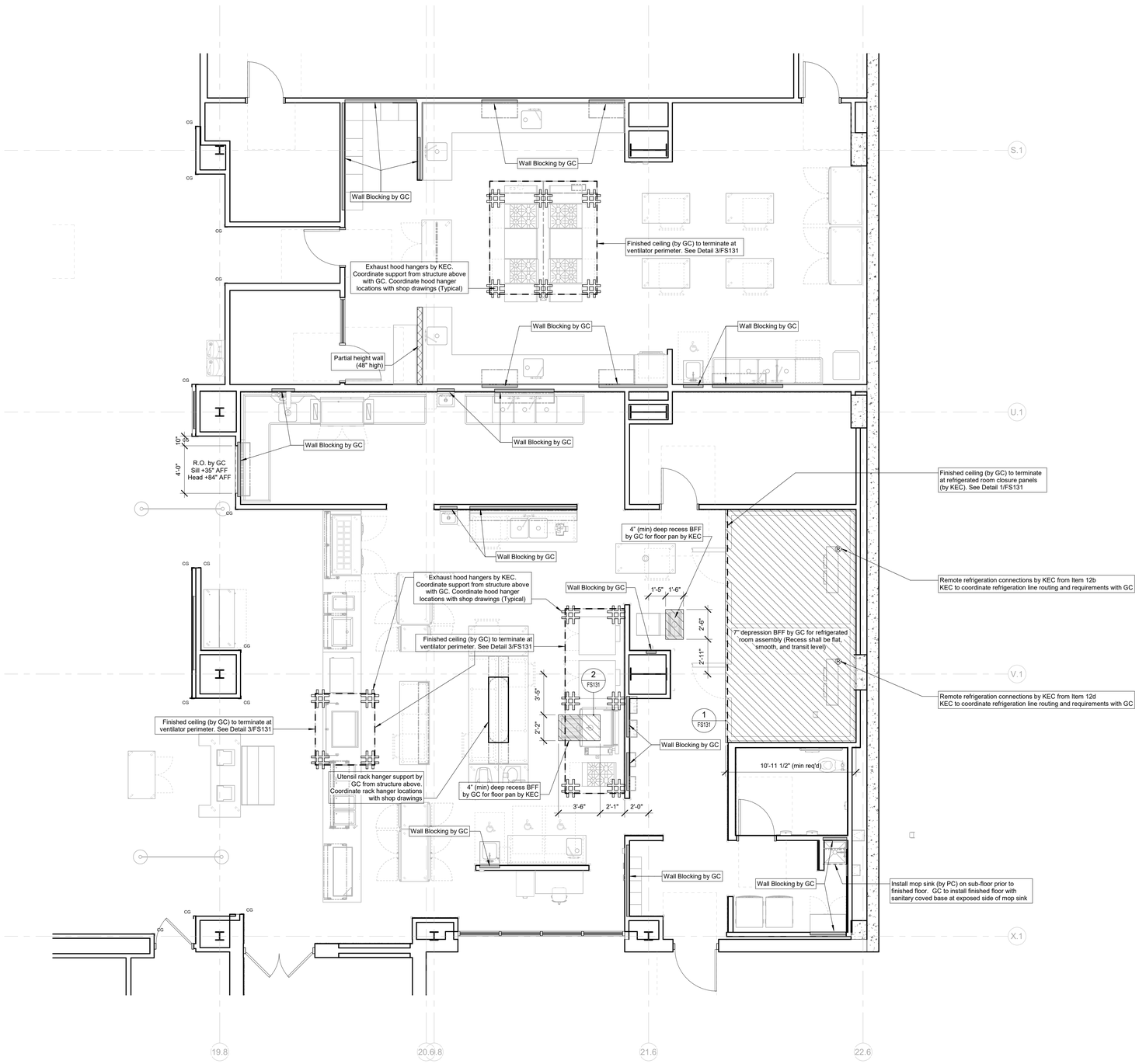
BID SET

1/7/2022

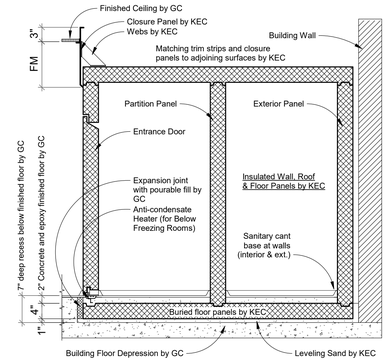
FOODSERVICE EQUIPMENT VENTILATION ROUGH-IN PLAN

Scale: AS NOTED
Job No.: 20210.00
Drawn By: DRA
Date: 1/7/2022

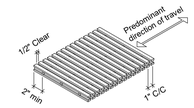
FS121



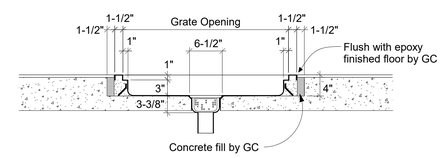
FOODSERVICE EQUIPMENT SPECIAL CONDITIONS PLAN
1/4" = 1'-0"



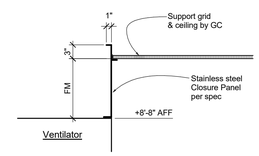
1 FS131 Detail - Refrigerated Rooms
NTS



Fiberglass Grating



2 FS131 Section - Floor Pan & Grate
NTS



3 FS131 Section - Ventilator Ceiling CLosue
NTS

SPECIAL CONDITIONS NOTES

1) DIMENSIONS ON THIS PLAN ARE PROVIDED FOR DESIGN INTENT. IT IS THE RESPONSIBILITY OF THE KITCHEN EQUIPMENT CONTRACTOR TO VERIFY AND COORDINATE ALL DIMENSIONS AND HEIGHTS LISTED IN THE FIELD WITH THE EQUIPMENT BEING PROVIDED.

2) WALK-IN REFRIGERATED ROOM SLAB DEPRESSIONS MUST BE SMOOTH AND LEVEL, SIZED AS SHOWN ON PLAN.

3) THE GENERAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING WALL BLOCKING AS INDICATED FOR SUPPORTING WALL MOUNTED EQUIPMENT. KITCHEN EQUIPMENT CONTRACTOR SHALL VERIFY AND COORDINATE ALL LOCATIONS AND HEIGHTS PROVIDED IN THE FIELD.

4) WALL FLASHING, WHERE SPECIFIED, MUST BE A MINIMUM OF 20 GAUGE STAINLESS STEEL, PROVIDED AND INSTALLED BY THE KITCHEN EQUIPMENT CONTRACTOR. STAINLESS STEEL TO BE CUT IN THE LARGEST SHEETS POSSIBLE TO MINIMIZE JOINTS. ALL SEAMS TO BE COVERED WITH BATTEN STRIPS AND CAP STRIPS PROVIDED AT FLASHIING ENDS. PROVIDE CAREFULLY PUNCHED HOLES AT SERVICE LOCATIONS. ALL WALL FLASHING DIMENSIONS MUST BE FIELD VERIFIED BY THE KITCHEN EQUIPMENT CONTRACTOR PRIOR TO FABRICATION.

5) CORNER GUARDS, WHERE SPECIFIED, MUST BE A MINIMUM OF 14 GAUGE STAINLESS STEEL PROVIDED AND INSTALLED BY THE KITCHEN EQUIPMENT CONTRACTOR. BREAK LONG EDGES SO THAT THE GUARDS "HUG" THE WALL AND SECURE TO THE WALL WITH A SUITABLE ADHESIVE. ALL CORNER GUARD DIMENSIONS AND ANGLES MUST BE FIELD VERIFIED BY THE KITCHEN EQUIPMENT CONTRACTOR PRIOR TO FABRICATION.

6) KITCHEN EQUIPMENT CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF THE REMOTE REFRIGERATION LINE RUNS AND COORDINATION OF THE COMPLETE REMOTE REFRIGERATION SYSTEM WITH THE GENERAL CONTRACTOR.

7) EXHAUST HOODS MUST BE HUNG AND MOUNTED WITH THE BOTTOM OF THE HOOD AT 6'-8" ABOVE FINISH FLOOR. HVAC CONTRACTOR IS RESPONSIBLE FOR FINAL CONNECTIONS FROM THE EXHAUST HOOD COLLAR TO THE DUCTWORK. FINAL CONNECTIONS SHALL BE FULLY WELDED AND LIQUID TIGHT.

8) HVAC CONTRACTOR TO PROVIDE AND INSTALL ALL FANS, DUCTWORK AND CURBS AS REQUIRED FOR A COMPLETE AND FUNCTIONING VENTILATIO SYSTEM. START-UP AND AIR BALANCING OF THESE SYSTEMS MUST BE COMPLETED BY THE HVAC CONTRACTOR.

Abbreviations used:

A	Amperes	EXH	Exhaust	IW	Indirect waste
AFF	Above finished floor	FD	Floor drain	KEC	Kitchen Equip. Contractor
BFF	Below finished floor	FFD	Funnel floor drain	KW	Kilowatt
BTC	Branch to connection	FHW	Fahrenheit hot water	MBTU	BTU per hour/1000
C&P	Cord & plug provided	FS	Floor sink	MUA	Make-up air
CFM	Cubic feet per minute	G	Gas	PC	Plumbing Contractor
CR	Condensate return	GC	General Contractor	QD	Quick disconnect
CW	Cold water	GI	Grease interceptor	SP	Static pressure (WG)
DFA	Drop from above	HP	Horsepower	SR	Single receptacle
DR	Duplex receptacle	HW	Hot water	SS	Steam supply
EC	Electrical contractor	H&CW	Hot & cold water	W	Waste (direct connection)

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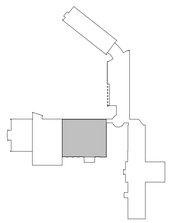
Planning Architecture Interior Design

GRANBY MEMORIAL HIGH SCHOOL

GRANBY, CT

SCHOOL RENOVATIONS



KEY PLAN

STATE PROJECT NO:
056-0052 A

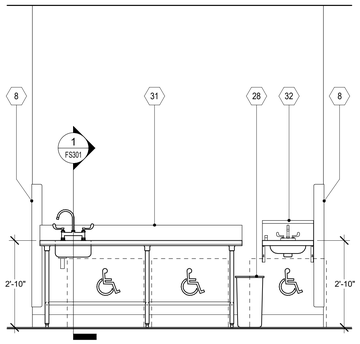
BID SET

1/7/2022

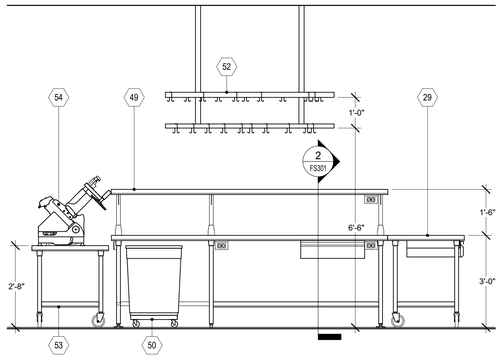
FOODSERVICE EQUIPMENT SPECIAL CONDITIONS PLAN

Scale: AS NOT
Job No.: 20210.00
Drawn By: DRA
Date: 1/7/2022

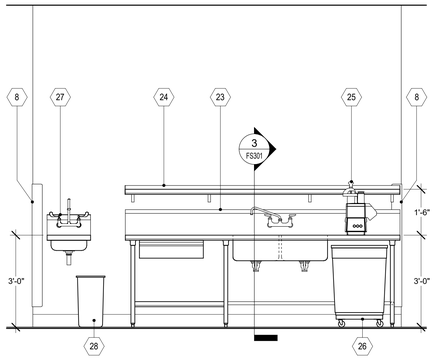
FS131



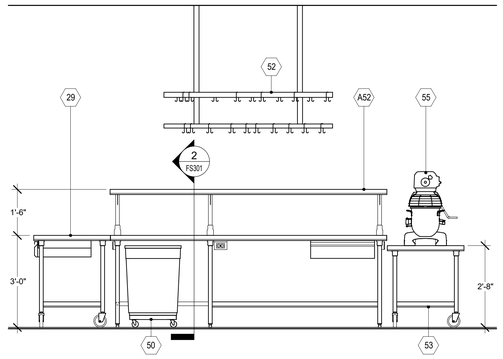
1 FS201 Elevation - Accessible Work Station
1/2" = 1'-0"



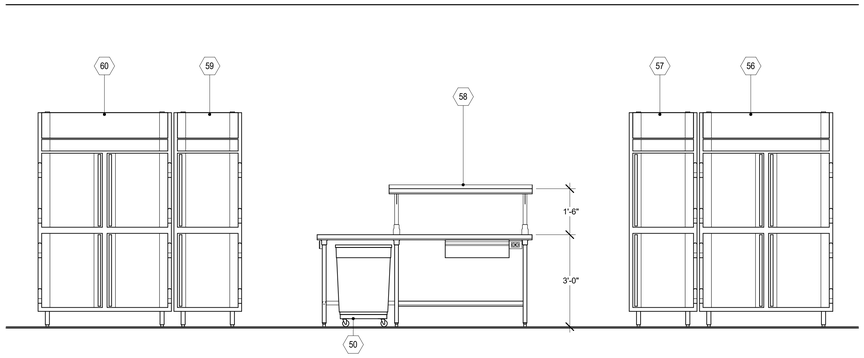
2 FS201 Elevation - Cook's Work Table
1/2" = 1'-0"



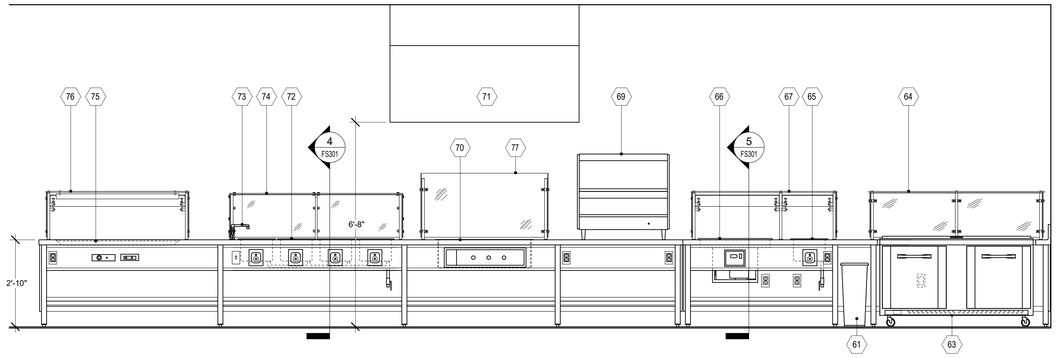
3 FS201 Elevation - Prep Table with Sinks
1/2" = 1'-0"



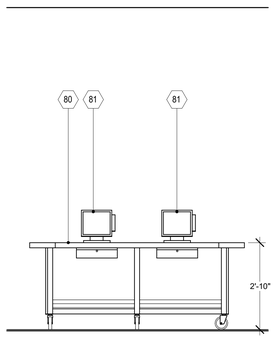
4 FS201 Elevation - Work Table
1/2" = 1'-0"



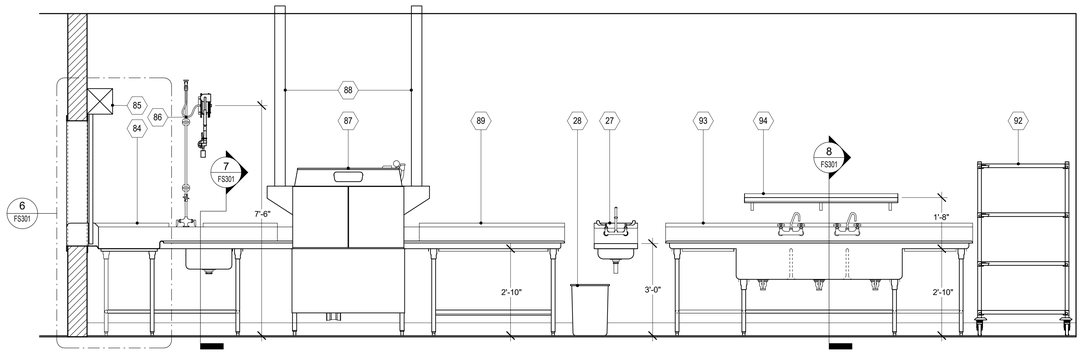
5 FS201 Elevation - Servery Support
1/2" = 1'-0"



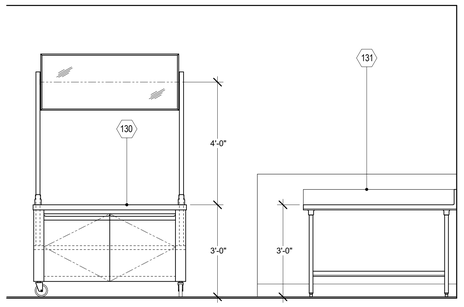
6 FS201 Elevation - Serving Counters
1/2" = 1'-0"



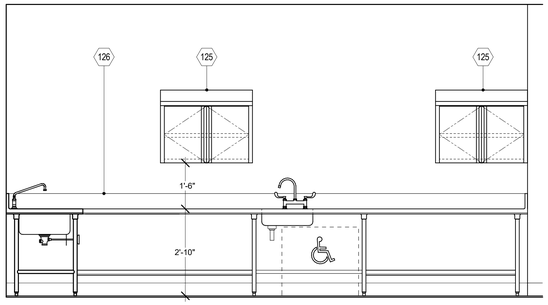
7 FS201 Elevation - Cashier Stand
1/2" = 1'-0"



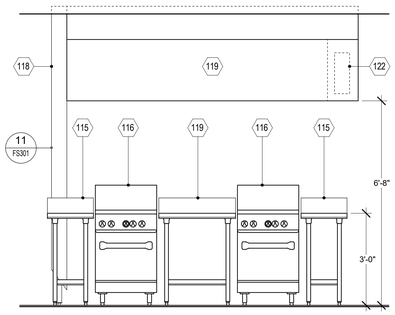
8 FS201 Elevation - Tray & Utensil Washing
1/2" = 1'-0"



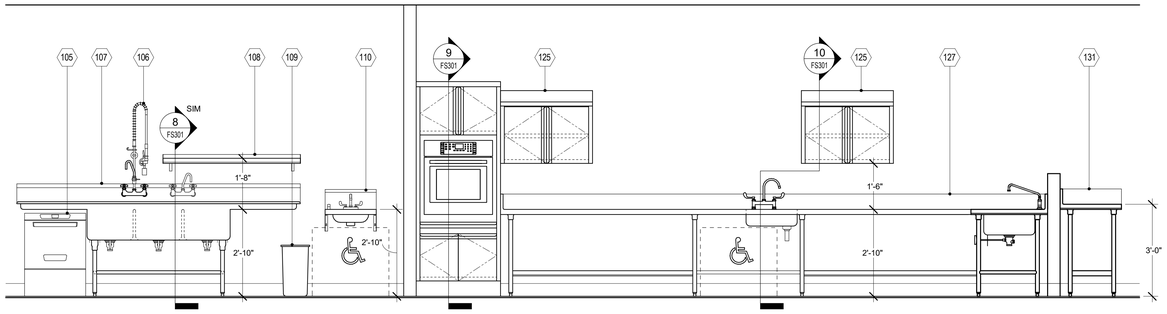
9 FS201 Elevation - Beverage Table & Demonstration Counter
1/2" = 1'-0"



10 FS201 Elevation - Work Counter with Sinks
1/2" = 1'-0"



11 FS201 Elevation - Cooking Range Spacer Tables
1/2" = 1'-0"



12 FS201 Elevation - Three-Compartment Sink & Work Counter with Sinks
1/2" = 1'-0"

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Planning Architecture Interior Design

GRANBY MEMORIAL HIGH SCHOOL

GRANBY, CT

SCHOOL RENOVATIONS

STATE PROJECT NO:
056-0052 A

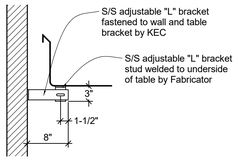
BID SET

1/7/2022

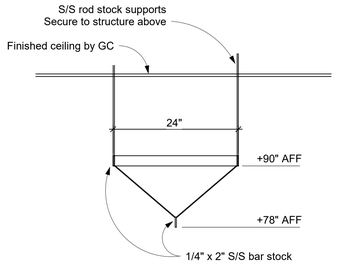
FOODSERVICE EQUIPMENT ELEVATIONS

Scale: AS NOTED
Job No.: 20210.00
Drawn By: DRA
Date: 1/7/2022

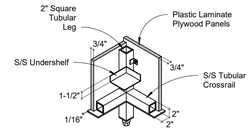
FS201



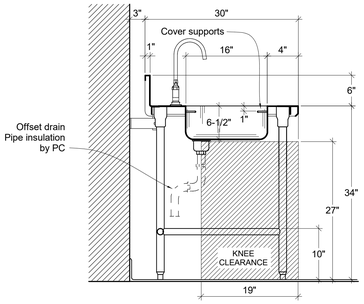
Section - Wall Bracket
NTS



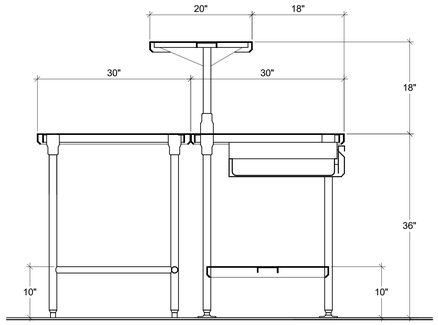
Section - Ceiling Mounted Utensil Rack
NTS



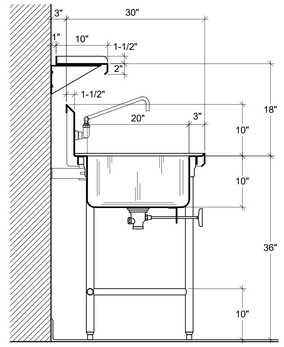
Detail - Serving Counter Corner
NTS



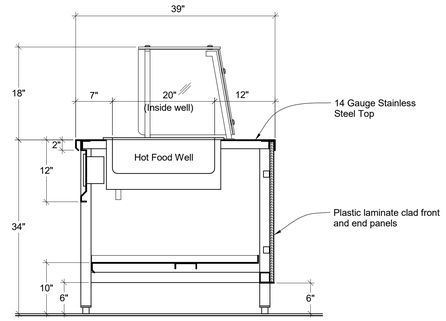
1 FS301 Section - Accessible Work Station @ Sink
1" = 1'-0"



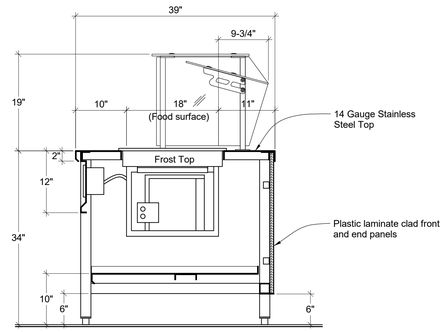
2 FS301 Section - Cook's Work Tables
1" = 1'-0"



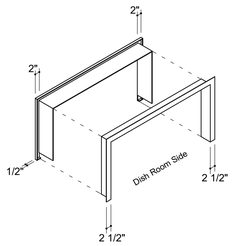
3 FS301 Section - Prep Table @ Sink
1" = 1'-0"



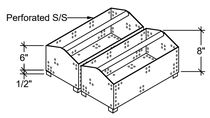
4 FS301 Section - Serving Counter @ Hot Well
1" = 1'-0"



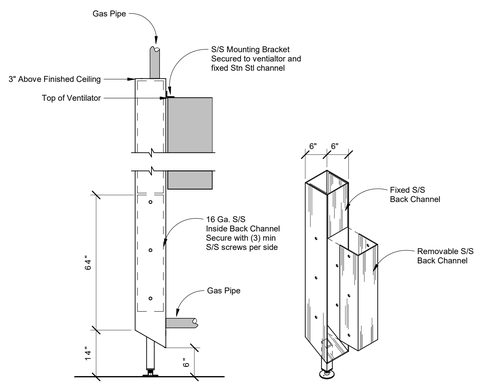
5 FS301 Section - Serving Counter @ Frost Top
1" = 1'-0"



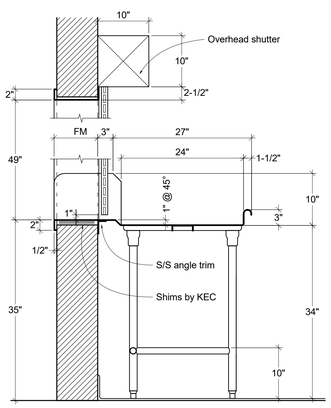
Detail - Pass Window Frame
NTS



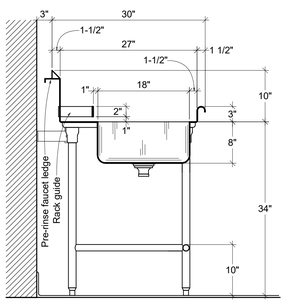
Detail - Scrap Baskets
NTS



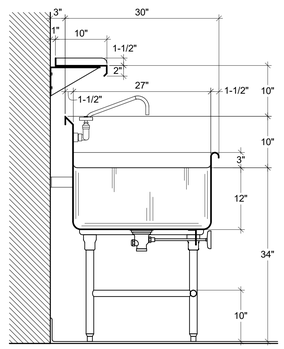
11 FS301 Detail - Stainless Steel Utility Chase
NTS



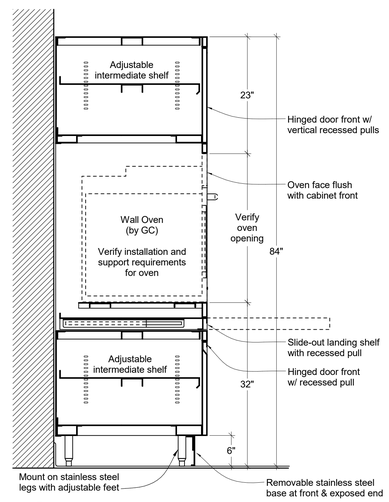
6 FS301 Section - Soiled Ware Table @ Pass-Thru
1" = 1'-0"



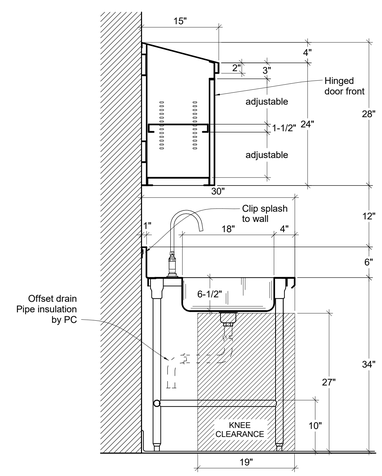
7 FS301 Section - Soiled Ware Table @ Scrap Sink
1" = 1'-0"



8 FS301 Section - Three-Compartment Sink
1" = 1'-0"



9 FS301 Section - Wall Oven Cabinet
1" = 1'-0"



10 FS301 Section - Work Counter @ Accessible Sink
1" = 1'-0"

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GRANBY, CT

SCHOOL RENOVATIONS

STATE PROJECT NO:
056-0052 A

BID SET

1/7/2022

FOODSERVICE EQUIPMENT DETAILS

Scale: AS NOTED
Job No.: 20210.00
Drawn By: DRA
Date: 1/7/2022

FS301

FIRE PROTECTION SYMBOL LEGEND

SYMBOL	DESCRIPTION
FDC	FIRE DEPARTMENT CONNECTION PIPING
D	DRAIN PIPING
WET	SPRINKLER MAIN (WET)
DRY	SPRINKLER MAIN (DRY)
D	ALARM BELL (PLAN/DETAIL VIEW)
	"WET" ALARM VALVE RISER
	FIRE DEPARTMENT CONNECTION
	90° ELBOW DOWN
	90° ELBOW UP
	TEE UP
	TEE DOWN
	DROP AND RUN
	TEE OFF TOP OF PIPE
	TEE OFF BOTTOM OF PIPE
	CONCENTRIC REDUCER
	ECCENTRIC REDUCER
	UNION
	FLANGE
	END CAP
	OS&Y GATE VALVE
	GATE VALVE
	CHECK VALVE
	BALL VALVE/DRAIN VALVE
	BUTTERFLY VALVE
	RELIEF VALVE
	REDUCED PRESSURE BACKFLOW PREVENTER ASSEMBLY AND DRAIN
	STRAINER
	PUMP
	PRESSURE GAUGE
	PRESSURE REDUCING VALVE
	FIRE VALVE (IN CABINET)
	GATE VALVE ON RISE
FS	FLOW SWITCH
TS	TAMPER SWITCH
PS	PRESSURE SWITCH

FIRE PROTECTION ABBREVIATIONS

ABBREVIATION	DESCRIPTION
AFF	ABOVE FINISHED FLOOR
ATS	AUTOMATIC TRANSFER SWITCH
CR	CORROSION RESISTANT
D	DRY
DCV	DOUBLE CHECK VALVE
EC	EXTENDED COVERAGE
ELEV	ELEVATION
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FD	FIRE DEPARTMENT
FDC	FIRE DEPARTMENT CONNECTION
FHV	FIRE HOSE VALVE
FP	FIRE PROTECTION
FPC	FIRE PUMP CONTROLLER
FPM	FEET PER MINUTE
FS	FLOW SWITCH
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
HD	TOTAL DEVELOPED HEAD
HTC	HIGH TEMPERATURE CLASSIFICATION
HVC	HOSE VALVE CABINET
ITC	INTERMEDIATE TEMPERATURE CLASSIFICATION
JP	JOCKEY PUMP
JPC	JOCKEY PUMP CONTROLLER
N.C.	NORMALLY CLOSED
N.O.	NORMALLY OPEN
NTS	NOT TO SCALE
OS&Y	OUTSIDE SCREW AND YOLK
PA	PREACTION
PAC	PREACTION ALARM VALVE CABINET
PD	PRESSURE DROP
PIV	PRESSURE INDICATOR VALVE
PRV	PRESSURE REDUCING VALVE
PS	PRESSURE SWITCH
PSI	POUNDS PER SQUARE INCH
RPBP	REDUCED PRESSURE BACKFLOW PREVENTER
RPM	REVOLUTIONS PER MINUTE
SS	SUPERVISORY SWITCH
TS	TAMPER SWITCH
TYP	TYPICAL
V	VOLTS
VEL	VELOCITY
WG	WIRE GUARD

SPRINKLER SYSTEM NOTES

1. THESE GENERAL NOTES ARE APPLICABLE TO ALL FIRE PROTECTION DRAWINGS.
2. DRAWINGS ARE DIAGRAMMATIC AND SHOW THE GENERAL INTENT OF WORK, SEE DETAILS, RISERS, AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
3. THE DRAWINGS INDICATE A SUGGESTED SPRINKLER HEAD LAYOUT AND THAT EACH AREA IS COVERED BY SPRINKLER PROTECTION AS REQUIRED BY ALL CT BUILDING AND FIRE CODES. THE SPRINKLER QUANTITIES SHALL NOT BE COUNTED, AS A TAKE OFF OR AS EXACT LOCATIONS. EXACT SPACING, DENSITY, AND LOCATION REQUIREMENTS SHALL BE AS DICTATED BY NFPA 13.
4. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS INCLUDING EXISTING TEE OUTLET SIZE FOR ALL RETURN BEND ASSEMBLIES. BEFORE ANY NEW WORK STARTS, THE CONTRACTOR SHALL DETERMINE THAT ALL EXISTING OUTLETS ARE A MINIMUM OF ONE INCH. IF IT IS DETERMINED THAT THE EXISTING OUTLET SIZE IS LESS THAN ONE INCH, ALL SPRINKLER WORK SHALL STOP AND IT SHALL BE BROUGHT TO THE ARCH/ENGINEERS ATTENTION. THE CONTRACTOR SHALL NOT PROCEED WITH WORK UNTIL DIRECTION IS GIVEN BY THE ARCH/ENGINEER.
5. COMBINED INSIDE AND OUTSIDE HOSE STREAM ALLOWANCE FOR HYDRAULIC CALCULATIONS SHALL BE 250 GPM.
6. CONTRACTOR TO PROVIDE FLOW TEST AND HYDRAULIC CALCULATIONS THAT SHALL INCLUDE A SAFETY FACTOR OF 10 PSI
7. PIPE VELOCITY AT ANY POINT OF THE SYSTEM SHALL NOT EXCEED 18 FPS
8. INSTALLATION OF SPRINKLERS SHALL BE BASED ON THE FOLLOWING:

AREA	OCCUPANCY CLASSIFICATION	DENSITY (GPM/SF)	AREA OF APPLICATION (SF)
KITCHEN	ORDINARY HAZARD GROUP 1	0.15	1500
CULINARY ARTS	ORDINARY HAZARD GROUP 1	0.15	1500
STORAGE ROOMS	ORDINARY HAZARD GROUP 1	0.15	1500
REMAINDER OF THE BUILDING	LIGHT HAZARD	0.10	1500

FIRE PROTECTION DEMOLITION NOTES

1. THE FIRE PROTECTION CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH THE EXISTING SYSTEM AND CONDITIONS IN AREAS OF RENOVATION.
2. ALL EXISTING PIPING AND EQUIPMENT SHOWN HAS BEEN TAKEN FROM THE BEST AVAILABLE EXISTING INFORMATION. THE DRAWINGS ARE DIAGRAMMATIC AND ALL PIPING AND DEVICES MAY NOT BE SHOWN. THE INTENT OF THESE DRAWINGS IS THAT IN ALL AREAS OF RENOVATION THAT THESE SYSTEMS ARE REMOVED UNLESS OTHERWISE INDICATED WHETHER OR NOT SHOWN.
3. THE FIRE PROTECTION CONTRACTOR SHALL REMOVE ALL FIRE PROTECTION PIPING SYSTEM INCLUDING BUT NOT LIMITED TO SPRINKLER/STANDPIPE, SPRINKLER HANGERS, VALVE, SWITCHES, AND DEVICES UNLESS OTHERWISE INDICATED. COORDINATE WITH ELECTRICAL CONTRACTOR ALL WIRING WORK RELATED TO DEVICES BEING REMOVED.
4. ALL PIPING TO BE REMOVED SHALL BE REMOVED COMPLETELY OR CAPPED AS SHOWN WITHOUT LEAVING ANY DEAD ENDED PIPING OR ABANDONED PIPING.
5. NO FIRE PROTECTION EQUIPMENT OR DEVICES THAT HAVE BEEN DISCONNECTED OR ABANDONED SHALL REMAIN.
6. IT IS THE INTENT OF THESE DRAWINGS THAT ANY AND ALL DEVICES REMOVED SHALL NOT BE REUSED SUCH AS SPRINKLERS, BUT ONLY NEW SHALL BE INSTALLED.
7. ANY SYSTEM OR EQUIPMENT TO REMAIN ACTIVE DURING RENOVATION SHALL BE KEPT IN OPERATION BY PROVIDING TEMPORARY CONNECTIONS AS REQUIRED UNTIL NEW SYSTEMS ARE INSTALLED AND OPERATIONAL.
8. ALL SERVICE INTERRUPTIONS SHALL BE COORDINATED WITH THE OWNER A MINIMUM OF 3 DAYS IN ADVANCE. THE FIRE MARSHALL MUST BE CONTACTED IN ADVANCE PRIOR TO COMMENCEMENT OF ANY WORK.
9. THE FIRE MARSHALL AND OR THE INSURANCE UNDERWRITER SHALL BE CONTACTED TO REVIEW AND APPROVE THE EXTENT OR PHASING OF THE FIRE PROTECTION DEMOLITION IN ORDER TO PROTECT THE OCCUPANTS AND PROPERTY. THESE DOCUMENTS DO NOT ADDRESS THE PHASING OF THE SYSTEM REMOVAL, ONLY THE EXTENT.
10. THE FIRE PROTECTION CONTRACTOR SHALL ALSO REVIEW THE ARCHITECTURAL DEMOLITION DRAWINGS AS PART OF THIS CONTRACT FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

COMMERCIAL SPRINKLER HEAD SCHEDULE

SYMBOL	K-FACTOR	STANDARD (SR) OR QUICK RESPONSE (QR)	UPRIGHT	PENDENT	RECESSED	CONCEALED PENDENT	HORIZONTAL SIDEWALL	WITH GUARD	ABOVE CEILING	DRY	INSTITUTIONAL	EXTENDED COVERAGE	UL-LISTED	FM-APPROVED	MANUFACTURER & MODEL	MAXIMUM LISTED COVERAGE AREA L x W (FT)	MINIMUM REQUIRED PRESSURE (PSI)	GENERAL LOCATION OF SPRINKLER HEADS (REFER TO DRAWINGS FOR ACTUAL LOCATIONS)	NOTE: *ALL FINISHES ARE SUBJECT TO APPROVAL BY ARCHITECT. FINISH*	CLASSIFICATION
	5.6	QR				∘							∘	∘	VIKING MODEL# VK462	15 x 15	7 PSI	SPACES & CORRIDORS WITH HUNG CEILINGS	COVER PLATE FACTORY-PAINTED WHITE.	LIGHT & ORDINARY HAZARD
C	5.6	QR				∘							∘	∘	VIKING MODEL# VK462	15 x 15	7 PSI	SPACES & CORRIDORS WITH CLOUD CEILINGS	COVER PLATE FACTORY-PAINTED. COORDINATE COLOR WITH ARCHITECT	LIGHT & ORDINARY HAZARD
D	5.6	QR				∘				∘			∘		VIKING MODEL# VK194	15 x 15	7 PSI	-	SPRINKLER HEAD COVER PLATE FACTORY-PAINTED WHITE.	LIGHT & ORDINARY HAZARD
ITC	5.6	QR				∘							∘	∘	VIKING MODEL# VK462 INTERMEDIATE TEMPERATURE RATING	15 x 15	7 PSI	SPACES & CORRIDORS WITH HUNG CEILINGS	COVER PLATE FACTORY-PAINTED WHITE.	LIGHT & ORDINARY HAZARD
	5.6	QR	∘					∘					∘	∘	VIKING MODEL# VK300	15 x 15	7 PSI	SPACES & CORRIDORS WITHOUT HUNG CEILINGS	BRASS	LIGHT & ORDINARY HAZARD
A	5.6	QR	∘					∘					∘	∘	VIKING MODEL# VK300	15 x 15	7 PSI	SPACES & CORRIDORS WITHOUT HUNG CEILINGS	BRASS	

NOTES:
1. ALL TYPES OF SPRINKLER HEADS SHALL BE INSTALLED AS PER MANUFACTURER'S RECOMMENDATIONS.
2. PROVIDED SPRINKLER GUARDS IN MECHANICAL ROOMS, ELECTRICAL & TELECOM (I.T.) CLOSETS, UPS ROOMS AND ALL ROOMS WHERE SPRINKLERS MAY BE SUBJECT TO ACCIDENTAL DAMAGE.
3. ALL SPRINKLER HEADS THROUGHOUT SHALL BE OF ORDINARY TEMPERATURE RATING (135 - 17O DEG. F), WITH THE FOLLOWING EXCEPTIONS:
   A. SPECIFIED IN TABLE BELOW AS INTERMEDIATE OR HIGH TEMPERATURE RATING.
   B. SPRINKLER HEADS LOCATED CLOSE TO KITCHEN EQUIPMENT, HEATERS, STEAM PIPE OR LOW-PRESSURE BLOW-OFF VALVE SHALL BE OF THE TEMPERATURE RATING AS REQUIRED BY APPLICABLE EDITION OF NFPA - 13. DRAWINGS, PREPARED BY THE FIRE PROTECTION CONTRACTOR SHALL BE COORDINATED WITH THE HVAC CONTRACTOR AND ALL HVAC EQUIPMENT WHICH CAN AFFECT THE RATING OF THE SPRINKLER HEADS. SPRINKLER HEADS SHALL BE CLEARLY IDENTIFIED ON THE SHOP DRAWINGS PRIOR TO SUBMISSION FOR APPROVAL.
4. ALL SPRINKLER HEAD SYMBOLS NOT SHOWN ON PLANS. REFER TO "GENERAL LOCATION" COLUMN FOR ESTIMATING.
5. SPRINKLER SELECTIONS ARE BASED ON PRODUCTS MANUFACTURED BY VIKING. RELIABLE AND/OR TYCO PRODUCTS SHALL BE CONSIDERED APPROVED EQUAL PRODUCTS AND ARE SUBJECT TO THE APPROVAL OF THE ENGINEER AND ARCHITECT.
6. SPRINKLER CONTRACTOR SHALL COORDINATE THE LOCATIONS OF SPRINKLER HEADS WITH STRUCTURAL ELEMENTS AND HVAC DUCTWORK.

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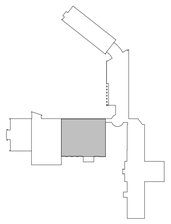


KEY PLAN

STATE PROJECT NO:
056-0052 A

BID SET

01/7/2022

N
ACTUAL NORTH

STATE OF CONNECTICUT DOUGLAS S. LANGE 20909 LICENSED PROFESSIONAL ENGINEER

FIRE PROTECTION ABBREVIATIONS, NOTES AND SYMBOLS

Scale: AS NOTED
Job No.: 2021218.00
Drawn By: CES
Date: 1/7/2022

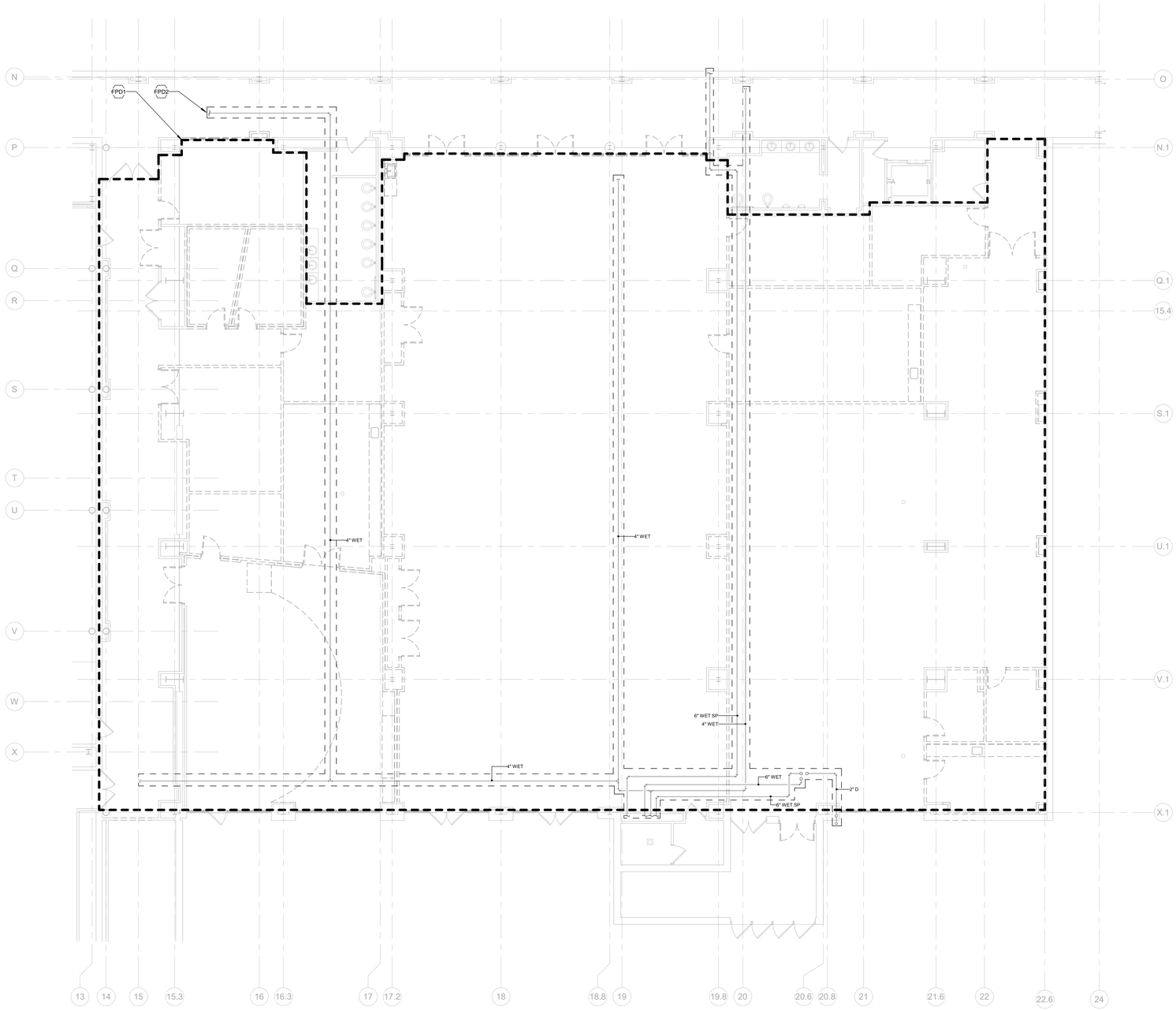
FP000

GENERAL NOTES - FIRE PROTECTION DEMOLITION

1. THE INTENT OF THE PLANS AND SPECIFICATION IS FOR A PARTIAL REMOVAL OF ALL FIRE PROTECTION SYSTEMS WITHIN THE SCOPE OF WORK OUTLINED. ALL SYSTEMS OUTSIDE OF THE SCOPE OF WORK ARE EXISTING TO REMAIN UNLESS OTHERWISE NOTED.
2. OUTLINED AREAS INDICATE AREAS OF SCOPE. OUTLINED AREAS MAY BE SHOWN OFFSET FROM WALLS FOR GRAPHICAL CLARITY. DEMOLITION SCOPE SHOULD INCLUDE DEMOLITION OF ITEMS ON AND WITHIN THE WALL. REFER TO ARCHITECTURAL PLANS FOR ENTIRE SCOPE OF WORK.
3. ALL SERVICES THAT SERVE EXISTING AREAS OUTSIDE OF THE SCOPE OF WORK AREA SHALL BE COORDINATED WITH THE SCOPE OF NEW WORK. THESE SPACES WILL NEED TO REMAIN OPERATIONAL UNTIL INTERCONNECTION TO NEW CONSTRUCTION.
4. PRIOR TO SUBMITTING BID, CONTRACTOR SHALL VISIT THE SITE AND REVIEW ALL EXISTING CONDITIONS. NO COMPENSATION WILL BE GRANTED FOR ADDITIONAL WORK CAUSED BY UNFAMILIARITY WITH SITE CONDITIONS THAT ARE VISABLE OR REDILY IDENTIFIED BY EXPERIENCED OBSERVERS. INCLUDE IN THE BID ALL DEMOLITION WORK REQUIRED FOR A COMPLETE DEMOLITION OF THE SYSTEMS.

FIRE PROTECTION DEMOLITION KEY NOTES

FPD1	WITHIN AREA OF SCOPE OUTLINED ALL SPRINKLERS, BRANCH PIPING, FITTINGS AND ACCESORIES SHALL BE REMOVED. ALL EXISTING SPRINKLER MAINS, DRAINS, RISERS, AND SPRINKLER SERVICE MAIN SHALL REMAIN. BRANCH PIPING SHALL BE CUT BACK TO EXISTING MAINS.
FPD2	EXISTING SPRINKLER PIPING SHALL REMAIN.



1 01 FIRE PROTECTION FIRST FLOOR DEMOLITION PLAN
1/8" = 1'-0"

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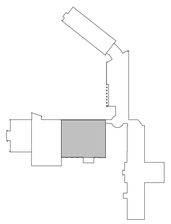


KEY PLAN

STATE PROJECT NO:
056-0052 A

BID SET

01/7/2022

N
ACTUAL NORTH

STATE OF CONNECTICUT
DOUGLAS S. KNAPP
20909
LICENSED
PROFESSIONAL ENGINEER

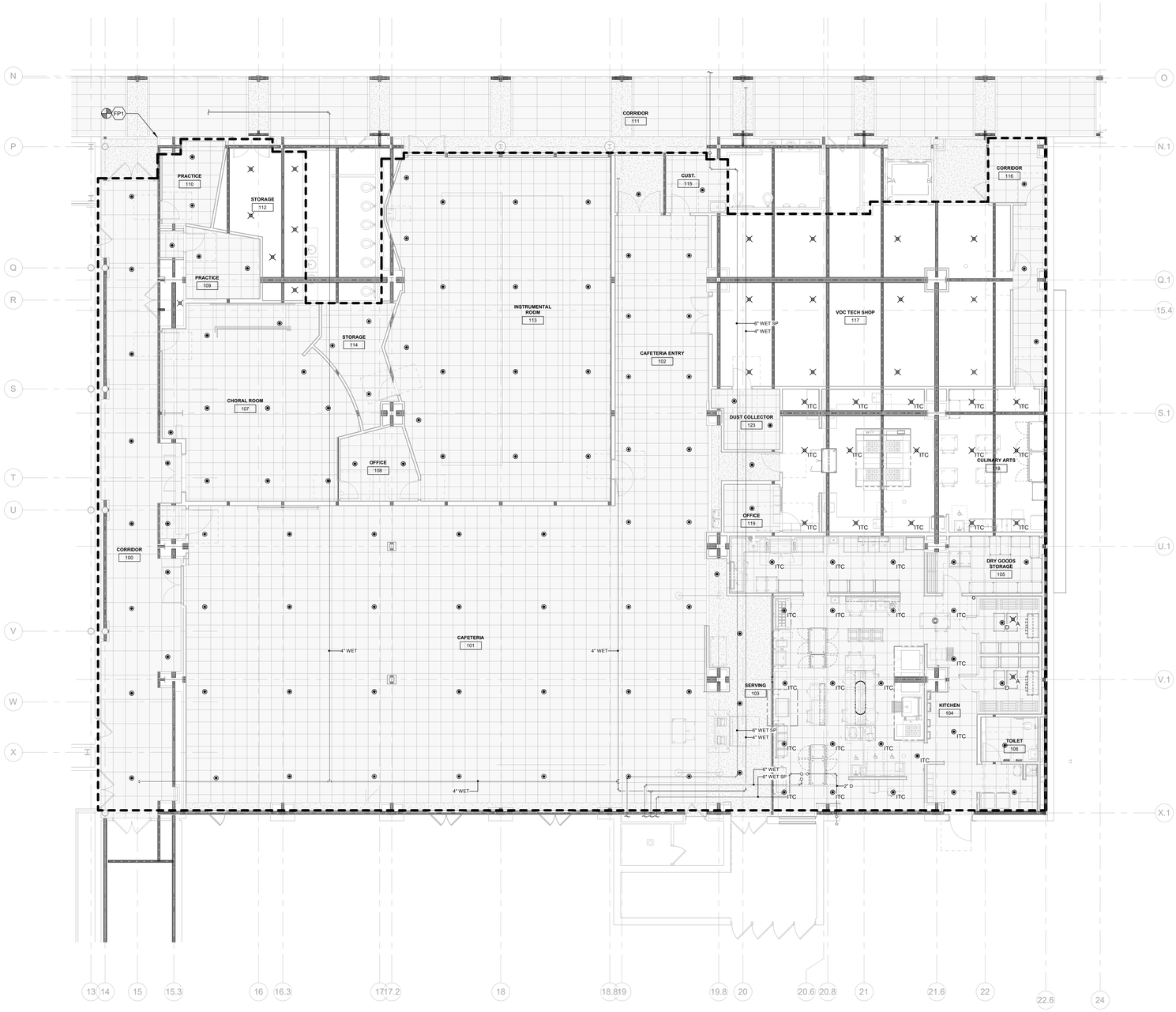
FIRE PROTECTION FIRST FLOOR DEMOLITION PLAN

Scale: AS NOTED
Job No.: 2021218.00
Drawn By: CES
Date: 1/7/2022

FPD101

FIRE PROTECTION KEY NOTES

FP1	CONNECT TO EXISTING SPRINKLER MAIN WITH NEW BRANCH PIPING TO SERVE NEW SPRINKLER HEADS WITHIN SCOPE OF WORK.



1 01 FIRE PROTECTION FIRST FLOOR PLAN
1/8" = 1'-0"

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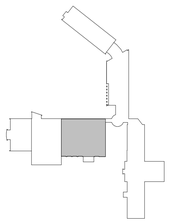


KEY PLAN

STATE PROJECT NO:
056-0052 A

BID SET

01/7/2022

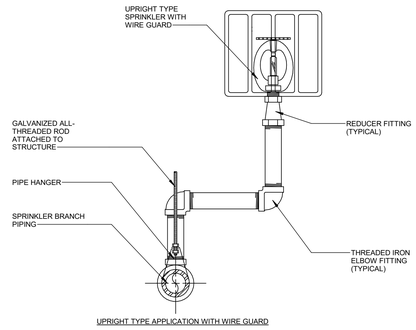
N
ACTUAL NORTH

STATE OF CONNECTICUT
DOUGLAS S. JONES
20909
LICENSED
PROFESSIONAL ENGINEER

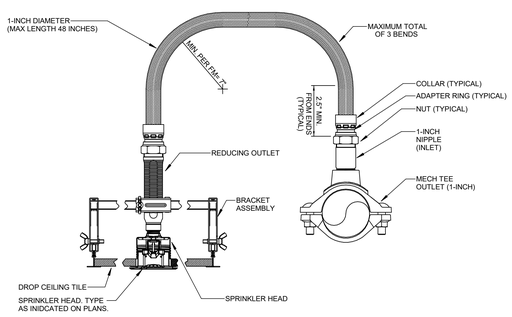
FIRE PROTECTION FIRST FLOOR PLAN

Scale: AS NOTED
Job No.: 2021218.00
Drawn By: CES
Date: 1/7/2022

FP101

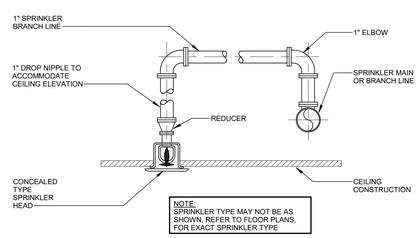


3 TYPICAL SPRINKLER SWING JOINT INSTALLATION DETAIL
NTS

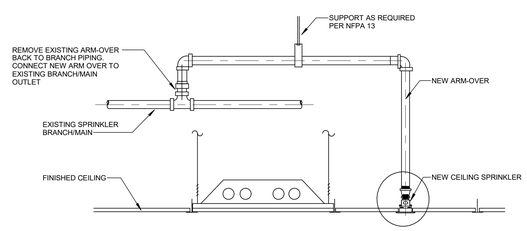


NOTES:
1. REFER TO MANUFACTURERS WRITTEN INSTALLATION INSTRUCTIONS FOR ADDITIONAL DETAILS
2. FLEXIBLE SPRINKLER HEAD ASSEMBLIES SHALL ONLY BE USED IN AREAS WITH ACCESSIBLE CEILINGS

4 FLEXIBLE HOSE SPRINKLER ASSEMBLY
NTS



2 ARMOVER DETAIL
NTS



1 ARMOVER CONNECTION TO EXISTING OUTLET
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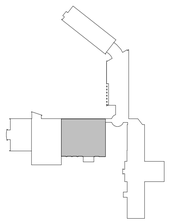

KEY PLAN

STATE PROJECT NO:
056-0052 A

BID SET

01/7/2022

N
ACTUAL NORTH

STATE OF CONNECTICUT
DOUGLAS S. TAYLOR
20006
LICENSED
PROFESSIONAL ENGINEER

FIRE PROTECTION DETAILS

Scale: AS NOTED
Job No.: 2021218.00
Drawn By: CES
Date: 1/7/2022

FP500

PLUMBING PIPING LEGEND

SYMBOL	DESCRIPTION
	COLD WATER
	HOT WATER
	HOT WATER RECIRCULATION
SAN	SANITARY DRAIN/WASTE ABOVE FLOOR
SAN	SANITARY DRAIN/WASTE BELOW FLOOR
V	VENT
IW	INDIRECT WASTE
PST	STORM ABOVE FLOOR (PRIMARY)
PST	STORM BURIED (PRIMARY)
SST	STORM ABOVE FLOOR (SECONDARY)
G	NATURAL GAS
GW	GREASE WASTE
GW	GREASE WASTE BELOW FLOOR
TW	TEMPERED WATER (65°F)
	PIPE RISE
	PIPE DROP
	PIPE TEE TOWARDS (UP IN PLAN)
	PIPE TEE AWAY (DOWN IN PLAN)
	PIPE DROP AND RUN
	DIRECTION OF FLOW
	PIPE TRAP
	DIRT LEG
CO	CLEANOUT
	UNION OR FLANGE
	BLIND FLANGE
	END CAP
	REDUCER

GENERAL ABBREVIATIONS

AD	ACCESS DOOR
ADJ	ADJUSTABLE
AFF	ABOVE FINISHED FLOOR
ALT	ALTERNATE
AHJ	AUTHORITY HAVING JURISDICTION
AP	ACCESS PANEL
AV	ACID VENT
AVTR	ACID VENT THRU ROOF
AW	ACID WASTE
BAS	BUILDING AUTOMATION SYSTEM
BTU	BRITISH THERMAL UNIT
BTUH	BTU / HOUR
BOP	BOTTOM OF PIPE
CD	CONDENSATE DRAIN
CFH	CUBIC FEET PER HOUR
CI	CAST IRON
CO	CLEANOUT
CW	COLD WATER
DIA	DIAMETER
DN	DOWN
DSN	DOWN SPOUT NOZZLE
DW	DIRECT WASTE
ELEC	ELECTRICAL
E	EXISTING
ER	EXISTING TO REMOVE
ET	EXPANSION TANK
EWS	EMERGENCY EYEWASH/SHOWER
°F	DEGREES FAHRENHEIT
FCO	FLOOR CLEANOUT
FFE	FINISHED FLOOR ELEVATION
FGCO	FINISHED GRADE CLEANOUT
FLA	FULL LOAD AMPS
FLD	FLOOR DRAIN
FS	FLOOR SINK
FT	FEET
FT WG	FEET HEAD
G	GAS
GALL	GALLONS
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GSV	GAS SOLENOID VALVE
GW	GREASE WASTE
GV	GAS VENT
HB	HOSE BIB
HW	HOT WATER
HD	HEAD
HP	HORSEPOWER
HZ	HERTZ
HWR	HOT WATER RECIRCULATION
INT	INTERCEPTOR
INV ELEV	INVERT ELEVATION
IW	INDIRECT WASTE
KW	KILOWATT
LAV	LAVATORY
MAX	MAXIMUM
MECH	MECHANICAL
MBH	THOUSAND BTU PER HOUR
MCA	MINIMUM CIRCUIT AMPACITY
MIN	MINIMUM
NIC	NOT IN CONTRACT
NG	NATURAL GAS
NTS	NOT TO SCALE
OD	OVERFLOW DRAIN
OW	OIL WASTE
PCD	PUMPED CONDENSATE DRAIN
PLBG	PLUMBING
PSIG	POUNDS PER SQUARE INCH GAUGE
QTY	QUANTITY
RD	ROOF DRAIN
RPBP	REDUCED PRESSURE BACKFLOW PREVENTER
RTU	ROOFTOP UNIT
SAN	SANITARY
SQFT / SF	SQUARE FEET
SS	SOIL STACK
ST	STORM
SST	SECONDARY STORM
TEMP	TEMPERATURE
TW	TEMPERED WATER
TYP	TYPICAL
V	VENT
VS	VENT STACK
VTR	VENT THRU ROOF
W	WASTE
WS	WASTE STACK
W&V	WASTE AND VENT

PLUMBING VALVE AND SYMBOL LEGEND

SYMBOL	DESCRIPTION
	BALL VALVE
	BALL VALVE WITH HOSE BIBB, CAP & CHAIN (DRAIN VALVES)
	BUTTERFLY VALVE
	GLOBE VALVE
	GATE VALVE
	OS&Y VALVE
	PLUG VALVE
	PRESSURE REDUCING VALVE
	CHECK VALVE
	Y-PATTERN STRAINER
	AUTOMATIC CONTROL VALVE, MODULATING ACTUATOR
	AUTOMATIC CONTROL VALVE, TWO POSITION ACTUATOR
	THREE WAY AUTOMATIC CONTROL VALVE, MODULATING ACTUATOR
	THREE WAY AUTOMATIC CONTROL VALVE, TWO POSITION ACTUATOR
	AUTOMATIC FLOW CONTROL VALVE (PRESSURE INDEPENDENT)
	COMBINATION SHUT OFF/BALANCING VALVE (CIRCUIT SETTER)
FM	FLOW MEASURING DEVICE
	DOUBLE CHECK VALVE ASSEMBLY
	REDUCED PRESSURE BACKFLOW PREVENTER ASSEMBLY AND DRAIN
	GATE VALVE IN ROAD CURB BOX
	BACKWATER VALVE
	PUMP
M	WATER METER
	FLOOR DRAIN / FLOOR SINK / AREA DRAIN WITH PIPE TRAP
	ROOF / OVERFLOW DRAIN
TP	TRAP PRIMER
GM	GAS METER
	WATER HAMMER ARRESTOR
	ADA ACCESSIBLE FIXTURE

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GRANBY, CT

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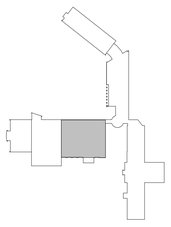


KEY PLAN

STATE PROJECT NO:
056-0052 A

BID SET

01/7/2022

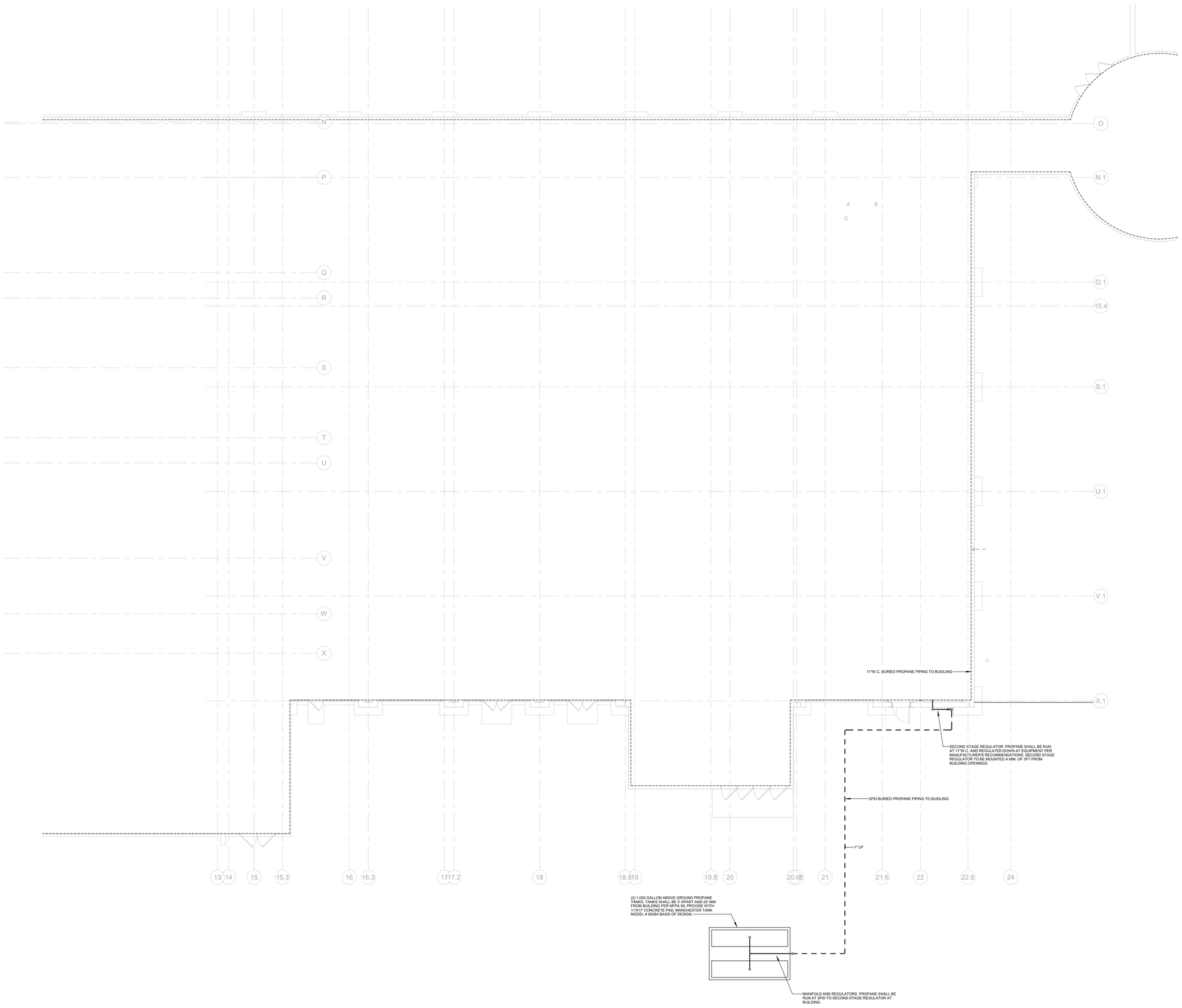
N
ACTUAL NORTH

STATE OF CONNECTICUT · DOUGLAS S. PARE · 20909 · LICENSED · PROFESSIONAL ENGINEER

PLUMBING ABBREVIATIONS, NOTES AND SYMBOLS

Scale: AS NOTED
Job No.: 2021218.00
Drawn By: CES
Date: 1/7/2022

P000



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

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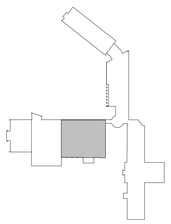

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ACTUAL NORTH

STATE OF CONNECTICUT
DOUGLAS S. KING
20909
LICENSED
PROFESSIONAL ENGINEER

PLUMBING SITE UTILITY PLAN

Scale: AS NOTED
Job No.: 2021218.00
Drawn By: CES
Date: 1/7/2022

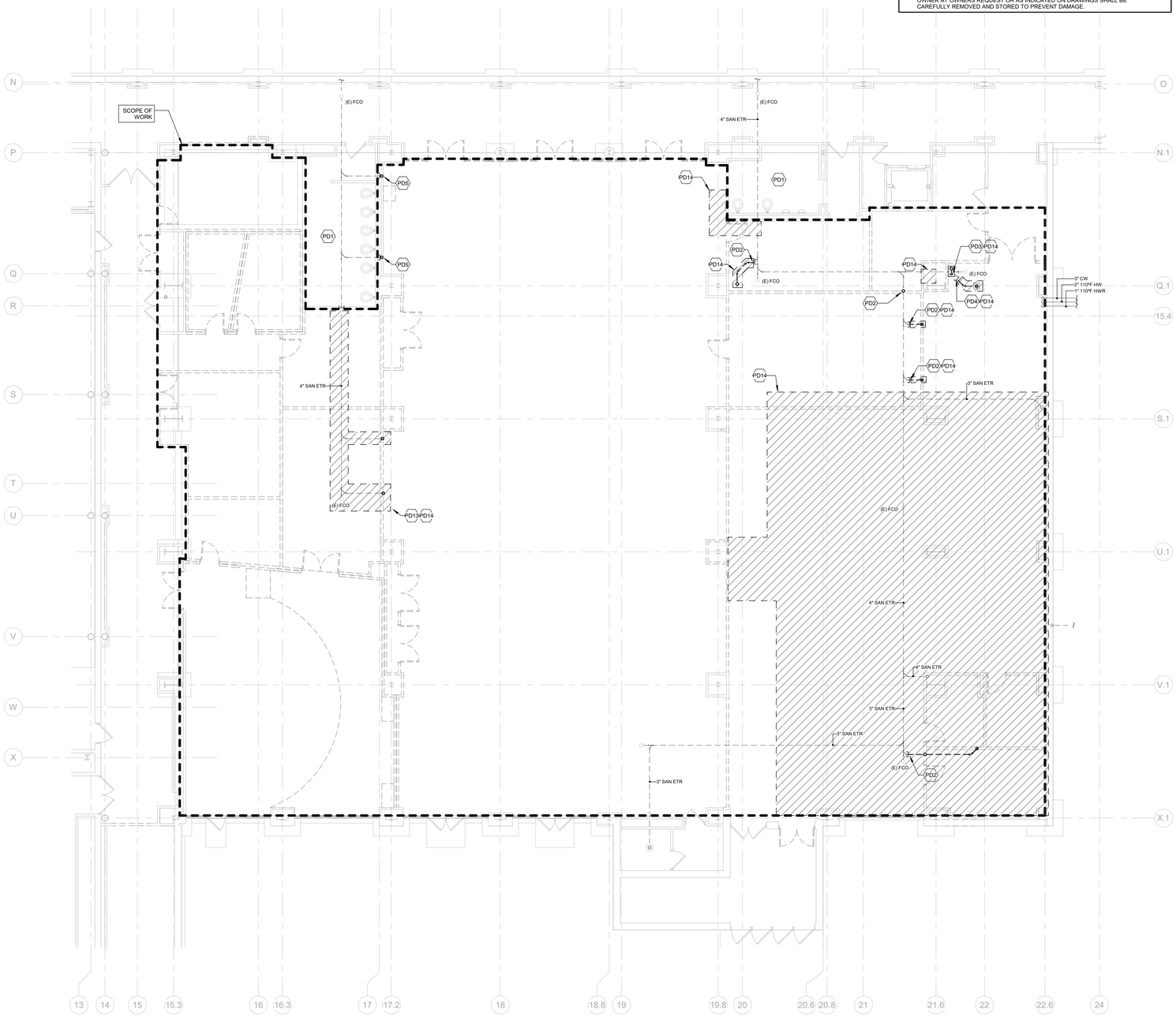
PS100

PLUMBING DEMOLITION GENERAL NOTES

1. THE PLUMBING CONTRACTOR SHALL REMOVE ALL PLUMBING FIXTURES, CARRIERS, TRIM, ACCESSORIES, EQUIPMENT, FLOOR DRAINS AND PIPING AS SHOWN OR INDICATED ON THE DRAWINGS.
2. ALL PIPING TO BE REMOVED SHALL BE REMOVED COMPLETELY OR AS OTHERWISE SHOWN OR INDICATED ON DRAWINGS. ALL PIPE HANGERS, SLEEVES, RISER CLAMPS, ETC. SHALL BE REMOVED COMPLETELY WITH PIPING. NO EXISTING HANGER SYSTEMS SHALL BE REUSED FOR NEW PIPING.
3. ALL PIPING TO BE REMOVED SHALL BE REMOVED TO BELOW FLOOR, ABOVE CEILING OR IN WALLS BACK TO MAINS OR SHUT OFF VALVES AT MAINS AND PROPERLY CAPPED PER CODE WITHOUT LEAVING DEAD ENDED PIPING.
4. NO EQUIPMENT OR DEVICES THAT HAVE BEEN DISCONNECTED AND OR ABANDONED SHALL REMAIN.
5. ALL EXISTING PIPING AND EQUIPMENT SHOWN HAS BEEN TAKEN FROM THE BEST AVAILABLE EXISTING INFORMATION. THE DRAWINGS ARE DIAGRAMMATIC AND ALL FIXTURES, PIPING, AND DEVICES MAY NOT BE SHOWN. THE INTENT OF THESE DRAWINGS IS THAT IN ALL AREAS OF REMOVATION THAT THEY ARE REMOVED, WHETHER OR NOT SHOWN (UNLESS INDICATED TO REMAIN).
6. THE PLUMBING CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH THE EXISTING SYSTEMS AND CONDITIONS IN AREAS OF RENOVATION.
7. ANY SYSTEMS OR EQUIPMENT TO REMAIN ACTIVE DURING RENOVATION SHALL BE KEPT IN OPERATION BY PROVIDING TEMPORARY PIPING CONNECTIONS AS REQUIRED UNTIL NEW SYSTEMS ARE INSTALLED AND OPERATIONAL.
8. THE PLUMBING CONTRACTOR SHALL COORDINATE WITH THE OWNER, CM, AND OR GENERAL CONTRACTOR ANY AND ALL PHASING OF THE PLUMBING DEMOLITION WORK IN ORDER TO SATISFY THE CONSTRUCTION SCHEDULE AND OWNERS OCCUPANCY REQUIREMENTS.
9. THE PLUMBING CONTRACTOR SHALL ALSO REVIEW THE ARCHITECTURAL DEMOLITON DRAWINGS AS PART OF THIS CONTRACT FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
10. ALL SERVICE INTERUPTIONS SHALL BE COORDINATED AND APPROVED WITH THE OWNER A MINIMUM OF 5 DAYS IN ADVANCE PRIOR TO COMMENCEMENT OF ANY WORK.
11. THE PLUMBING CONTRACTOR SHALL COORDINATE THEIR DEMOLITION WORK WITH THAT OF OTHER TRADES IN ORDER TO AVOID CONFLICTS.
12. ANY FIXTURE OR EQUIPMENT TO BE REMOVED AND REUSED OR RETURNED TO OWNER AT OWNERS REQUEST OR AS INDICATED ON DRAWINGS SHALL BE CAREFULLY REMOVED AND STORED TO PREVENT DAMAGE.

PLUMBING DEMOLITION KEY NOTES

PD1	EXISTING PLUMBING PIPING SUPPLYING BATHROOM FIXTURES OUT OF SCOPE SHALL REMAIN AND BE MAINTAINED THROUGHOUT CONSTRUCTION.
PD2	EXISTING SANITARY TO BE CUT AND CAPPED BACK TO MAIN.
PD3	EXISTING VENT PIPING BELOW SLAB TO BE REMOVED.
PD4	EXISTING FLOOR DRAIN TO BE REMOVED. EXISTING SANITARY TO BE CUT AND CAPPED BACK TO MAIN.
PD5	EXISTING SAN TO BE CUT AND CAPPED FLUSH WITH FLOOR.
PD6	EXISTING PLUMBING FIXTURE AND PLUMBING EQUIPMENT TO BE REMOVED. EXISTING CW, HW, SAN AND VENT SHALL BE REMOVED.
PD7	EXISTING VENT SHALL BE CUT AND CAPPED BACK TO MAIN.
PD8	EXISTING CW AND HW SHALL BE CUT AND CAPPED BACK TO MAIN.
PD9	EXISTING CW, HW, AND HWR SHALL BE CUT BACK TO MAIN AND MADE READY FOR FUTURE CONNECTION.
PD10	EXISTING SAN DROP TO BE RELOCATED. EXISTING SAN SHALL BE CUT BACK TO LOCATION INDICATED AND MADE READY FOR FUTURE CONNECTION.
PD11	EXISTING CW SHALL BE CUT BACK TO LOCATION INDICATED AND MADE READY FOR FUTURE CONNECTION.
PD12	EXISTING VENT SHALL BE CUT AND CAPPED BACK TO EXISTING BATHROOM.
PD13	EXISTING SAN SHALL BE CUT AND CAPPED BACK TO EXISTING BATHROOM.
PD14	EXISTING SLAB SHALL BE DEMOLISHED. REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATION AND DETAILS.



1 01 PLUMBING UNDERGROUND DEMOLITION FLOOR PLAN
1/8" = 1'-0"

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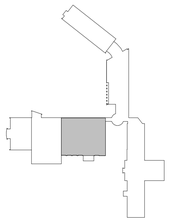

KEY PLAN

STATE PROJECT NO:
056-0052 A

BID SET

01/7/2022

ACTUAL NORTH

STATE OF CONNECTICUT DOUGLAS S. LAVOIE 20909 LICENSED PROFESSIONAL ENGINEER

PLUMBING UNDERGROUND DEMOLITION PLAN

Scale: AS NOTED
Job No.: 2021218.00
Drawn By: CES
Date: 1/7/2022

PD100

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PD2	EXISTING SANITARY TO BE CUT AND CAPPED BACK TO MAIN.
PD3	EXISTING VENT PIPING BELOW SLAB TO BE REMOVED.
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PD5	EXISTING SAN TO BE CUT AND CAPPED FLUSH WITH FLOOR.
PD6	EXISTING PLUMBING FIXTURE AND PLUMBING EQUIPMENT TO BE REMOVED. EXISTING CW, HW, SAN AND VENT SHALL BE REMOVED.
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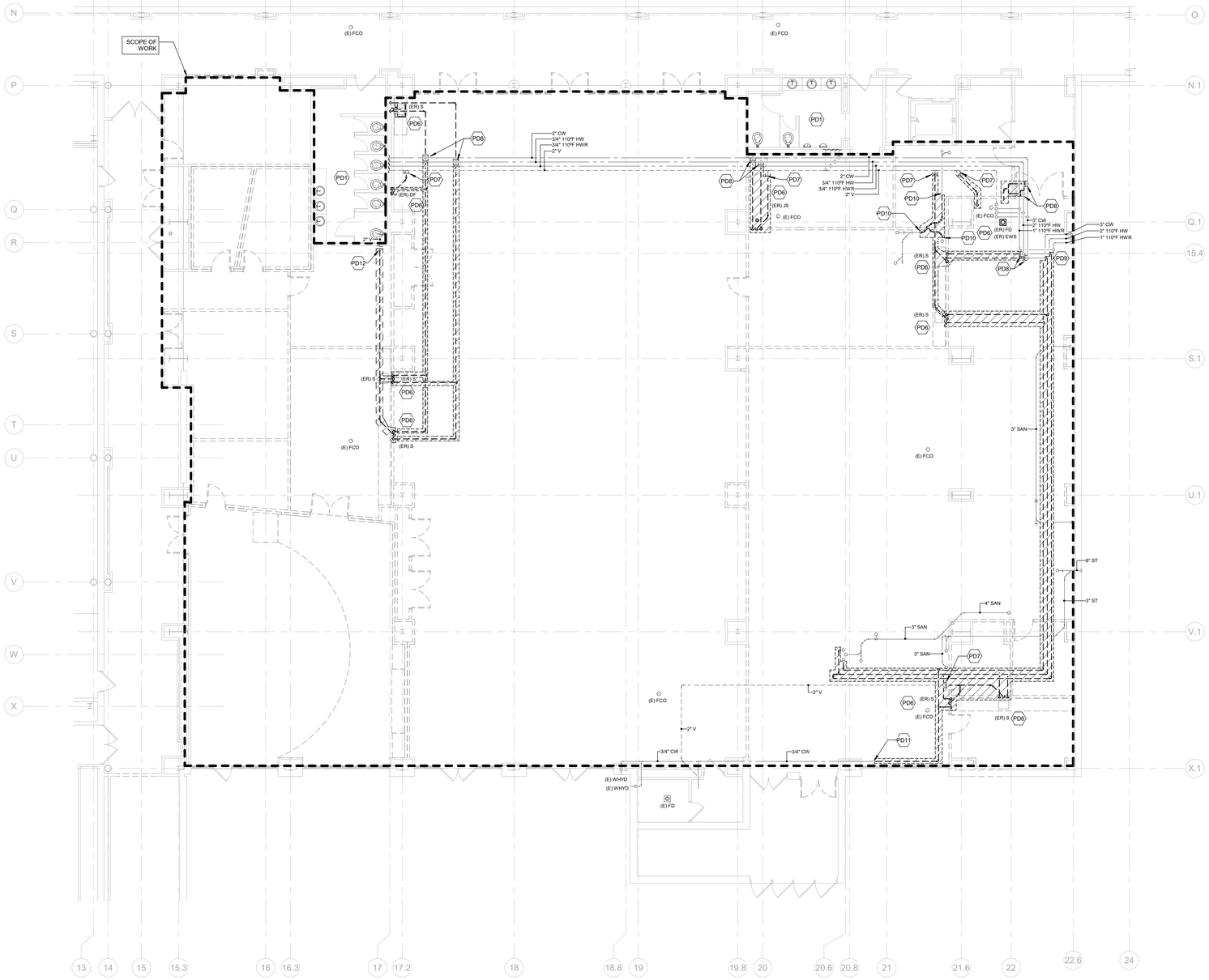

1 02 PLUMBING FIRST FLOOR DEMOLITION PLAN
1/8" = 1'-0"

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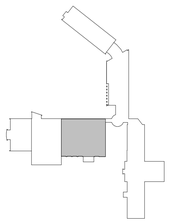

KEY PLAN

STATE PROJECT NO:
056-0052 A

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01/7/2022

ACTUAL NORTH

STATE OF CONNECTICUT
DOUGLAS S. TAYLOR
20909
LICENSED
PROFESSIONAL ENGINEER

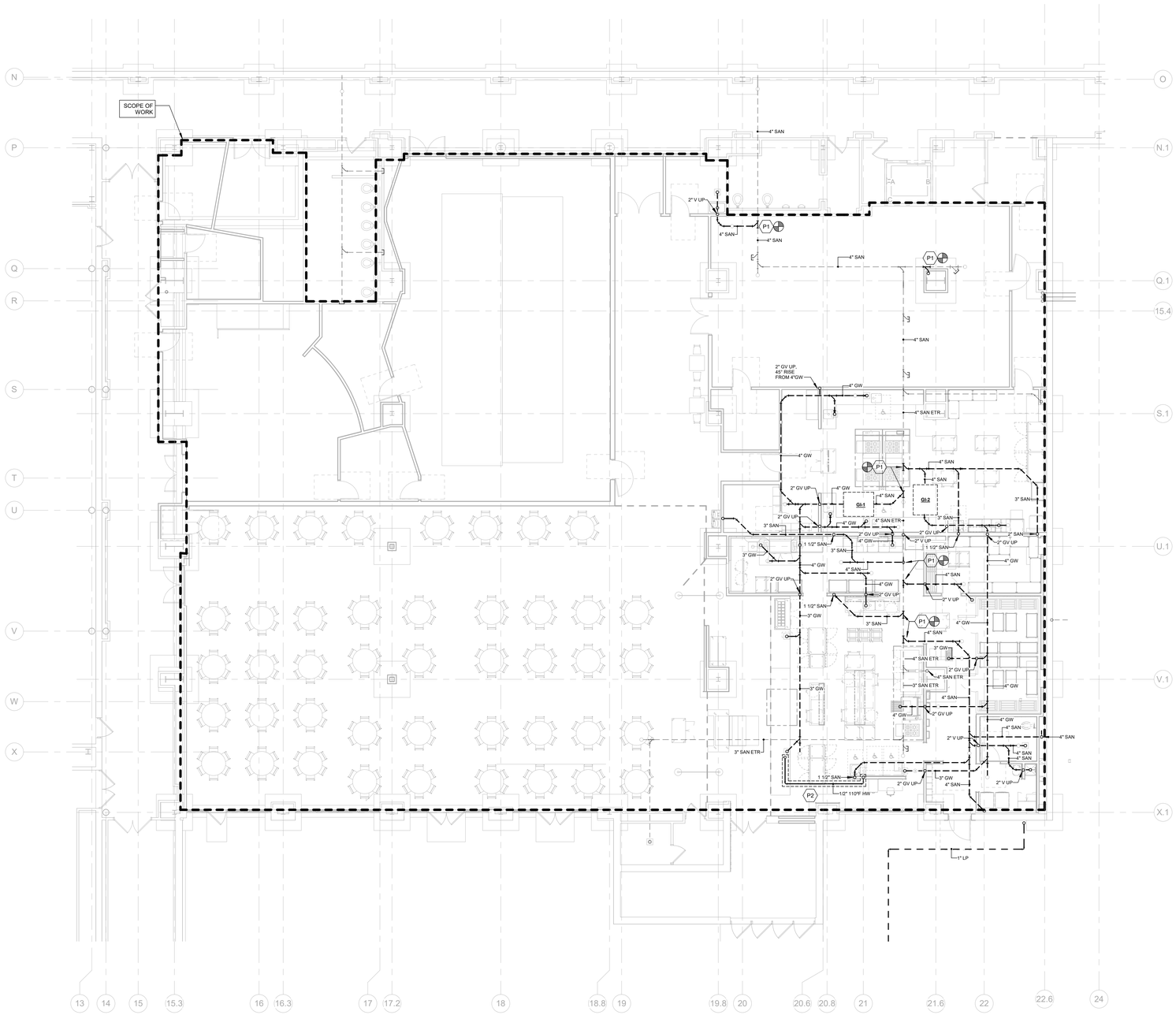
PLUMBING FIRST FLOOR DEMOLITION PLAN

Scale: AS NOTED
Job No.: 2021218.00
Drawn By: CES
Date: 1/7/2022

PD101

PLUMBING KEY NOTES

P1	CONNECT TO EXISTING 4" SAN WITH NEW 4" SAN CONNECTION.
P2	WATER PIPING BELOW SLAB SHALL BE TYPE K COPPER WITH ELASTOMERIC INSULATION.
P3	CONNECT TO EXISTING SAN WITH NEW SAN CONNECTION. MATCH EXISTING SIZE AND ELEVATION.
P4	CONNECT TO EXISTING CW, HW, HWR WITH NEW 2" CW, 1 1/2"HW AND 3/4"HWR CONNECTIONS.
P5	CONNECT TO EXISTING CW WITH NEW 3/4" CW CONNECTIONS.
P6	BALANCING VALVE SET TO 0.5 GPM.
P7	BALANCING VALVE SET TO 0.5 GPM. REFER TO DETAIL #3/P500.
P8	CONNECT TO EXISTING CW, HW, VENT WITH NEW 3/4"CW, 3/4"HW AND 2"V CONNECTIONS TO SUPPLY JS-1.
P9	CONNECT TO EXISTING CW, HW, VENT WITH NEW 1/2"CW, 1/2"HW AND 1 1/2"V CONNECTIONS TO SUPPLY S-1. CONNECT TO EXISTING SAN WITHIN PLUMBING WALL WITH NEW 2" SAN CONNECTION.
P10	MANUAL SHUTOFF VALVE, SOLENOID VALVE AND RECESSED ENCLOSURE FOR EMERGENCY GAS SHUTOFF FURNISHED/ INSTALLED BY DIV.22, WIRED TO SHUTOFF SYSTEM BY DIV.26. VALVE SHALL BE 120V NORMALLY CLOSED TYPE. REFER TO DETAIL #4/P500. COORDINATE MOUNTING HEIGHT OF ENCLOSURE WITH ARCHITECT.
P11	CONNECT NEW 4"NG TO EXISTING NATURAL GAS METER ASSEMBLY ON THE EXTERIOR OF THE BUILDING. PROVIDE NATURAL GAS REGULATOR, PRESSURE RELIEF VALVE AND SHUT OFF VALVE ON NEW 4" GAS MAIN. NATURAL GAS REGULATOR SHALL BE SET TO 7-14"W.C..
P12	PIPING TO BE RUN IN SLEEVE IN ACCORDANCE WITH NFPA 54. SLEEVE SHALL EXTEND A MINIMUM OF 1" ABOVE SLAB ON BOTH ENDS. PROVIDE VENT OPENINGS ON BOTH ENDS OF SLEEVE IN ACCESSIBLE LOCATIONS.
P13	PROVIDE MIXING VALVE AND EYE WASH DIRECTLY ABOVE JANITOR SINK. SEE DETAIL #2/P500.
P14	EXISTING CW AND HW SHALL BE CUT AND CAPPED WITHIN WET WALL. EXISTING SHOWER TRIM SHALL BE REMOVED. EXISTING FLOOR DRAIN SHALL BE REMOVED AND SANITARY SHALL BE CUT AND CAPPED OUTSIDE OF THE NEW CHASE. OTHER FLOOR DRAINS WITHIN SHOWER AREA TO BE MAINTAINED. REVISE EXISTING WASTE PIPING AS REQUIRED. OTHER EXISTING PIPING WITHIN NEW CHASE SHALL BE RE ROUTED AROUND CHASE TO MAINTAIN PLUMBING SYSTEMS.



1 00 PLUMBING UNDERGROUND FLOOR PLAN
1/8" = 1'-0"

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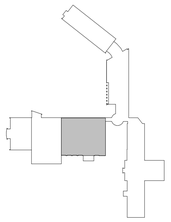

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ACTUAL NORTH

STATE OF CONNECTICUT
DOUGLAS S. LAUBER
20009
LICENSED
PROFESSIONAL ENGINEER

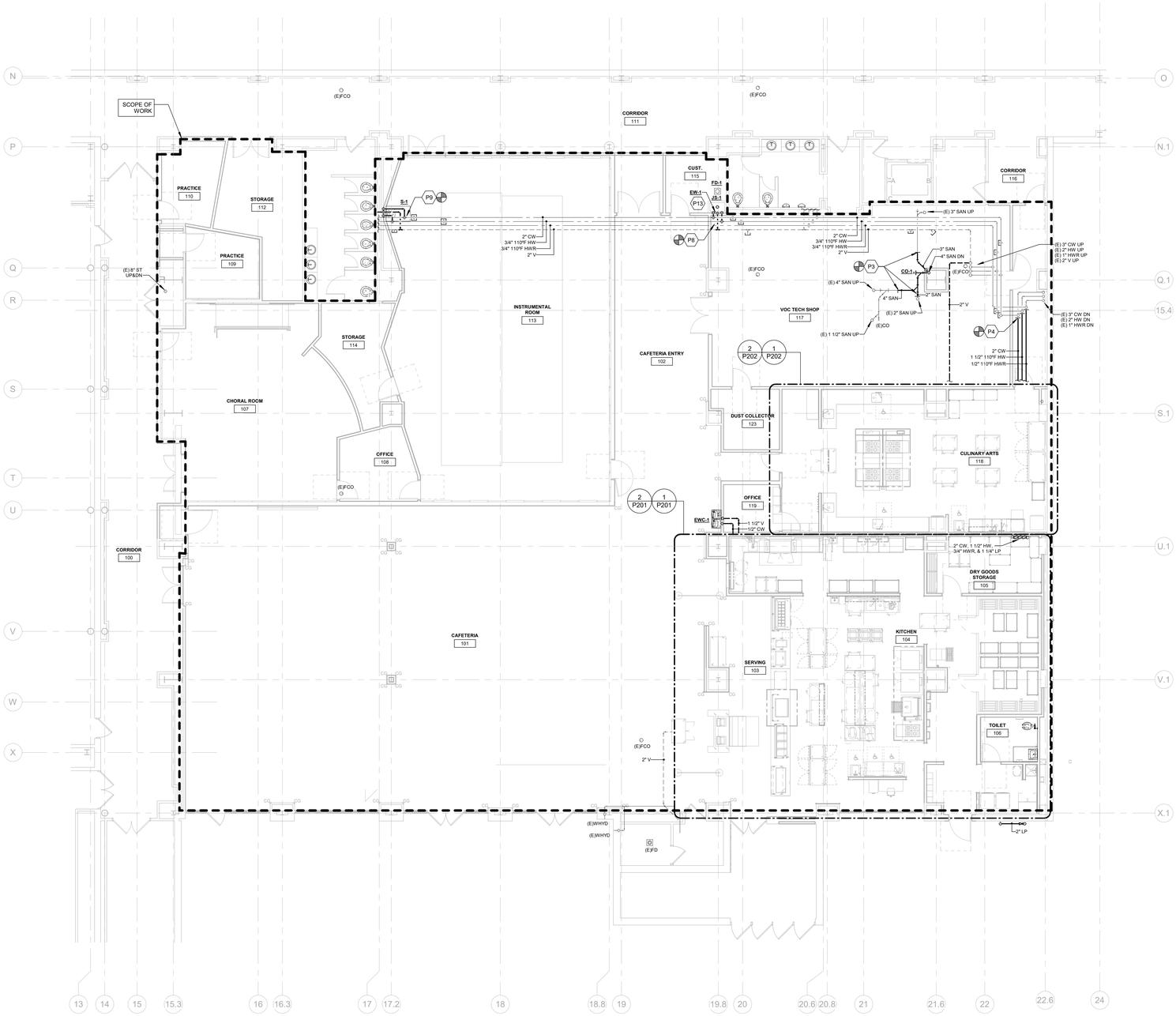
PLUMBING UNDERGROUND FLOOR PLAN

Scale: AS NOTED
Job No.: 2021218.00
Drawn By: CES
Date: 1/7/2022

P100

PLUMBING KEY NOTES

P1	CONNECT TO EXISTING 4" SAN WITH NEW 4" SAN CONNECTION.
P2	WATER PIPING BELOW SLAB SHALL BE TYPE K COPPER WITH ELASTOMERIC INSULATION.
P3	CONNECT TO EXISTING SAN WITH NEW SAN CONNECTION. MATCH EXISTING SIZE AND ELEVATION.
P4	CONNECT TO EXISTING CW, HW, HWR WITH NEW 2" CW, 1 1/2"HW AND 3/4"HWR CONNECTIONS.
P5	CONNECT TO EXISTING CW WITH NEW 3/4" CW CONNECTIONS.
P6	BALANCING VALVE SET TO 0.5 GPM.
P7	BALANCING VALVE SET TO 0.5 GPM. REFER TO DETAIL #3/P500.
P8	CONNECT TO EXISTING CW, HW, VENT WITH NEW 3/4"CW, 3/4"HW AND 2"V CONNECTIONS TO SUPPLY JS-1.
P9	CONNECT TO EXISTING CW, HW, VENT WITH NEW 1/2"CW, 1/2"HW AND 1 1/2"V CONNECTIONS TO SUPPLY S-1. CONNECT TO EXISTING SAN WITHIN PLUMBING WALL WITH NEW 2" SAN CONNECTION.
P10	MANUAL SHUTOFF VALVE, SOLENOID VALVE AND RECESSED ENCLOSURE FOR EMERGENCY GAS SHUTOFF FURNISHED/ INSTALLED BY DIV.22, WIRED TO SHUTOFF SYSTEM BY DIV.26. VALVE SHALL BE 120V NORMALLY CLOSED TYPE. REFER TO DETAIL #4/P500. COORDINATE MOUNTING HEIGHT OF ENCLOSURE WITH ARCHITECT.
P11	CONNECT NEW 4"NG TO EXISTING NATURAL GAS METER ASSEMBLY ON THE EXTERIOR OF THE BUILDING. PROVIDE NATURAL GAS REGULATOR, PRESSURE RELIEF VALVE AND SHUT OFF VALVE ON NEW 4" GAS MAIN. NATURAL GAS REGULATOR SHALL BE SET TO 7-14"W.C..
P12	PIPING TO BE RUN IN SLEEVE IN ACCORDANCE WITH NFPA 54. SLEEVE SHALL EXTEND A MINIMUM OF 1" ABOVE SLAB ON BOTH ENDS. PROVIDE VENT OPENINGS ON BOTH ENDS OF SLEEVE IN ACCESSIBLE LOCATIONS.
P13	PROVIDE MIXING VALVE AND EYE WASH DIRECTLY ABOVE JANITOR SINK. SEE DETAIL #2/P500.
P14	EXISTING CW AND HW SHALL BE CUT AND CAPPED WITHIN WET WALL. EXISTING SHOWER TRIM SHALL BE REMOVED. EXISTING FLOOR DRAIN SHALL BE REMOVED AND SANITARY SHALL BE CUT AND CAPPED OUTSIDE OF THE NEW CHASE. OTHER FLOOR DRAINS WITHIN SHOWER AREA TO BE MAINTAINED. REVISE EXISTING WASTE PIPING AS REQUIRED. OTHER EXISTING PIPING WITHIN NEW CHASE SHALL BE RE ROUTED AROUND CHASE TO MAINTAIN PLUMBING SYSTEMS.



1 01 PLUMBING FIRST FLOOR PLAN
1/8" = 1'-0"

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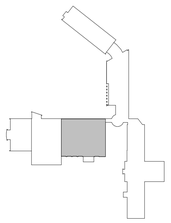


KEY PLAN

STATE PROJECT NO:
056-0052 A

BID SET

01/7/2022

ACTUAL NORTH

STATE OF CONNECTICUT
DOUGLAS S. MAGNUSON
20909
LICENSED
PROFESSIONAL ENGINEER

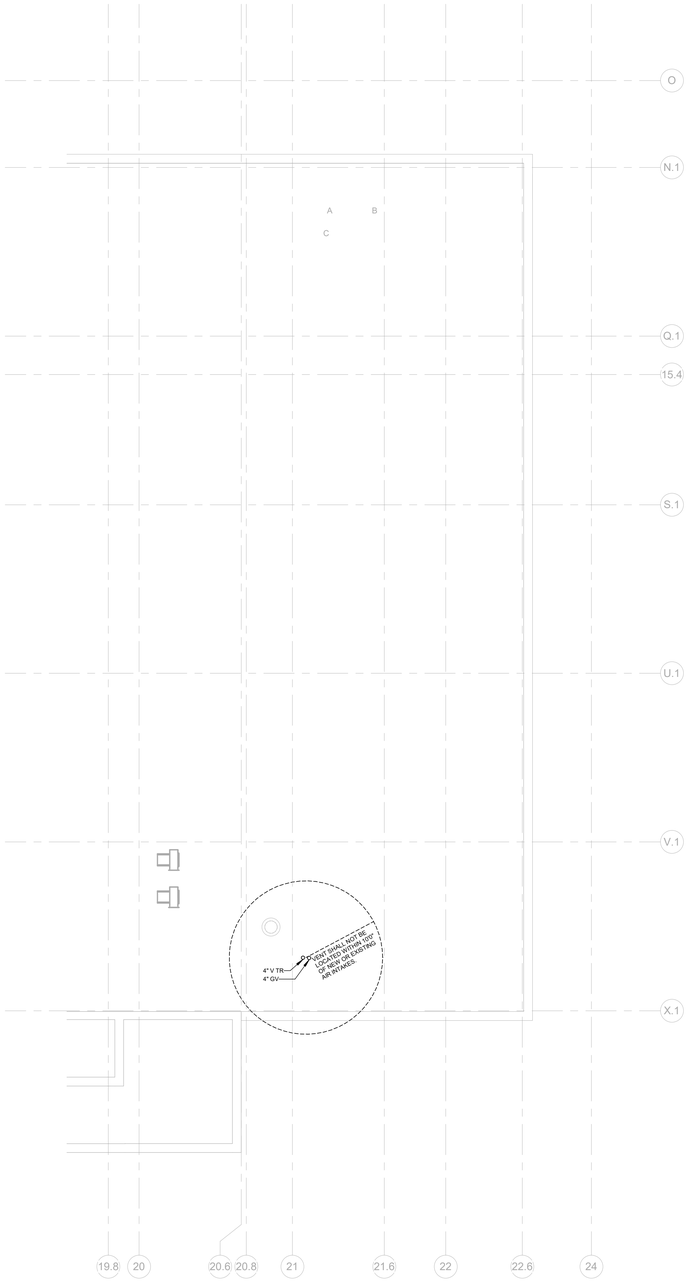
PLUMBING FIRST FLOOR PLAN

Scale: AS NOTED
Job No.: 2021218.00
Drawn By: CES
Date: 1/7/2022

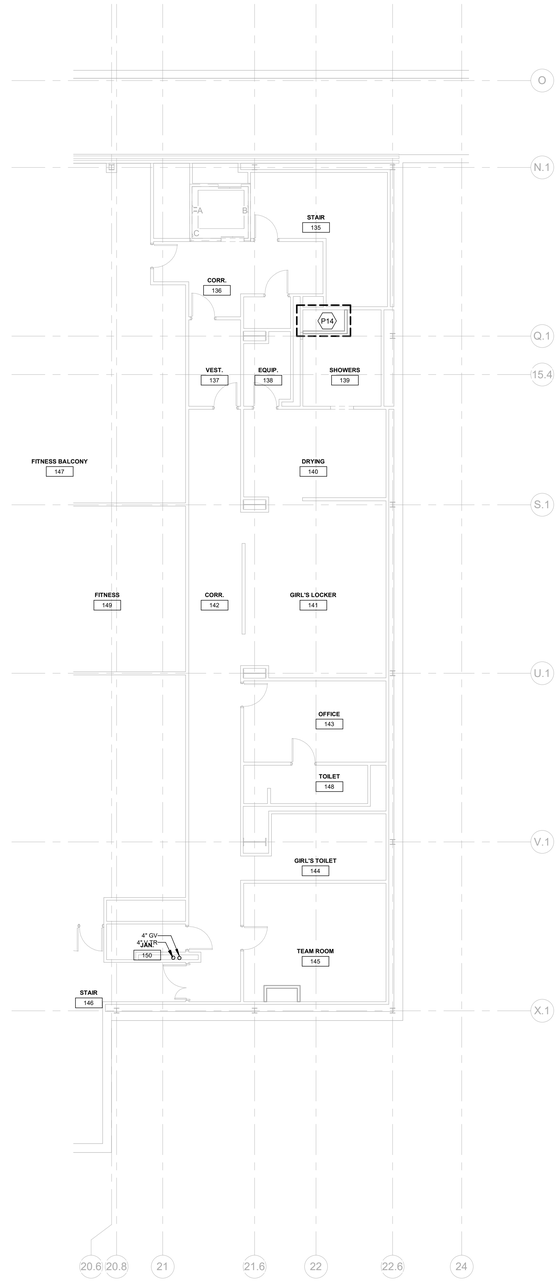
P101

PLUMBING KEY NOTES

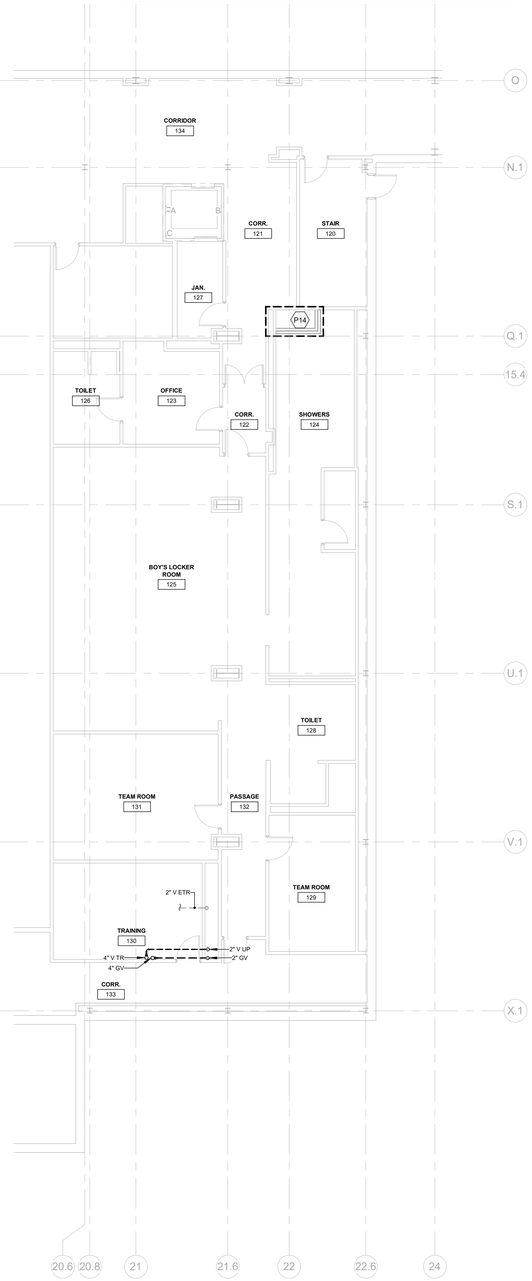
- P1 CONNECT TO EXISTING 4" SAN WITH NEW 4" SAN CONNECTION.
- P2 WATER PIPING BELOW SLAB SHALL BE TYPE K COPPER WITH ELASTOMERIC INSULATION.
- P3 CONNECT TO EXISTING SAN WITH NEW SAN CONNECTION. MATCH EXISTING SIZE AND ELEVATION.
- P4 CONNECT TO EXISTING CW, HW, HWR WITH NEW 2" CW, 1 1/2"HW AND 3/4"HWR CONNECTIONS.
- P5 CONNECT TO EXISTING CW WITH NEW 3/4" CW CONNECTIONS.
- P6 BALANCING VALVE SET TO 0.5 GPM.
- P7 BALANCING VALVE SET TO 0.5 GPM. REFER TO DETAIL #3/P500.
- P8 CONNECT TO EXISTING CW, HW, VENT WITH NEW 3/4"CW, 3/4"HW AND 2"V CONNECTIONS TO SUPPLY JS-1
- P9 CONNECT TO EXISTING CW, HW, VENT WITH NEW 1/2"CW, 1/2"HW AND 1 1/2"V CONNECTIONS TO SUPPLY S-1. CONNECT TO EXISTING SAN WITHIN PLUMBING WALL WITH NEW 2" SAN CONNECTION.
- P10 MANUAL SHUTOFF VALVE, SOLENOID VALVE AND RECESSED ENCLOSURE FOR EMERGENCY GAS SHUTOFF FURNISHED/ INSTALLED BY DIV.22, WIRED TO SHUTOFF SYSTEM BY DIV.26. VALVE SHALL BE 120V NORMALLY CLOSED TYPE. REFER TO DETAIL #4/P500. COORDINATE MOUNTING HEIGHT OF ENCLOSURE WITH ARCHITECT.
- P11 CONNECT NEW 4"NG TO EXISTING NATURAL GAS METER ASSEMBLY ON THE EXTERIOR OF THE BUILDING. PROVIDE NATURAL GAS REGULATOR, PRESSURE RELIEF VALVE AND SHUT OFF VALVE ON NEW 4" GAS MAIN. NATURAL GAS REGULATOR SHALL BE SET TO 7-14"W.C..
- P12 PIPING TO BE RUN IN SLEEVE IN ACCORDANCE WITH NFPA 54. SLEEVE SHALL EXTEND A MINIMUM OF 1" ABOVE SLAB ON BOTH ENDS. PROVIDE VENT OPENINGS ON BOTH ENDS OF SLEEVE IN ACCESSIBLE LOCATIONS.
- P13 PROVIDE MIXING VALVE AND EYE WASH DIRECTLY ABOVE JANITOR SINK. SEE DETAIL #2/P500.
- P14 EXISTING CW AND HW SHALL BE CUT AND CAPPED WITHIN WET WALL. EXISTING SHOWER TRIM SHALL BE REMOVED. EXISTING FLOOR DRAIN SHALL BE REMOVED AND SANITARY SHALL BE CUT AND CAPPED OUTSIDE OF THE NEW CHASE. OTHER FLOOR DRAINS WITHIN SHOWER AREA TO BE MAINTAINED. REVISE EXISTING WASTE PIPING AS REQUIRED. OTHER EXISTING PIPING WITHIN NEW CHASE SHALL BE RE ROUTED AROUND CHASE TO MAINTAIN PLUMBING SYSTEMS.



3 04 PLUMBING ROOF PLAN
1/8" = 1'-0"



2 03 PLUMBING THIRD FLOOR PLAN
1/8" = 1'-0"



1 02 PLUMBING SECOND FLOOR PLAN
1/8" = 1'-0"

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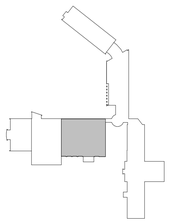

KEY PLAN

STATE PROJECT NO:
056-0052 A

BID SET

01/7/2022

N
ACTUAL NORTH

STATE OF CONNECTICUT
DOUGLAS S. LAURIE
20909
LICENSED
PROFESSIONAL ENGINEER

PLUMBING FLOOR PLANS

Scale: AS NOTED
Job No.: 2021218.00
Drawn By: CES
Date: 1/7/2022

P102

FOOD SERVICE EQUIPMENT & CONNECTIONS SCHEDULE

ITEM	QTY	DESCRIPTION	PLUMBING CONNECTIONS
1	1	MOP SINK	1/2"HW, 1/2"CW, 2"W
6	1	FRONT LOAD CLOTHES WASHER	1/2"HW, 1/2"CW, 2"W, PROVIDE (2) BFP-2
12A	1	COOLER EVAPORATOR COIL	3/4"IW TO FD-1
12C	1	FREEZER EVAPORATOR COIL	3/4"IW TO FD-1
19	1	ICE CUBER	1/2"CW FROM ITEM 21, 3/4"IW TO ITEM 22
20	1	ICE BIN	3/4"IW TO ITEM 22
21	1	WATER FILTER ASSEMBLY	1/2"CW
22	1	FLOOR PAN GRATE	3"W CONN 7" BFF
23	1	PREP TABLE WITH SINKS	1/2"HW, 1/2"CW, 2"IW TO FS-1
27	2	HAND SINK	1/2"HW, 1/2"CW, 1 1/2"W
31	1	ADA PREP TABLE WITH SINKS	1/2"HW, 1/2"CW, 2"IW TO FS-1
32	1	ADA HAND SINK	1/2"HW, 1/2"CW, 1 1/2"W
37	2	DOUBLE CONVECTION OVEN	3/4"G (100 MBTU)
38	1	FOURTY GALLON BRAISING PAN	1/2"HW, 1/2"CW, 1/2"G (144 MBTU)
39	1	FLOOR PAN GRATE	3"W CONN 7" BFF
40	1	FOUR-BURNER RANGE WITH OVEN	3/4"G (143 MBTU)
65	1	DROP-IN HOT FOOD WELL	1"IW TO FS
66	1	DROP-IN FROST TOP	1"IW TO FS
72	4	DROP-IN HOT FOOD WELL (MOUNTED IN GROUP)	1"IW TO FS
73	1	FILL FAUCET	1/2" HW
84	1	SOILED WARE TABLE WITH SINK & PASS THRU	2"IW TO FS-1
86	1	HOSE REEL ASSEMBLY	1/2"HW, 1/2"CW, PROVIDE (2) BFP-1
87	1	WAREWASHER	1/2"HW, 1/2"CW, 2"IW TO FS-1, PROVIDE (2) BFP-1
93	1	THREE COMPARTMENT SINK	(2) 3/4"HW, 3/4"CW, (3) 2"IW TO FS-1

PLUMBING KEY NOTES

- P1 CONNECT TO EXISTING 4" SAN WITH NEW 4" SAN CONNECTION.
- P2 WATER PIPING BELOW SLAB SHALL BE TYPE K COPPER WITH ELASTOMERIC INSULATION.
- P3 CONNECT TO EXISTING SAN WITH NEW SAN CONNECTION. MATCH EXISTING SIZE AND ELEVATION.
- P4 CONNECT TO EXISTING CW, HW, HWR WITH NEW 2" CW, 1 1/2"HW AND 3/4"HWR CONNECTIONS.
- P5 CONNECT TO EXISTING CW WITH NEW 3/4" CW CONNECTIONS.
- P6 BALANCING VALVE SET TO 0.5 GPM.
- P7 BALANCING VALVE SET TO 0.5 GPM. REFER TO DETAIL #3/P500.
- P8 CONNECT TO EXISTING CW, HW, VENT WITH NEW 3/4"CW, 3/4"HW AND 2"V CONNECTIONS TO SUPPLY JS-1.
- P9 CONNECT TO EXISTING CW, HW, VENT WITH NEW 1/2"CW, 1/2"HW AND 1 1/2"V CONNECTIONS TO SUPPLY S-1. CONNECT TO EXISTING SAN WITHIN PLUMBING WALL WITH NEW 2" SAN CONNECTION.
- P10 MANUAL SHUTOFF VALVE, SOLENOID VALVE AND RECESSED ENCLOSURE FOR EMERGENCY GAS SHUTOFF FURNISHED/ INSTALLED BY DIV.22, WIRED TO SHUTOFF SYSTEM BY DIV.26. VALVE SHALL BE 120V NORMALLY CLOSED TYPE. REFER TO DETAIL #4/P500. COORDINATE MOUNTING HEIGHT OF ENCLOSURE WITH ARCHITECT.
- P11 CONNECT NEW 4"NG TO EXISTING NATURAL GAS METER ASSEMBLY ON THE EXTERIOR OF THE BUILDING. PROVIDE NATURAL GAS REGULATOR, PRESSURE RELIEF VALVE AND SHUT OFF VALVE ON NEW 4" GAS MAIN. NATURAL GAS REGULATOR SHALL BE SET TO 7-14"W.C..
- P12 PIPING TO BE RUN IN SLEEVE IN ACCORDANCE WITH NFPA 54. SLEEVE SHALL EXTEND A MINIMUM OF 1" ABOVE SLAB ON BOTH ENDS. PROVIDE VENT OPENINGS ON BOTH ENDS OF SLEEVE IN ACCESSIBLE LOCATIONS.
- P13 PROVIDE MIXING VALVE AND EYE WASH DIRECTLY ABOVE JANITOR SINK. SEE DETAIL #2/P500.
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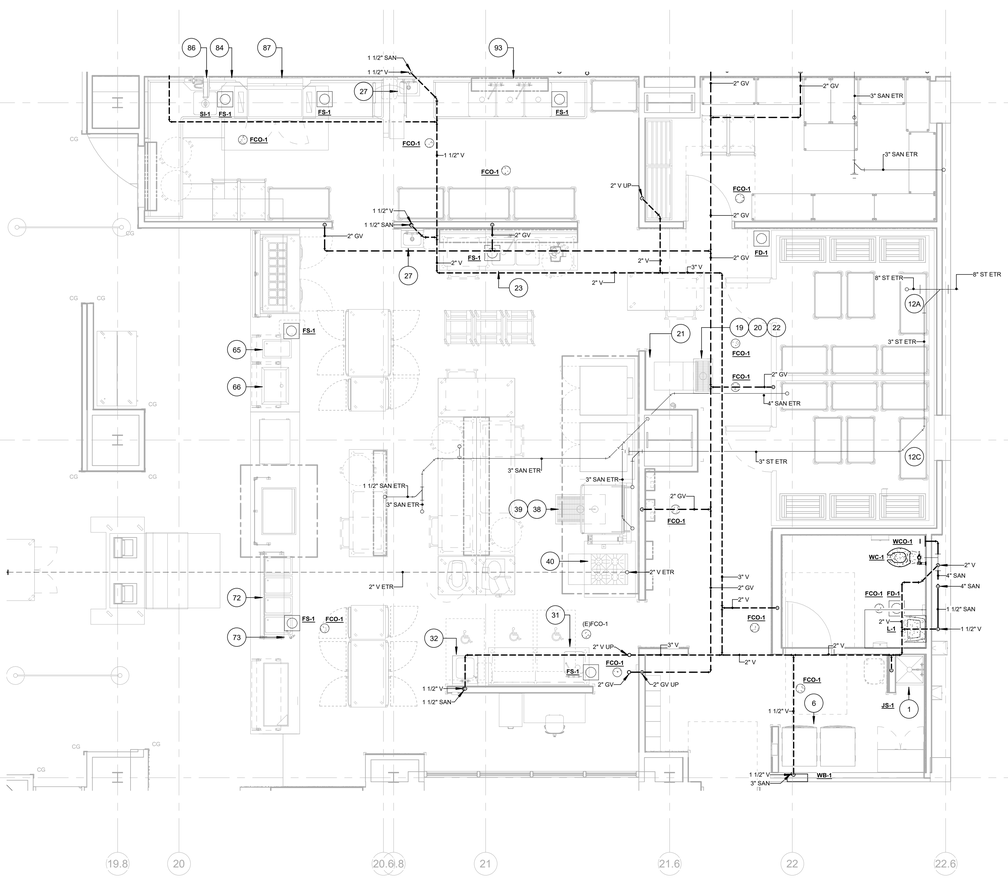
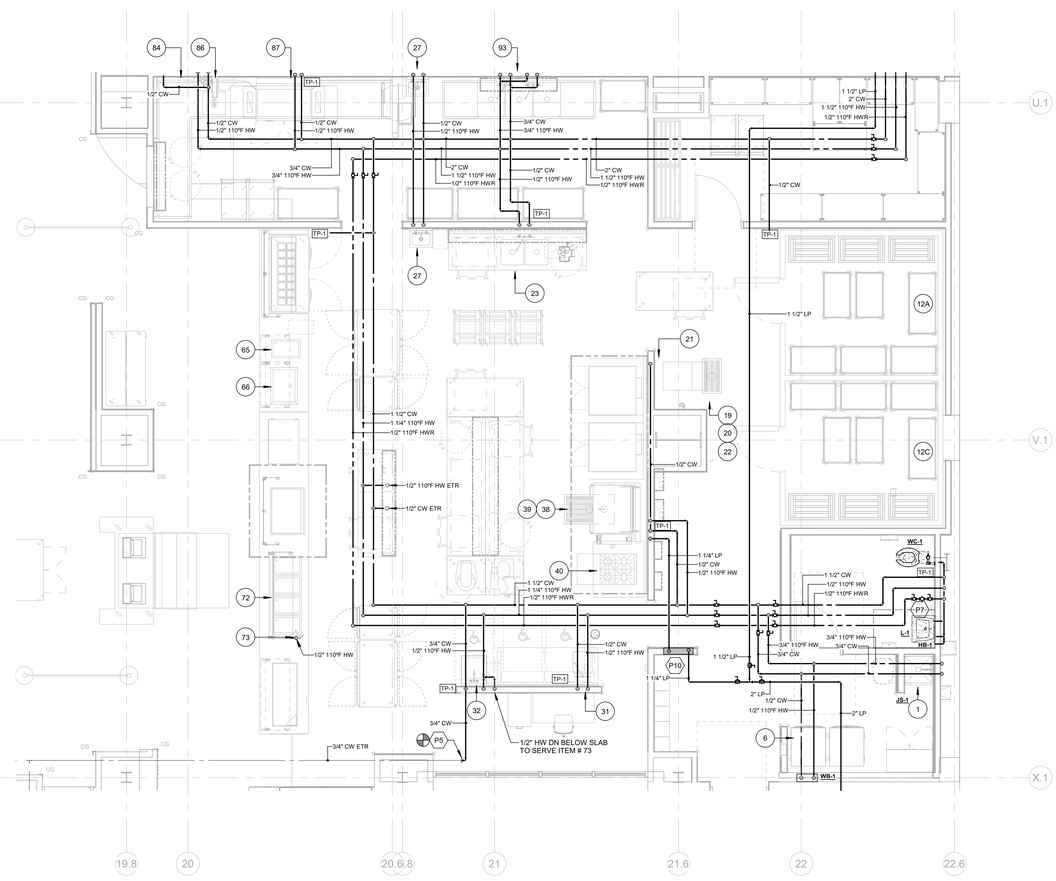


2 PLUMBING WASTE FIRST FLOOR KITCHEN PLAN
1/4" = 1'-0"



1 PLUMBING SUPPLY FIRST FLOOR KITCHEN PLAN
1/4" = 1'-0"

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KEY PLAN

STATE PROJECT NO:
056-0052 A

BID SET
01/7/2022

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ACTUAL NORTH

STATE OF CONNECTICUT
DOUGLAS S. PAGE
20909
LICENSED
PROFESSIONAL ENGINEER

PLUMBING FIRST FLOOR KITCHEN PLAN

Scale: AS NOTED
Job No.: 2021218.00
Drawn By: CES
Date: 1/7/2022

P201

FOOD SERVICE EQUIPMENT & CONNECTIONS SCHEDULE

ITEM	QTY	DESCRIPTION	PLUMBING CONNECTIONS
104	1	STACKED CLOTHES WASHER/DRYER	1/2"HW, 1/2"CW, 2"W, PROVIDE WITH (2) BFP-2
105	1	WARE WASHER	3/4"HW, 5/8"IW TO FS-1, PROVIDE WITH (1) BFP-1
106	1	PRE-RINSE SPRAY WITH ADD-ON FAUCET	3/4"HW 120F, 3/4" CW, PROVIDE WITH (2) BFP-1
107	1	THREE-COMPARTMENT SINK	3/4"HW 120F, 3/4"CW, (3) 2"IW TO FS-1
110	1	ADA HAND SINK	1/2"HW, 1/2"CW, 1-1/2"W
116	4	FOUR BURNER RANGE WITH OVEN	3/4"G (143 MBTU)
126	1	WORK COUNTER WITH SINKS	(2) 1/2"HW, 1/2"CW, 2"IW TO FS-1; 1-1/2"IW TO FS-1
127	1	WORK COUNTER WITH SINKS	(2) 1/2"HW, 1/2"CW, 2"IW TO FS-1; 1-1/2"IW TO FS-1

PLUMBING KEY NOTES

P1 CONNECT TO EXISTING 4" SAN WITH NEW 4" SAN CONNECTION.

P2 WATER PIPING BELOW SLAB SHALL BE TYPE K COPPER WITH ELASTOMERIC INSULATION.

P3 CONNECT TO EXISTING SAN WITH NEW SAN CONNECTION. MATCH EXISTING SIZE AND ELEVATION.

P4 CONNECT TO EXISTING CW, HW, HWR WITH NEW 2" CW, 1 1/2"HW AND 3/4"HWR CONNECTIONS.

P5 CONNECT TO EXISTING CW WITH NEW 3/4" CW CONNECTIONS.

P6 BALANCING VALVE SET TO 0.5 GPM.

P7 BALANCING VALVE SET TO 0.5 GPM. REFER TO DETAIL #3/P500.

P8 CONNECT TO EXISTING CW, HW, VENT WITH NEW 3/4"CW, 3/4"HW AND 2"V CONNECTIONS TO SUPPLY JS-1.

P9 CONNECT TO EXISTING CW, HW, VENT WITH NEW 1/2"CW, 1/2"HW AND 1 1/2"V CONNECTIONS TO SUPPLY S-1. CONNECT TO EXISTING SAN WITHIN PLUMBING WALL WITH NEW 2" SAN CONNECTION.

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P11 CONNECT NEW 4"NG TO EXISTING NATURAL GAS METER ASSEMBLY ON THE EXTERIOR OF THE BUILDING. PROVIDE NATURAL GAS REGULATOR, PRESSURE RELIEF VALVE AND SHUT OFF VALVE ON NEW 4" GAS MAIN. NATURAL GAS REGULATOR SHALL BE SET TO 7-14"W.C..

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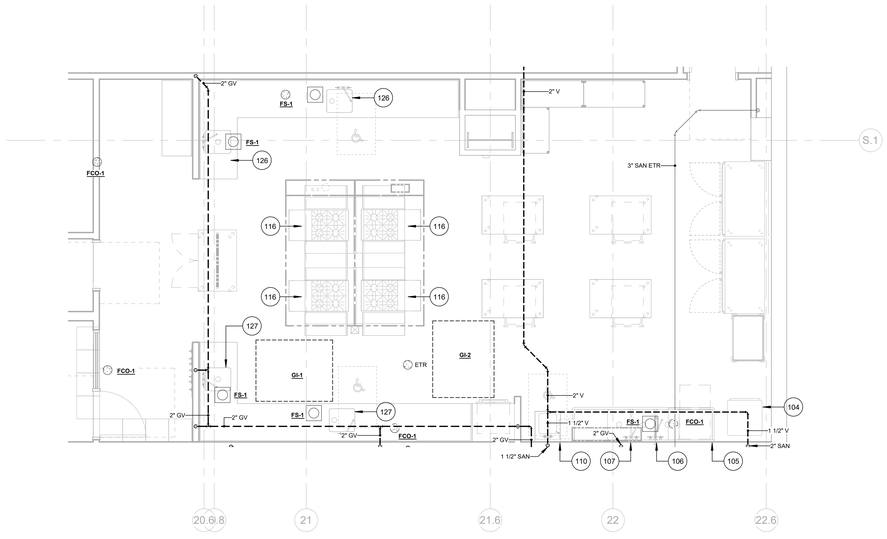
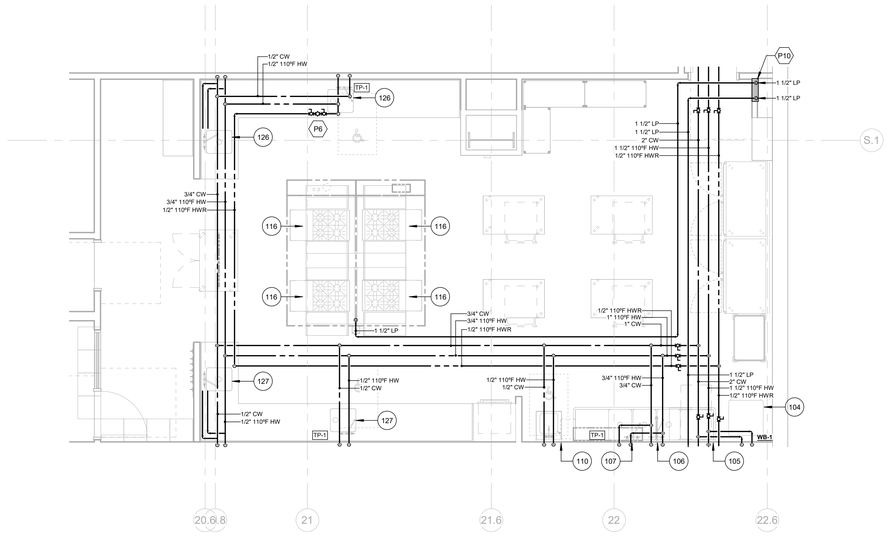


2 PLUMBING WASTE FIRST FLOOR CULINARY ARTS PLAN
1/4" = 1'-0"



1 PLUMBING SUPPLY FIRST FLOOR CULINARY ARTS PLAN
1/4" = 1'-0"

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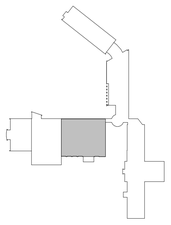

KEY PLAN

STATE PROJECT NO:
056-0052 A

BID SET

01/7/2022

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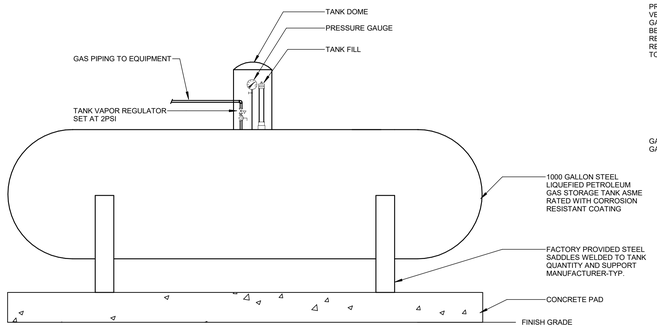
ACTUAL NORTH

STATE OF CONNECTICUT
DOUGLAS S. FUNG
20909
LICENSED
PROFESSIONAL ENGINEER

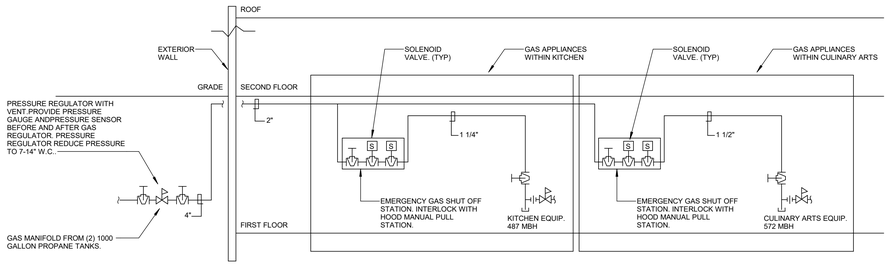
PLUMBING FIRST FLOOR CULINARY ARTS PLAN

Scale: AS NOTED
Job No.: 2021218.00
Drawn By: CES
Date: 1/7/2022

P202

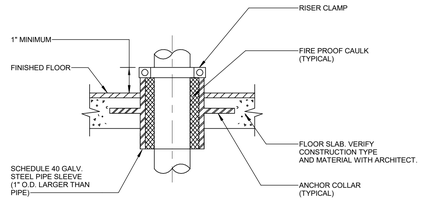


10 PROPANE GAS TANK DETAIL
NTS

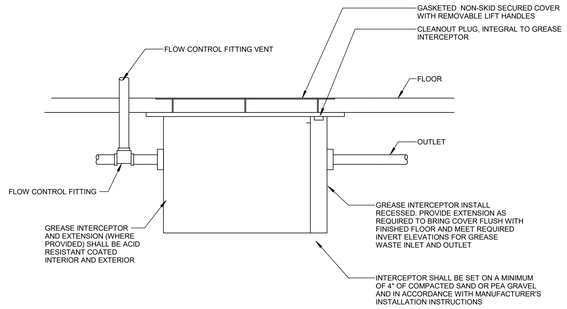


NOTES:
1. CONFIRM WITH LOCAL UTILITY COMPANY ALL INSTALLATION REQUIREMENTS (I.E. VALES, UNIONS, REGULATORS, ETC) PRIOR TO BID, INSTALLATION AND FABRICATION.
2. CULINARY ARTS AND KITCHEN EQUIPMENT PRESSURE REGULATOR SET TO 7"- 14" W.C. (TYPICAL).
3. PROVIDE PRESSURE RELIEF VALVE WITH AGA APPROVED, FULL OUTLET.
4. PROVIDE GAS CONNECTION TO ALL GAS FIRED EQUIPMENT.
5. PROVIDE SOLENOID VALVE AND RECESSED ENCLOSURE FOR EMERGENCY GAS SHUTOFF FOR KITCHENS AND CULINARY ARTS. SOLENOID VALVE SHALL BE FURNISHED/ INSTALLED BY DIV.22. WIRED TO SHUTOFF SYSTEM BY DIV.26. VALVE SHALL BE 120VAC NORMALLY CLOSED TYPE. ENCLOSURE SHALL BE ACCESSIBLE. REFER TO MOUNTING HEIGHT OF ENCLOSURE ON ARCHITECTURAL DRAWINGS.

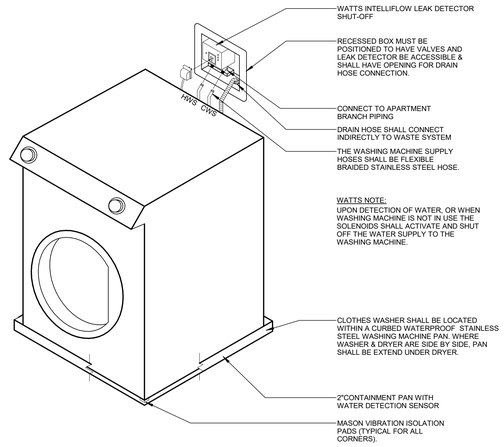
9 PROPANE GAS RISER
NTS



8 TYPICAL PIPE SLEEVE PENETRATION OF FLOOR INSTALLATION DETAIL
NTS

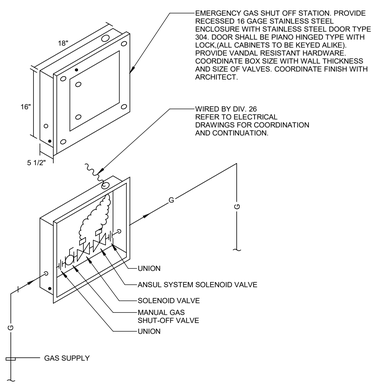


7 UNDER SLAB GREASE INTERCEPTOR PIPING DETAIL
1/8" = 1'-0"



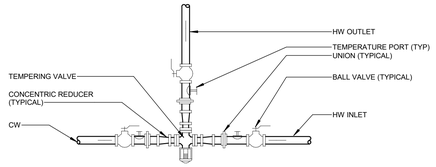
WATTS NOTE:
UPON DETECTION OF WATER, OR WHEN WASHING MACHINE IS NOT IN USE THE SOLENOIDS SHALL ACTIVATE AND SHUT OFF THE WATER SUPPLY TO THE WASHING MACHINE.

5 RESIDENTIAL WASHING MACHINE DETAIL
NTS

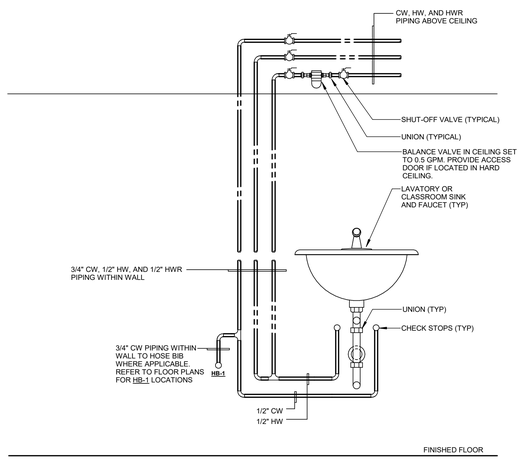


NOTES
1. COORDINATE FINAL LOCATION AND MOUNTING HEIGHT OF GAS SUPPLY VALVE STATION WITH ARCHITECT.
2. MANUAL SHUTOFF VALVE , SOLENOID VALVE AND RECESSED ENCLOSURE FOR EMERGENCY GAS SHUTOFF FURNISHED/ INSTALLED BY DIV.22. WIRED TO SHUTOFF SYSTEM BY DIV.26. VALVE SHALL BE ASCO 120V NORMALLY CLOSED TYPE.

4 KITCHEN / CULINARY ARTS GAS SHUT-OFF SYSTEM DETAIL
NTS

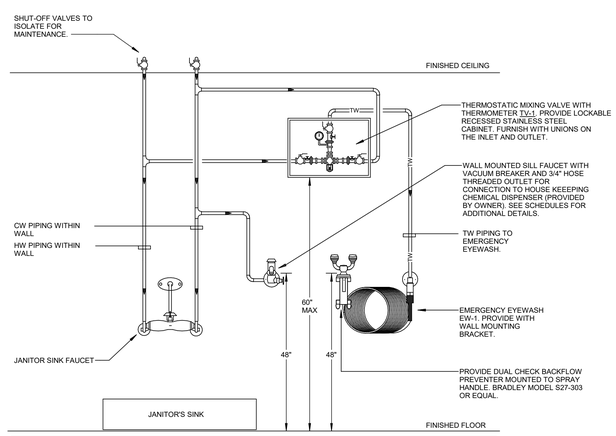


6 POINT OF USE MIXING VALVE DIAGRAM
NTS



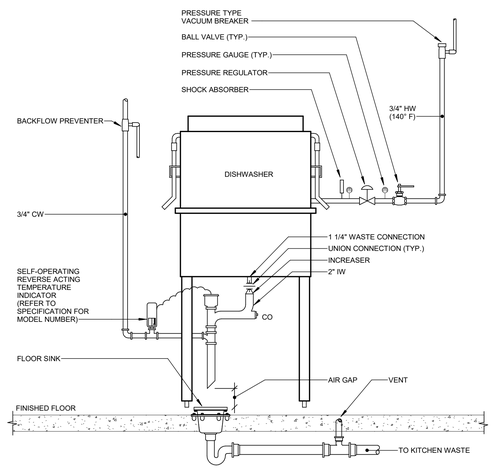
NOTES:
1. PROVIDE BALANCE VALVE ABOVE CEILING. PROVIDE WITH A LOCKABLE ACCESS DOOR IF LOCATED IN A HARD CEILING.
2. EACH LAV SHALL BE SERVED BY A MIXING VALVE INSTALLED BEHIND A LOCKABLE ACCESS DOOR LOCATED 15" TO 17" A.F.F.
3. REFER TO FLOOR PLANS FOR PIPE SIZES AND TYPE/QUANTITY OF FIXTURES.
4. THIS DETAIL IS INTENDED TO SHOW THE GENERAL INTENT OF THE HOT WATER CIRCULATION PIPING TO A FIXTURE. NOT ALL FIXTURE REQUIREMENTS, FITTINGS, AND DEVICES ARE SHOWN.
5. IN SOME INSTANCES FIXTURE MAY BE SERVED BY PIPING FROM FLOOR BELOW.

3 TYPICAL SINGLE LAVATORY AND SINK PIPING DETAIL
NTS



NOTES:
1. REFER TO FLOOR PLANS FOR PIPE SIZES.
2. THIS DETAIL IS INTENDED TO SHOW THE GENERAL INTENT OF THE PIPING TO A JANITOR SINK AND EMERGENCY EYE WASH. NOT ALL FIXTURE REQUIREMENTS, FITTINGS AND DEVICES ARE SHOWN.
3. REFER TO PLANS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
4. COORDINATE WITH ARCHITECTURE DRAWING FOR FINAL MOUNTING HEIGHTS.

2 JANITOR CLOSET WITH EYE WASH
NTS



NOTES:
1. REFER TO FLOOR PLANS FOR PIPE SIZES
2. REFER TO SPECIFICATIONS FOR PIPE MATERIALS AND SPECIALTIES

1 DISHWASHER DETAIL
1/8" = 1'-0"

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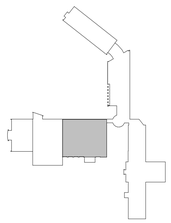

KEY PLAN

STATE PROJECT NO:
056-0052 A

BID SET
01/7/2022

N
ACTUAL NORTH

STATE OF CONNECTICUT DOUGLAS S. LANE 20909 LICENSED PROFESSIONAL ENGINEER

PLUMBING DETAILS

Scale: AS NOTED
Job No.: 2021218.00
Drawn By: CES
Date: 1/7/2022

P500

PLUMBING SPECIALTIES SCHEDULE

SYMBOL	MANUFACTURER/ MODEL NUMBER	DESCRIPTION	COMPONENTS AND ACCESSORIES	MOUNTING HEIGHT	REMARKS	SYMBOL	MANUFACTURER/ MODEL NUMBER	DESCRIPTION	COMPONENTS AND ACCESSORIES	MOUNTING HEIGHT	REMARKS
BFP-1	WATTS MODEL # 719-QT	BACKFLOW PREVENTER: BRONZE OR CAST BODY W/ CORROSION RESISTANT INTERNAL PARTS AND SST SPRINGS.	SHUTOFF VALVES: UP TO 2"-BRONZE BODY BALL VALVES.	-	#6	HB-1	WOODFORD MODEL # 26	HOSE BIBB: BACKFLOW PROTECTED BRONZE BODY, LOCKING NUT AND KEYED CYLINDER	3/4" THREADED HOSE CONNECTION	18" ABOVE FLOOR	#3,4
BFP-8	WATTS MODEL # 8	VACUUM BREAKER BACKFLOW PREVENTER: BRONZE W/ STAINLESS STEEL PARTS	-	-	#6	SI-1	JR SMITH # 8715T	SOLIDS INTERCEPTOR: STEEL BODY WITH GALVANIZED SUB-COAT, WHITE DUCO FINISH, SEDIMENT STRAINER WITH REMOVABLE SST SCREENS AND CAST IRON COVER.	PROVIDE BELOW SINK IN LIEU OF P-TRAP	ALLOW 14-1/2" ABOVE INTERCEPTOR FOR REMOVAL OF STRAINER	#6
CO-1	JR. SMITH MODEL # 4420C	CLEANOUT: CAST IRON SPIGOT FERRULE WITH CAST BRONZE TAPER THREAD PLUG.	CLEANOUTS SHALL BE FULL SIZE OF PIPE FOR PIPES 4" AND LESS IN SIZE AND SHALL BE 4" MINIMUM FOR PIPES LARGER THAN 4"	-	#6	TP-1	PRECISION PLUMBING "PRIME-RITE" MODEL #PR-500	TRAP PRIMER: INTERNAL VACUUM BREAKER AND BACK FLOW PREVENTER UNIT. 1/2" INLET AND OUTLET	DISTRIBUTION UNITS MODEL #DU-U AS REQUIRED FOR NUMBER OF FLOOR DRAINS SHOWN ON THE DRAWINGS.	-	#4
FCO-1	JR. SMITH MODEL # 4023S-PB-U	FLOOR CLEANOUT: CAST IRON BODY, ROUND ADJUSTABLE SCORIATED POLISHED BRONZE TOP. VANDAL PROOF & BRONZE PLUG	CLEANOUTS SHALL BE FULL SIZE OF PIPE FOR PIPES 4" AND LESS IN SIZE AND SHALL BE 4" MINIMUM FOR PIPES LARGER THAN 4"	-	#6	TV-1	BRADLEY MODEL S19-2000 EFX8	EMERGENCY MIXING VALVE: EMERGENCY FIXTURE, LOCKING TEMP REGULATOR TEMP SET POINT 80°F.	BRONZE BODY WITH INLET CHECK STOPS, THERMOMETER 0°-140°F RANGE, UNIONS & SHUT-OFF VALVE	-	#4
FD-1	JR. SMITH MODEL # 2010C-U-P050	FLOOR DRAIN: CAST IRON BODY, ROUND ADJUSTABLE NICKEL BRONZE STRAINER, FLASHING COLLAR OR WATERPROOF MEMBRANE, AND SEDIMENT BUCKET	VANDAL PROOF GRATE PROVIDE WITH TP-1	-	#6	WB-1	WATTS INTELLIFLOW SERIES A2C-WB-M1	WASHING MACHINE WATER SHUTOFF VALVE: RECESSED WALL MOUNTING	SERIES A2C-LS LEAK SENSOR.	48" ABOVE FINISHED FLOOR	-
FS-1	JR. SMITH MODEL # 3100C-13-U	FLOOR SINK: 6"DEEP RECEPTOR, NICKEL-BRONZE RIM, ABS SEDIMENT BUCKET, AND FLASHING CLAMP.	8 1/2" NICKEL BRONZE SQUARE TOP WITH 3/4 GRATE. VANDAL PROOF SCREWS. PROVIDE WITH RECTOR SEAL WATERLESS TRAP GUARD.	-	#6	WCO-1	JR. SMITH MODEL # 4422C-U	WALL CLEANOUT: DUCO CAST IRON, CAULK FERRULE CAST BRONZE THREAD PLUG, STAINLESS STEEL ROUND COVER AND SCREW.	VANDAL PROOF SCREWS.	-	#6
						WHA-1	PRECISION PLUMBING MODEL # SC-500A THRU # SC-2000F	WATER HAMMER ARRESTOR: BARREL FABRICATED OF TYPE "L" HARD DRAWN, COPPER, W/ EPDM "O" RING SEALS.	BRASS PISTON & THREADED ADAPTER	-	#1

REMARKS:
1. INSTALL SIZED PER LOAD (WSFU) RECOMMENDED BY PDI & MANUFACTURER.
2. THE TRAP PRIMER SHALL BE INSTALLED A MINIMUM OF 1 FOOT ABOVE FINISHED FLOOR FOR. EVERY 20 FEET OF PRIMER LINE.
3. PROVIDE EACH HYDRANT WITH A LOOSE KEY. CONTRACTOR SHALL VERIFY WALL THICKNESS.
4. PROVIDE ISOLATION VALVES AT THE SUPPLY PIPE CONNECTIONS.
5. PROVIDE AN AIR GAP FITTING ON THE DRAIN LINE. MOUNT AT A SUFFICIENT HEIGHT TO ALLOW PROPER DRAINAGE.
6. REFER TO FLOOR PLANS FOR SIZES.
7. MAINTAIN MINIMUM OF 8 1/2 INCHES CLEAR ABOVE INTERCEPTOR FOR STRAINER REMOVAL.
8. MAINTAIN MINIMUM OF 8 1/2 INCHES CLEAR BELOW INTERCEPTOR FOR STRAINER REMOVAL. PROVIDE UNIONS AT INLET AND OUTLET PIPE CONNECTIONS.
9. PROVIDE LOW FLOW BYPASS AS REQUIRED BY THE MANUFACTURES LITERATURE FOR MINIMUM FLOW RATE OF .5 GPM.
10. PROVIDE AN AIR GAP FITTING ON THE DRAIN LINE. MOUNT AT A SUFFICIENT HEIGHT TO ALLOW PROPER DRAINAGE

PLUMBING FIXTURE SCHEDULE

SYMBOL	MANUFACTURER/ MODEL NUMBER	DESCRIPTION OF FIXTURE	TRIM AND ACCESSSORIES	REMARKS	SYMBOL	MANUFACTURER/ MODEL NUMBER	DESCRIPTION OF FIXTURE	TRIM AND ACCESSSORIES	REMARKS
EW-1	BRADLEY MODEL # S1944011BBC	EYEWASH: WALL MOUNTED WITH COIL HOSE EYEWASH, DUST COVERED SPRAY HEADS, DELIVERING TEPID WATER AT MIN. 30 PSI.	PROVIDE WITH "NAVIGATOR" S19-2000 EFX8 THERMOSTATIC MIXING VALVE.THERMOSTATIC MIXING VALVE TV-1 SHALL BE MOUNTED ON WALL. MOUNT ABOVE JANITOR SINK PROVIDE DUAL CHECK BACKFLOW PREVENTER MOUNTED TO SPRAY HANDLE. BRADLEY MODEL S27-303 OR EQUAL	#3,4,13	L-1	AMERICAN STANDARD "DECLYN" MODEL 0321.075	LAVATORY: ACCESSIBLE , WALL HUNG , SINGLE BOWL, 4" SPACED FAUCET HOLES, VITREOUS CHINA LAVATORY, REAR OVERFLOW	SYMMONS "SYMMETRIX" MODEL # S-20-2-G-0.5-W CHROME PLATED FAUCET, EXTRA LONG LEVER WITH GRID DRAIN ASSEMBLY AND VANDAL PROOF 0.5 GPM FLOW RESTRICTOR. PROVIDE JR SMITH SERIES 700 CONCEALED ARM SUPPORT	#1,2,3,4,7
EWC-1	ELKAY MODEL # LZOTL8WSLK	DRINKING FOUNTAIN & BOTTLE FILLING STATION: ACCESSIBLE, BI-LEVEL DOUBLE BOWLS, ON WALL MOUNT, SST, REFRIDGERATED, ELECTRONIC ACTIVATION BOTTLE FILLER	PROVIDE WATERSENTRY PLUS 3000-GAL CAPACITY FILTER, MOUNTING FRAMES, AND VANDAL RESISTANT BUBBLERS. PROVIDE CANE APRON WHERE REQUIRED.	#3,4,7,8	S-1	ELKAY "LUSTERTONE" MODEL # LRAD221965	CLASSROOM SINK: ACCESSIBLE, COUNTERTOP, (1) CENTER FAUCET HOLES, 18 GAUGE TYPE 302 SST, SELF RIMMING, 6 1/2" DEEP, OFFSET DRAIN REAR LEFT OR RIGHT.	ELKAY, CHROME PLATED FAUCET, EXTRA LONG, SINGLE LEVER 1.5 GPM, MODEL # LK535AT08T4, CHROME PLATED GRID DRAIN ASSEMBLY # LKAD-18.	#1,2,3,4,6,7
JS-1	FIAT MODEL # TSB3000	JANITORS SINK: TERRAZZO MOP BASIN, 24"X24"X12" WITH 6" DROP FRONT, SST INTEGRAL DRAIN BODY, SST CURB CAPS.	PROVIDE CHICAGO #897-RCF WALL MOUNTED 8" BODY FAUCET, 3/4" THREADED MALE HOSE OUTLET, PAIL HOOK, WALL BRACE AND VACUUM BREAKER SPOUT. SEE REMARK #10 PROVIDE EW-1 ABOVE SINK	#1,4	WC-1	AMERICAN STANDARD "AFWALL" MODEL #3351.101	WATER CLOSET: ACCESSIBLE, WALL HUNG, ELONGATED BOWL, VITREOUS CHINA, 1-1/2" TOP SPUD, SIPHON JET	SLOAN MODEL #111-1.28 FLUSHOMETER WITH INTEGRAL STOP AND VACUUM BREAKER, 1.28 GPF, MANUAL FLUSH AMERICAN STANDARD #5901.100 HEAVY DUTY OPEN FRONT LESS COVER JR SMITH SERIES 0200 WALL SUPPORT	#1,3,4,5,7

REMARKS:
1. COLOR AS SELECTED BY THE ARCHITECT. PROVIDE SAMPLES
2. INSTALL TRUEBRO INC. MODEL #102, HANDI LAV-GUARD PROTECTOR ON THE HOT, COLD, AND DRAIN PIPING UNDER FIXTURE.
3. FIXTURES AND TRIM AS NOTED SHALL BE "ACCESSIBLE" AND SHALL BE INSTALLED TO ADA / ANSI A117 AND FEDERAL 504 REQUIREMENTS.
4. PROVIDE ISOLATION VALVES AT THE PIPE CONNECTIONS.
5. PROVIDE WATER HAMMER ARRESTORS AT THE PIPE CONNECTIONS, LOCATE ABOVE AN ACCESSIBLE CEILING.
6. PROVIDE SINK WITH OFFSET DRAIN TO LEFT OR RIGHT AND BACK OF BOWL FOR ADA COMPLIANCY, ANSI A117 AND FEDERAL 504 REQUIREMENTS SEE ARCHITECTURAL DRAWINGS FOR DRAIN LOCATIONS.
7. REFER TO ARCHITECTURAL DRAWING FOR FIXTURE MOUNTING HEIGHTS.
8. PROVIDE WASTE TRAP AND SHUT OFF VALVE ON SUPPLY
9. PROVIDE WITH ACID RESISTANT GRID DRAIN ASSEMBLY.
10. PROVIDE WITH FIAT MODEL #1453-BB 16 GAUGE STAINLESS STEEL STRAINER, MODEL #MSG-2424 WALL GUARD, MODEL #889-CC MOP HANGER, AND MODEL #832-AA HOSE AND BRACKET. FLOOR MOUNTED DRAIN BODY SHALL BE STAINLESS STEEL CAST INTEGRAL, PROVIDE FOR A CAULKED CONNECTION NO LESS THAN 1"DEEP FROM DRAIN TO A 3" WASTE PIPE. FURNISH AND INSTALL ADJACENT TO SERVICE FAUCET, ONE CHICAGO #952269CP WASH DOWN AND SILL FAUCET WITH VACUUM BREAKER INSPOUT, HOSE END THREAD, CHROME FINISH FAUCET IS FOR SERVING CLEANING CHEMICAL DISPENSING UNIT. COORDINATE MOUNTING LOCATIONS FOR ALL ACCESORIES IN FIELD WITH ARCHITECT, ENGINEER AND OWNER.
11. BUBBLER ACTIVATION SHALL BE REMOTE PUSH BUTTON IN FRONT OF CASEWORK. PUSH BUTTON SHALL REQUIRE NO MORE THAN 5 LB. FORCE FOR ACTIVATION.
12. PROVIDE TEPID WATER SUPPLY TO EMERGENCY FIXTURE.
13. PROVIDE BOTH CW AND HW CONNECTIONS TO TEMPERING VALVE. PROVIDE TEPID WATER SUPPLY TO EMERGENCY FIXTURE. PROVIDE AIRCRAFT CABLE TETHERED FROM WALL TO HEAD OF EYEWASH, LENGTH OF CABLE SHALL BE FIELD ADJUSTED SO AS TO LIMIT TRAVEL OF HEAD TO 3" ABOVE RIM OF JANITORS SINK.
14. FAUCET SHALL BE LOCATED WITHIN 13" OF EDGE. COORDINATE WITH ARCHITECTURAL DRAWINGS.
15. PROVIDE L-BAR, S-BAR, L-SEAT, ROD. PROVIDE SYMMONS "ORIGINS" MODEL 9605-PLR-1.5 SHOWER/HAND SHOWER SYSTEM WITH TEMPTROL PRESSURE BALANCING VALVE, 36" SLIDE BAR, TWO FUNCTION DIVERTER, IN-LINE VACUUM BREAKER, 60" FLEXIBLE METAL HOSE, ADA HAND SHOWER WITH 1.5GPM FLOW RESTRICTOR.
16. CONTRACTOR SHALL INSTALL SINK FAUCETS WITH RIGID GOOSENECK SPOUT. FAUCET SPOUTS SHALL NOT SWIVEL.
17. CONTRACTOR TO CONSTRUCT BOX MADE OF RIGID MATERIAL (WOOD OR OTHER LIGHT WEIGHT MATERIAL) TO DEMONSTRATE THAT ALL ADA AND FEDERAL 504 REQUIRED KNEE CLEARANCES ARE ACHIEVED, REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS OF BOX. PROVIDE ADULT REQUIREMENTS.
18. COORDINATE WITH ARCHITECT FLUSH VALVE INSTALLATION AND WITH GRAB BARS AND TOILET ACCESSORIES.
19. PROVIDE BOTH CW AND HW CONNECTIONS TO TEMPERING VALVE. PROVIDE TEPID WATER SUPPLY TO EMERGENCY FIXTURE.

GREASE INTERCEPTOR

SYMBOL	MANUFACTURER/ MODEL NUMBER	TYPE	LOCATION	GREASE CAPACITY LBS	INLET/OUTLET SIZE	DIMENSIONS L X W X H	REMARKS
GI-1	ZURN MODEL # Z1172-1300-HD	FR	CULINARY ARTS	400 LBS	4"	61" X 43-5/8" X 35-1/2"	1,2,3
GI-2	ZURN MODEL # Z1172-1300-HD	FR	CULINARY ARTS	400 LBS	4"	61" X 43-5/8" X 35-1/2"	1,2,3

NOTES:
FR = FULLY RECESSED, COVER FLUSH WITH FINISH FLOOR

REMARKS:
1. PROVIDE LIFT OUT SEDIMENT BUCKET.
2. TRAFFIC RATED COVER.
3. ACID RESISTANT COATING INSIDE AND OUTSIDE.
4. PROVIDE FLOW CONTROL DEVICE ZURN MODEL #Z1108 OR APPROVE EQUAL.

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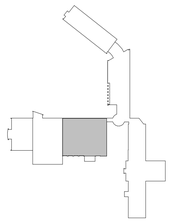

KEY PLAN

STATE PROJECT NO:
056-0052 A

BID SET

01/7/2022

N
ACTUAL NORTH

STATE OF CONNECTICUT
DOUGLAS S. LANDE
20909
LICENSED
PROFESSIONAL ENGINEER

PLUMBING SCHEDULES AND DIAGRAMS

Scale: AS NOTED
Job No.: 2021218.00
Drawn By: CES
Date: 1/7/2022

P600

GENERAL NOTES

GENERAL

1. GENERAL NOTES, SYMBOLS AND DETAILS ARE APPLICABLE TO ALL DRAWINGS WITHIN DIVISION 23.
2. DRAWINGS ARE DIAGRAMMATIC AND ARE INTENDED TO INDICATE CAPACITY, SIZE, APPROXIMATE LOCATION AND GENERAL ARRANGEMENT. DETERMINE EXACT LOCATIONS OF SYSTEMS AND COMPONENTS IN FIELD.
3. COORDINATE ROOF AND WALL PENETRATIONS WITH WORK OF OTHER SECTIONS AND WITH FLASHING REQUIREMENTS. COORDINATE SLAB PENETRATIONS WITH WORK OF OTHER SECTIONS.
4. RUN DUCTS AND PIPING CONCEALED, UNLESS SPECIFIED OTHERWISE OR AS APPROVED BY THE ARCHITECT.
5. INSTALL SENSORS (TEMPERATURE, HUMIDITY, CO2, THERMOSTATS) AT LOCATIONS SHOWN ON PLANS OR AS DIRECTED BY ARCHITECT. MOUNTING HEIGHT AFF SHALL COMPLY WITH ADA AND SHALL BE MOUNTED LEVEL WITH ADJACENT SWITCHES (IE LIGHT SWITCHES).
6. COORDINATE WORK OF THIS SECTION WITH THAT OF OTHER SECTIONS AND WITH ALL TRADES INVOLVED. PROVIDE OFFSETS IN PIPING AND DUCTS (INCLUDING DIVIDED DUCTS) AND TRANSITIONS AROUND OBSTRUCTIONS.
7. NOT ALL ACCESS DOORS HAVE BEEN SHOWN ON THE PLANS FOR CLARITY. PROVIDE ACCESS PANELS THROUGH BUILDING ASSEMBLIES TO SERVICE AND MAINTAIN EQUIPMENT UNLESS SUCH EQUIPMENT IS INSTALLED IN EXPOSED LOCATIONS OR ABOVE LAY-IN CEILINGS. COORDINATE THE LOCATION OF ACCESS DOORS AND PANELS AND VERIFY THE EXACT QUANTITY, SIZE, AND LOCATIONS AFTER THE SYSTEMS AND EQUIPMENT REQUIRING ACCESS HAVE BEEN INSTALLED AND PRIOR TO THE CLOSURE OF THE AFFECTED CEILINGS AND BUILDING ASSEMBLIES. OBTAIN APPROVAL FOR ALL PANEL LOCATIONS FROM ARCHITECT.
8. AT SUBSTANTIAL COMPLETION, THE FOLLOWING ITEMS, NEW OR EXISTING, SHALL BE FULLY AND REASONABLY ACCESSIBLE: HVAC CONTROL BOXES, JUNCTION BOXES, VALVES, DDC CONTROL BOXES, ELECTRICAL PANELS, FILTERS, BELTS, WATER COILS, DISCONNECT SWITCHES AND ELEMENTS OF EQUIPMENT REQUIRING MAINTENANCE. "FULLY AND REASONABLY ACCESSIBLE" SHALL BE DEFINED AS NATIONAL ELECTRIC CODE REQUIRED CLEARANCE FOR POWERED EQUIPMENT AND CAPABLE OF BEING ACCESSED OR SERVICED WITHOUT REMOVING, MODIFYING OR DISTORTING OTHER COMPONENTS OF THE WORK. PROVIDE MANUFACTURER'S RECOMMENDED CLEARANCE FOR ALL EQUIPMENT.
9. SUPPORT EQUIPMENT, PIPING AND DUCTWORK FROM BUILDING STRUCTURE OR WITH STEEL SUPPORTS AND PLATFORMS AS REQUIRED. PROVIDE VIBRATION ISOLATION FOR ROTATING EQUIPMENT, DUCTWORK AND PIPING IN ACCORDANCE WITH THE SPECIFICATIONS.
10. ROOF CURB AND RAIL HEIGHTS INDICATED ARE THE DIMENSIONS BETWEEN THE ROOF SURFACE AND THE TOPS OF THE CURBS AND RAILS. WHERE THE ROOF IS PITCHED, CONSTRUCT CURBS AND RAILS SUCH THAT THE BOTTOM PITCHES WITH THE ROOF AND THE TOP IS LEVEL.
11. CONTROL WIRING METHODS SHALL COMPLY WITH NEC, AND DIVISION 26 SPECIFICATIONS.
12. VERIFY ALL EQUIPMENT CONNECTIONS WITH MANUFACTURER'S DRAWINGS. VERIFY AND PROVIDE FITTINGS TO TRANSITION TO FURNISHED EQUIPMENT. FIELD VERIFY AND COORDINATE ALL DIMENSIONS BEFORE FABRICATION.
13. PERFORM PRESSURE AND LEAKAGE TESTS BEFORE INSULATING DUCTWORK AND PIPING
14. COORDINATE AND PROVIDE HOUSEKEEPING PADS FOR FLOOR-MOUNTED MECHANICAL EQUIPMENT. HOUSEKEEPING PADS SHALL BE REINFORCED CONCRETE WITH 1" CHAMFERED EDGES, 6" THICK, WITH MINIMUM CLEARANCE OF 6" FROM EQUIPMENT BASE TO EDGE OF PAD. INCREASE DEPTH WHERE REQUIRED FOR PROPER INSTALLATION OF EQUIPMENT, INCLUDING BUT NOT LIMITED TO CONDENSING BOILERS (TO ALLOW PROPER INSTALLATION OF NEUTRALIZATION EQUIPMENT AND GRAVITY DISCHARGE TO FLOOR DRAIN OR CONDENSATE PUMP) AND AHU (TO ALLOW INSTALLATION OF CONDENSATE TRAP).

AIR SYSTEM SPECIFIC NOTES:

1. REFER TO SPECIFICATIONS FOR DUCTWORK CONSTRUCTION CLASSES, SEAL, AND LEAKAGE CLASSES.
2. EXTERIOR LOUVERS ARE INDICATED FOR LOCATION ONLY. DETAILED DESCRIPTIONS ARE PROVIDED IN ARCHITECTURAL DRAWINGS AND SPECIFICATIONS.
3. SMOKE DETECTORS SHALL BE FURNISHED AND WIRED TO THE FIRE ALARM SYSTEM. MOUNT THE DETECTORS IN DUCTWORK. WHERE REQUIRED BY CODE AND DIVISION 23. ASSOCIATED FAN SYSTEM SHALL SHUT DOWN UPON DETECTION OF SMOKE.
4. PROVIDE UL FIRE DAMPERS OR SMOKE/FIRE DAMPERS AND ASSOCIATED ACCESS PANELS WHERE SHOWN ON DRAWINGS IN COMPLIANCE WITH NFPA 90A. FOR DUCTS THAT PENETRATE FIRE WALLS, FLOORS AND PARTITIONS PROVIDE SLEEVES WHERE PENETRATIONS ARE NOT PERPENDICULAR TO SURFACE PENETRATED.
5. REFER TO REFLECTED CEILING PLANS FOR LOCATIONS OF AIR TERMINAL DEVICES.
6. INTERNAL AIR FLOW DIMENSIONS ARE SHOWN FOR DUCTS. CONTRACTOR SHALL INCREASE SHEETMETAL SIZE FOR LINER IF APPLICABLE.
7. DIFFUSER SIZES SHOWN ARE NECK SIZES; REGISTER AND GRILLE SIZE ARE NOMINAL. ALL ROUND RUN OUTS TO DIFFUSERS SHALL BE THE SAME NOMINAL SIZE AS THE SCHEDULED NECK SIZE, UNLESS NOTED AS LARGER. DUCT TRANSITIONS SHALL BE PROVIDED AS NECESSARY AT INLET TO DIFFUSER.
8. PROVIDE FLEXIBLE CONNECTIONS ON ALL DUCTS CONNECTING TO FANS AND AIR HANDLING UNITS UNLESS INTERNALLY ISOLATED.
9. THE INSIDE OF DUCTWORK VISIBLE THROUGH A GRILLE OR DIFFUSER SHALL BE PAINTED FLAT BLACK.
10. ALL RETURN AIR OPENINGS ABOVE CEILING SHALL BE PROVIDED WITH A 1/4" MESH ALUMINUM OR GALVANIZED SCREEN (80% FREE AREA MINIMUM).
11. ELBOWS IN DUCT SYSTEMS SHALL BE FULL RADIUS (CENTERLINE RADIUS = 1.5 DUCT WIDTH) WHERE SPACE PERMITS. WHERE LIMITED CLEARANCE OCCURS, PROVIDE SHORT RADIUS ELBOW WITH FULL LENGTH SPLITTER VANES PER SMACNA, OR MITERED ELBOW WITH TURNING VANES PER SMACNA.
12. PROVIDE CLEANOUTS IN KITCHEN EXHAUST DUCTS AT CHANGES IN DIRECTION AND BASES OF RISERS, AND EVERY 10 FEET IN STRAIGHT RUNS.
13. NOT ALL MANUAL DAMPERS ARE SHOWN ON THE DRAWINGS IN ORDER FOR DRAWING CLARITY. PROVIDE MANUAL ADJUSTABLE DAMPERS ON EACH LOW PRESSURE SUPPLY, RETURN, AND EXHAUST DUCT TAKE OFF, AND AT EACH TAKE OFF TO REGISTERS, GRILLES, DIFFUSERS, AND OED, AS REQUIRED FOR PROPER BALANCE OF SYSTEM. PROVIDE CABLE OPERATED DAMPERS WHERE MANUAL DAMPER IS INACCESIBLE.
14. WHERE DUCTS PENETRATE WALLS WITH SOUND ISOLATION PERFORMANCE RATINGS, PROVIDE DUCT SLEEVE SIZED TO PROVIDE 1/4" GAP BETWEEN THE SLEEVE AND DUCT. FILL THE GAP WITH FIBEROUS MATERIAL AND SEAL AIRTIGHT WITH NON-HARDENING ACOUSTIC SEALANT
15. KITCHEN: COORDINATE REQUIREMENTS WITH KITCHEN EQUIPMENT VENDOR AND FOOD SERVICE DRAWINGS. PROVIDE DUCTWORK AND ACCESSORIES FOR DISHWASHER HOOD AND GREASE HOOD. GREASE DUCT AND DISHWASHER EXHAUST SHALL PITCH BACK TO HOOD

PIPING SYSTEM SPECIFIC NOTES:

1. PIPE CONDENSATE DRAIN LINES FULL SIZE OF THE UNIT DRAIN OUTLET, WITH "P" TRAP, CONNECTED TO BUILDING DRAINAGE SYSTEMS WITH AIR GAP. SIZE DEPTH OF TRAP FOR ASSOCIATED AIR PRESSURE DIFFERENTIAL.
2. PROVIDE HANGERS, CLAMPS, OFFSETS, EXPANSION JOINTS, ANCHORS AND GUIDES AS NECESSARY TO PREVENT STRESS ON PIPING EXCEEDING ASME ALLOWABLE STRESS ON PIPING MATERIALS.
3. PROVIDE PIPE EXPANSION JOINTS WHERE PIPES PASS THROUGH BUILDING EXPANSION JOINTS. REVEW ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR LOCATIONS AND DIMENSIONS.
4. PROVIDE VENTS AT HIGH POINTS IN PIPING SYSTEMS AND DRAIN VALVES AT LOW POINTS.
5. THOUGH SOME ISOLATION VALVES ARE SHOWN ON THE DRAWINGS, IT IS NOT THE INTENT OF THE DRAWINGS TO SHOW ALL ISOLATION VALVES. PROVIDE ISOLATION VALVES AT CONNECTIONS TO EQUIPMENT AND AS REQUIRED BY SPECIFICATIONS AND DETAILS.

FIRESTOPPING NOTES:

1. PROVIDE FIRE STOPPING AND SMOKE BARRIER SEALING OF ALL PENETRATIONS THROUGH FIRE OR SMOKE WALLS, BARRIERS AND PARTITIONS AS REQUIRED TO MAINTAIN RATING. REFER TO ARCHITECTURAL FLOOR PLANS AND CODE SHEETS FOR WALL RATINGS. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

MECHANICAL ABBREVIATIONS

AD	ACCESS DOOR
ADJ	ADJUSTABLE
AFF	ABOVE FINISHED FLOOR
ALT	ALTERNATE
AHJ	AUTHORITY HAVING JURISDICTION
AP	ACCESS PANEL
CNV	CONVECTOR
APD	AIR PRESSURE DROP
AWT	AVERAGE WATER TEMPERATURE
BAS	BUILDING AUTOMATION SYSTEM
BF	BYPASS FEEDER
BHP	BREAK HORSEPOWER
BMS	BUILDING MANAGEMENT SYSTEM
BTU	BRITISH THERMAL UNIT
BTUH	BTU / HOUR
BOD	BOTTOM OF DUCT
BOP	BOTTOM OF PIPE
CRD	CEILING RADIATION DAMPER
CAP	CAPACITY
COP	COEFFICIENT OF PERFORMANCE
COND	CONDENSATE
CHWS	CHILLED WATER SUPPLY
CHWR	CHILLED WATER RETURN
CFM	CUBIC FEET PER MINUTE
CUFT	CUBIC FEET
dB	DECIBELS
DB	DRY BULB TEMPERATURE
DDC	DIRECT DIGITAL CONTROL
DIA	DIAMETER
DN	DOWN
DX	DIRECT EXPANSION
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE (DRY BULB)
EDB	ENTERING DRY BULB
EER	ENERGY EFFICIENCY RATIO
ELEC	ELECTRICAL
ESP	EXTERNAL STATIC PRESSURE
EWB	ENTERIN WET BULB
EWT	ENTERING WATER TEMPERATURE
F	DEGREES FAHRENHEIT
FD	FIRE DAMPER
FT	FEET
FT WG	FEET WATER GAUGE
FLA	FULL LOAD AMPS
FPM	FEET PER MINUTE
FSD	COMBINATION FIRE SMOKE DAMPER
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GRD	GRILLE, REGISTER, DIFFUSER
HD	HEAD
HP	HORSEPOWER
HSPF	HEATING SEASON PERFORMANCE FACTOR
HZ	HERTZ
HVAC	HEATING, VENTILATION AND AIR CONDITIONING
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
IN	INCHES
IN WG	INCHES WATER GAUGE
IPLV	INTEGRATED PART LOAD VALUE
KW	KILOWATTS
L	LOUVER
LAT	LEAVING AIR TEMPARATURE
LDB	LEAVING DRY BULB
LWB	LEAVING WET BULB
LWT	LEAVING WATER TEMPERATURE
MAX	MAXIMUM
MECH	MECHANICAL
MBH	THOUSANDS OF BTU / HOUR
MCA	MINIMUM CIRCUIT AMPACITY
MIN	MINIMUM
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OAT	OUTSIDE AIR TEMPERATURE
OD	OUTER DIAMETER
OED	OPEN ENDED DUCT
P	PUMP
PH	PHASE
PLBG	PLUMBING
PRV	PRESSURE REDUCING VALVE
PSIG	POINDS PER SQUARE INCH GAUGE
QTY	QUANTITY
RA	RETURN AIR
RPM	REVOLUTIONS PER MINUTE
RPZ	REDUCED PRESSURE ZONE BACKFLOW PREVENTER
RV	RADON VENT
SA	SUPPLY AIR
SEER	SEASONAL ENERGY EFFICIENCY RATIO
SG	SIGHT GLASS
SP	STATIC PRESSURE
SPD	STATIC PRESSURE DROP
SS	STAINLESS STEEL
SST	SATURATED SUCTION PRESSURE
SQFT / SF	SQUARE FEET
TEMP	TEMPERATURE
TSP	TOTAL STATIC PRESSURE
TSTAT	THERMOSTAT
TYP	TYPICAL
UOI	UNLESS OTHERWISE INDICATED
VAV	VARIABLE AIR VOLUME
VFD	VARIABLE FREQUENCY DRIVE
VTR	VENT THRU ROOF
W	WITH
W/O	WITHOUT
WB	WET BULB
WC	WATER COLUMN
WG	WATER GAUGE
WMS	WIRE MESH SCREEN
WPD	WATER PRESSURE DROP

DEMOLITION NOTES

DEMOLITION NOTES

1. SITE VISIT: THIS PROJECT INVOLVES CONSTRUCTION INSIDE AN EXISTING STRUCTURE. BEFORE SUBMITTING BID, VISIT AND CAREFULLY EXAMINE SITE TO IDENTIFY EXISTING CONDITIONS AND DIFFICULTIES THAT WILL AFFECT WORK OF THIS SECTION. NO EXTRA PAYMENT WILL BE ALLOWED FOR ADDITIONAL WORK CAUSED BY UNFAMILIARITY WITH SITE CONDITIONS THAT ARE VISIBLE OR READILY CONSTRUED BY EXPERIENCED OBSERVER.
2. PREPARATORY WORK: BEFORE STARTING WORK IN A PARTICULAR AREA OF THE PROJECT, VISIT SITE AND EXAMINE CONDITIONS UNDER WHICH WORK MUST BE PERFORMED INCLUDING PREPARATORY WORK DONE UNDER OTHER SECTIONS OR CONTRACTS BY OWNER. REPORT CONDITIONS THAT MIGHT AFFECT WORK ADVERSELY IN WRITING TO ARCHITECT AND OWNER. DO NOT PROCEED WITH WORK UNTIL DEFECTS HAVE BEEN CORRECTED AND CONDITIONS ARE SATISFACTORY. COMMENCEMENT OF WORK SHALL BE CONSTRUED AS COMPLETE ACCEPTANCE OF EXISTING CONDITIONS AND PREPARATORY WORK.
3. PHASING: DEMOLITION WORK SHALL COMPLY WITH THE PHASING REQUIREMENTS OF THE PROJECT AND BE COORDINATED WITH THE OWNER, ARCHITECT, CM AND ENGINEER. NO REMOVALS SHALL BE IMPLEMENTED WITHOUT A THOROUGH UNDERSTANDING OF THE PHASING REQUIREMENTS.
4. ABANDONING OF DUCTWORK, PIPING OR EQUIPMENT IN PLACE WITHIN SCOPE AREA IS PROHIBITED.
5. PROVIDE 2 WEEKS NOTICE TO OWNER FOR SHUT DOWN OF ANY SERVICES AND/OR SYSTEMS.
6. COORDINATE EXISTING EQUIPMENT AND MATERIALS THAT SHALL REMAIN THE PROPERTY OF THE OWNER. ITEMS OF VALUE WHICH ARE NOT DIRECTED TO BE RETURNED TO THE OWNER, SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM SITE AND LEGALLY DISPOSED OF. STORAGE OR SALE OF ITEMS ON THE PROJECT SITE IS PROHIBITED.
7. PROTECTION: ENSURE THE SAFE PASSAGE OF PERSONS IN AND AROUND THE BUILDING DURING DEMOLITION. PREVENT INJURY TO PERSONS AND DAMAGE TO PROPERTY. PROVIDE ADEQUATE SHORING AND BRACING TO PREVENT COLLAPSE. IMMEDIATELY REPAIR DAMAGED PROPERTY TO THE CONDITION BEFORE BEING DAMAGED. TAKE EFFECTIVE MEASURES TO PREVENT WINDBLOWN DUST.
8. UTILITIES: MAINTAIN ALL UTILITIES EXCEPT THOSE REQUIRING REMOVAL OR RELOCATION. KEEP UTILITIES IN SERVICE AND PROTECT FROM DAMAGE. DO NOT INTERRUPT UTILITIES SERVING OCCUPIED AREAS WITHOUT FIRST OBTAINING PERMISSION FROM THE OWNER IN WRITING. PROVIDE TEMPORARY SERVICES AS REQUIRED.
9. INFORMATION CONTAINED ON THESE DRAWINGS WAS OBTAINED FROM ARCHIVED DRAWINGS AND SITE VISITS. DRAWINGS ARE DIAGRAMMATIC ONLY AND REFLECT OVERALL SYSTEM REMOVAL. NOT EVERY ITEM OR COMPONENT OF A SYSTEM IS SHOWN. PROVIDE COMPLETE REMOVAL OF ASSOCIATED ANCILLARY PIPES, HANGERS, VALVES AND ACCESSORIES SERVING SYSTEM SHOWN.
10. DEMOLITION WORK SHALL COMPLY WITH OSHA, EPA AND APPLICABLE STATE AND LOCAL CODES. COMPLY WITH HAULING AND DISPOSAL REGULATIONS.
11. REFER TO SPECIFICATIONS FOR ADDITIONAL DEMOLITION REQUIREMENTS AND PROCEDURES.

PRE-DEMO TESTING, ADJUSTING AND BALANCING (TAB)

1. CONFIRM SUPPLY, RETURN AND EXHAUST SYSTEM AIRFLOW CAPACITY THROUGH PRE-CONSTRUCTION TESTING AND BALANCING OF SYSTEMS AFFECTED BY THE WORK. REPORTS SHALL INCLUDE COMPLETE FAN INFORMATION, CFM, ESP, TSP, RPM, VOLTS, AMPS AND VFD SPEEDS.
2. CONFIRM HYDRONIC SYSTEM CAPACITY THROUGH PRE-CONSTRUCTION TESTING AND BALANCING REPORTS OF SYSTEMS AFFECTED BY THE WORK. REPORTS SHALL INCLUDE PIPE SIZE, FLOW RATE, SUPPLY PRESSURE AND RETURN PRESSURE.
3. CONFIRM STEAM PIPING CAPACITY THROUGH PRE-CONSTRUCTION TESTING AND BALANCING REPORTS OF SYSTEMS AFFECTED BT THE WORK. REPORTS SHALL INCLUDE PIPE SIZE AND STEAM PRESSURE (PSIG).

PIPING LEGEND

SYMBOL - DOUBLE LINE	DESCRIPTION
	SUPPLY PIPING
	RETURN PIPING
	PIPE RISE
	PIPE DROP
	BLIND FLANGE
	BLIND FLANGE WITH TAP
	END CAP
	REDUCER (ECCENTRIC-FLAT ON BOTTOM OR FLAT ON TOP)
	REDUCER (CONCENTRIC)
	UNION

SYMBOL - SINGLE LINE	DESCRIPTION
	SUPPLY PIPING
	RETURN PIPING
	ELBOW UP
	ELBOW DOWN
	TEE TOWARDS (UP IN PLAN)
	TEE AWAY (DOWN IN PLAN)
	DROP AND RUN
	DIRECTION OF FLOW
	DIRT LEG
CO	CLEANOUT
	BLIND FLANGE
	END CAP
	REDUCER (ECCENTRIC-FLAT ON BOTTOM OR FLAT ON TOP)
	REDUCER (CONCENTRIC)
HWS	HEATING HOT WATER SUPPLY
HWR	HEATING HOT WATER RETURN

DUCTWORK LEGEND

SYMBOL	DESCRIPTION
12x6	RECTANGULAR DUCTWORK
12"ø	ROUND DUCTWORK
12/6	OVAL DUCTWORK
12x6	DUCTWORK SHOWN SINGLE LINE
	ACOUSTICALLY LINED DUCTWORK
	ACOUSTICALLY LINED DUCTWORK (SINGLE LINE)
	RECTANGULAR SUPPLY DUCTWORK TOWARDS (UP IN PLAN)
	ROUND SUPPLY DUCTWORK TOWARDS (UP IN PLAN)
	RECTANGULAR SUPPLY DUCTWORK AWAY (DOWN IN PLAN)
	ROUND SUPPLY DUCTWORK AWAY (DOWN IN PLAN)
	RECTANGULAR RETURN DUCTWORK TOWARDS (UP IN PLAN)
	ROUND RETURN DUCTWORK TOWARDS (UP IN PLAN)
	RECTANGULAR RETURN DUCTWORK AWAY (DOWN IN PLAN)
	ROUND RETURN DUCTWORK AWAY (DOWN IN PLAN)
	RECTANGULAR EXHAUST DUCTWORK TOWARDS (UP IN PLAN)
	ROUND EXHAUST DUCTWORK TOWARDS (UP IN PLAN)
	RECTANGULAR EXHAUST DUCTWORK AWAY (DOWN IN PLAN)
	ROUND EXHAUST DUCTWORK AWAY (DOWN IN PLAN)
	FLEXIBLE DUCT
	OPEN ENDED DUCT WITH WIRE MESH SCREEN
	CAPPED DUCT
	DUCT TRANSITION

AIR DEVICE LEGEND

SYMBOL	DESCRIPTION
	SUPPLY DIFFUSER
	RETURN GRILLE OR REGISTER
	EXHAUST GRILLE OR REGISTER
	SIDEWALL SUPPLY GRILLE
	SIDEWALL RETURN OR EXHAUST GRILLE OR REGISTER
	SUPPLY DIFFUSER (BLOW INDICATED)
	LINEAR DIFFUSER
	CHILLED BEAM
XX-# (###)	AIR DEVICE TAG (TAG NO. (AIRFLOW))

DAMPER LEGEND

SYMBOL	DESCRIPTION
	MANUAL VOLUME DAMPER
FD	FIRE DAMPER W/ACCESS DOOR
MD	MOTORIZED CONTROL DAMPER W/ACCESS DOOR
SD	SMOKE DAMPER W/SMOKE DETECTOR AND ACCESS DOOR
FSD	COMBINATION FIRE/SMOKE DAMPER W/SMOKE DETECTOR AND ACCESS DOOR
RD	RADIATION DAMPER
BD	BACKDRAFT DAMPER
AVD	AUTOMATIC VOLUME DAMPER (PRESSURE INDEPENDENT)

HVAC DEMOLITION LEGEND

SYMBOL	DESCRIPTION
	REMOVE EXISTING DUCTWORK/EQUIPMENT
	REMOVE EXISTING PIPING/EQUIPMENT
ETR	EXISTING TO REMAIN
RE	REMOVE EXISTING
RL	RELOCATE EXISTING
NL	NEW LOCATION
	CONNECTION TO EXISTING

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STATE OF CONNECTICUT
DOUGLAS S. CASE
20909
LICENSED
PROFESSIONAL ENGINEER

MECHANICAL ABBREVIATIONS, NOTES AND SYMBOLS

Scale: AS NOTED
Job No.: 2021218.00
Drawn By: CES
Date: 1/7/2022

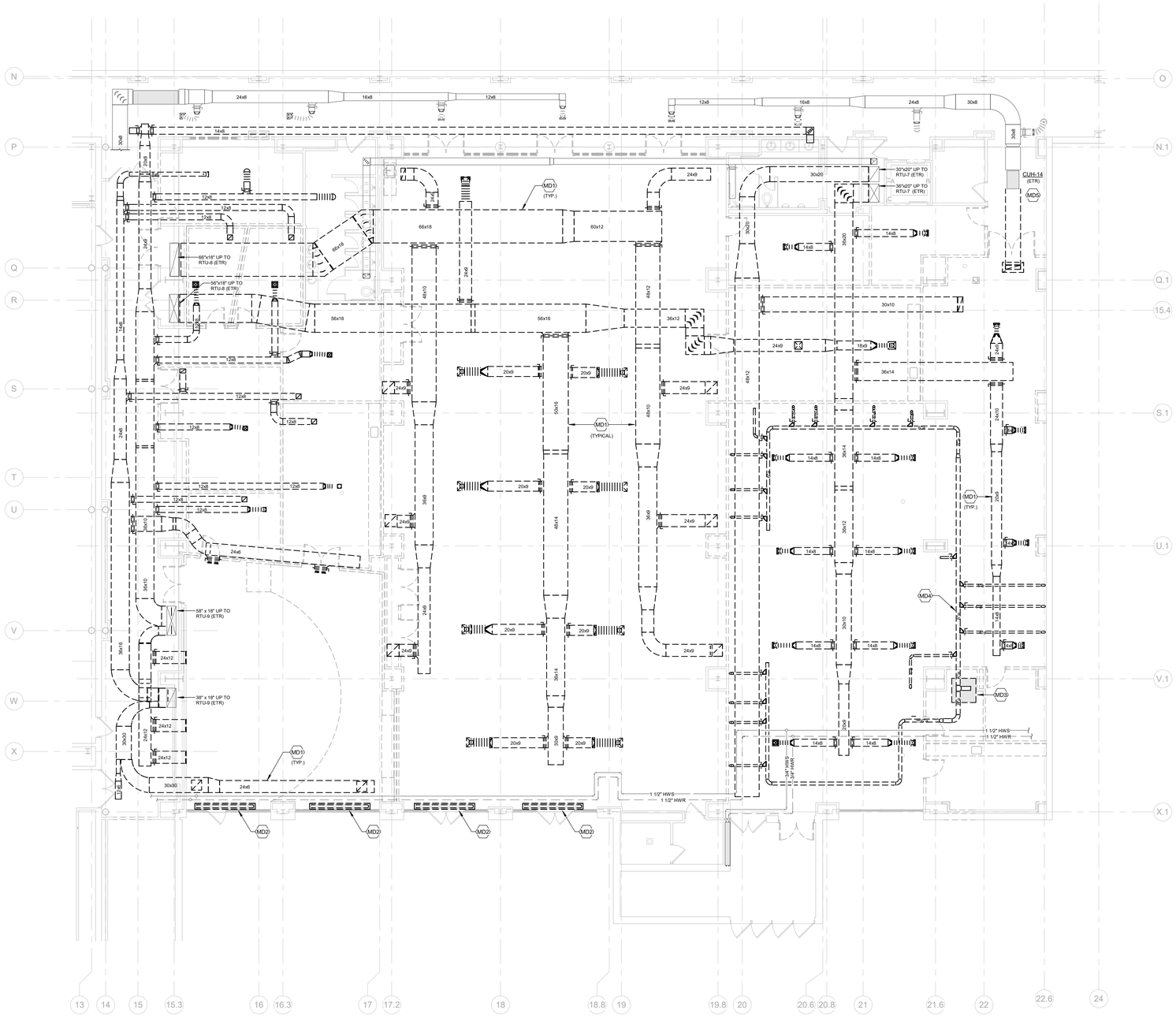
M000

GENERAL NOTES - MECHANICAL DEMOLITION

1. THE INTENT OF THE PLANS AND SPECIFICATION IS FOR A COMPLETE REMOVAL OF ALL SYSTEMS WITHIN THE BUILDING. ALL WORK WITH THE BOARD OF EDUCATION SPACE AND WELCOME CENTER ARE EXISTING TO REMAIN UNLESS OTHERWISE NOTED.
2. OUTLINED AREAS INDICATE AREAS OF SCOPE. OUTLINED AREAS MAY BE SHOWN OFFSET FROM WALLS FOR GRAPHICAL CLARITY. DEMOLITION SCOPE SHOULD INCLUDE DEMOLITION OF ITEMS ON AND WITHIN THE WALL. REFER TO ARCHITECTURAL PLANS FOR ENTIRE SCOPE OF WORK.
3. ALL SERVICES THAT SERVE THE BOARD OF EDUCATION SPACE AND WELCOME CENTER SHOULD BE COORDINATED WITH THE SCOPE OF NEW WORK. THESE SPACES WILL NEED TO REMAIN OPERATIONAL UNTIL INTERCONNECTION TO NEW CONSTRUCTION.
4. PRIOR TO SUBMITTING BID, CONTRACTOR SHALL VISIIT THE SITE AND REVIEW ALL EXISTING CONDITIONS. NO COMPENSATION WILL BE GRANTED FOR ADDITIONAL WORK CAUSED BY UNFAMILIARITY WITH SITE CONDITIONS THAT ARE VISABLE OR REDILY IDENTIFIED BY EXPERIENCED OBSERVERS. INCLUDE IN THE BID ALL DEMOLITION WORK REQUIRED FOR A COMPLETE DEMOLITION OF THE SYSTEMS.
5. REMOVE AND DISPOSE OF MECHANICAL EQUIPMENT, DUCTWORK AND PIPING TO THE EXTENT INDICATED. REMOVAL SHALL BE COMPLETE INCLUDING HANGERS, BRACKETS, VALVES, FITTINGS, AND APPURTENANCES UNLESS OTHERWISE INDICATED.
6. THIS PLAN IS DIAGRAMMATIC AND NOT INTENDED TO DEPICT THE ENTIRE SCOPE OF MECHANICAL DEMOLITION. ADDITIONAL DEMOLITION AND MODIFICATION WORK NOT SHOWN SHOULD BE ANTICIPATED.
7. EXISTING CONDITIONS ARE BASED ON REFERENCE DRAWINGS AS WELL AS FIELD VERIFICATION WHERE POSSIBLE. CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE EXISTING CONDITIONS, INCLUDING SERVICES THEY MAY SERVE ADJACENT SPACES OR SUITES. IF ANY UTILITY IS FOUND TO BE CALLED FOR REMOVAL THAT AFFECTS OTHER AREAS, CONTRACTOR SHALL MAKE THE OWNER, ARCHITECT, AND ENGINEER OR RECORD AWARE BEFORE FURTHER ACTION IS TAKEN.
8. IT IS NOT THE INTENT OF THESE DRAWINGS TO SHOW EVERY PIECE OF EQUIPMENT, PIPING, OR DUCTWORK TO BE REMOVED. EQUIPMENT NOT BEING REUSED SHALL BE REMOVED INCLUDING ALL ASSOCIATED HANGERS, SUPPORTS, PIPES, DUCTS, CONDUITS, WIRES, AND CONTROLS BACK TO THE POINT OF ORIGIN.
9. NO EQUIPMENT, PIPING, OR CONDUIT SHALL BE ABANDONED IN PLACE UNLESS SPECIFICALLY NOTED.
10. ALL SYSTEMS THROUGHOUT THE RENOVATED AREA, SHALL BE REMOVED AS SHOWN AND NOTED ON THE DEMOLITION PLANS. SYSTEM LINES SHOWN ARE STRICTLY DIAGRAMMATIC TO SHOW GENERAL DISTRIBUTION TO AREAS SERVED. CONTRACTOR IS RESPONSIBLE FOR REMOVAL OF SYSTEM AND SHALL VISIT SITE PRIOR TO BID TO VERIFY EXTENT OF WORK. CONTRACTOR SHALL VERIFY SYSTEMS THAT MUST REMAIN ACTIVE TO ADJACENT SPACES.

MECHANICAL DEMOLITION KEY NOTES

- MD1 REMOVE EXISTING DUCTWORK TO EXTENT INDICATED INCLUDING HANGERS, SUPPORTS, AIR TERMINALS, ETC.
- MD2 REMOVE EXISTING RADIANT PANEL AND ASSOCIATED HWS&R BRANCH PIPING. RECONNECT PIPING FOR NEW RADIANT PANELS SHOWN ON DRAWING M101.
- MD3 REMOVE AND RELOCATE EXISTING DUST COLLECTOR AS INDICATED ON M101.
- MD4 REMOVE EXISTING DUCTWORK ASSOCIATED WITH DUST COLLECTOR INLUDING HANGERS, SUPPORTS, AIR TEMINALS, ETC.
- MD5 REMOVE EXISTING RETURN DUCTWORK ASSOCIATED CUH-14 (ETR) AND RE-DUCT PER DRAWING M101.



1 MECHAINCAL FIRST FLOOR DEMOLITION PLAN
1/8" = 1'-0"

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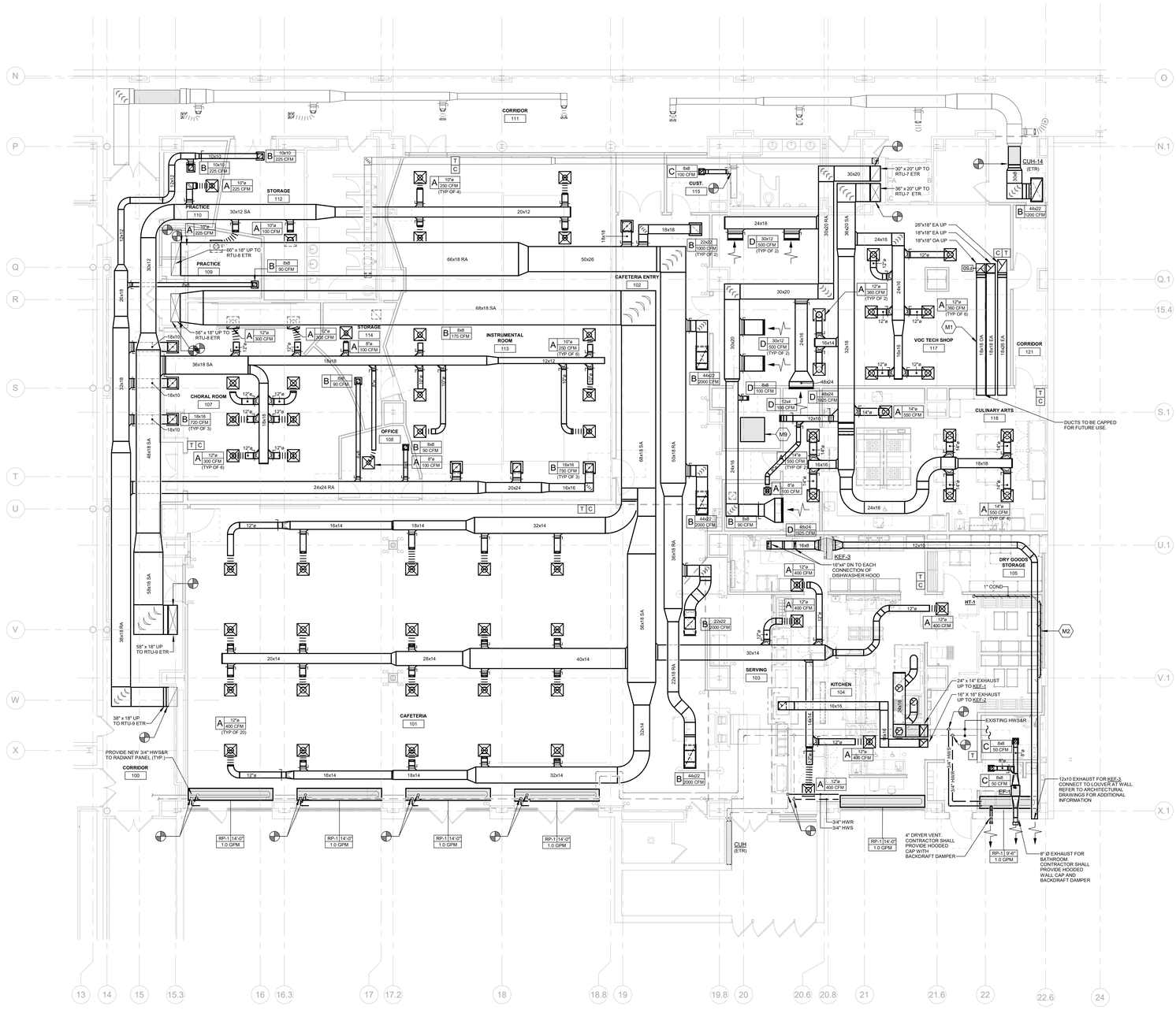
MECHANICAL FIRST FLOOR DEMOLITION PLAN

Scale: AS NOTED
Job No.: 2021218.00
Drawn By: CES
Date: 1/7/2022

MD101

MECHANICAL KEY NOTES

M1	EXHAUST DUCTS FOR FUTURE USE SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 23 3100 FOR GREASE DUCTS. GREASE DUCTS SHALL ALSO BE INSULATED IN ACCORDANCE WITH SECTION 23 0700.
M2	PROVIDE HEAT TRACE ON ALL WALK-IN COOLER AND FREEZER CONDENSATE PIPING IN ACCORDANCE WITH DETAILS AND SCHEDULE.
M3	CONTRACTOR SHALL RE-BALANCE UNIT TO AIRFLOWS INDICATED ON PLAN. PROVIDE ADDITIONAL SHEAVES/BELTS AS REQUIRED TO ACHIEVE REQUIRED AIRFLOWS.
M4	PROVIDE EXHAUST DUCTS THROUGH ROOF FOR FUTURE CONNECTION. PROVIDE ROOFCURB AND MAKE WEATHERTIGHT. TYP OF 3
M5	PROVIDE ROOF RAILS FOR SUPPORT OF FAN IN ACCORDANCE WITH DETAIL 9/M500
M6	ROOFTOP GREASE EXHAUST DUCTWORK SHALL BE INSULATED & JACKETED IN ACCORDANCE WITH SECTION 23 0700.
M7	KITCHEN EXHAUST FANS (KEF-1 & KEF-2) SHALL BE INSTALLED A MINIMUM OF 10'-0" FROM ROOF EDGE.
M8	PROVIDE NEW NEMA 3R VFD, MOUNTED TO UNIT, FOR SUPPLY & RETURN FANS. REFER TO RTU CONTROLS DIAGRAMS, SHEET M700, FOR ADDITIONAL INFORMATION.
M9	LOCATION OF RELOCATED DUST COLLECTOR.



1 MECHANICAL FIRST FLOOR PLAN
1/8" = 1'-0"

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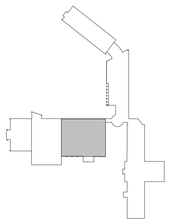

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MECHANICAL FIRST FLOOR PLAN

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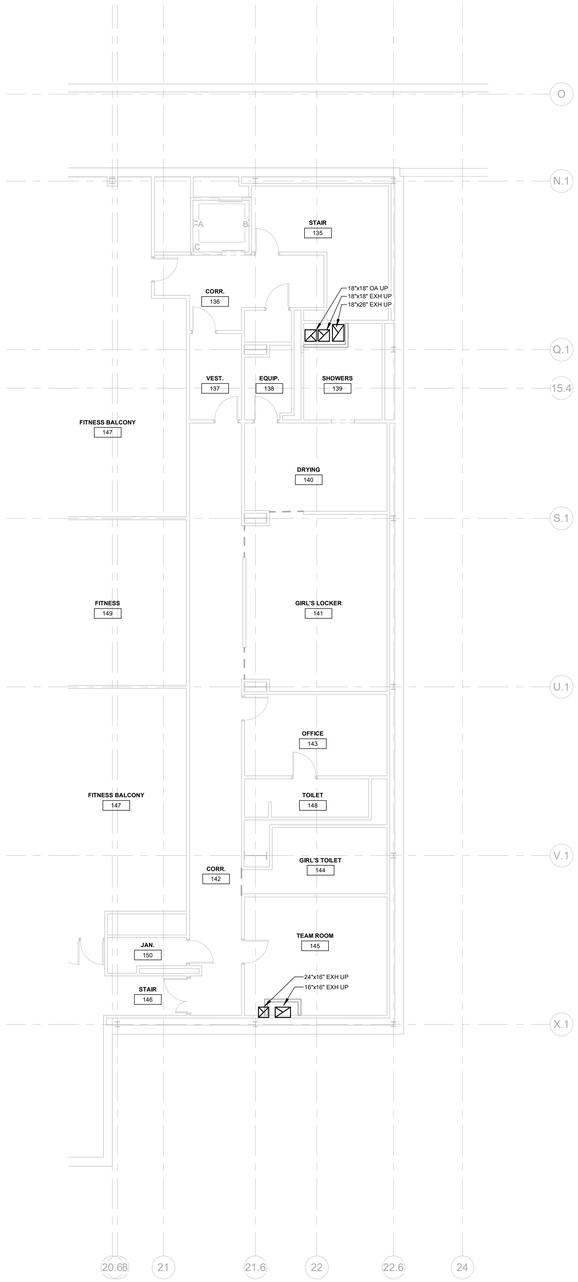
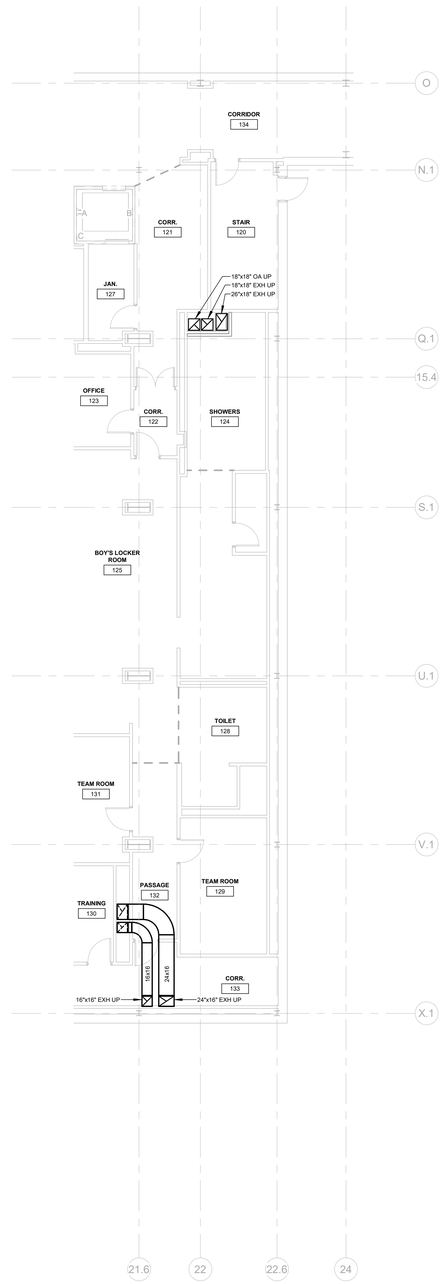
Date: 1/7/2022

M101



2 MECHANICAL THIRD FLOOR PLAN
1/8" = 1'-0"



1 MECHANICAL SECOND FLOOR PLAN
1/8" = 1'-0"

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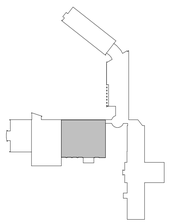

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MECHANICAL SECOND/THIRD FLOOR PLAN

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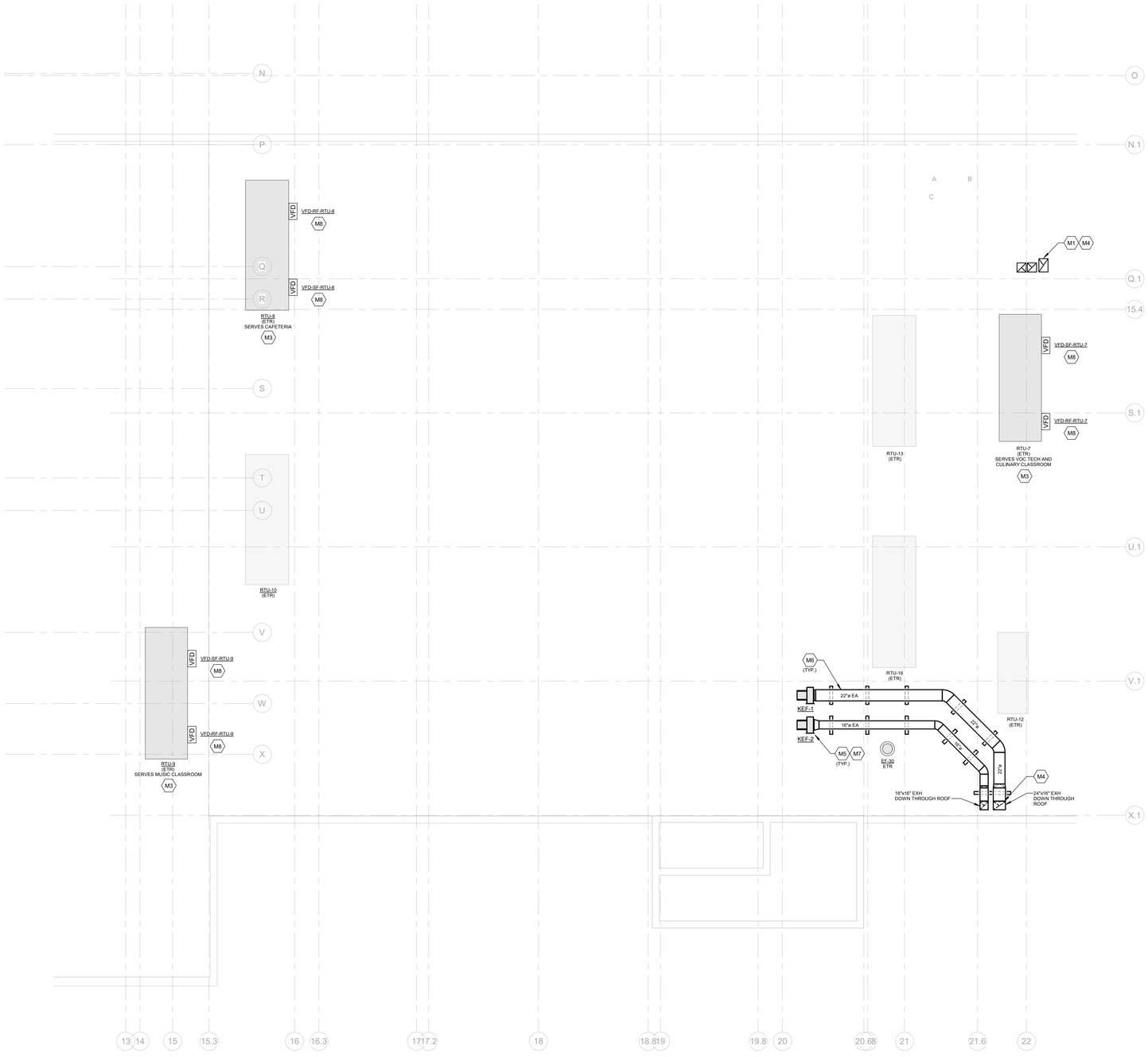
Job No.: 2021218.00
Drawn By: CES
Date: 1/7/2022

M102

MECHANICAL KEY NOTES

M1	EXHAUST DUCTS FOR FUTURE USE SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 23 3100 FOR GREASE DUCTS. GREASE DUCTS SHALL ALSO BE INSULATED IN ACCORDANCE WITH SECTION 23 0700.
M2	PROVIDE HEAT TRACE ON ALL WALK-IN COOLER AND FREEZER CONDENSATE PIPING IN ACCORDANCE WITH DETAILS AND SCHEDULE.
M3	CONTRACTOR SHALL RE-BALANCE UNIT TO AIRFLOWS INDICATED ON PLAN. PROVIDE ADDITIONAL SHEAVES/BELTS AS REQUIRED TO ACHIEVE REQUIRED AIRFLOWS.
M4	PROVIDE EXHAUST DUCTS THROUGH ROOF FOR FUTURE CONNECTION. PROVIDE ROOFCURB AND MAKE WEATHERTIGHT. TYP OF 3
M5	PROVIDE ROOF RAILS FOR SUPPORT OF FAN IN ACCORDANCE WITH DETAIL 9/M500
M6	ROOFTOP GREASE EXHAUST DUCTWORK SHALL BE INSULATED & JACKETED IN ACCORDANCE WITH SECTION 23 0700.
M7	KITCHEN EXHAUST FANS (KEF-1 & KEF-2) SHALL BE INSTALLED A MINIMUM OF 10'-0" FROM ROOF EDGE.
M8	PROVIDE NEW NEMA 3R VFD, MOUNTED TO UNIT, FOR SUPPLY & RETURN FANS. REFER TO RTU CONTROLS DIAGRAMS, SHEET M700, FOR ADDITIONAL INFORMATION.
M9	LOCATION OF RELOCATED DUST COLLECTOR.



1 MECHANICAL ROOF PLAN
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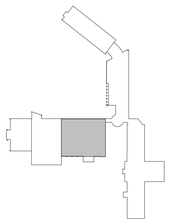

KEY PLAN

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ROOF PLAN

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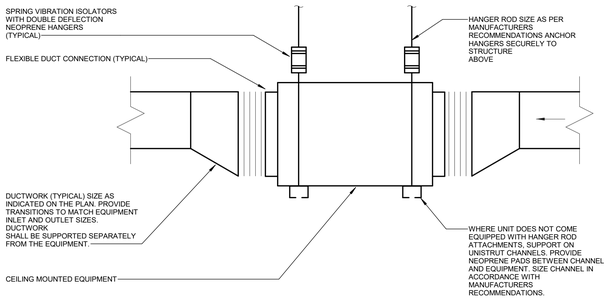
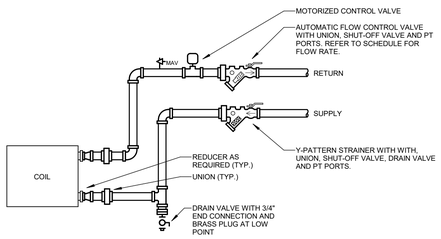
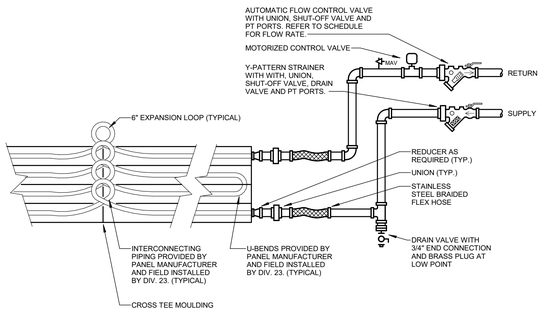


1 SUSPENDED IN-LINE FAN
NTS

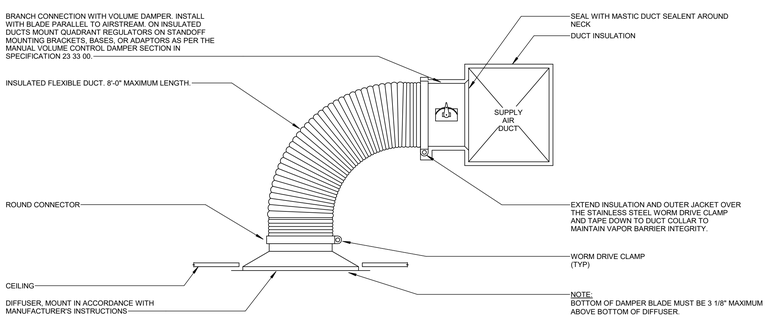


BRANCH PIPE SIZING	
FLOW RATE (GPM)	PIPE SIZE (IN)
0.0 - 3.0	3/4"
>3.0 - 6.5	1"
>6.5 - 12.0	1-1/4"
>12.0 - 20.0	1-1/2"
>20.0 - 40.0	2"
>40.0 - 65.0	2-1/2"
OVER 65.0	3"

2 COIL HOOKUP - TERMINAL UNIT COIL PIPING 2-WAY
NTS

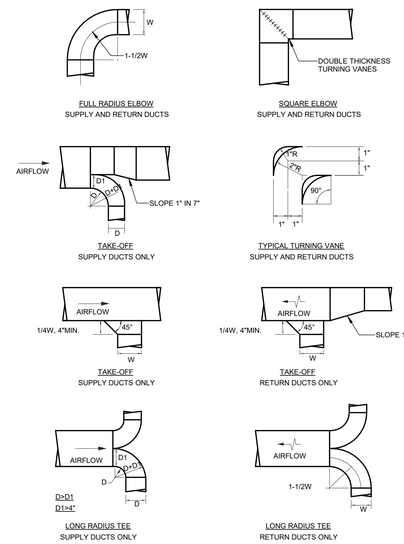


3 COIL HOOKUP - RADIANT CEILING PANEL
12" = 1'-0"

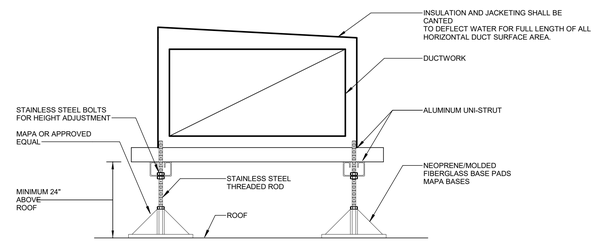


NOTES:
1. SUPPORT FLEXIBLE DUCT FROM STRUCTURE AS SPECIFIED. DUCT SHALL NOT KINK, SAG OR REST ON LIGHT FIXTURES, CEILING SUPPORT TEES OR TILE.
2. PROVIDE REGULATORS WHERE VOLUME DAMPER IS ACCESSIBLE.
3. IN UNCONDITIONED CEILING PLENUMS, INSULATE BACK OF DIFFUSER WITH 1" DUCT WRAP AND SEAL WITH VAPOR BARRIER TAPE.

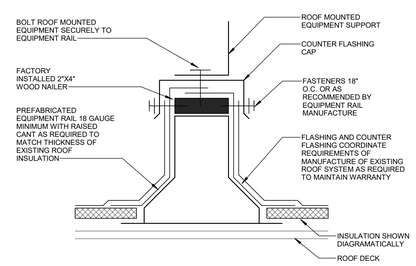
4 DIFFUSER WITH FLEX DUCT DETAIL
NTS



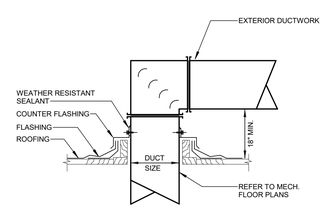
5 TYPICAL DUCT DETAILS
NTS



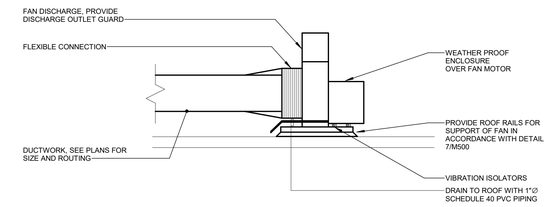
6 ROOF MOUNTED DUCT SUPPORT DETAIL
NTS



7 EQUIPMENT RAIL DETAIL
NTS



8 EXTERIOR DUCT ROOF PENETRATION DETAIL
NTS



9 UTILITY FAN DETAIL
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STATE OF CONNECTICUT
DOUGLAS J. LAPIE
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LICENSED
PROFESSIONAL ENGINEER

MECHANICAL DETAILS

Scale: AS NOTED
Job No.: 2021218.00
Drawn By: CES
Date: 1/7/2022

M500

FAN SCHEDULE

GENERAL					PHYSICAL			PERFORMANCE					ACOUSTICAL DATA		ELECTRICAL				REMARKS			
TAG	MANUFACTURER	MODEL	LOCATION	SERVICE	WEIGHT (LBS)	DRIVE	WHEEL DIA (IN.)	CFM	ESP (IN WG)	RPM	DRIVE LOSS (%)	BHP	INLET SONES	OUTLET SONES	WATTS	HP	VOLTAGE	PHASE	TYPE	RATINGS	FEATURES	INSTALL
KEF-1	COOK	CPS	ROOF	TYPE I HOOD EXHUAST	418	1.5	22 11/16	3,750	2.5	1701	7	2.39	70	75	2205	3	208	3	1	1	1-10	-
KEF-2	COOK	CPS	ROOF	TYPE I HOOD EXHUAST	257	1.5	17 5/8	1,800	2.0	1983	9	.919	68	69	1373	1-1/2	208	3	1	1	1-10	-
KEF-3	COOK	CVB	KITCHEN	DISHWASHER EXHUAST	116	1.5	15 9/16	600	1.5	1954	14	.453	-	71	1581	3/4	208	1	2	1	11,12	1
BEF	COOK	SQN-D VF	BATHROOM	BATHROOM EXHAUST	56	1.5	14	100	.5	1356	-	.025	3.7	5.2	218	1/8	115	1	2	-	11,12	1

REMARKS - TYPE

1. CENTRIFUGAL UTILITY FAN, FORWARD CURVED WHEEL, BELT DRIVE.
2. CENTRI-VANE ALL ALUMINUM INLINE CENTRIFUGAL BLOWER.

REMARKS - RATINGS

1. AIR PERFORMANCE CERTIFIED IN ACCORDANCE TO AMCA 211

REMARKS - FEATURES

1. WEATHERHOOD
2. BOLTED ACCESS DOOR
3. FLANGED INLET
4. GREASE TROUGH
5. STEEL DRAIN
6. HEAT SHIELD
7. SHAFT COOLER
8. BELT TENSIONER
9. UL 762 RATED
10. NEMA 3R DISCONNECT
11. NEMA 1 DISCONNECT
12. WEATHER COVER

REMARKS - INSTALL

1. SUSPEND UNIT FROM STRUCTURE ABOVE AT FOUR CORNERS WITH SPRING VIBRATION ISOLATORS. REFER TO DETAILS FOR ADDITIONAL INFORMATION.

HEAT TRACE SCHEDULE

SYMBOL	APPLICATION	MANUFACTURER/ MODEL NUMBER	PIPE SIZE	HEAT LOSS (W/FT)	AMBIENT TEMPERATURE (°F)	MAINTAIN TEMPERATURE (°F)	INSULATION K-FACTOR BTU-IN/HR-FT²-°F	INSULATION THICKNESS	MAXIMUM ALLOWABLE CABLE LENGTH (FT)	ELECTRICAL DATA V/PH/A	NOTES
HT-1	WALK IN FREEZER/ COOLER	RAYCHEM/ 5XL1-CR	1"	1.39	0	40	0.198	1"	214	120V/1PH/20A	ALL

NOTES:
1. REFER TO FLOOR PLANS FOR PIPE SIZE.
2. PROVIDE SINGLE-POINT HEAT-TRACING CONTROL SYSTEM C910-485.
3. INSTALL PER MANUFACTURERS GUIDELINES.
4. REFER TO MANUFACTURERS GUIDELINES FOR PIPE INSULATION REQUIREMENTS.

HYDRONIC RADIANT CEILING PANEL SCHEDULE

GENERAL		PHYSICAL		PERF.		REMARKS			
MANUFACTURER	MODEL	WIDTH (IN)	TUBES	AWT (°F)	BTUH PER LINEAL FOOT	TYPE	RATINGS	FEATURES	INSTALL
AIRTITE	AR-X	24	4	180	438	1	1	1	1

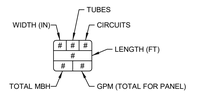
REMARKS-TYPE
1. 1/2" I.D. COPPER TUBING MECHANICALLY ATTACHED TO EXTRUDED ALUMINUM LINEAR PANEL(S), COLOR SELECTED BY ARCHITECT.

REMARKS-RATINGS
1. WIDTH, NUMBER OF TUBES, AND BTUH PER LINEAL FOOT DATA IN THIS SCHEDULE ARE FOR NOMINAL RATING PURPOSES ONLY. SEE PLANS FOR SIZING INFORMATION, AS INDICATED BY THE SYMBOL AT T BOTTOM OF THIS SCHEDULE:

REMARKS-FEATURES
1. PROVIDE MOUNTING ACCESSORIES INCLUDING OVERLAPPING FINISH TRIM AT ENDS (AND SIDES IF NECESSARY) THAT ALLOWS FOR EXPANSION AND CONTRACTION OF THE CEILING PANEL WITHOUT ADVERSE AFFECT ON THE ADJACENT ARCHITECTURAL FINISHES OR ON ADJACENT PANELS, AND THAT DOES NOT SHOW ANY GAPS IN THE CEILING WHEN THE PANELS ARE INSTALLED

REMARKS-INSTALL
1. SEE DETAILS 1/M6.03, 2/M6.03, 4/M6.02

FLOWRATE (gpm)= (TOTAL BTU/H) / (500 x ΔT)



"W TO W" LENGTH: WALL TO WALL
"W TO G" LENGTH: WALL TO GLAZING EDGE

DIFFUSER AND REGISTER SCHEDULE

SYMBOL	MANUFACTURER/ MODEL NUMBER	DUTY	TYPE	BORDER TYPE	CONSTRUCTION			REMARKS
					OBD	FRAME	BLADES	
A	KRUEGER SHPC	SUPPLY	DD	LAY IN	NONE	STEEL	STEEL	
B	KRUEGER S80	RETURN	LF	LAY IN	NONE	STEEL	STEEL	
C	KRUEGER S85	EXHAUST	LF	LAY IN	NONE	STEEL	STEEL	
D	KRUEGER S80	RETURN/ EXHAUST	SW	SURFACE MOUNT	NONE	STEEL	STEEL	

TYPES:
DD - DIRECTIONAL DIFFUSER
LB - LINEAR BAR
LF - LOUVERED FACE
LS - LINEAR SLOT
SW - SIDEWALL REGISTER
PERF - PERFORATED / EGG-CRATE

REMARKS:

1. MECHANICAL CONTRACTOR SHALL FABRICATE A 4'-0"L x 10"H x 5" DEEP INSULATED PLENUM.
2. MECHANICAL CONTRACTOR SHALL FIELD INSTALL REMOTE CABLE OPERATED VOLUME CONTROL DAMPER.
3. PROVIDE ROUND NECK SUPPLY DIFFUSER WITHOUT ANY ADJUSTABLE BLADES FOR KITCHEN USE.
4. PROVIDE BLANKOFF STRIPS FOR INACTIVE SECTIONS. PROVIDE CUSTOM CURVING AS NECESSARY, COORDINATE WITH ARCHITECT.

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MECHANICAL SCHEDULES

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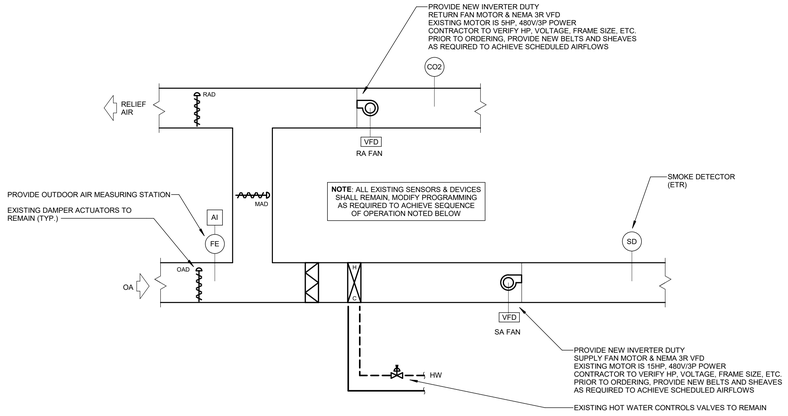


SEQUENCE OF OPERATION

SUPPLY FAN CONTROL

1. OCCUPIED: THE SUPPLY FAN SHALL BE ON AND RUN AT MINIMUM SPEED (25%, ADJ.). IF, AFTER 10 MINUTES THE TEMPERATURE WITHIN THE SPACE IS STILL DEPARTING FROM SETPOINT, VFD SHALL MODULATE FAN POWER BETWEEN MINIMUM AND MAXIMUM POSITIONS AS REQUIRED TO MAINTAIN SPACE TEMPERATURE SETPOINT. SUPPLY FAN SHALL DELIVER CFM NEEDED TO SATISFY LARGER DEMAND OF THE FOLLOWING:
   A. DEMAND CONTROLLED VENTILATION, CO2 SETPOINT.
   B. SPACE TERMPERATURE.

1. UNOCCUPIED: THE SUPPLY FAN SHALL BE ON SHOULD SPACE TEMPERATURE DROP BELOW TEMPERATURE SETPOINT. ONCE SETPOINT IS MET, FAN SHALL BE OFF.

RETURN FAN & EXHAUST AIR CONTROL DAMPER CONTROL

1. OCCUPIED: THE RETURN FAN SHALL BE ON. THE RETURN FAN VFD SHALL MODULATE TO MAINTAIN A FIXED OFFSET FROM THE SUPPLY FAN SPEED. BY DEFAULT THIS SHALL BE SET TO 90% OF SUPPLY AIR FLOW.

SUPPLY AIR TEMPERATURE CONTROL

1. IF THE SUPPLY AIR TEMPERATURE DROPS BELOW SETPOINT THE HEATING HOT WATER CONTROL VALVE SHALL MODULATE OPEN TO MAINTAIN SETPOINT.

2. IF THE SUPPLY AIR TEMPERATURE SETPOINT IS SATISFIED THE HEATING HOT WATER CONTROL VALVE SHALL MODULATE CLOSED.

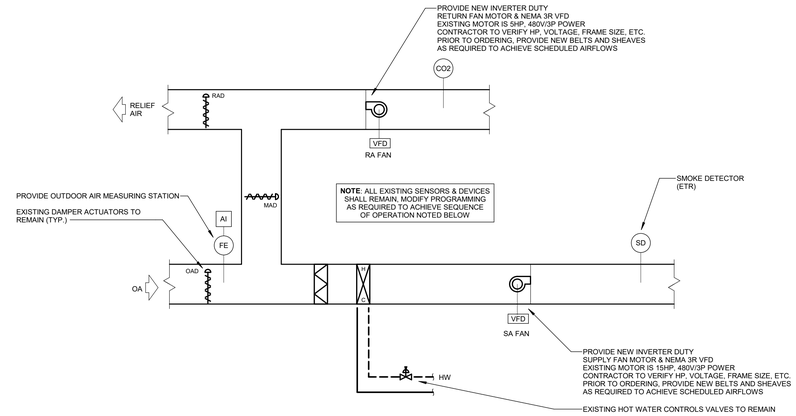
MINIMUM OUTSIDE AIR CONTROL

1. OCCUPIED: MIXED AIR DAMPERS SHALL MODULATE TO PROVIDE OUTSIDE AIR TO SATISFY THE LARGEST VENTILATION DEMAND OF THE FOLLOWING:
   A. MINIMUM OUTSIDE AIR POSITION = DAMPER POSITION AT 5% OPEN.
   B. WALL MOUNTED CO2 SENSOR SHALL MAINTAIN THE CO2 LEVEL OF THE CAFETERIA AT A FIXED DIFFERENTIAL ABOVE THE CO2 LEVEL OF THE OUTSIDE AIR. THE FIXED DIFFERENTIAL SHALL BE SET AT 400PPM INITIALLY.
   C. AS REQUIRED FOR ECONOMIZER OPERATION.
2. UNOCCUPIED: MIXED AIR DAMPERS SHALL MODULTE TO 100% RETURN AIR AND 0% OUTSIDE AIR.

SCOPE OF WORK:

IN ADDITION TO SENSORS, VFD'S AND SEQUENCES OUTLINED WITHIN THIS SET OF DRAWINGS, CONTRACTOR SHALL ALSO PROVIDE THE FOLLOWING:
1. REMOVE EXISTING AND PROVIDE NEW DIGITAL CONTROLLER TO ACCEPT ADDITIONAL POINTS OF VFD'S AND VFD OPERATION. NEW CONTROLLERS SHALL HAVE A MINIMUM OF (4) SPARE INPUTS AND (4) SPARE OUTPUTS.

4 RTU-7 & 9 CONTROLS
NTS



SEQUENCE OF OPERATION

SUPPLY FAN CONTROL

1. OCCUPIED: THE SUPPLY FAN SHALL BE ON AND RUN AT MINIMUM SPEED (25%, ADJ.). IF, AFTER 10 MINUTES THE TEMPERATURE WITHIN THE SPACE IS STILL DEPARTING FROM SETPOINT, VFD SHALL MODULATE FAN POWER BETWEEN MINIMUM AND MAXIMUM POSITIONS AS REQUIRED TO MAINTAIN SPACE TEMPERATURE SETPOINT. SUPPLY FAN SHALL DELIVER CFM NEEDED TO SATISFY LARGER DEMAND OF THE FOLLOWING:
   A. DEMAND CONTROLLED VENTILATION, CO2 SETPOINT.
   B. SPACE TERMPERATURE.
   C. KITCHEN HOOD MAKE UP EXHAUST RATE.

1. UNOCCUPIED: THE SUPPLY FAN SHALL BE ON SHOULD SPACE TEMPERATURE DROP BELOW TEMPERATURE SETPOINT. ONCE SETPOINT IS MET, FAN SHALL BE OFF.

RETURN FAN & EXHAUST AIR CONTROL DAMPER CONTROL

1. GENERAL: THE RETURN FAN VFD SHALL MODULATE TO MAINTAIN A FIXED OFFSET FROM THE SUPPLY FAN SPEED. BY DEFAULT THIS SHALL BE SET TO 90% OF SUPPLY AIR FLOW.
2. OCCUPIED: THE RETURN FAN SHALL BE ON. THE EXHAUST AIR DAMPER SHALL MODULATE TO MAINTAIN A SPACE PRESSURE OF 0.05" WG POSITIVE RELATIVE TO KITCHEN AIR PRESSURE. PROVIDE SPACE PRESSURE SENSORS WITHIN CAFETERIA & KITCHEN.

SUPPLY AIR TEMPERATURE CONTROL

1. IF THE SUPPLY AIR TEMPERATURE DROPS BELOW SETPOINT THE HEATING HOT WATER CONTROL VALVE SHALL MODULATE OPEN TO MAINTAIN SETPOINT.

2. IF THE SUPPLY AIR TEMPERATURE SETPOINT IS SATISFIED THE HEATING HOT WATER CONTROL VALVE SHALL MODULATE CLOSED.

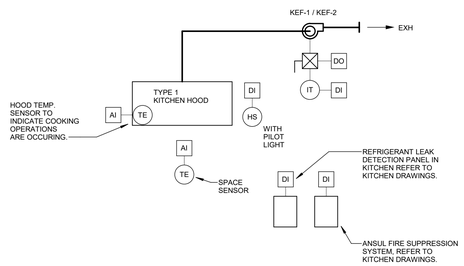
MINIMUM OUTSIDE AIR CONTROL

1. OCCUPIED: MIXED AIR DAMPERS SHALL MODULATE TO PROVIDE OUTSIDE AIR TO SATISFY THE LARGEST VENTILATION DEMAND OF THE FOLLOWING:
   A. MINIMUM OUTSIDE AIR POSITION = DAMPER POSITION AT 5% OPEN.
   B. WHEN KEF-1 IS INDEXED ON = 3,750 CFM.
   C. WHEN KEF-2 IS INDEXED ON = 1,800 CFM
   D. WHEN KEF-3 IS INDEXED ON = 600 CFM.
   E. WALL MOUNTED CO2 SENSOR SHALL MAINTAIN THE CO2 LEVEL OF THE CAFETERIA AT A FIXED DIFFERENTIAL ABOVE THE CO2 LEVEL OF THE OUTSIDE AIR. THE FIXED DIFFERENTIAL SHALL BE SET AT 400PPM INITIALLY.
   F. AS REQUIRED FOR ECONOMIZER OPERATION.
2. UNOCCUPIED: MIXED AIR DAMPERS SHALL MODULTE TO 100% RETURN AIR AND 0% OUTSIDE AIR.

SCOPE OF WORK:

IN ADDITION TO SENSORS, VFD'S AND SEQUENCES OUTLINED WITHIN THIS SET OF DRAWINGS, CONTRACTOR SHALL ALSO PROVIDE THE FOLLOWING:
1. REMOVE EXISTING AND PROVIDE NEW DIGITAL CONTROLLER TO ACCEPT ADDITIONAL POINTS OF VFD'S AND VFD OPERATION. NEW CONTROLLERS SHALL HAVE A MINIMUM OF (4) SPARE INPUTS AND (4) SPARE OUTPUTS.

1 RTU-8 CONTROLS
NTS



SEQUENCE OF OPERATION

GENERAL

1. PROVIDE ALL WIRING AND CONTROLS FOR A COMPLETE AND OPERABLE SYSTEM.

SAFETIES AND ALARMS

1. IF THE FAN IS COMMANDED ON AND IT DOES NOT ACTIVATE, AN ALARM SHALL BE GENERATED THROUGH THE BAS.

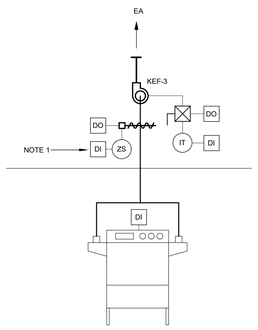
OPERATION

1. FAN SHALL START WHEN SWITCH IS ON

2. FAN SHALL START IF TEMPERATURE IN HOOD IS HIGHER THAN SETPOINT.

3. RTU SHALL MODULATE OUTSIDE & RETURN AIR ONCE HOOD IS ON. REFER TO RTU SEQUENCE OF OPERATION FOR ADDITIONAL INFORMATION.

5 KITCHEN EXHAUST
NTS



NOTES:
1. ACTUATORS WIRED TO START CIRCUIT.

SEQUENCE OF OPERATION

GENERAL

1. PROVIDE BAS CONTROLS.

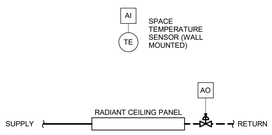
SAFETIES AND ALARMS

1. IF THE FAN IS COMMANDED ON AND IT DOES NOT ACTIVATE, AN ALARM SHALL BE GENERATED THROUGH THE BAS.

OPERATION

1. UPON INPUT SIGNAL FROM EQUIPMENT ACTIVATION SWITCH AT KITCHEN EQUIPMENT CONTROL PANEL, THE EXHAUST FAN DAMPER SHALL OPEN. WHEN DAMPER IS PROVEN OPEN VIA END SWITCH, THE FAN SHALL ACTIVATE.

2. RTU SHALL MODULATE OUTSIDE & RETURN AIR ONCE HOOD IS ON. REFER TO RTU SEQUENCE OF OPERATION FOR ADDITIONAL INFORMATION.



SEQUENCE OF OPERATION

GENERAL

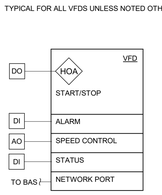
1. PROVIDE BAS CONTROLS.

OPERATION

1. IF THE SPACE TEMPERATURE DROPS BELOW SETPOINT THE HEATING HOT WATER CONTROL VALVE SHALL OPEN.

2. IF THE SPACE TEMPERATURE SETPOINT IS ABOVE SETPOINT, THE HEATING HOT WATER CONTROL VALVE SHALL CLOSE.

3 RADIANT CEILING PANEL CONTROLS
NTS



NOTES ON VARIABLE FREQUENCY DRIVES

1. THE HAND-OFF-AUTOMATIC SWITCH ON THE VFD SHALL PROVIDE FOR THE FOLLOWING BASIS OF CONTROL:

   A. HAND POSITION: THE BAS SHALL HAVE NO CONTROL OVER THE MOTOR SPEED NOR SHALL IT BE ABLE TO START OR STOP THE MOTOR (EXCEPT FOR SAFETY PURPOSES WHERE THE MOTOR SHALL SHUT DOWN). THE MOTOR SHALL RUN UNDER SPEED CONTROL FROM THE HAND POTENTIOMETER ON THE VSD. ALL SAFETIES CONTROLLING THE SHUTDOWN SHALL BE OPERATIONAL (i.e. SMOKE DETECTORS, PRESSURE SWITCHES, ETC). TEMPERATURE AND HUMIDITY CONTROL SHALL BE AVAILABLE THROUGH THE BAS.

   B. OFF POSITION: THE MOTOR SHALL BE OFF. THE BAS SHALL NOT CONTROL THE MOTOR. ALL OTHER CONTROL POINTS SHALL BE IN THEIR FAIL-SAFE POSITION.

   C. AUTOMATIC POSITION: THE MOTOR SHALL BE CONTROLLED BY THE BAS.

2. ELECTRICAL DISCONNECTS SHALL REPORT DISCONNECT POSITION VIA RELAY OUTPUTS.

3. THE FOLLOWING POINTS SHALL BE COMMUNICATED TO THE BAS VIA THE VFD'S MANUFACTURER'S STANDARD NETWORK COMMUNICATION PORT:

   - SPEED INDICATION
   - AUTO / OUT OF AUTO INDICATION
   - FAULT / FAULT CODE
   - MOTOR CURRENT
   - DRIVE TEMPERATURE
   - DC BUS VOLTAGE
   - POWER DEMAND (kW)

2 VFDS
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LICENSED
PROFESSIONAL ENGINEER

MECHANICAL CONTROL DIAGRAMS

Scale: AS NOTED
Job No.: 2021218.00
Drawn By: CES
Date: 1/7/2022

M700

ELECTRICAL GENERAL NOTES

1. BRANCH CIRCUITS AND FEEDER CIRCUITS SHALL BE CONCEALED IN WALLS AND ABOVE CEILINGS WHERE POSSIBLE, INCLUDING HOMERUNS TO PANELBOARDS. BRANCH CIRCUITS AND FEEDERS SHALL NOT BE ROUTED IN OR UNDER SLAB UNLESS SPECIFICALLY INDICATED ON ELECTRICAL FLOOR PLANS OR DETAILS. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
2. BRANCH CIRCUITS SHALL BE 2#12,#12G.,3/4"C., TO NEW 20A/1P CIRCUIT BREAKER IN PANEL INDICATED UNLESS NOTED OTHERWISE.
3. 120V, 1-PHASE, 20A BRANCH CIRCUITS EXCEEDING 150' IN LENGTH SHALL BE 2#10,#10G., 3/4"C. UNLESS NOTED OTHERWISE.
4. 277V, 1-PHASE, 20A BRANCH CIRCUITS EXCEEDING 250' IN LENGTH SHALL BE 2#10,#10G., 3/4"C. UNLESS NOTED OTHERWISE.
5. DEVICES SHALL BE LABELED WITH SOURCE PANEL AND CIRCUIT NUMBER(S).
6. REFER TO ARCHITECTS REFLECTED CEILING PLAN FOR EXACT LOCATION OF CEILING MOUNTED ELECTRICAL DEVICES. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT LOCATION OF WALL MOUNTED ELECTRICAL DEVICES.
7. PROVIDE FIRE STOPPING AND SMOKE BARRIER SEALING OF PENETRATIONS THROUGH FIRE WALLS OR SMOKE BARRIERS AS REQUIRED. REFER TO ARCHITECTURAL FLOOR PLANS AND CODE SHEETS FOR WALLS.
8. COORDINATE LOCATIONS OF ELECTRICAL DEVICES AND CONTROLS WITH RESPECT TO LOCATIONS OF CASEWORK AND EQUIPMENT PRIOR TO ROUGH-IN.
9. WHEN DEVICES ARE SHOWN ON PLANS OFFSET FROM ONE ANOTHER, DEVICES SHALL BE MOUNTED IN LINE, CENTERED ON WALL.
10. SHARED NEUTRAL WIRING IS NOT ACCEPTABLE, UNLESS NOTED OTHERWISE ON DRAWINGS. PROVIDE A DEDICATED NEUTRAL WIRE FOR EACH CIRCUIT, WHERE APPLICABLE.
11. DRAWINGS ARE DIAGRAMMATIC ONLY. DO NOT SCALE ELECTRICAL DRAWINGS. FIELD CONDITIONS AND ARCHITECTURAL ELEVATIONS AND DIMENSIONS SHALL GOVERN EXACT LOCATION AND MOUNTING HEIGHTS OF ELECTRICAL DEVICES AND RACEWAYS.
12. FINISHES AND COLOR OF ELECTRICAL WIRING DEVICES, EXPOSED RACEWAY, LIGHT FIXTURES, AND OTHER ELECTRICAL DEVICES SHALL BE DETERMINED BY THE ARCHITECT.
13. ELECTRICAL WORK SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE (OTHER THAN ROOF DECK).
14. THE ELECTRICAL CONTRACTOR SHALL PERFORM CORES REQUIRED FOR ELECTRICAL WORK.
15. BUILDING WIRE AND CABLE NOT IN RACEWAY SHALL BE PLENUM RATED.
16. PROVIDE SURFACE MOUNTED RACEWAY FOR NEW DEVICES LOCATED ON EXISTING TO REMAIN CMU OR MASONRY WALLS, UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS REGARDING SURFACE MOUNTED RACEWAY APPLICATIONS AND WIRING METHODS.

ELECTRICAL LIGHTING NOTES

1. REFER TO DRAWING **E001** FOR LIGHTING FIXTURE SCHEDULE.
2. EXIT SIGNS AND EMERGENCY BATTERY UNITS SHALL BE WIRED TO LINE SIDE OF LOCAL LIGHTING BRANCH CIRCUIT, AHEAD OF ALL SWITCHING DEVICES.
3. EMERGENCY LIGHTING RELAY LOCATIONS ARE SHOWN DIAGRAMMATICALLY. CONTRACTOR SHALL INSTALL RELAYS ABOVE NEAREST ACCESSIBLE CEILING, OR IN NEAREST STORAGE ROOM/ UTILITY SPACE, AND SHALL COORDINATE LOCATION WITH OTHER TRADES. REFER TO EMERGENCY LIGHTING WIRING SCHEMATICS FOR ADDITIONAL INFORMATION.
4. REFER TO DRAWING **E501** FOR TYPICAL LIGHTING CONTROL WIRING SCHEMATICS.

ELECTRICAL POWER NOTES

1. REFER TO DRAWING **E600** FOR MOTOR/ EQUIPMENT CIRCUIT SCHEDULE.
2. RECEPTACLES LOCATED WITHIN 6' FROM WATER SOURCES SHALL BE GFCI TYPE.
3. ELECTRICAL CONTRACTOR SHALL PROVIDE (1) -2" CONDUIT SLEEVE INTO EACH ROOM SHOWN WITH COMMUNICATIONS DEVICE(S). LOCATE ABOVE CEILING WHERE POSSIBLE.
4. SOUND SYSTEM EQUIPMENT SHALL BE POWERED OFF THE SAME PHASE OF SOURCE PANELBOARD.
5. 15A AND 20A, 120V AND 250V NON-LOCKING TYPE RECEPTACLES MOUNTED BELOW 5'-6" AFF SHALL BE LISTED TAMPER-RESISTANT TYPE IN ACCORDANCE WITH NEC 406.12.

ELECTRICAL TECHNOLOGY NOTES

1. COORDINATE POWER REQUIREMENTS TO ALL CONTROLLERS AND POWER SUPPLIES WITH THE SYSTEM PROVIDER AND THE ELECTRICAL SERIES DRAWINGS.
2. COORDINATE POWER REQUIREMENTS, RECOMMENDED WIRE SIZES AND EXACT POINTS OF CONNECTION FOR ELECTRIC LOCKING HARDWARE PROVIDED BY DIVISION 08 CONTRACTOR PRIOR TO INSTALLATION. COORDINATE WITH DOOR HARDWARE SCHEDULES AND SPECIFICATIONS.
3. REFER TO ARCHITECT'S REFLECTED CEILING PLAN FOR EXACT LOCATIONS OF CEILING MOUNTED DEVICES. COORDINATE ALL WALL MOUNTED DEVICE LOCATIONS WITH THE ARCHITECT PRIOR TO ROUGH-IN.
4. REFER TO **E001** DRAWING FOR DEVICE TYPES, BACKBOX REQUIREMENTS, MOUNTING HEIGHTS AND INFRASTRUCTURE (CONDUIT) REQUIREMENTS FOR ALL 'AV' JUNCTION BOX DEVICE LOCATIONS SHOWN ON DRAWINGS.
5. REFER TO DETAILS ON DRAWING **E500** FOR ACCESS CONTROLLED DOOR REQUIREMENTS.
6. COORDINATE AIMING OF ALL CAMERAS WITH THE OWNER AFTER SUBSTANTIAL COMPLETION AND BEFORE TURNOVER.
7. PRIOR TO ROUGH-IN, COORDINATE ALL AUDIOVISUAL AND TELECOMMUNICATIONS DEVICE BACKBOX LOCATIONS WITH OWNER-PROVIDED PROJECTION AND VISUAL DISPLAY EQUIPMENT.
8. DEVICES SHOWN ON THESE DRAWINGS SHALL BE COORDINATED WITH DIVISION 26 SPECIFICATIONS FOR PROVISIONS OF RELATED INFRASTRUCTURE INCLUDING BUT NOT LIMITED TO: HANGERS, SUPPORTS, CONDUITS, BACKBOXES AND OTHER RACEWAYS.
9. INSTALLATION OF TELECOMMUNICATIONS CONDUITS, RACEWAY AND BENDS SHALL MEET TIA RECOMMENDED INSTALLATION METHODS AND GUIDELINES. CONDUIT BENDS SHALL BE PROVIDED WITH SMOOTH SWEEPS AND BEND RADII TO MEET MANUFACTURER RECOMMENDED TOLERANCES FOR EACH CABLE THAT WITH BE ROUTED WITHIN.
10. A MINIMUM OF SIX(6) FEET OF SLACK SHALL BE PROVIDED FOR EACH HORIZONTAL CABLE DROP AT WORK AREA OUTLETS, COILED AND SECURED ABOVE ACCESSIBLE CEILING. IN AREAS WITHOUT AN ACCESSIBLE CEILING, PROVIDE CABLING COILED TIGHT TO STRUCTURE ABOVE.
11. PROVIDE CALIBRATION, OPTIMIZATION, PROGRAMMING AND FINAL ADJUSTMENTS FOR SECURITY DEVICES SPECIFIED HEREIN.
12. EXPOSED TELECOMMUNICATIONS AND SECURITY CABLING SHALL BE ROUTED IN CONDUIT, ADHERING TO DIVISION 26 SPECIFICATIONS.

ELECTRICAL DEMOLITION NOTES

1. EXISTING ELECTRICAL DEVICES IN REGIONS OF DEMOLITION SHALL BE REMOVED UNLESS NOTED OTHERWISE. INCLUDING BUT NOT LIMITED TO PANELBOARDS, RECEPTACLES, LIGHT FIXTURES, LIGHTING CONTROLS, TRANSFORMERS, TELECOMMUNICATION DEVICES, FIRE ALARM DEVICES, SECURITY DEVICES, AND MECHANICAL/HVAC/PLUMBING AND VOCATIONAL SHOP EQUIPMENT CONNECTIONS. REMOVAL SHALL BE COMPLETE INCLUDING BOXES, BRACKETS, HANGERS AND BRANCH CIRCUIT WIRING BACK TO SOURCE PANELBOARD OR LAST ACTIVE DEVICE TO REMAIN.
2. ELECTRICAL DEMOLITION PLANS ARE DIAGRAMMATIC AND NOT INTENDED TO DEPICT THE ENTIRE SCOPE OF ELECTRICAL DEMOLITION. CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF EXISTING DEVICES. ADDITIONAL DEMOLITION AND MODIFICATION WORK NOT SHOWN SHOULD BE ANTICIPATED.
3. REFER TO DRAWINGS **E000 AND E001** FOR SYMBOL LIST AND OTHER ABBREVIATIONS.
4. DEMOLITION OF EXISTING TELECOMMUNICATIONS DEVICES SHALL INCLUDE REMOVAL OF CONNECTORS, FACEPLATE, BACKBOX, CONDUIT AND WIRING BACK TO SOURCE.
5. DEMOLITION OF EXISTING SECURITY AND FIRE ALARM DEVICES SHALL INCLUDE REMOVAL OF DEVICE, CONNECTORS, MOUNTING HARDWARE, BACKBOX, CONDUIT AND WIRING BACK TO SOURCE OR LAST ACTIVE DEVICE TO REMAIN.
6. DEMOLITION OF EXISTING LIGHTING FIXTURES SHALL ALSO INCLUDE REMOVAL OF ASSOCIATED SWITCHES AND SWITCHED WIRING UNLESS OTHERWISE NOTED IN NEW WORK PLANS. LOCATIONS OF ALL SWITCHES SHALL BE FIELD VERIFIED PRIOR TO DEMOLITION.
7. REFER TO MECHANICAL/PLUMBING DEMOLITION DRAWINGS FOR EXISTING MECHANICAL AND PLUMBING EQUIPMENT TO BE REMOVED. FOR THIS EQUIPMENT, DISCONNECT AND REMOVE WIRING BACK TO SOURCE AND REMOVE ASSOCIATED STARTERS, DRIVES AND DISCONNECT SWITCHES AT EQUIPMENT LOCATIONS.
8. CONTRACTOR SHALL BE RESPONSIBLE FOR DISPOSAL OF ALL ITEMS TO BE REMOVED IN A SAFE, LEGAL AND RESPONSIBLE MANNER.
9. CONTRACTOR SHALL MODIFY EXISTING CIRCUITS, WHEN EXISTING DEVICES ARE REMOVED, AS REQUIRED TO MAINTAIN CIRCUIT CONTINUITY.
10. PRIOR TO SUBMITTING BID, VISIT SITE AND IDENTIFY EXISTING CONDITIONS AND DIFFICULTIES THAT WILL AFFECT WORK TO BE PERFORMED. NO COMPENSATION WILL BE GRANTED FOR ADDITIONAL WORK CAUSED BY UNFAMILIARITY WITH SITE CONDITIONS THAT ARE VISIBLE OR READILY IDENTIFIED BY EXPERIENCED OBSERVERS. INCLUDE IN THE BID ALL DEMOLITION WORK REQUIRED.
11. CONTRACTOR SHALL BE RESPONSIBLE FOR STORAGE AND HANDLING OF EXISTING TO BE RELOCATED EQUIPMENT AND DEVICES.
12. EXISTING FIRE ALARM SYSTEM SHALL BE MODIFIED IN AREA OF WORK AND BE MAINTAINED OUTSIDE OF AREA OF WORK. MAINTAIN OPERATION OF THE EXISTING FIRE ALARM SYSTEM DURING DEMOLITION. DEVICES ARE TO BE REMOVED BACK TO NEXT DEVICE OUTSIDE THE AREA OF WORK. EXTEND CIRCUITS WITH WIRING TO MATCH EXISTING CLASS AND STYLE TO MAINTAIN CONTINUITY OF CIRCUITS UPSTREAM AND DOWNSTREAM OF THE WORK AFFECTED BY DEMOLITION. PROTECT EXISTING DEVICES DURING CONSTRUCTION. TAKE DEVICES OFF-LINE IF NECESSARY, COORDINATE BYPASSING AND REACTIVATION OF THESE DEVICES WITH OWNER. PROVIDE TESTING AND REPROGRAMMING OF SYSTEM, AND COORDINATE ACCEPTANCE TESTING WITH THE LOCAL AHJ.
13. EXISTING PUBLIC ADDRESS SYSTEM SHALL BE MODIFIED IN AREA OF WORK AND BE MAINTAINED OUTSIDE OF AREA OF WORK. MAINTAIN OPERATION OF THE EXISTING PUBLIC ADDRESS SYSTEM DURING DEMOLITION. DEVICES ARE TO BE REMOVED BACK TO NEXT DEVICE OUTSIDE THE AREA OF WORK. EXTEND CIRCUITS WITH WIRING TO MATCH EXISTING CLASS AND STYLE TO MAINTAIN CONTINUITY OF CIRCUITS UPSTREAM AND DOWNSTREAM OF THE WORK AFFECTED BY DEMOLITION. PROTECT EXISTING DEVICES DURING CONSTRUCTION. TAKE DEVICES OFF-LINE IF NECESSARY, COORDINATE BYPASSING AND REACTIVATION OF THESE DEVICES WITH OWNER. PROVIDE TESTING AND REPROGRAMMING OF THE EXISTING SYSTEM.
14. BRANCH CIRCUITS THAT ARE EXISTING TO REMAIN OR TO BE RELOCATED IN PANELBOARDS THAT ARE BEING DEMOLISHED SHALL BE LABELED TO INDICATE WHAT THEY ARE SERVING (BASED ON EXISTING PANELBOARD DIRECTORY).
15. PANELBOARDS THAT ARE EXISTING TO REMAIN SHALL HAVE THEIR DIRECTORY UPDATED TO INDICATE CIRCUITS THAT ARE EXISTING TO REMAIN. CIRCUITS THAT HAVE BEEN REMOVED AS PART OF DEMOLITION SHALL BE INDICATED IN THE REVISED DIRECTORY AS SPARES.
16. WHERE EXISTING LIGHT FIXTURES ARE SCHEDULED FOR RELOCATION, RECONFIGURATION OR REINSTALLATION IN NEW CEILINGS, CLEAN, RE-LAMP (IF APPLICABLE) AND TEST THE FIXTURES. REPLACE DAMAGED LENSES AND DEFECTIVE BALLASTS OR DRIVERS AS NEEDED.
17. REPLACE BATTERIES FOR EMERGENCY LIGHTING UNITS THAT ARE SCHEDULED TO BE RELOCATED AND REINSTALLED.

ELECTRICAL ABBREVIATIONS

A/AMP	AMPERE
AC	ALTERNATING CURRENT
AFCI	ARC FAULT CIRCUIT INTERRUPTER
ACU	AIR CONDITIONING UNIT
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHU	AIR HANDLING UNIT
AIC	AMPS INTERRUPTING CURRENT
AL	ALUMINUM
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAL WIRE GAUGE
BSMT	BASEMENT
C	CONDUIT
CATV	CABLE TELEVISION
C/B	CIRCUIT BREAKER
CKT	CIRCUIT
COMP	COMPRESSOR
CP	CONDENSATE PUMP
CT	CURRENT TRANSFORMER
CU	CONDENSING UNIT OR COPPER
CUH	CABINET UNIT HEATER
D	DRYER
DEG.	DEGREE
DIA	DIAMETER
DN	DOWN
DWG	DRAWING
ETR	EXISTING TO REMAIN
EF	EXHAUST FAN
ELEC	ELECTRICAL
ELEV	ELEVATOR
EM	EMERGENCY
EMT	ELECTRIC METALLIC TUBING
EP	EMERGENCY PANEL
EUH	ELECTRIC UNIT HEATER
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
F	FAHRENHEIT
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FC	FOOT CANDLE
FCU	FAN COIL UNIT
G	GROUND
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
HP	HORSE POWER
HPS	HIGH PRESSURE SODIUM
HR	HOUR
HZ	HERTZ
IG	ISOLATED GROUND
IN	INCHES
JB	JUNCTION BOX
KCMIL	THOUSAND CIRCULAR MILS
KVA	KILOVOLT AMPERE
KW	KILOWATT
MAX	MAXIMUM
MAU	MAKE-UP AIR UNIT
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MCCB	MOLDED CASE CIRCUIT BREAKER
MH	METAL HALIDE OR MANHOLE
MIN	MINIMUM
MLO	MAIN LUGS ONLY
NA	NOT APPLICABLE
NEC	NATIONAL ELECTRIC CODE
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
P	POLE
PE	PRIMARY ELECTRIC SERVCE
PF	POWER FACTOR
PH	PHASE
PNL	PANEL
PVC	POLYVINYL CHLORIDE CONDUIT
REF	REFRIGERATOR
RGS	RIGID GALVANIZED STEEL CONDUIT
RM	ROOM
RTU	ROOFTOP UNIT
SE	SECONDARY ELECTRICAL SERVICE
SPEC	SPECIFICATION
SWBD	SWITCHBOARD
SPD	SURGE PROTECTION DEVICE
TELE	TELECOMMUNICATIONS/TELEPHONE
TV	TELEVISION
T/TX	TRANSFORMER
TYP	TYPICAL
UH	UNIT HEATER
UON	UNLESS OTHERWISE NOTED
V	VOLTS
VA	VOLT AMPERE
VAC	VOLTS ALTERNATING CURRENT
VIF	VERIFY IN FIELD
W	WATT OR WIRE
WA	WASHER
WG	WIRE GUARD
WP	WEATHERPROOF

ELECTRICAL DEMOLITION ABBREVIATIONS

ETR	EXISTING TO REMAIN
RE	EXISTING TO BE REMOVED
RL	EXISTING TO BE RELOCATED
RR	EXISTING TO BE RELOCATED IN SAME LOCATION ON NEW SURFACE
RN	EXISTING TO BE REMOVED AND REPLACED WITH NEW (EXISTING BACKBOXES CONDUIT AND WIRING TO REMAIN)
NE	NEW DEVICE INSTALLED IN SAME LOCATION AS EXISTING REMOVED DEVICE
NL	NEW LOCATION OF EXISTING RELOCATED DEVICE

FIRE ALARM SYMBOLS

SYMBOL	DESCRIPTION
EQUIPMENT	
FACP	FIRE ALARM CONTROL PANEL
FARA	FIRE ALARM REMOTE ANNUNCIATOR PANEL
EVAC	FIRE ALARM VOICE EVACUATION CENTER
FATP	FIRE ALARM TRANSPONDER PANEL
INITIATING DEVICES	
S	CEILING MOUNTED SMOKE DETECTOR
H	CEILING MOUNTED HEAT DETECTOR WITH TEMPERATURE RATING OF 135 DEGREES UNLESS OTHERWISE NOTED
S/D	DUCT MOUNTED SMOKE DETECTOR AND HOUSING
SD FSD	SMOKE OR FIRE/SMOKE DAMPER WITH ASSOCIATED DUCT SMOKE DETECTOR. PROVIDE ALL ITEMS LISTED AS BY DIVISION 26 AND BY DIVISION 28 IN ELECTRICAL SMOKE DAMPER DETAIL. PROVIDE WITH ONE DUCT SMOKE DETECTOR UNLESS OTHERWISE NOTED.
F	WALL MOUNTED FIRE ALARM MANUAL PULL STATION. MOUNT AT 48" AFF
H	HEAT DETECTOR FOR ELEVATOR RECALL CONTROLS
CO	CEILING MOUNTED CARBON MONOXIDE DETECTOR
NOTIFICATION	
S,XX	WALL MOUNTED COMBINATION SPEAKER / STROBE LIGHT WITH A MULTI-CANDELA STROBE. (WITH VOICE EVACUATION, CONNECTED TO LOCAL VOICE COMMAND CENTER) MOUNT AT 6'-8" AFF. "XX"=CANDELA RATING. REFER TO PARTIAL FIRE ALARM RISER FOR ADDITIONAL INFORMATION.
XX	WALL MOUNTED STROBE-ONLY UNIT WITH A MULTI-CANDELA STROBE. MOUNT AT 6'-8" AFF. "XX"=CANDELA RATING.
F	WALL MOUNTED FIRE ALARM MANUAL PULL STATION. MOUNT AT 48" AFF. PROVIDE WITH MANUAL STATION GUARD, STI "STOPPER II" OR EQUAL WHERE REQUIRED.
INTERFACE MODULES	
MM	FIRE ALARM MONITOR MODULE
CM	FIRE ALARM CONTROL MODULE
RM	FIRE ALARM RELAY MODULE
MISCELLANEOUS	
RTS	REMOTE DUCT SMOKE DETECTOR TEST SWITCH
TS	FIRE PROTECTION TAMPER SWITCH AND FIRE ALARM MONITOR MODULE
FS	FIRE PROTECTION FLOW SWITCH AND FIRE ALARM MONITOR MODULE
PS	FIRE PROTECTION PRESSURE SWITCH AND FIRE ALARM MONITOR MODULE

LIGHTING FIXTURE TAGS

A,a
UPPER CASE LETTER = FIXTURE TYPE, REFER TO LIGHTING FIXTURE SCHEDULE
LOWER CASE LETTER = SWITCH CONTROL

NOTES
1. FIXTURE CONTROL DESIGNATION REFERS TO ZONE/SWITCH/RELAY CONTROL OF FIXTURES CONTROLLED BY COMMON:
   A. SWITCH FOR LIGHTING IN ROOM, CORRIDOR, OPEN AREA.
   B. ZONE RELAY IN LOCAL LIGHTING CONTROL PANEL OR LIGHTING CONTROL RELAY PANEL.
   C. ALL CONTROL DEVICES (SWITCHES, CONTROL PANELS, OCCUPANCY/VACANCY SENSORS..ETC) WITH CONTROL DESIGNATIONS REFERS TO COMMON CONTROL OF THE SAME ZONE/SWITCH/RELAY CONTROL.
2. WHERE CONTROL DESIGNATION IS NOT SHOWN, ALL FIXTURES IN ASSOCIATED ROOM OR SPACE SHALL BE CONTROLLED SIMULTANEOUSLY VIA THE CONTROL DEVICES INDICATED ON PLANS.
3. WHERE EMERGENCY AND NORMAL FIXTURES ARE CONTROLLED FROM THE SAME ZONE/SWITCH/CONTROL RELAY, UL 924 EMERGENCY BYPASS RELAYS SHOWN WITH SAME CONTROL DESIGNATION BYPASS THAT ZONE/SWITCH/CONTROL RELAY. REFER TO EMERGENCY LIGHTING CIRCUIT SCHEMATICS FOR ADDITIONAL WIRING INFORMATION.
4. UNSWITCHED LIGHTING BRANCH CIRCUIT WIRING IS SHOWN TO A SINGLE FIXTURE IN EACH COMMON CONTROL ZONE. UNLESS OTHERWISE INDICATED, PROVIDE 2#12,#12G,3/4"C FOR SWITCHED WIRING TO ALL COMMON CONTROL FIXTURES.
5. PROVIDE LOW VOLTAGE DIMMING CONTROL WIRING AS INDICATED IN LIGHTING CONTROL DETAILS FOR DIMMABLE LIGHT FIXTURES IN COMMON CONTROL ZONES/SWITCHES/RELAY CONTROL.
6. REFER TO LIGHTING CONTROL DETAILS FOR ADDITIONAL WIRING AND CONTROL INFORMATION.
7. REFER TO LIGHTING CONTROL RELAY PANEL SCHEDULES WHERE APPLICABLE FOR ADDITIONAL CONTROL INFORMATION.

LIGHTING SYMBOLS

SYMBOL	DESCRIPTION
	POLE MOUNTED SITE LIGHTING FIXTURE
	EXTERIOR BUILDING MOUNTED LIGHTING FIXTURE
	EXTERIOR BUILDING MOUNTED EMERGENCY LIGHTING FIXTURE
	SURFACE MOUNTED LIGHTING FIXTURE
	SURFACE MOUNTED EMERGENCY LIGHTING FIXTURE
	PENDANT MOUNTED LIGHTING FIXTURE
	PENDANT MOUNTED EMERGENCY LIGHTING FIXTURE
	RECESSED LIGHTING FIXTURE
	RECESSED EMERGENCY LIGHTING FIXTURE
	INDUSTRIAL OR STRIP TYPE FIXTURE
	TRACK LIGHTING, HEADS AS INDICATED ON DRAWINGS
	RECESSED WALL WASH FIXTURE
	RECESSED DOWNLIGHT FIXTURE
	RECESSED DOWNLIGHT EMERGENCY FIXTURE
	SURFACE MOUNTED ROUND FIXTURE
	SURFACE MOUNTED ROUND EMERGENCY FIXTURE
	PENDANT HUNG LIGHTING FIXTURE
	PENDANT HUNG EMERGENCY LIGHTING FIXTURE
	WALL SCONCE
	EMERGENCY WALL SCONCE
	WALL MOUNTED LIGHTING FIXTURE
	WALL MOUNTED EMERGENCY LIGHTING FIXTURE
	WALL MOUNTED EXIT SIGN, DOUBLE FACED
	WALL MOUNTED EXIT SIGN
	CEILING MOUNTED EXIT SIGN
	CEILING MOUNTED EXIT SIGN, DOUBLE FACED
	SELF CONTAINED EMERGENCY LIGHTING FIXTURE WITH BATTERY
	SELF CONTAINED EMERGENCY LIGHTING FIXTURE WITH REMOTE CAPABILITY
	REMOTE EMERGENCY HEAD
	REMOTE DUAL HEAD EMERGENCY LIGHTING FIXTURE
EB	EMERGENCY BATTERY UNIT FOR USE WITH REMOTE LIGHTING HEADS
R	UL924 EMERGENCY LIGHTING RELAY. REFER TO EMERGENCY LIGHTING DETAILS FOR ADDITIONAL INFORMATION.
PC	LIGHT SENSING PHOTOCELL / DAYLIGHT SENSOR
RC	ROOM LIGHTING CONTROLLER. REFER TO LIGHTING CONTROL DETAILS FOR ADDITIONAL INFORMATION.
PP	POWER PACK FOR STANDALONE CONTROLS. REFER TO LIGHTING CONTROL DETAILS FOR ADDITIONAL INFORMATION.
PPN	POWER PACK FOR NORMAL LOW-VOLTAGE CONTROLS. REFER TO LIGHTING CONTROL DETAILS FOR ADDITIONAL INFORMATION.
PPE	POWER PACK FOR EMERGENCY LOW-VOLTAGE CONTROLS. REFER TO LIGHTING CONTROL DETAILS FOR ADDITIONAL INFORMATION.

LIGHTING SWITCH AND SENSOR TAGS

$ XX,a
WALL MOUNTED SWITCH
SWITCH CONTROL GROUP

SWITCH TYPE:

BLANK	-	LINE VOLTAGE SINGLE POLE TOGGLE SWITCH
3	-	LINE VOLTAGE THREE WAY TOGGLE SWITCH
4	-	LINE VOLTAGE FOUR WAY TOGGLE SWITCH
D	-	LINE VOLTAGE WALL DIMMER
K	-	KEYED SWITCH - SINGLE POLE
K3	-	KEYED SWITCH - THREE WAY
OS	-	LINE VOLTAGE OCCUPANCY SENSOR
OSD	-	LINE VOLTAGE OCCUPANCY SENSOR SWITCH AUTO-ON / AUTO-OFF)
VS	-	LINE VOLTAGE VACANCY SENSOR SWITCH (MANUAL-ON / MANUAL-OFF)
VSD	-	LINE VOLTAGE VACANCY DIMMER SWITCH (MANUAL-ON / MANUAL-OFF)
LV	-	LOW VOLTAGE MOMENTARY PUSHBUTTON FOR USE WITH CEILING SENSORS. REFER TO LIGHTING CONTROL DETAILS FOR ADDITIONAL INFORMATION.
LVD	-	LOW VOLTAGE DIMMER FOR USE WITH CEILING SENSORS. REFER TO LIGHTING CONTROL DETAILS FOR ADDITIONAL INFORMATION.
LK#	-	LIGHTING CONTROL KEYPAD FOR USE WITH ROOM CONTROLLER SYSTEM. "#" REPRESENTS TYPE OF KEYPAD. REFER TO LIGHTING CONTROL DETAILS FOR ADDITIONAL INFORMATION.

OS (OS) XX,a
WALL/CORNER MOUNTED OCCUPANCY SENSOR (OS), VACANCY SENSOR (VS)
CEILING MOUNTED OCCUPANCY SENSOR (OS), VACANCY SENSOR (VS)
SWITCH CONTROL GROUP

SENSOR TYPE:

BLANK	-	DUAL SENSOR
H	-	HIGH BAY SENSOR
IR	-	PIR SENSOR
U	-	ULTRASONIC SENSOR

NOTES:

1. FIXTURE(S) SHALL BE CONTROLLED BY SWITCH OR RELAY LOCATED IN THE ROOM UNLESS OTHERWISE NOTED ON PLAN.
2. REFER TO LIGHTING CONTROL DETAILS FOR ADDITIONAL INFORMATION ON WIRING AND SWITCHING.
3. WALL MOUNTED SWITCHES SHALL BE MOUNTED AT 42" AFF UNLESS OTHERWISE NOTED. COORDINATE WITH ARCHITECT.
4. SET ALL OCCUPANCY TYPE SENSORS TO AUTO-ON, AUTO-OFF MODE. SET ALL VACANCY TYPE SENSORS TO MANUAL-ON, AUTO-OFF MODE.
5. REFER TO CONTROL SCHEME NOTES AND CONTROL SCHEDULE FOR ADDITIONAL INFORMATION.
6. REFER TO SYMBOL LIST FOR ADDITIONAL LIGHTING CONTROL DEVICES.
7. WHERE SWITCHES ARE NOT TAGGED WITH CONTROL LETTER ON PLANS, ALL FIXTURES IN ASSOCIATED ROOM SHALL BE CONTROLLED SIMULTANEOUSLY VIA CONTROLS SPECIFIED.

ELECTRICAL SYMBOLS

SYMBOL	DESCRIPTION
	SURFACE MOUNTED PANELBOARD
	RECESSED PANELBOARD
	DISCONNECT SWITCH
	FUSED DISCONNECT SWITCH
	COMBINATION STARTER AND DISCONNECT SWITCH
	MOTOR STARTER OR CONTACTOR
S_M	MANUAL MOTOR STARTER
	MOTOR (REFER TO MOTOR CIRCUIT SCHEDULE FOR POWER REQUIREMENTS)
T	TRANSFORMER
M	ELECTRICAL METER
SPD	SURGE PROTECTIVE DEVICE
VFD	VARIABLE FREQUENCY DRIVE
	BRANCH CIRCUIT WIRING, CONCEALED IN WALLS OR CEILINGS
	HOMERUN TO PANELBOARD
	SWITCHED BRANCH CIRCUIT WIRING
PT #	POKE-THRU DEVICE. SUPERSCRIPT '#' INDICATES TYPE. REFER TO FLOOR BOX DEVICE SCHEDULE FOR TYPE.
FB #	FLOOR BOX. SUPERSCRIPT '#' INDICATES TYPE. REFER TO FLOOR BOX DEVICE SCHEDULE FOR TYPE.
J J	JUNCTION BOX
	SURFACE MOUNTED RACEWAY RISER TO NEAREST ACCESSIBLE CEILING
WM	WIREMOLD, LOCATE DEVICES AS INDICATED ON DRAWINGS
	SIMPLEX WALL MOUNTED RECEPTACLE, 18" AFF UNLESS OTHERWISE NOTED
	DUPLEX WALL MOUNTED RECEPTACLE, 18" AFF UNLESS OTHERWISE NOTED
	DUPLEX WALL MOUNTED RECEPTACLE, HALF SWITCHED
	DUPLEX WALL MOUNTED RECEPTACLE, ON CRITICAL BRANCH OF GENERATOR POWER
W	DUPLEX GFCI-TYPE WALL MOUNTED RECEPTACLE FOR WASHING MACHINE. MOUNT 48" AFF UNLESS OTHERWISE NOTED.
M	DUPLEX WALL MOUNTED RECEPTACLE FOR MICROWAVE. COORDINATE WITH MICROWAVE LOCATION. VERIFY EXACT LOCATION AND MOUNTING HEIGHT WITH ARCH PRIOR TO ROUGH-IN.
DW	DUPLEX WALL MOUNTED RECEPTACLE FOR DISHWASHER. MOUNT 18" AFF UNLESS OTHERWISE NOTED. CONNECT TO GFCI BREAKER IN PANELBOARD.
REF	DUPLEX WALL MOUNTED RECEPTACLE FOR REFRIGERATOR. MOUNT 48" AFF UNLESS OTHERWISE NOTED. CONNECT TO GFCI BREAKER IN PANELBOARD.
EWC	DUPLEX WALL MOUNTED RECEPTACLE FOR ELECTRIC WATER COOLER. MOUNT 18" AFF UNLESS OTHERWISE NOTED. CONNECT TO GFCI BREAKER IN PANELBOARD.
TR	DUPLEX WALL MOUNTED TAMPER RESISTANT RECEPTACLE. MOUNT 18" AFF UNLESS OTHERWISE NOTED.
XX"	DUPLEX WALL MOUNTED RECEPTACLE MOUNTED AT XX" ABOVE FINISHED FLOOR
	DOUBLE DUPLEX WALL MOUNTED RECEPTACLE, 18" AFF UNLESS OTHERWISE NOTED
a a	RECEPTACLE, MOUNT 6" ABOVE COUNTER OR CASEWORK
bc bc	RECEPTACLE MOUNTED BELOW FRONT OF COUNTER
GFI GFI	RECEPTACLE WITH GROUND FAULT CIRCUIT INTERRUPTION
WP WP	RECEPTACLE WITH WEATHERPROOF COVER
c c	RECEPTACLE, CEILING MOUNTED
U U	(1) OR (2) DUPLEX WALL MOUNTED RECEPTACLES, EACH WITH ONE USB-A AND ONE USB-C, 5-AMP CHARGING PORT.
AVD AVD	(1) OR (2) DUPLEX RECEPTACLES MOUNTED WITHIN AUDIOVISUAL WALL-MOUNTED DISPLAY BOX. RECEPTACLE(S) SHALL HAVE ONE USB-A AND ONE USB-C, 5-AMP CHARGING PORT. REFER TO TECHNOLOGY WORK AREA OUTLET SCHEDULE FOR DISPLAY BOX SPECIFICATIONS.
AVH	DOUBLE-DUPLEX RECEPTACLE MOUNTED ADJACENT TO HIGH AUDIOVISUAL BACKBOX. RECEPTACLES SHALL HAVE ONE USB-A AND ONE USB-C, 5-AMP CHARGING PORT.
MON	DUPLEX RECEPTACLE FOR DIGITAL SIGNAGE MONITOR. MOUNT WITHIN SAME BOX AS DATA DEVICE SHOWN ON PLANS. RECEPTACLE SHALL HAVE ONE USB-A AND ONE USB-C, 5-AMP CHARGING PORT.
	SPECIAL PURPOSE HARDWIRED CONNECTION: WIRING AS INDICATED
RH	HARDWIRED 20A/1P CONNECTION TO RANGE HOOD. MAKE FINAL CONNECTIONS AS REQUIRED BY MANUFACTURER.
HD	HARDWIRED 20A/2P CONNECTION TO HAND DRYER. MAKE FINAL CONNECTIONS AS REQUIRED BY MANUFACTURER.
	SPECIAL PURPOSE RECEPTACLE, NEMA CONFIGURATION AND WIRING AS INDICATED
R	NEMA 14-50R RECEPTACLE FOR ELECTRIC RANGE. PROVIDE 3#8, #10G, 3/4"C. TO INDICATED BREAKER IN PANEL. (2 HOT, 1 NEUTRAL, 1 GROUND)
D	NEMA 14-30R RECEPTACLE FOR ELECTRIC DRYER. PROVIDE 3#10, #10G, 3/4"C. TO INDICATED BREAKER IN PANEL. (2 HOT, 1 NEUTRAL, 1 GROUND) CONNECT TO GFCI BREAKER IN PANELBOARD.
E	EMERGENCY CALL TOGGLE SWITCH
	EMERGENCY CALL FOR AID COMBINATION BUZZER / LIGHT: REFER TO CALL-FOR-AID WIRING SCHEMATIC FOR MORE INFORMATION.

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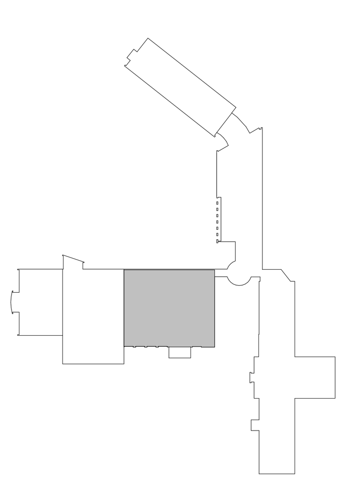

KEY PLAN

STATE PROJECT NO: 056-0052 A

BID SET
01/7/2022

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ACTUAL NORTH

ELECTRICAL ABBREVIATIONS, NOTES AND SYMBOLS

Scale: AS NOTED
Job No.: 2021218.00
Drawn By: CES
Date: 1/7/2022

E000

LIGHTING FIXTURE SCHEDULE

TYPE	BASIS OF DESIGN MANUFACTURER / MODEL	VOLTAGE	SOURCE	FIXTURE DESCRIPTION - BASIS OF DESIGN
A2	MARK ARCHITECTURAL LIGHTING WHSPR-2x2-80CRI-35K-4000LM-MIN1-MVOLT-SWC-ZT	UNV	4000LM, 37.4W 3500K LED	RECESSED 2X2 TROFFER. FIXTURE SHALL HAVE STEEL HOUSING, SOFT WHITE ACRYLIC LENSES, 0-10V DIMMING TO 1%, 80+ CRI, 60,00+ HR LED LIFE AND DLC LISTING.
D4	GOTHAM EV04-35/25-XX-WD-LSS-MVOLT-GZ1	UNV	2500LM, 25W 3500K LED	ROUND 4" DOWNLIGHT WITH 7" FIXTURE DEPTH, STEEL HOUSING, WIDE DISTRIBUTION, 0-10V DIMMING TO 1%, 85+ CRI, 60,000+ HR LED LIFE AND ENERGY STAR LISTING.
E	LITHONIA LIGHTING EU2C-SD	UNV	2W LED	DUAL HEAD EMERGENCY LIGHT, SELF-DIAGNOSTICS
F2	LITHONIA LIGHTING EPANL-2X2-4000LM-80CRI-35K-MIN1-ZT-MVOLT	UNV	4000LM, 37W 3500K LED	2X2 LED EDGE-LIT FLAT PANEL FIXTURE WITH SEAMLESS ALUMINUM FRAME, DAMP LOCATION RATING, 0-10V DIMMING TO 1%, 80+ CRI, 54,000+ HR LED LIFE AND DLC LISTING.
LR-XX	FOCAL POINT FSM2AL-FFL-625LF-35K-1C-UNV-L11-G2-WH-X	UNV	625LM/FT, 6.5W/FT 3500K LED	3.5"W RECESSED LINEAR FIXTURE, "XX"=RUN LENGTH. WITH EXTRUDED ALUMINUM HOUSING, STEEL END CAPS, FLUSH FROSTED ACRYLIC LENS, 4.5" FIXTURE DEPTH, 0-10V DIMMING TO 1%, 80+ CRI, 61,000+ HR LED LIFE. (18-30" RECOMMENDED DISTANCE FROM WALL)
SW	LITHONIA LIGHTING WST LED P2 40K VF MVOLT	UNV	4000LM, 25W 4000K LED	EXTERIOR LED WALL PACK
U4	LITHONIA LIGHTING LBL4-4800LM-80CRI-35K-MIN1-GZT-MVOLT	UNV	4800LM, 40.5W 3500K LED	SURFACE MOUNTED UTILITY WRAPAROUND FIXTURE, 4 FEET IN LENGTH. WITH STEEL HOUSING, CURVED ACRYLIC LENS, 0-10V DIMMING TO 1%, 80+ CRI, 50,000+ HR LED LIFE, DLC LISTING. PROVIDE CHAIN-MOUNTING ACCESSORY WHERE INDICATED ON FLOOR PLANS.
X X1 X2	ISOLITE LPX-EM-R-U-WH-MTEBP-SD	UNV	LED	ALUMINUM LED EXIT SIGN WITH RED LETTERING, UNIVERSAL MOUNTING, INTERNAL BATTERY BACKUP, AND SELF-DIAGNOSTICS. "X" = WALL MOUNT, "X1" = CEILING MOUNT SINGLE FACED, "X2" = CEILING MOUNT DOUBLE FACED. ALL SIGNS SHALL HAVE FIELD ADJUSTABLE CHEVRONS, AS NOTED ON PLANS.
XH X1H X2H	ISOLITE LPX-CT-EM-R-U-WH-MTEBP-SD	UNV	LED	SAME AS TYPE "X" EXCEPT WITH STATE OF CONNECTICUT APPROVED ACTIVE SYMBOL OF ACCESS IN ADDITION TO EXIT LETTERING (TWO SEPARATE SIGNS ARE NOT ACCEPTABLE)

NOTES:

1. LIGHT FIXTURES IN THE SCHEDULE SHALL BE CONSIDERED BASIS OF DESIGN. EQUAL FIXTURE SUBSTITUTIONS ARE ACCEPTABLE FOR ALL FIXTURES IN THE LIGHTING FIXTURE SCHEDULE, UNLESS INDICATED OTHERWISE. EQUAL FIXTURE APPROVAL SHALL BE AS JUDGED BY THE ENGINEER AND THE ARCHITECT. IN ADDITION TO THE REQUIREMENTS LISTED IN THE LIGHTING FIXTURE SCHEDULE AND IN THE SPECIFICATIONS, THE PROPOSED EQUAL FIXTURES SHALL:
   - A. BE THE SAME GENERAL SIZE, STYLE AND SHAPE, INCLUDING BUT NOT LIMITED TO LENS CONSTRUCTION AND SHADING.
   - B. BE OF EQUAL QUALITY CONSTRUCTION AND FINISH.
   - C. BE SUPPLIED WITH ALL REQUIRED ACCESSORIES TO MATCH THE SPECIFIED (BASIS OF DESIGN) FIXTURE.
   - D. PROVIDE THE SAME DISTRIBUTION, EFFICACY AND SOURCE LUMEN OUTPUT.
   - E. HAVE THE SAME LISTINGS AS THE BASIS OF DESIGN FIXTURE, INCLUDING DLC AND ENERGY STAR QUALIFICATIONS.
2. ALL FIXTURES SHALL BE UL LISTED.
3. ALL NECESSARY MOUNTING HARDWARE, HANGERS, BRACKETS, RAILS, YOKES, CANOPIES, STEMS, CHAINS, ROW JOINERS, ETC. SHALL BE FURNISHED AND INSTALLED.
4. REFER TO ARCHITECTURAL DRAWINGS FOR SPECIFIC DETAILS, ARRANGEMENT, MOUNTING HEIGHTS, SUSPENSION LENGTHS, CEILING CONSTRUCTION, ETC. ALL COLORS AND FINISHES SHALL BE SELECTED BY ARCHITECT.
5. FIXTURES SHALL BE SEISMICALLY SUPPORTED AS REQUIRED BY THE APPLICABLE BUILDING CODE. FIXTURES SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE AND SHALL BE INDEPENDENT OF DUCTS, PIPES, CEILINGS AND THEIR SUPPORTING MEMBERS. FIXTURES SHALL BE SUPPORTED WITH A MINIMUM OF 2 SUPPORTS.
6. WIRE EMERGENCY FIXTURES AND EXIT SIGNS AHEAD OF SWITCHED LEGS.
7. MINIMUM MOUNTING HEIGHT OF FIXTURES IN MECHANICAL AND ELECTRICAL SPACES IS 8'-6" AFF. COORDINATE MOUNTING HEIGHT IN FIELD WITH EQUIPMENT IN ROOM SUCH THAT LIGHTING IS NOT OBSTRUCTED BY DUCTWORK, PIPING AND CONDUIT. PROVIDE NECESSARY CHAIN-MOUNTING HARDWARE TO SUSPEND FIXTURES WHERE REQUIRED.
8. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
9. WHERE EXIT SIGNS ARE SHOWN AS WALL MOUNTED ABOVE A DOOR, MOUNT SUCH THAT THE BOTTOM OF THE SIGN IS NO MORE THAN 3" ABOVE THE DOOR FRAME, UNLESS INDICATED OTHERWISE ON PLANS.
10. UNLESS OTHERWISE NOTED, PENDANT FIXTURE MOUNTING HEIGHTS IN FINISHED SPACES SHALL BE AS FOLLOWS:
    - A. CEILING HEIGHT 9'-0" OR LOWER: 7'-6" TO BOTTOM OF FIXTURE
    - B. CEILING HEIGHT 9'-6" TO 11'-0": 8'-0" TO BOTTOM OF FIXTURE
    - C. CEILING HEIGHT 11'-0" TO 12'-0": 9'-6" TO BOTTOM OF FIXTURE
    - D. MINIMUM PENDANT LENGTH SHALL BE 1'-6"
    - E. CONSULT WITH ARCHITECT AND ENGINEER FOR OTHER CEILING HEIGHTS.

TECHNOLOGY DEVICE SCHEDULE

SYMBOL	DESCRIPTION	CONDUIT/ BACKBOX	CABLING	NOTES
(X)	DATA OUTLET	2-GANG BOX @ 18" AFF WITH 1-GANG MUD RING AND 1-1/4"C. STUBBED ABOVE ACCESSIBLE CEILING	(X) CAT.6 CABLES TO DATA PATCH PANEL (IF NOT TAGGED, PROVIDE 2 CABLES)	SUBSCRIPT "a" = 6" ABOVE COUNTER
(X,Y)	COMBINATION OUTLET	2-GANG BOX @ 18" AFF WITH 1-GANG MUD RING AND 1-1/4"C. STUBBED ABOVE ACCESSIBLE CEILING	(X) CAT.6 CABLES TO DATA PATCH PANEL (Y) CAT.6 CABLES TO VOIP PATCH PANEL (IF NOT TAGGED, PROVIDE 1 OF EACH)	
	WALL PHONE	2-GANG BOX @ 48" AFF WITH 1-GANG MUD RING AND 3/4"C. STUBBED ABOVE ACCESSIBLE CEILING	(1) CAT.6 CABLE TO VOIP PATCH PANEL	PROVIDE WITH STAINLESS STEEL RECESSED WALL PLATE FOR PHONE
AP	OUTLET FOR WIRELESS ACCESS POINT (WALL)	2-GANG BOX @ 96" AFF WITH 1-GANG MUD RING AND 1-1/4"C. STUBBED ABOVE ACCESSIBLE CEILING	(2) CAT.6 CABLES TO WIRELESS ACCESS PATCH PANEL	
AP	OUTLET FOR WIRELESS ACCESS POINT (CEILING)	2-GANG BACKBOX FLUSHED INTO CEILING. WHEN MOUNTED IN ACT CEILING PROVIDE TILE BRIDGE FOR SUPPORT. IN AREAS WITHOUT CEILING, BOX SHALL BE SURFACE MOUNTED TO STRUCTURE.	(2) CAT.6 CABLES TO WIRELESS ACCESS PATCH PANEL	TERMINATE AT TWO-PORT SURFACE BOX WITHIN BACKBOX, EQUAL TO SIEMON MX-SM2
MON	RECESSED BOX FOR MONITOR DISPLAY	2-GANG RECESSED BOX EQUAL TO LEGRAND TV1WTVSS @ 60" AFF WITH 1-1/4"C. STUBBED ABOVE ACCESSIBLE CEILING	(2) CAT.6 CABLES TO DATA PATCH PANEL	"MON" RECEPTACLE SHOWN ON PLANS SHALL BE MOUNTED IN SAME BACKBOX
J AVL	LOW AUDIOVISUAL CONNECTIONS	2-GANG HIGH CAPACITY BOX EQUAL TO HUBBELL HBL260 @ 18" AFF WITH 2"C. STUBBED ABOVE ACCESSIBLE CEILING	A/V CABLING FURNISHED BY OWNER.	
J AVD	IN-WALL STORAGE BOX FOR FLATSCREEN DISPLAY	IN-WALL STORAGE BOX EQUAL TO LEGRAND EFSB4 WITH (2) 1-1/4"C. STUBBED ABOVE ACCESSIBLE CEILING	A/V CABLING FURNISHED BY OWNER.	COORDINATE EXACT LOCATION OF BACKBOX WITH OWNER PRIOR TO ROUGH-IN, SUCH THAT BOX IS CONCEALED BEHIND DISPLAY
J AVH	HIGH AUDIOVISUAL CONNECTIONS	2-GANG HIGH CAPACITY BOX EQUAL TO HUBBELL HBL260 WITH 2"C. STUBBED ABOVE ACCESSIBLE CEILING	A/V CABLING FURNISHED BY OWNER.	COORDINATE EXACT LOCATION OF BACKBOX WITH OWNER PRIOR TO ROUGH-IN, SUCH THAT BOX IS CONCEALED BEHIND DISPLAY
J AVC	CEILING STORAGE BOX FOR PROJECTOR	REFER TO AV DETAILS FOR SPECIFICATIONS	REFER TO AV DETAILS FOR CABLING AND CONNECTORS.	
AVD	DATA FOR AV WALL BOX	MOUNT IN AVD WALL BOX	(2) CAT.6 CABLES TO DATA PATCH PANEL	TERMINATE AT DEDICATED FACEPLATE WITH RJ45 CONNECTORS IN WALL BOX
AVH	DATA FOR HIGH AV DISPLAY	2-GANG BOX WITH 1-GANG MUD RING AND 1-1/4"C. STUBBED ABOVE ACCESSIBLE CEILING	(2) CAT.6 CABLES TO DATA PATCH PANEL	COORDINATE EXACT LOCATION OF BACKBOX WITH OWNER PRIOR TO ROUGH-IN, SUCH THAT BOX IS CONCEALED BEHIND DISPLAY
AVC	DATA FOR CEILING AV DISPLAY	MOUNT IN AVC CEILING BOX	(2) CAT.6 CABLES TO DATA PATCH PANEL	TERMINATE DATA CABLE IN SHELF-MOUNTED SURFACE BOX WITHIN CEILING BOX (SIEMON MX-SM1 OR EQUAL)
PA	PUBLIC ADDRESS SYSTEM SPEAKER; CEILING MOUNTED	SPECIALTY BACKBOX PURCHASED WITH SPEAKER. WHEN MOUNTED IN ACT CEILING PROVIDE TILE BRIDGE FOR SUPPORT. IN AREAS WITHOUT CEILING, BOX SHALL BE SURFACE MOUNTED TO STRUCTURE.	REFER TO PARTIAL PUBLIC ADDRESS RISER DIAGRAM FOR CABLING.	REFER TO PARTIAL PUBLIC ADDRESS RISER DIAGRAM FOR ADDITIONAL INFORMATION.
PA	PUBLIC ADDRESS SYSTEM SPEAKER; WALL MOUNTED	SPECIALTY BACKBOX PURCHASED WITH SPEAKER; PROVIDE WITH 3/4"C. STUBBED ABOVE ACCESSIBLE CEILING. - MOUNT AT 96" AFF UNLESS OTHERWISE NOTED.	REFER TO PARTIAL PUBLIC ADDRESS RISER DIAGRAM FOR CABLING.	REFER TO PARTIAL PUBLIC ADDRESS RISER DIAGRAM FOR ADDITIONAL INFORMATION.
	ANALOG WIRELESS CLOCK	SIMPLEX CLOCK-HANGER STYLE RECEPTACLE POWERED VIA 2#12+1#12G, 3/4"C. TO LOCAL RECEPTACLE CIRCUIT - MOUNT AT 96" AFF UNLESS OTHERWISE NOTED.	N/A - WIRELESS CLOCK	REFER TO CLOCK SYSTEM DETAIL FOR ADDITIONAL INFORMATION.
NL	VIDEO SURVEILLANCE CAMERA (RELOCATED)	4X4 ELECTRICAL BOX MOUNTED TO STRUCTURE ABOVE SUSPENDED CEILING WITH GROMMET.	(1) CAT.6 CABLE TO SECURITY PATCH PANEL TERMINATE AT 1-PORT BUSCUIT CONNECTOR IN BACKBOX AND PROVIDE PATCH CABLE.	CAMERA SHALL BE RELOCATED FROM LOCATION SHOWN ON DEMOLITION PLANS. CONTRACTOR IS RESPONSIBLE FOR ALL CONNECTIONS, PROGRAMMING AND CONFIGURATIONS.
MS	INTRUSION DETECTION MOTION SENSOR	NONE - MOUNT DIRECTLY TO CEILING	#16\2 TWISTED PAIR TO SECURITY SYSTEM CONTROL PANEL	CONTRACTOR IS RESPONSIBLE FOR ALL CONNECTIONS, PROGRAMMING AND CONFIGURATIONS.
AV XX	AUDIOVISUAL SYSTEM SPEAKER; CEILING MOUNTED	SPECIALTY BACKBOX PURCHASED WITH SPEAKER. WHEN MOUNTED IN ACT CEILING PROVIDE TILE BRIDGE FOR SUPPORT. IN AREAS WITHOUT CEILING, BOX SHALL BE SURFACE MOUNTED TO STRUCTURE.	REFER TO ASSOCIATED AUDIO-VISUAL SYSTEM DETAIL FOR CABLING.	REFER TO ASSOCIATED AUDIO-VISUAL SYSTEM DETAIL FOR PRODUCT SPECIFICATIONS AND REQUIREMENTS.
A XX	DEVICE OR OUTLET FOR A/V SYSTEM	REFER TO ASSOCIATED AUDIO-VISUAL SYSTEM DETAIL FOR CONDUIT AND BACKBOX REQUIREMENTS.	REFER TO ASSOCIATED AUDIO-VISUAL SYSTEM DETAIL FOR CABLING.	REFER TO ASSOCIATED AUDIO-VISUAL SYSTEM DETAIL FOR PRODUCT SPECIFICATIONS AND REQUIREMENTS.
FB	FLOOR BOX WITH POWER, DATA	LEGRAND #RFB4E-OG OR EQUAL WITH (1) 3/4"C FOR POWER AND (1) 1-1/4"C FOR DATA TRENCHED TO NEAREST ACCESSIBLE WALL AND ABOVE CEILING.	(1) CAT.6 CABLE TO DATA PATCH PANEL (1) CAT.6 CABLE TO VOIP PATCH PANEL	PROVIDE WITH (2) INTEGRAL DUPLEX RECEPTACLES. PROVIDE WITH SURFACE STYLE ROUND COVER ASSEMBLY.

GENERAL NOTES:

1. ALL CONDUITS SHALL STUB UP TO NEAREST ACCESSIBLE CEILING, UNLESS NOTED OTHERWISE ON PLANS. PROVIDE BUSHINGS FOR ALL CONDUITS. WHERE DEVICES ARE LOCATED BELOW A WINDOW OR STOREFRONT STRUCTURE, CONDUITS SHALL RUN HORIZONTAL TO ACCESSIBLE WALL BEFORE STUBBING UP.
2. COORDINATE EXACT MOUNTING HEIGHT AND LOCATION OF DEVICES WITH ARCHITECTURAL ELEVATIONS PRIOR TO ROUGH-IN.
3. ALL FINISHES, COLORS AND COVER MATERIALS SHALL BE SELECTED BY ARCHITECT.
4. WHERE BACKBOXES ARE LOCATED IN A FIRE RATED WALL, PROVIDE FIRE RATED MOLDABLE PUTTY AROUND BOX, EQUAL TO 3M BARRIER MPP+
5. DATA CABLING SHALL BE ROUTED TO PATCH PANELS IN I.T. ROOMS INDICATED ON FLOOR PLANS. TERMINATE CABLING AT SPECIFIC PATCH PANELS INDICATED IN I.T. RACK ELEVATIONS.
6. CONTRACTOR SHALL LABEL EACH DEVICE TERMINATION POINT AND CORRESPONDING PATCH PANEL PORT WITH THE SAME, UNIQUE LABEL. REFER TO SPECIFICATIONS FOR MORE INFORMATION. ALL LABELS SHALL BE FINALIZED WITH AND APPROVED BY OWNER'S I.T. STAFF PRIOR TO INSTALLATION.
7. PROVIDE ALL NECESSARY CONNECTORS, ADAPTERS, KEYSTONES, ATTACHMENTS AND OTHER ACCESSORIES REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM.
8. TERMINATE ALL STRUCTURED CABLING CABLES IN RJ45 CONNECTORS UNLESS OTHERWISE NOTED.
9. ALL CONDUITS FOR FLOOR BOXES SHALL BE TRENCHED TO THE NEAREST WALL AND SHALL STUB ABOVE ACCESSIBLE CEILING, OR IN A LOCATION INDICATED ON PLANS.
10. PROVIDE INTERNAL BARRIER KITS TO SEPARATE POWER, DATA AND AV COMPARTMENTS IN ALL FLOOR BOXES DEVICES.

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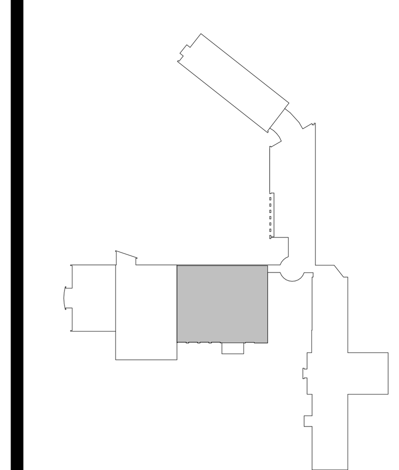

KEY PLAN

STATE PROJECT NO: 056-0052 A

BID SET

01/7/2022

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ACTUAL NORTH

ELECTRICAL ABBREVIATIONS, NOTES AND SYMBOLS

Scale: AS NOTED
Job No.: 2021218.00
Drawn By: CES
Date: 1/7/2022

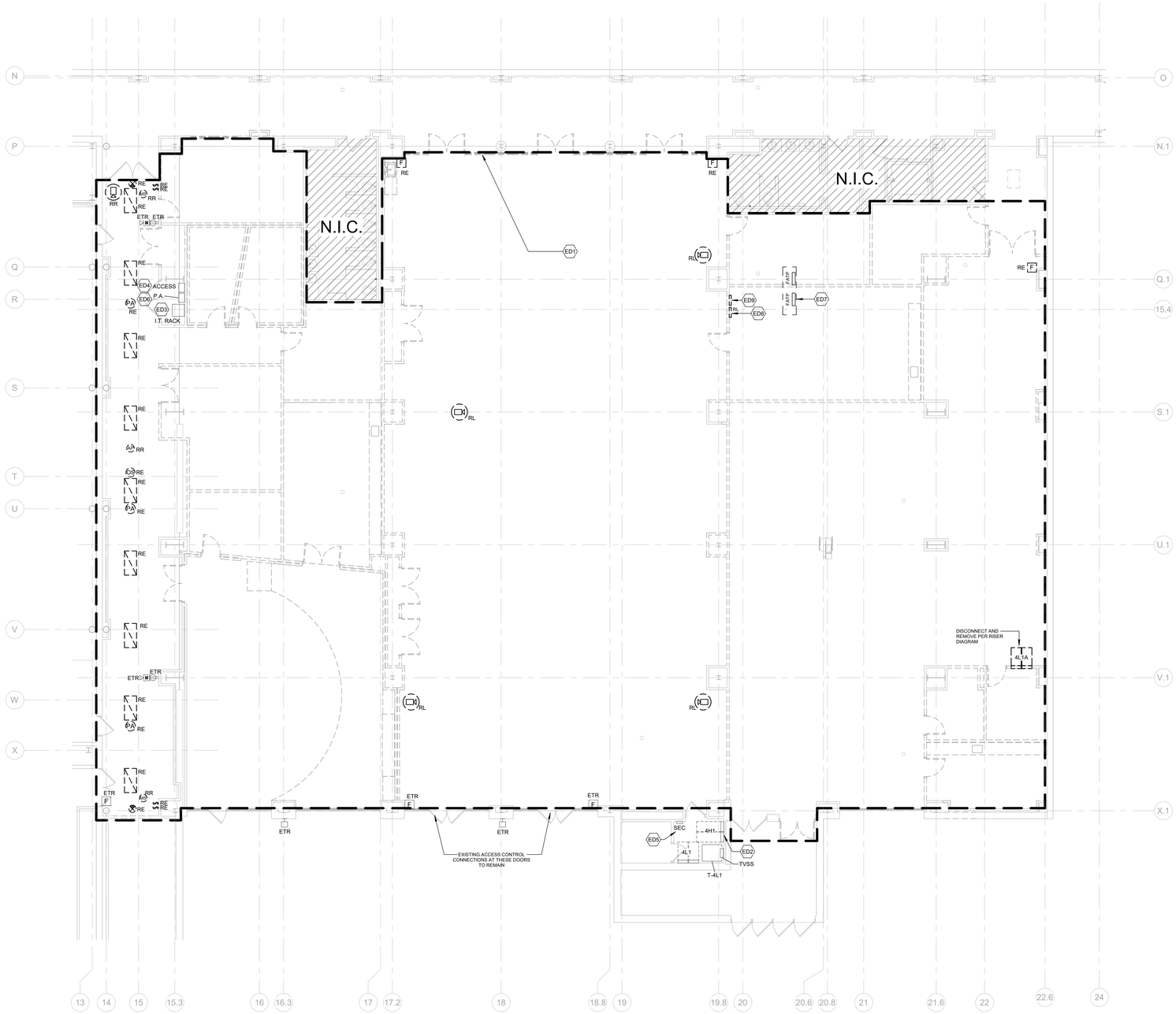
E001

ELECTRICAL REFERENCE NOTE

1. REFER TO DRAWINGS E000 AND E001 FOR ELECTRICAL GENERAL NOTES, ABBREVIATIONS, LEGENDS AND SYMBOLS LIST.
2. REFER TO DRAWING E202 FOR KITCHEN EQUIPMENT SCHEDULE.

ELECTRICAL DEMOLITION KEY NOTES

- ED1 REGION OF COMPLETE ELECTRICAL DEMOLITION. REFER TO DEMOLITION NOTES ON DRAWING E000 FOR SCOPE OF WORK.
- ED2 EXISTING ELECTRICAL EQUIPMENT IN THIS ROOM TO REMAIN. EQUIPMENT SHALL BE REUSED FOR CONNECTIONS TO NEW BRANCH CIRCUITS. REFER TO ELECTRICAL RISER DIAGRAM FOR SCOPE OF WORK.
- ED3 EXISTING I.T. RACK, CATV WALL FIELD, TELEPHONE PUNCHDOWN BLOCKS AND ASSOCIATED EQUIPMENT TO REMAIN. STRUCTURED CABLING IN REGION OF DEMOLITION SHALL BE REMOVED BACK TO THIS POINT AND DISCONNECTED.
- ED4 EXISTING ACCESS CONTROLLERS AND POWER SUPPLIES TO REMAIN. ACCESS CONTROL CABLING IN REGION OF DEMOLITION SHALL BE REMOVED BACK TO THIS POINT AND DISCONNECTED.
- ED5 EXISTING SECURITY CONTROL PANEL TO REMAIN. SECURITY SYSTEM CABLING IN REGION OF DEMOLITION SHALL BE REMOVED BACK TO THIS POINT AND DISCONNECTED.
- ED6 EXISTING PUNCHDOWN BLOCKS SUPPORTING PUBLIC ADDRESS SYSTEM SPEAKERS TO REMAIN. PUBLIC ADDRESS SYSTEM CABLING IN REGION OF DEMOLITION SHALL BE REMOVED BACK TO THIS POINT AND DISCONNECTED. REFER TO PARTIAL PUBLIC ADDRESS SYSTEM RISER DIAGRAM FOR ADDITIONAL INFORMATION.
- ED7 EXISTING FIRE ALARM TRANSPONDERS LOCATED ON FLOOR ABOVE TO REMAIN. EXISTING FIRE ALARM SYSTEM WIRING IN REGION OF DEMOLITION SHALL BE REMOVED BACK TO THIS POINT AND DISCONNECTED. REFER TO PARTIAL FIRE ALARM SYSTEM RISER DIAGRAM FOR ADDITIONAL INFORMATION.
- ED8 EXISTING FIRE ALARM VOICE EVACUATION PANEL SHALL BE RELOCATED AND RECONNECTED AS SHOWN ON PARTIAL FIRE ALARM RISER DIAGRAM.
- ED9 EXISTING CAFETERIA SOUND SYSTEM HEAD-END EQUIPMENT AND ALL ASSOCIATED SPEAKERS AND OTHER SOUND SYSTEM DEVICES SHALL BE DISCONNECTED, REMOVED AND RETURNED TO OWNER.



1 01 ELECTRICAL FIRST FLOOR DEMOLITION PLAN
1/8" = 1'-0"

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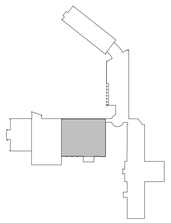

KEY PLAN

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ACTUAL NORTH

STATE OF CONNECTICUT DOUGLAS S. LAIDLEY 20909 LICENSED PROFESSIONAL ENGINEER

ELECTRICAL FIRST FLOOR DEMOLITION PLAN

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Job No.: 2021218.00
Drawn By: CES
Date: 1/7/2022

ED101

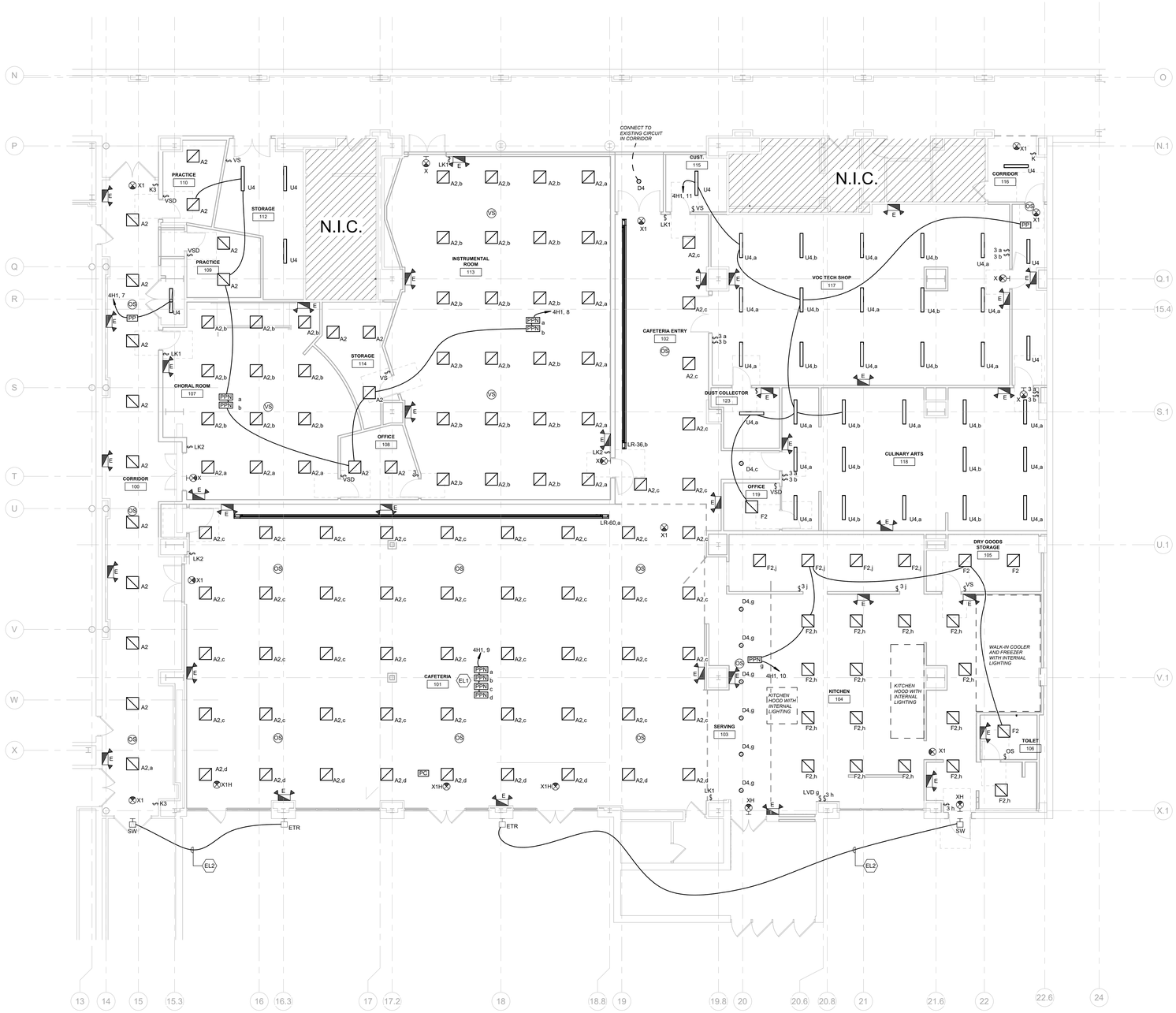
ELECTRICAL REFERENCE NOTE

1. REFER TO DRAWINGS E000 AND E001 FOR ELECTRICAL GENERAL NOTES, ABBREVIATIONS, LEGENDS AND SYMBOLS LIST.
2. REFER TO DRAWING E202 FOR KITCHEN EQUIPMENT SCHEDULE.

ELECTRICAL LIGHTING KEY NOTES

EL1 REFER TO DRAWING E501 FOR CAFETERIA LIGHTING CONTROL DETAIL.

EL2 POWER VIA EXISTING WALL PACK CIRCUIT IN AREA USING 2#12+1#12G, 3/4"C.



1 01 ELECTRICAL LIGHTING FIRST FLOOR PLAN
1/8" = 1'-0"

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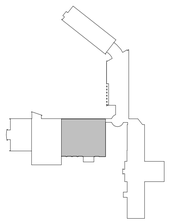

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STATE OF CONNECTICUT DOUGLAS S. LAIDLE 20909 LICENSED PROFESSIONAL ENGINEER

ELECTRICAL LIGHTING FIRST FLOOR PLAN

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Date: 1/7/2022

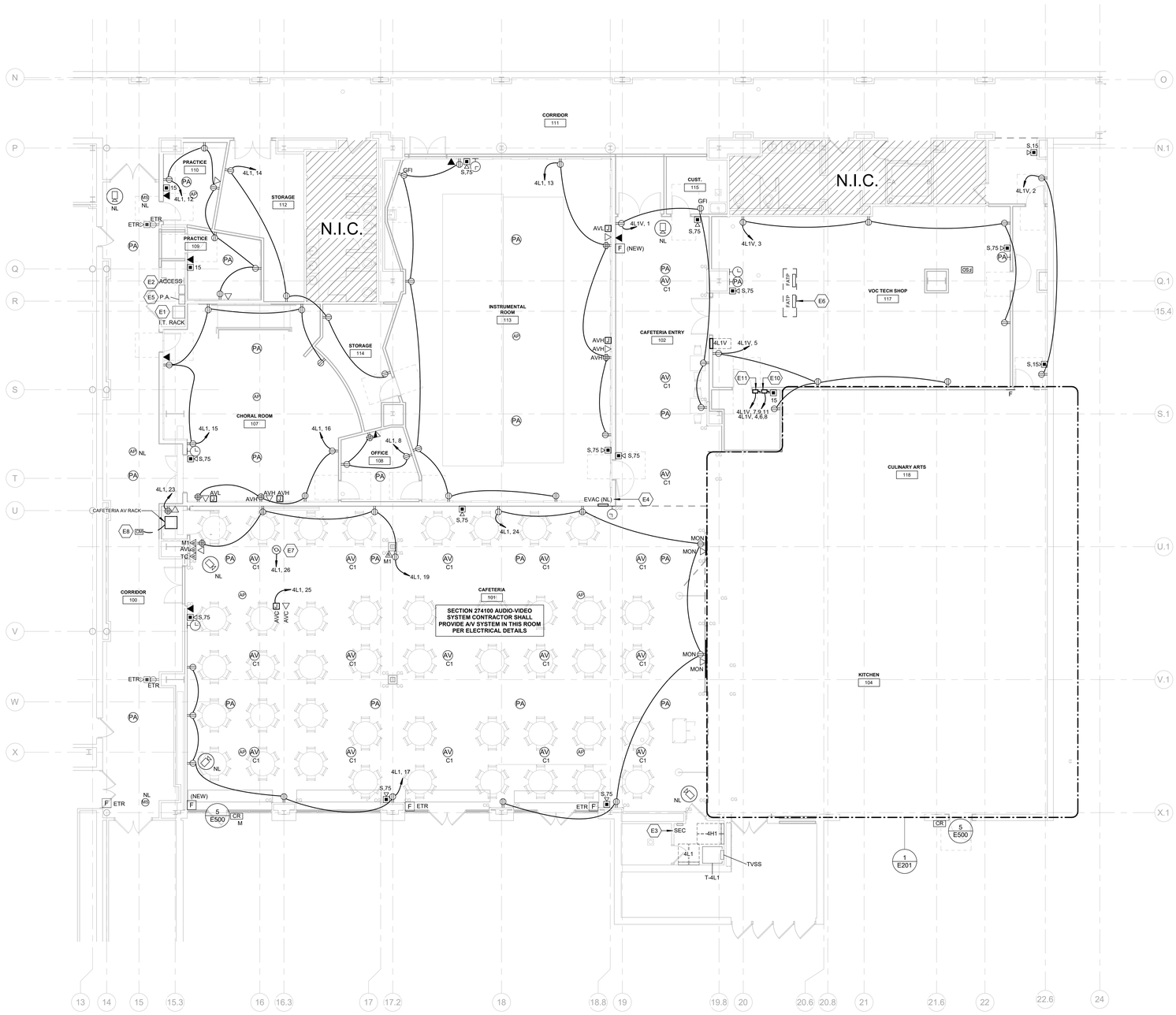
EL101

ELECTRICAL REFERENCE NOTE

1. REFER TO DRAWINGS E000 AND E001 FOR ELECTRICAL GENERAL NOTES, ABBREVIATIONS, LEGENDS AND SYMBOLS LIST.
2. REFER TO DRAWING E202 FOR KITCHEN EQUIPMENT SCHEDULE.

ELECTRICAL KEY NOTES

- (E1) EXISTING I.T. RACK, CATV WALL FIELD, TELEPHONE PUNCHDOWN BLOCKS AND ASSOCIATED EQUIPMENT TO REMAIN. NEW STRUCTURED CABLING SHALL BE ROUTED TO THIS LOCATION AND FINAL CONNECTIONS SHALL BE MADE FOLLOWING OWNER'S STANDARDS.
- (E2) EXISTING ACCESS CONTROLLERS AND POWER SUPPLIES TO REMAIN. NEW ACCESS CONTROL CABLING SHALL BE ROUTED TO THIS LOCATION AND FINAL CONNECTIONS SHALL BE MADE FOLLOWING OWNER'S STANDARDS.
- (E3) EXISTING SECURITY SYSTEM CONTROL PANEL TO REMAIN. NEW SECURITY SYSTEM CABLING SHALL BE ROUTED TO THIS LOCATION AND FINAL CONNECTIONS SHALL BE MADE FOLLOWING OWNER'S STANDARDS.
- (E4) EXISTING FIRE ALARM VOICE EVACUATION CENTER SHALL BE RELOCATED TO THIS LOCATION. NEW SPEAKER/STROBE DEVICES SHALL BE CONNECTED TO THIS PANEL FOR VOICE EVACUATION SIGNAL. REFER TO PARTIAL FIRE ALARM RISER DIAGRAM FOR ADDITIONAL INFORMATION.
- (E5) EXISTING PUNCHDOWN BLOCKS SUPPORTING PUBLIC ADDRESS SYSTEM SPEAKERS TO REMAIN. NEW PUBLIC ADDRESS SYSTEM CABLING SHALL BE ROUTED TO THIS LOCATION AND FINAL TERMINATIONS SHALL BE MADE FOLLOWING OWNER'S STANDARDS. REFER TO PARTIAL PUBLIC ADDRESS SYSTEM RISER DIAGRAM FOR ADDITIONAL INFORMATION.
- (E6) EXISTING FIRE ALARM SYSTEM TRANSPONDERS LOCATED ON FLOOR ABOVE TO REMAIN. NEW FIRE ALARM SYSTEM CABLING SHALL BE CONNECTED TO EXISTING ADDRESSABLE LOOP AND NOTIFICATION CIRCUITS. REFER TO PARTIAL FIRE ALARM SYSTEM RISER DIAGRAM FOR ADDITIONAL INFORMATION.
- (E7) PROVIDE 120V, 20A-1P POWER TO PROJECTION SCREEN. PROVIDE WITH CONTROL WIRING TO CAFETERIA AV RACK, PER AV SYSTEM DETAIL.
- (E8) PROVIDE FIRE ALARM CONTROL MODULE TO MUTE CAFETERIA AV/SOUND SYSTEM IN THE EVENT OF BUILDNIG ALARM. REFER TO AV SYSTEM DETAIL FOR CONNECTIONS.
- (E9) SUPPLY AND RETURN FAN MOTORS TO BE REPLACED ON ROOFTOP UNIT BY HVAC. EC SHALL TEMPORARILY DISCONNECT BRANCH CIRCUIT TO UNIT AND RECONNECT WHEN NEW MOTORS ARE INSTALLED. NEW VFD'S SHALL BE FURNISHED BY HVAC AND INSTALLED/WIRED BY EC AT ROOF LEVEL. LOCATIONS SHOWN ON MECHANICAL DRAWINGS. EXISTING BRANCH CIRCUIT WIRING SHALL BE EXTENDED TO VFD LOCATION AND FROM VFD TO UNIT. WIRE SIZE SHALL MATCH THAT OF EXISTING BRANCH CIRCUIT. INCLUDE 3#8+1#10G, 1"C. IN BID.
- (E10) PROVIDE 30A-3P DISC. SWITCH FOR FUTURE AIR COMPRESSOR. POWER VIA 3#8+1#10G, 1"C. TO 30A-3P BREAKER IN PANELBOARD. FINAL CONNECTIONS BY OTHERS.
- (E11) PROVIDE 30A-3P DISC. SWITCH FOR FUTURE DUST COLLECTOR. POWER VIA 3#8+1#10G, 1"C. TO 20A-3P BREAKER IN PANELBOARD. FINAL CONNECTIONS BY OTHERS.



1 01 ELECTRICAL POWER FIRST FLOOR PLAN
1/8" = 1'-0"

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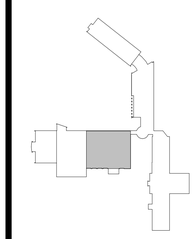


KEY PLAN

STATE PROJECT NO:
056-0052 A

BID SET
01/7/2022

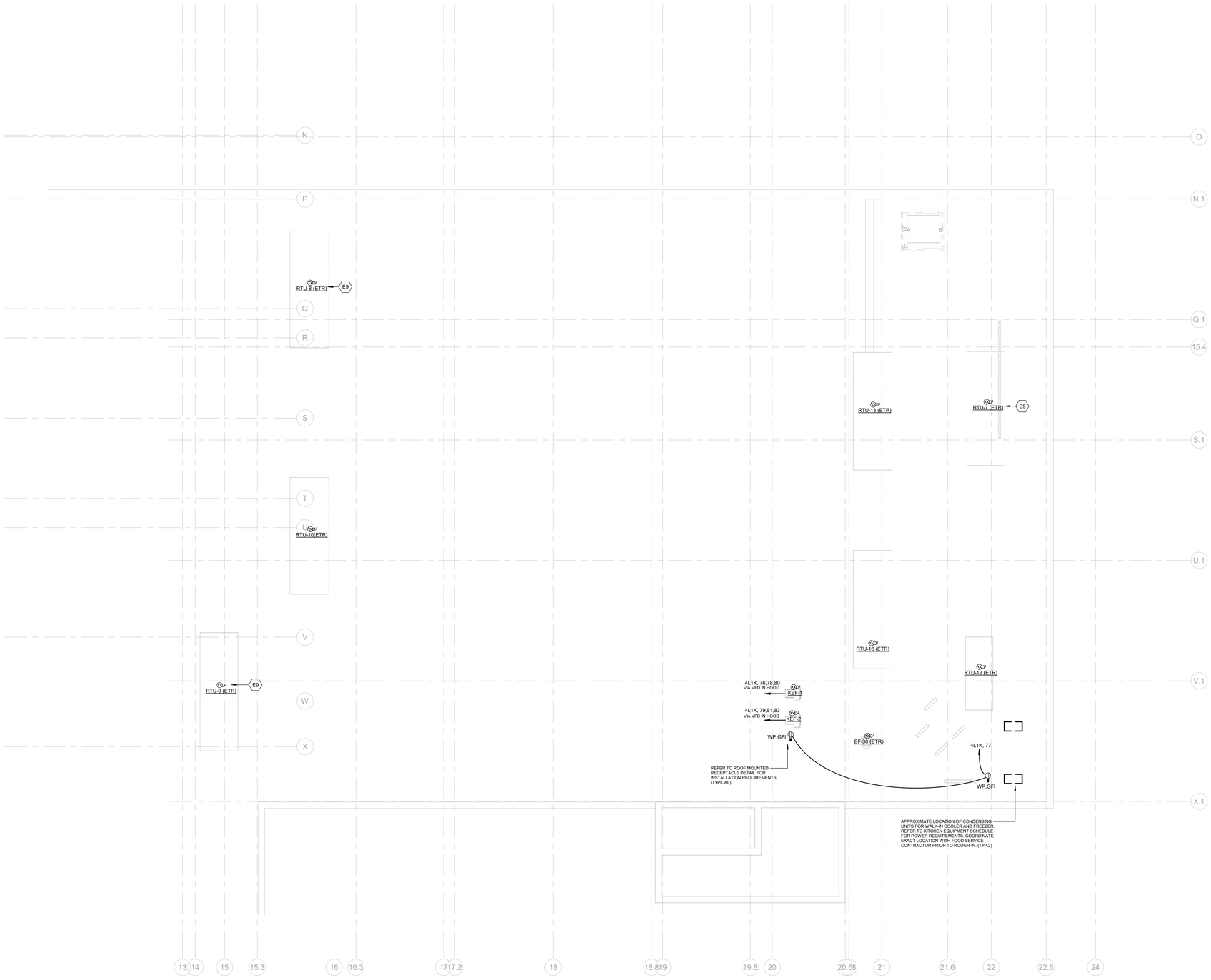
ACTUAL NORTH

STATE OF CONNECTICUT
DOUGLAS S. CLARK
20909
LICENSED
PROFESSIONAL ENGINEER

ELECTRICAL POWER FIRST FLOOR PLAN

Scale: AS NOTED
Job No.: 2021218.00
Drawn By: CES
Date: 1/7/2022

EP101



1 04 ELECTRICAL ROOF PLAN
1/8" = 1'-0"

ELECTRICAL REFERENCE NOTE

1. REFER TO DRAWINGS E000 AND E001 FOR ELECTRICAL GENERAL NOTES, ABBREVIATIONS, LEGENDS AND SYMBOLS LIST.
2. REFER TO DRAWING E202 FOR KITCHEN EQUIPMENT SCHEDULE.

ELECTRICAL KEY NOTES

E1 EXISTING I.T. RACK, CATV WALL FIELD, TELEPHONE PUNCHDOWN BLOCKS AND ASSOCIATED EQUIPMENT TO REMAIN. NEW STRUCTURED CABLING SHALL BE ROUTED TO THIS LOCATION AND FINAL CONNECTIONS SHALL BE MADE FOLLOWING OWNER'S STANDARDS.

E2 EXISTING ACCESS CONTROLLERS AND POWER SUPPLIES TO REMAIN. NEW ACCESS CONTROL CABLING SHALL BE ROUTED TO THIS LOCATION AND FINAL CONNECTIONS SHALL BE MADE FOLLOWING OWNER'S STANDARDS.

E3 EXISTING SECURITY SYSTEM CONTROL PANEL TO REMAIN. NEW SECURITY SYSTEM CABLING SHALL BE ROUTED TO THIS LOCATION AND FINAL CONNECTIONS SHALL BE MADE FOLLOWING OWNER'S STANDARDS.

E4 EXISTING FIRE ALARM VOICE EVACUATION CENTER SHALL BE RELOCATED TO THIS LOCATION. NEW SPEAKER/STROBE DEVICES SHALL BE CONNECTED TO THIS PANEL FOR VOICE EVACUATION SIGNAL. REFER TO PARTIAL FIRE ALARM RISER DIAGRAM FOR ADDITIONAL INFORMATION.

E5 EXISTING PUNCHDOWN BLOCKS SUPPORTING PUBLIC ADDRESS SYSTEM SPEAKERS TO REMAIN. NEW PUBLIC ADDRESS SYSTEM CABLING SHALL BE ROUTED TO THIS LOCATION AND FINAL TERMINATIONS SHALL BE MADE FOLLOWING OWNER'S STANDARDS. REFER TO PARTIAL PUBLIC ADDRESS SYSTEM RISER DIAGRAM FOR ADDITIONAL INFORMATION.

E6 EXISTING FIRE ALARM SYSTEM TRANSPONDERS LOCATED ON FLOOR ABOVE TO REMAIN. NEW FIRE ALARM SYSTEM CABLING SHALL BE CONNECTED TO EXISTING ADDRESSABLE LOOP AND NOTIFICATION CIRCUITS. REFER TO PARTIAL FIRE ALARM SYSTEM RISER DIAGRAM FOR ADDITIONAL INFORMATION.

E7 PROVIDE 120V, 20A-1P POWER TO PROJECTION SCREEN. PROVIDE WITH CONTROL WIRING TO CAFETERIA AV RACK, PER AV SYSTEM DETAIL.

E8 PROVIDE FIRE ALARM CONTROL MODULE TO MUTE CAFETERIA AV/SOUND SYSTEM IN THE EVENT OF BUILDNIG ALARM. REFER TO AV SYSTEM DETAIL FOR CONNECTIONS.

E9 SUPPLY AND RETURN FAN MOTORS TO BE REPLACED ON ROOFTOP UNIT BY HVAC. EC SHALL TEMPORARILY DISCONNECT BRANCH CIRCUIT TO UNIT AND RECONNECT WHEN NEW MOTORS ARE INSTALLED. NEW VFD'S SHALL BE FURNISHED BY HVAC AND INSTALLED/WIRED BY EC AT ROOF LEVEL. LOCATIONS SHOWN ON MECHANICAL DRAWINGS. EXISTING BRANCH CIRCUIT WIRING SHALL BE EXTENDED TO VFD LOCATION AND FROM VFD TO UNIT. WIRE SIZE SHALL MATCH THAT OF EXISTING BRANCH CIRCUIT. INCLUDE 3#8+1#10G, 1"C. IN BID.

E10 PROVIDE 30A-3P DISC. SWITCH FOR FUTURE AIR COMPRESSOR. POWER VIA 3#8+1#10G, 1"C. TO 30A-3P BREAKER IN PANELBOARD. FINAL CONNECTIONS BY OTHERS.

E11 PROVIDE 30A-3P DISC. SWITCH FOR FUTURE DUST COLLECTOR. POWER VIA 3#8+1#10G, 1"C. TO 20A-3P BREAKER IN PANELBOARD. FINAL CONNECTIONS BY OTHERS.

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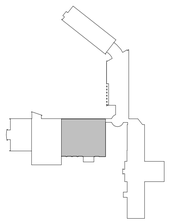


KEY PLAN

STATE PROJECT NO:
056-0052 A

BID SET

01/7/2022

N
ACTUAL NORTH

STATE OF CONNECTICUT
DOUGLAS S. LADD
20909
LICENSED
PROFESSIONAL ENGINEER

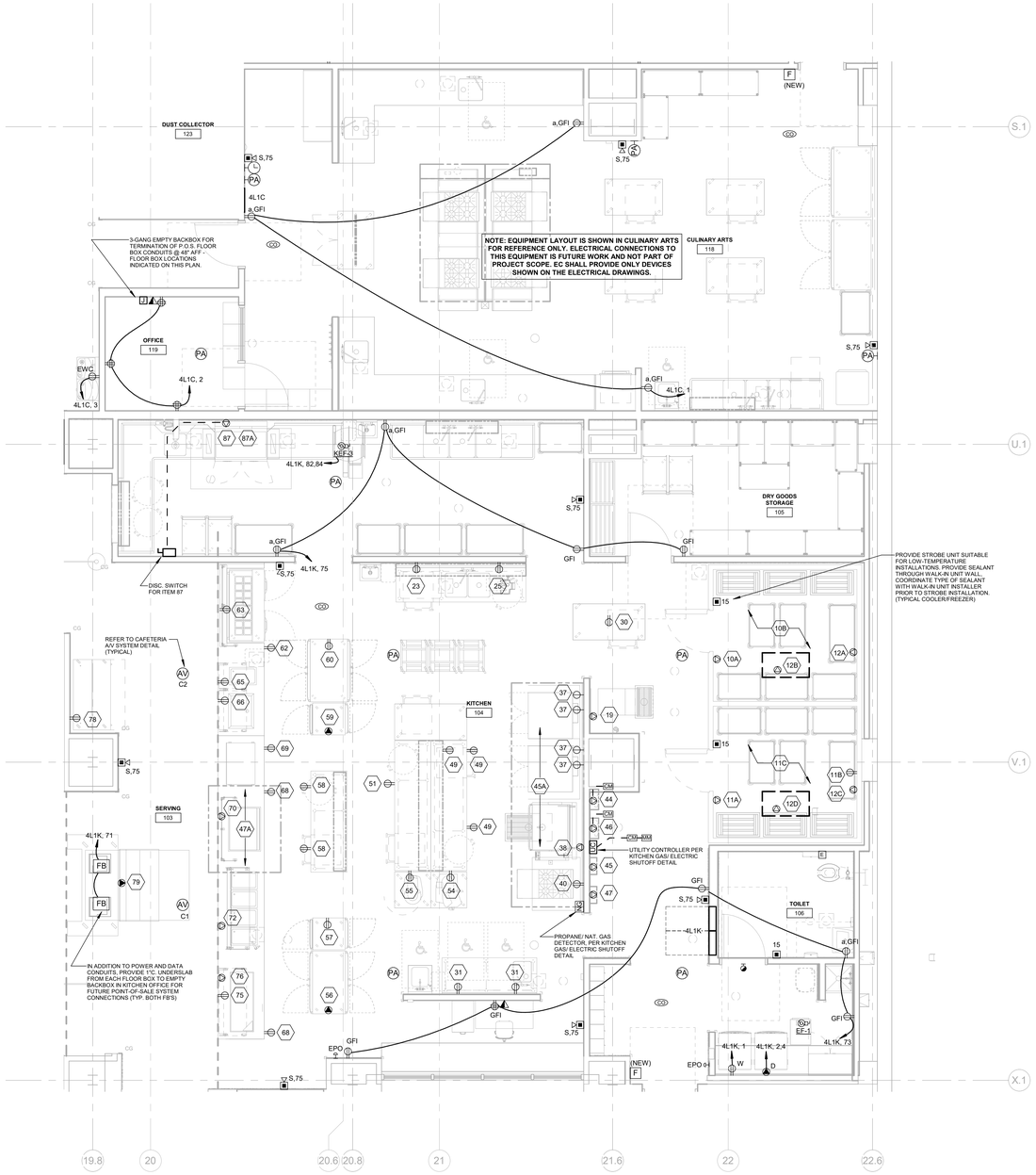
ELECTRICAL POWER ROOF PLAN

Scale: AS NOTED
Job No.: 2021218.00
Drawn By: CES
Date: 1/7/2022

EP104

ELECTRICAL REFERENCE NOTE

1. REFER TO DRAWINGS E000 AND E001 FOR ELECTRICAL GENERAL NOTES, ABBREVIATIONS, LEGENDS AND SYMBOLS LIST.
2. REFER TO DRAWING E202 FOR KITCHEN EQUIPMENT SCHEDULE.



1 PART PLAN - MAIN KITCHEN
1/4" = 1'-0"

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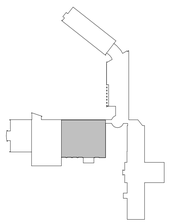


KEY PLAN

STATE PROJECT NO:
056-0052 A

BID SET

01/7/2022

N
ACTUAL NORTH

STATE OF CONNECTICUT DOUGLAS S. LAJOIE 20909 LICENSED PROFESSIONAL ENGINEER

ELECTRICAL KITCHEN PLAN

Scale: AS NOTED
Job No.: 2021218.00
Drawn By: CES
Date: 1/7/2022

E201

ELECTRICAL INTERWIRING NOTES

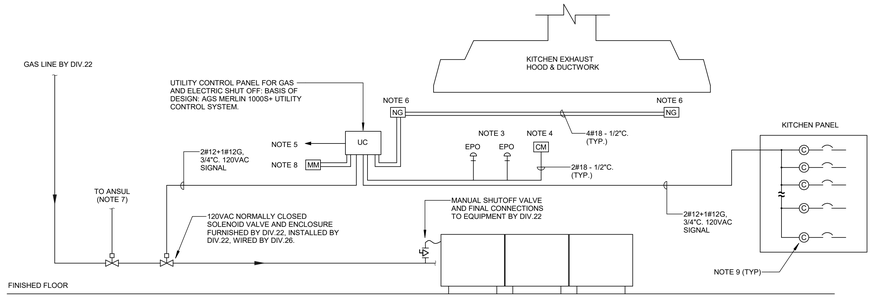
IN ADDITION TO WORK INDICATED IN THE KITCHEN EQUIPMENT SCHEDULE AND ON THE FLOOR PLANS, THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING THE FOLLOWING INTERWIRING FOR THE INDICATED KITCHEN SYSTEMS. REFER TO FOOD SERVICE ROUGH-IN PLANS FOR ADDITIONAL REQUIREMENTS AND COORDINATE INTERCONNECTIONS WITH KITCHEN EQUIPMENT CONTRACTOR PRIOR TO ROUGH-IN.

WALK-IN REFRIGERATOR AND FREEZER (ITEMS **10B & 11C**)
- WALK-IN REFRIGERATED ROOM LIGHT FIXTURES ARE TO BE FURNISHED BY THE KEC. LIGHTS SHALL BE MOUNTED AND INSTALLED / WIRED BY THE EC. - REFER TO FOOD SERVICE ROUGH-IN PLANS FOR QUANTITY OF FIXTURES AND ADDITIONAL INSTALLATION REQUIREMENTS.

DEMAND CONTROL VENTILATION SYSTEM - COOKING AREA HOOD (ITEM **45A**)
- EC SHALL PROVIDE **120V/1PH** MAIN POWER FEED TO DCV CONTROL PANEL INDICATED AS ITEM **45** ABOVE.
- EC SHALL PROVIDE **208V/3PH** POWER TO **KEF-1** EXHAUST FAN AS INDICATED IN MOTOR CIRCUIT SCHEDULE. PROVIDE WIRING FROM ELECTRICAL PANEL TO VFD IN DCV CONTROL PANEL AND FROM VFD TO FAN ON ROOF.
- EC SHALL PROVIDE **2#12 - 3/4"C.** CONTROL WIRING FROM DCV CONTROL PANEL TO THE FIRE-SUPPRESSION SYSTEM MICRO-SWITCH (**ITEM 44**)
- EC SHALL PROVIDE **2#12+#12G** IN 3/4"C. FROM DCV CONTROL PANEL TO THE LIGHT FIXTURE JUNCTION BOX LOCATED ON TOP OF THE HOOD. ALL LIGHT FIXTURES ARE FACTORY INSTALLED.
- EC SHALL PROVIDE **2#12 - 3/4"C.** CONTROL WIRING FROM DCV CONTROL PANEL TO ROOM TEMPERATURE SENSOR. THE SENSOR SHALL BE FURNISHED BY KEC AND INSTALLED BY EC IN LOCATION DETERMINED BY KEC.
- EC SHALL PROVIDE **2#12 - 3/4"C.** CONTROL WIRING FROM DCV CONTROL PANEL TO EACH OF TWO(2) CAPTURE VOLUME SENSORS LOCATED IN THE HOOD. COORDINATE LOCATION WITH KEC IN FIELD.
- EC SHALL PROVIDE **CAT.5E CABLE** IN 3/4"C. FROM DCV CONTROL PANEL TO REMOTE TOUCHSCREEN CONTROLLER. THE CONTROLLER SHALL BE FURNISHED BY KEC AND INSTALLED BY EC IN LOCATION DETERMINED BY KEC.

DEMAND CONTROL VENTILATION SYSTEM - SERVERY AREA HOOD (ITEM **47A**)
- EC SHALL PROVIDE **120V/1PH** MAIN POWER FEED TO DCV CONTROL PANEL INDICATED AS ITEM **47** ABOVE.
- EC SHALL PROVIDE **208V/3PH** POWER TO **KEF-2** EXHAUST FAN AS INDICATED IN MOTOR CIRCUIT SCHEDULE. PROVIDE WIRING FROM ELECTRICAL PANEL TO VFD IN DCV CONTROL PANEL AND FROM VFD TO FAN ON ROOF.
- EC SHALL PROVIDE **2#12 - 3/4"C.** CONTROL WIRING FROM DCV CONTROL PANEL TO THE FIRE-SUPPRESSION SYSTEM MICRO-SWITCH (**ITEM 46**)
- EC SHALL PROVIDE **2#12+#12G** IN 3/4"C. FROM DCV CONTROL PANEL TO THE LIGHT FIXTURE JUNCTION BOX LOCATED ON TOP OF THE HOOD. ALL LIGHT FIXTURES ARE FACTORY INSTALLED.
- EC SHALL PROVIDE **2#12 - 3/4"C.** CONTROL WIRING FROM DCV CONTROL PANEL TO ROOM TEMPERATURE SENSOR. THE SENSOR SHALL BE FURNISHED BY KEC AND INSTALLED BY EC IN LOCATION DETERMINED BY KEC.
- EC SHALL PROVIDE **2#12 - 3/4"C.** CONTROL WIRING FROM DCV CONTROL PANEL TO EACH OF TWO(2) CAPTURE VOLUME SENSORS LOCATED IN THE HOOD. COORDINATE LOCATION WITH KEC IN FIELD.
- EC SHALL PROVIDE **CAT.5E CABLE** IN 3/4"C. FROM DCV CONTROL PANEL TO REMOTE TOUCHSCREEN CONTROLLER. THE CONTROLLER SHALL BE FURNISHED BY KEC AND INSTALLED BY EC IN LOCATION DETERMINED BY KEC.

RACK CONVEYER WAREWASHER (ITEM **87A**)
- EC SHALL PROVIDE **208V/1PH** POWER TO **KEF-3** DISHWASHER EXHAUST FAN (WITH ECM MOTOR) AS INDICATED ON MOTOR CIRCUIT SCHEDULE.
- EC SHALL PROVIDE **2#12 - 3/4"C.** CONTROL WIRING FROM RELAYED OUTPUT OF WAREWAHSER (ITEM **87**) TO EXHAUST FAN FOR OPERATION.



SEQUENCE OF OPERATION:
1. THE SYSTEM'S GAS SOLENOID VALVE SHALL CLOSE AND ELECTRICAL SHUTOFF SHALL OCCUR UPON ANY OF THE FOLLOWING:
   A. WHEN NATURAL GAS/ PROPANE IS DETECTED.
   B. ALARM SIGNAL FROM ANY PANIC BUTTON.
   C. ALARM SIGNAL FROM FIRE ALARM CONTROL PANEL; THE CONTROL MODULE SHALL BE PROGRAMMED BY THE FIRE ALARM CONTRACTOR TO ACTIVATE UPON ANSUL SYSTEM ACTIVATION OR CARBON MONOXIDE DETECTION IN KITCHEN.
2. UNDER NORMAL OPERATION CONDITION, GAS CONTROL PANEL IS POWERED, GAS SOLENOID CAN BE MANUALLY OPENED VIA AUTHORITY KEY SWITCH.
3. UPON DETECTION OF COMBUSTIBLE GAS, GAS CONTROL PANEL SHALL GO INTO ALARM. CLOSING GAS SOLENOID VALVE, TURNING OFF SHUNT TRIP BREAKERS, AND GENERATING A SUPERVISORY SIGNAL FOR FIRE ALARM PANEL
4. UPON LOSS OF POWER TO HOOD OR GAS CONTROL PANEL, GAS SOLENOID SHALL CLOSE, MANUAL RESET OF SYSTEM IS REQUIRED TO OPEN GAS SOLENOID VALVE.
5. UPON SENSOR FAILURE OR FAULT, SYSTEM SHALL GO INTO ALARM AND CLOSE GAS SOLENOID VALVE.
6. INCIDENT ON COOKING LINE SHALL ACTIVATE HOOD ANSUL SYSTEM, CLOSING THE DEDICATED ANSUL SOLENOID VALVE, SEPARATE FROM THIS SYSTEM.

NOTES:
1. REFER TO FLOOR PLANS FOR LOCATIONS OF CONTROLLER, EPO SHUTDOWN BUTTONS AND SOLENOIDS. COORDINATE BETWEEN ELECTRICAL AND PLUMBING DRAWINGS.
2. UNLESS NOTED OTHERWISE, ALL EQUIPMENT, WIRING, ELECTRICAL CONNECTIONS AND TESTING BY DIV. 26. COORDINATE SOLENOID VALVE CABINET LOCATION(S) AND FIELD WIRING WITH DIV. 22.
3. STI MODEL #SS202-2-PO-EN PUSHBUTTON, QUANTITY SHOWN ON PLANS, WIRED IN PARALLEL:
   A. WITH (1) N.O. AND (1) N.C. CONTACT COMPATIBLE WITH CONTROL PANEL INPUT
   B. RED COLOR WITH "EMERGENCY POWER OFF" LEGEND
   C. NON-ALARMED FLIP UP FLUSHED COVER
   D. KEY-TO-RESET, MAINTAINED OPERATION (ALL SWITCHES SHALL BE KEYED ALIKE)
4. FIRE ALARM CONTROL MODULE WIRED IN PARALLEL WITH EMERGENCY SHUTOFF (EPO) BUTTON INPUT(S). SEE SEQUENCE OF OPERATION NOTES FOR FIRE ALARM FUNCTIONALITY.
5. POWER VIA 2#12+1#12G, 3/4"C. TO LOCAL UNSWITCHED RECEPTACLE CIRCUIT IN KITCHEN. THIS CIRCUIT SHALL BE ON GENERATOR POWER, WHERE AVAILABLE.
6. NATURAL GAS/PROPANE DETECTOR: MODEL AGSNGXS. QUANTITY AND LOCATION AS SPECIFIED ON PLANS. MOUNT TO A SINGLE GANG BOX ON WALL 5'-6" AFF. PROVIDE A MINIMUM OF (1) DETECTOR MOUNTED DIRECTLY ABOVE CONTROLLER IF NOT SHOWN ON PLANS.
7. SEPARATE SOLENOID VALVE CONNECTED TO ANSUL SYSTEM. REFER TO FOOD SERVICE EQUIPMENT DRAWINGS FOR ADDITIONAL INFORMATION AND REQUIRED CONNECTIONS.
8. DRY CONTACT OUTPUT TO FIRE ALARM MONITORING MODULE TO REPORT TO FIRE ALARM SYSTEM UPON GAS DETECTION.
9. EC SHALL PROVIDE SHUNT TRIP CIRCUIT BREAKER IN PANEL WITH 120V COIL (TYP.). SEE KITCHEN EQUIPMENT SCHEDULE FOR EQUIPMENT REQUIRED TO SHUT DOWN ON ACTIVATION AND FOR CIRCUIT BREAKERS REQUIRING SHUNT-TRIP ACCESSORY.

1 KITCHEN GAS AND ELECTRIC SHUTOFF DETAIL WITH NATURAL GAS DETECTION
NTS

ELECTRICAL KITCHEN EQUIPMENT SCHEDULE

ITEM NO.	QTY.	DESCRIPTION	ELECTRICAL DATA					SOURCE PANEL	CIRCUIT BREAKER	WIRE AND CONDUIT	CONNECTION	DISCONNECT SWITCH	REMARKS
			V	PH	HP	KW	AMP						
10A	1	WALK-IN COOLER (LIGHTS/ALARM)	120	1	-	1.1	-	4L1K	20A-1P	2#12, #12G, 3/4"C	HARDWIRED	1PTS	
10B	1	WALK-IN COOLER (INTERWIRING)	-	-	-	-	-	N/A	N/A	#12 AWG MINIMUM	VARIES		SEE ELECTRICAL INTERWIRING NOTES ON THIS DRAWING
11A	1	WALK-IN FREEZER (LIGHTS/ALARM)	120	1	-	1.3	-	4L1K	20A-1P	2#12, #12G, 3/4"C	HARDWIRED	1PTS	
11B	1	WALK-IN FREEZER (DRAIN LINE HEAT TRACE)	120	1	-	-	2.0	4L1K	20A-1P	2#12, #12G, 3/4"C	NEMA 5-20R		
11C	1	WALK-IN FREEZER (INTERWIRING)	-	-	-	-	-	N/A	N/A	#12 AWG MINIMUM	VARIES		SEE ELECTRICAL INTERWIRING NOTES ON THIS DRAWING
12A	1	COOLER EVAP COIL	208	1	-	-	1.0	4L1K	20A-2P	2#12, #12G, 3/4"C	HARDWIRED	2PTS	
12B	1	COOLER CONDENSING UNIT	208	3	-	-	5.2	4L1K	20A-3P	3#12, #12G, 3/4"C	HARDWIRED	30A-3P D/S	REMARK 8
12C	1	FREEZER EVAP COIL	208	1	-	-	9.1	4L1K	20A-2P	2#12, #12G, 3/4"C	HARDWIRED	2PTS	
12D	1	FREEZER CONDENSING UNIT	208	3	-	-	9.7	4L1K	20A-3P	3#12, #12G, 3/4"C	HARDWIRED	30A-3P D/S	REMARK 8
19	1	ICE CUBER	208	1	-	-	5.5	4L1K	20A-2P	2#12, #12G, 3/4"C	HARDWIRED	2PTS	
23	1	PREP TABLE CONV. RECEPT	120	1	-	-	-	4L1K	20A-1P	2#12, #12G, 3/4"C	NEMA 5-20R		
25	1	FOOD PROCESSOR	120	1	-	-	12.0	4L1K	20A-1P	2#12, #12G, 3/4"C	NEMA 5-20R		
30	1	DROP CORD ASSEMBLY	120	1	-	-	-	4L1K	20A-1P	2#12, #12G, 3/4"C	NEMA 5-20R		REMARK 5
31	2	ADA PREP TABLE CONV. RECEPT	120	1	-	-	-	4L1K	20A-1P	2#12, #12G, 3/4"C	NEMA 5-20R		
37	4	CONVECTION OVEN	120	1	-	-	8.0	4L1K	20A-1P	2#12, #12G, 3/4"C	NEMA 5-20R (SIMPLEX RECEPT)		REMARK 6
38	1	BRAISING PAN	120	1	-	-	5.0	4L1K	20A-1P	2#12, #12G, 3/4"C	HARDWIRED	1PTS	REMARK 6
40	1	FOUR-BURNER OVEN	120	1	-	-	0.1	4L1K	20A-1P	2#12, #12G, 3/4"C	NEMA 5-20R		REMARK 6
44	1	FIRE SUPPRESSION SYSTEM (FOR COOKING HOOD)	120	1	-	-	5.0	4L1K	20A-1P	2#12, #12G, 3/4"C	HARDWIRED	1PTS	REMARK 7
45	1	DCV SYSTEM CONTROL PANEL (FOR COOKING HOOD)	120	1	-	-	5.0	4L1K	15A-1P	2#12, #12G, 3/4"C	HARDWIRED	1PTS	
45A	1	DCV SYSTEM INTERWIRING (FOR COOKING HOOD)	-	-	-	-	-	N/A	N/A	#12 AWG MINIMUM	VARIES		SEE ELECTRICAL INTERWIRING NOTES ON THIS DRAWING
46	1	FIRE SUPPRESSION SYSTEM (FOR SERVERY HOOD)	120	1	-	-	5.0	4L1K	20A-1P	2#12, #12G, 3/4"C	HARDWIRED	1PTS	REMARK 7
47	1	DCV SYSTEM CONTROL PANEL (FOR SERVERY HOOD)	120	1	-	-	5.0	4L1K	15A-1P	2#12, #12G, 3/4"C	HARDWIRED	1PTS	
47A	1	DCV SYSTEM INTERWIRING (FOR SERVERY HOOD)	-	-	-	-	-	N/A	N/A	#12 AWG MINIMUM	VARIES		SEE ELECTRICAL INTERWIRING NOTES ON THIS DRAWING
49	3	COOK'S TABLE CONV. RECEPT	120	1	-	-	-	4L1K	20A-1P	2#12, #12G, 3/4"C	NEMA 5-20R		REMARKS 2, 3
51	1	WORK TABLE CONV. RECEPT	120	1	-	-	-	4L1K	20A-1P	2#12, #12G, 3/4"C	NEMA 5-20R		REMARKS 2, 3
54	1	SLICER	120	1	-	-	5.6	4L1K	20A-1P	2#12, #12G, 3/4"C	NEMA 5-20R		REMARKS 2, 3
55	1	TWENTY-QUART MIXER	120	1	-	-	8.0	4L1K	20A-1P	2#12, #12G, 3/4"C	NEMA 5-20R		REMARKS 2, 3
56	1	PASS-THRU WARMING CABINET	120/208	1	-	-	13.0	4L1K	20A-2P	3#12, #12G, 3/4"C	NEMA L14-20R		REMARK 4
57	1	PASS-THRU REFRIGERATOR	120	1	-	-	6.5	4L1K	20A-1P	2#12, #12G, 3/4"C	NEMA 5-20R		REMARK 4
58	2	WORK TABLE CONV. RECEPT	120	1	-	-	-	4L1K	20A-1P	2#12, #12G, 3/4"C	NEMA 5-20R		REMARKS 2, 3
59	1	PASS-THRU WARMING CABINET	208	1	-	-	6.3	4L1K	20A-2P	2#12, #12G, 3/4"C	NEMA 6-20R		REMARK 4
60	1	PASS-THRU REFRIGERATOR	120	1	-	-	6.5	4L1K	20A-1P	2#12, #12G, 3/4"C	NEMA 5-20R		REMARK 4
62	1	DELI TABLE CONV. RECEPT	120	1	-	-	-	4L1K	20A-1P	2#12, #12G, 3/4"C	NEMA 5-20R		REMARKS 2, 3
63	1	DELI TABLE REFRIGERATOR	120	1	-	-	5.4	4L1K	20A-1P	2#12, #12G, 3/4"C	NEMA 5-20R		REMARKS 1, 2, 3
65	1	DROP-IN HOT FOOD WELL	120	1	-	-	10.0	4L1K	20A-1P	2#12, #12G, 3/4"C	NEMA 5-20R		REMARKS 2, 3
66	1	DROP-IN FROST TOP	120	1	-	-	3.8	4L1K	20A-1P	2#12, #12G, 3/4"C	NEMA 5-20R		REMARKS 2, 3
68	2	HOT FOOD COUNTER RECEPT	120	1	-	-	-	4L1K	20A-1P	2#12, #12G, 3/4"C	NEMA 5-20R		REMARKS 2, 3
69	1	TWO-TIER DISPLAY SHELF	120	1	-	-	15.1	4L1K	20A-1P	2#12, #12G, 3/4"C	NEMA 5-20R		REMARKS 2, 3
70	1	DROP-IN ELECTRIC GRIDDLE	208	3	-	18	-	4L1K	50A-3P	3#8, #10G, 1"C	HARDWIRED	60A-3P	REMARKS 3, 6
72	1	HOT FOOD WELL GROUP	208	1	-	3.6	-	4L1K	30A-2P	2#10, #10G, 3/4"C	HARDWIRED	30A-2P	REMARK 3
75	1	HEATED BLACK GLASS SURFACE	120	1	-	-	7.1	4L1K	20A-1P	2#12, #12G, 3/4"C	NEMA 5-20R		REMARKS 2, 3
76	1	HEATED FOOD PROTECTOR	208	1	-	1.1	-	4L1K	20A-2P	2#12, #12G, 3/4"C	HARDWIRED	2PTS	REMARK 3
78	1	MILK COOLER	120	1	-	-	3.3	4L1K	20A-1P	2#12, #12G, 3/4"C	NEMA 5-20R		REMARK 1
79	1	GRAB & GO REFRIGERATOR	208	1	-	-	9.0	4L1K	15A-2P	2#12, #12G, 3/4"C	NEMA 6-15R		REMARK 3
87	1	WAREWASHER	480	3	-	-	68.0	4H1	90A-3P	3#3, #8G, 1-1/4"C	HARDWIRED	100A-3P D/S	REPLACE (3) 20A-1P SPARES IN PANEL 4H1 WITH NEW BREAKER
87A	1	WAREWASHER (INTERWIRING)	-	-	-	-	-	N/A	N/A	#12 AWG MINIMUM	VARIES		SEE ELECTRICAL INTERWIRING NOTES ON THIS DRAWING

GENERAL NOTES:
1. ABBREVIATIONS:
   - S.T. = SHUNT TRIP CIRCUIT BREAKER WIRED BY E.C.
   - FSC = FOOD SERVICE CONTRACTOR
   - KEC = KITCHEN EQUIPMENT CONTRACTOR
   - C.O. = CONVENIENCE OUTLET. ALL RECEPTACLE SHALL BE GFCI TYPE. "a" INDICATES ABOVE COUNTER
   - C&P = CORD & PLUG
   - 1PTS = 1-POLE MOTOR RATED/ THERMAL OVERLOAD TOGGLE SWITCH
   - 2PTS = 2-POLE MOTOR RATED/ THERMAL OVERLOAD TOGGLE SWITCH
   - D/S = NEMA 3R DISCONNECT SWITCH
2. COORDINATE ALL CONNECTION TYPES, MOUNTING HEIGHTS, STUB-UP AND DEVICE LOCATIONS AND OTHER ELECTRICAL REQUIREMENTS WITH KEC AND FOOD SERVICE ROUGH-IN PLANS PRIOR TO ROUGH-IN.
3. PROVIDE FINAL CONNECTIONS TO ALL PIECES OF EQUIPMENT SPECIFIED WITH DISCONNECT SWITCHES OR DIRECT CONNECTIONS.
4. ALL NEMA 5-15R AND 5-20R RECEPTACLES IN KITCHEN AND/OR SERVERY (INCLUDING CONVENIENCE RECEPTACLES SHOWN ON PLAN) SHALL BE DUPLEX GFCI-TYPE, UNLESS INDICATED TO HAVE GFCI CIRCUIT BREAKER IN THIS SCHEDULE.
5. ALL RECEPTACLES OTHER THAN NEMA 5-15R AND 5-20R SHALL BE PROTECTED BY A GFCI BREAKER IN SOURCE PANELBOARD.

REMARKS:
1. PROVIDE 15mA GFCI BREAKER IN PANELBOARD FOR EQUIPMENT. DO NOT PROVIDE GFCI RECEPTACLE.
2. RECEPTACLE MOUNTED WITHIN KITCHEN COUNTER OR TABLE. RECEPTACLE FURNISHED AND MOUNTED BY KEC, WIRED BY EC.
3. EQUIPMENT FED FROM UNDERSLAB. COORDINATE STUB-UP LOCATION WITH FOOD SERVICE ROUGH-IN PLANS.
4. DROP CORD AND PENDANT RECEPTACLE FURNISHED, INSTALLED AND WIRED BY EC. PROVIDE BRANCH CIRCUIT TO A JUNCTION BOX FLUSHED INTO CEILING AND CONNECT TO DROP CORD AT THIS LOCATION. EC SHALL PROVIDE SJO DROP CORD, PENDANT RECEPTACLE AND STRAIN-RELIEF DEVICE FOR DROP CORD. JUNCTION BOX SHALL BE SUPPORTED FROM STRUCTURE ABOVE. DO NOT SUPPORT VIA CEILING.
5. DROP CORD AND PENDANT RECEPTACLE FURNISHED BY KEC, INSTALLED AND WIRED BY EC. PROVIDE BRANCH CIRCUIT TO A JUNCTION BOX FLUSHED INTO CEILING AND CONNECT TO DROP CORD AT THIS LOCATION. EC SHALL PROVIDE STRAIN-RELIEF DEVICE FOR DROP CORD. JUNCTION BOX SHALL BE SUPPORTED FROM STRUCTURE ABOVE. DO NOT SUPPORT VIA CEILING.
6. PROVIDE SHUNT TRIP BREAKER IN SOURCE PANEL PER KITCHEN ELECTRIC AND GAS SHUTOFF WIRING DIAGRAM DETAIL.
7. PROVIDE FIRE ALARM MONITOR MODULE AND CONNECTIONS TO FIRE ALARM SYSTEM. REFER TO FIRE ALARM RISER FOR ADDITIONAL INFORMATION.
8. CONDENSING UNIT IS LOCATED ON ROOF. REFER TO ELECTRICAL ROOF PLAN FOR APPROXIMATE LOCATION. COORDINATE EXACT LOCATION WITH FOOD SERVICE DRAWINGS PRIOR TO ROUGH-IN.

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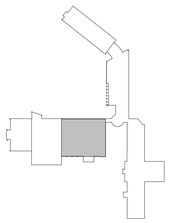


KEY PLAN

STATE PROJECT NO:
056-0052 A

BID SET

01/7/2022

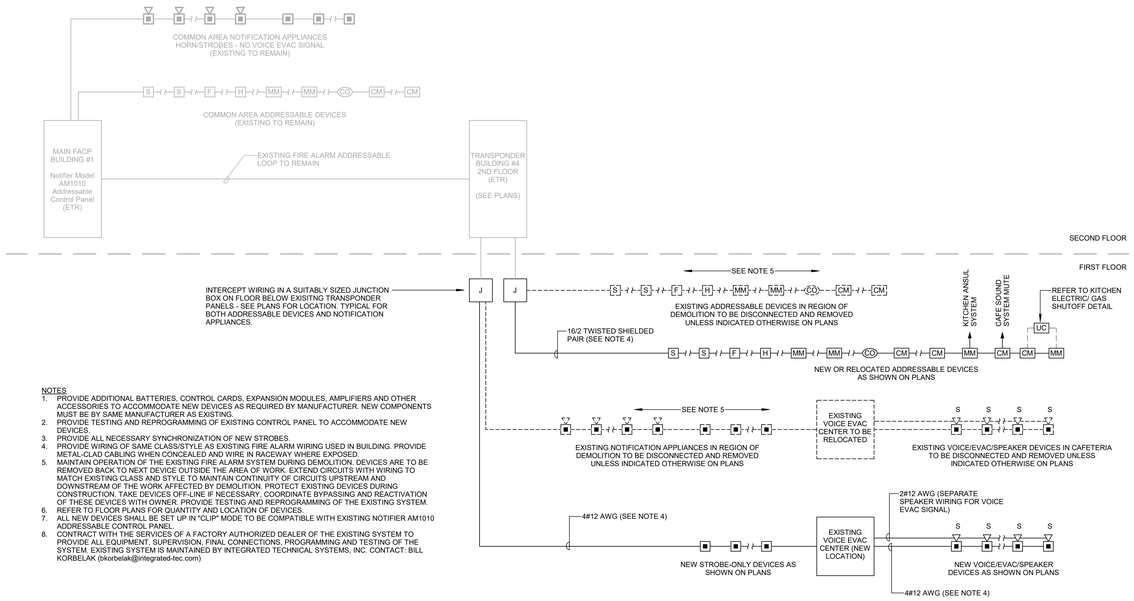
N
ACTUAL NORTH

STATE OF CONNECTICUT DOUGLAS S. LAMB 20909 LICENSED PROFESSIONAL ENGINEER

ELECTRICAL KITCHEN SCHEDULE

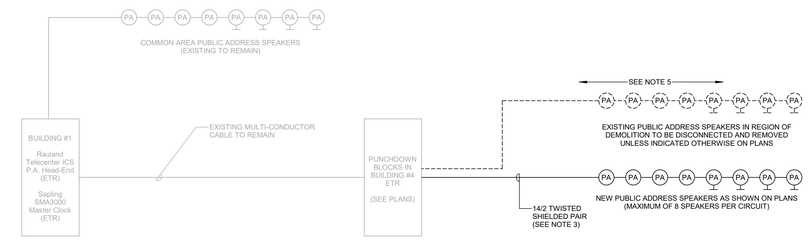
Scale: AS NOTED
Job No.: 2021218.00
Drawn By: CES
Date: 1/7/2022

E202



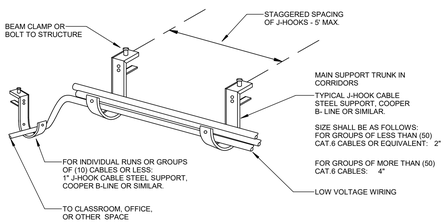
NOTES
1. PROVIDE ADDITIONAL BATTERIES, CONTROL CARDS, EXPANSION MODULES, AMPLIFIERS AND OTHER ACCESSORIES TO ACCOMMODATE NEW DEVICES AS REQUIRED BY MANUFACTURER. NEW COMPONENTS MUST BE BY SAME MANUFACTURER AS EXISTING.
2. PROVIDE TESTING AND REPROGRAMMING OF EXISTING CONTROL PANEL TO ACCOMMODATE NEW DEVICES.
3. PROVIDE ALL NECESSARY SYNCHRONIZATION OF NEW STROBES.
4. PROVIDE WIRING OF SAME CLASS/STYLE AS EXISTING FIRE ALARM WIRING USED IN BUILDING. PROVIDE METAL-CLAD CABLING WHEN CONCEALED AND WIRE IN RACEWAY WHERE EXPOSED.
5. MAINTAIN OPERATION OF THE EXISTING FIRE ALARM SYSTEM DURING DEMOLITION. DEVICES ARE TO BE REMOVED BACK TO NEXT DEVICE OUTSIDE THE AREA OF WORK. EXTEND CIRCUITS WITH WIRING TO MATCH EXISTING CLASS AND STYLE TO MAINTAIN CONTINUITY OF CIRCUITS UPSTREAM AND DOWNSTREAM OF THE WORK AFFECTED BY DEMOLITION. PROTECT EXISTING DEVICES DURING CONSTRUCTION. TAKE DEVICES OFF-LINE IF NECESSARY, COORDINATE BYPASSING AND REACTIVATION OF THESE DEVICES WITH OWNER. PROVIDE TESTING AND REPROGRAMMING OF THE EXISTING SYSTEM.
6. REFER TO FLOOR PLANS FOR QUANTITY AND LOCATION OF DEVICES.
7. ALL NEW DEVICES SHALL BE SET UP IN "CLIP" MODE TO BE COMPATIBLE WITH EXISTING NOTIFIER AM1010 ADDRESSABLE CONTROL PANEL.
8. CONTRACT WITH THE SERVICES OF A FACTORY AUTHORIZED DEALER OF THE EXISTING SYSTEM TO PROVIDE ALL EQUIPMENT, SUPERVISION, FINAL CONNECTIONS, PROGRAMMING AND TESTING OF THE SYSTEM. EXISTING SYSTEM IS MAINTAINED BY INTEGRATED TECHNICAL SYSTEMS, INC. CONTACT: BILL KORBELAK (bkorbelak@integrated-tec.com)

1 PARTIAL FIRE ALARM RISER DIAGRAM
NTS



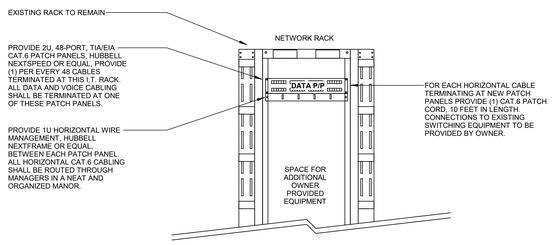
NOTES
1. PROVIDE ADDITIONAL BATTERIES, CONTROL CARDS, EXPANSION MODULES, AMPLIFIERS AND OTHER ACCESSORIES TO ACCOMMODATE NEW DEVICES AS REQUIRED BY MANUFACTURER. NEW COMPONENTS MUST BE BY SAME MANUFACTURER AS EXISTING.
2. PROVIDE TESTING AND REPROGRAMMING OF EXISTING TELECENTER HEAD-END TO ACCOMMODATE NEW DEVICES.
3. PROVIDE WIRING OF SAME CLASS/STYLE AS EXISTING PUBLIC ADDRESS AND CLOCK WIRING USED IN BUILDING. PROVIDE METAL-CLAD CABLING WHEN CONCEALED AND WIRE IN RACEWAY WHERE EXPOSED.
4. REFER TO FLOOR PLANS FOR QUANTITY AND LOCATION OF DEVICES.
5. MAINTAIN OPERATION OF THE EXISTING PUBLIC ADDRESS SYSTEM DURING DEMOLITION. DEVICES ARE TO BE REMOVED BACK TO NEXT DEVICE OUTSIDE THE AREA OF WORK. EXTEND CIRCUITS WITH WIRING TO MATCH EXISTING CLASS AND STYLE TO MAINTAIN CONTINUITY OF CIRCUITS UPSTREAM AND DOWNSTREAM OF THE WORK AFFECTED BY DEMOLITION. PROTECT EXISTING DEVICES DURING CONSTRUCTION. TAKE DEVICES OFF-LINE IF NECESSARY, COORDINATE BYPASSING AND REACTIVATION OF THESE DEVICES WITH OWNER. PROVIDE TESTING AND REPROGRAMMING OF THE EXISTING SYSTEM.
6. NEW SPEAKERS SHALL BE TIED INTO SAME ZONE AS EXISTING REMOVED SPEAKERS. COORDINATE ZONING OF EXISTING SYSTEM IN FIELD.

2 PARTIAL PUBLIC ADDRESS RISER DIAGRAM
NTS

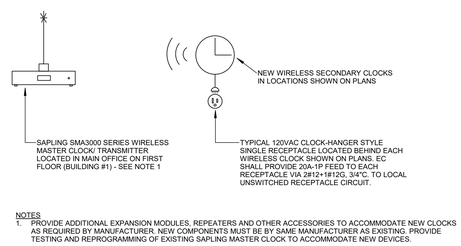


NOTES:
1. TELECOMMUNICATIONS(DATA), P.A., AND SECURITY WIRING SHALL BE RUN IN THREE SEPARATE PATHS OF J-HOOKS WHEN ROUTED IN CORRIDORS. MAINTAIN SEPARATIONS BETWEEN TYPES OF CABLING AS DICTATED BY TIA 569-C AND OTHER TIA STANDARDS.
2. HORIZONTAL CABLING SHALL BE ROUTED THROUGH CABLE TRAY WHERE INDICATED ON PLANS. PROVIDE J-HOOKS FOR RUNNING FROM CABLE TRAY TO WORK AREA OUTLET AND I.T. ROOM LOCATIONS.

3 J-HOOK DETAIL FOR LOW-VOLTAGE WIRING
NTS

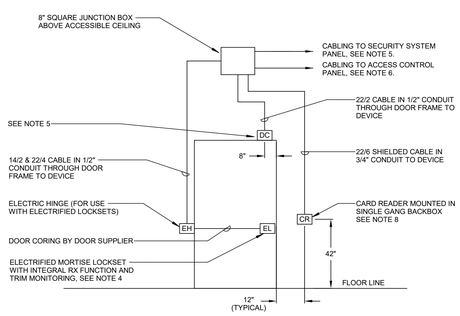


4 CONNECTIONS TO EXISTING IT RACK
NTS



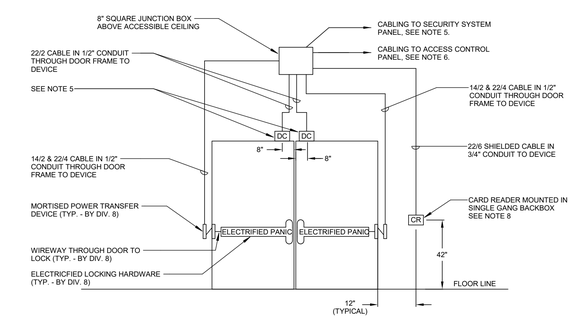
NOTES
1. PROVIDE ADDITIONAL EXPANSION MODULES, REPEATERS AND OTHER ACCESSORIES TO ACCOMMODATE NEW CLOCKS AS REQUIRED BY MANUFACTURER. NEW COMPONENTS MUST BE BY SAME MANUFACTURER AS EXISTING. PROVIDE TESTING AND REPROGRAMMING OF EXISTING SAPLING MASTER CLOCK TO ACCOMMODATE NEW DEVICES.

7 WIRELESS CLOCK SYSTEM DETAIL
NTS



NOTES
1. TYPICAL SINGLE DOOR SHOWN. SEE DRAWINGS AND SPECIFICATIONS FOR DOOR/FRAME DETAILS AND HARDWARE SETS.
2. COORDINATE ELECTRICAL HARDWARE REQUIREMENTS WITH HARDWARE SUPPLIER.
3. COORDINATE WIRING THROUGH FRAMES WITH DOOR AND FRAME INSTALLATION.
4. REQUEST TO EXIT (REX) DEVICE INTEGRAL TO HARDWARE. ELECTRIC HINGE/POWER TRANSFER DEVICE AND WIRING HARNESSES PROVIDED WITH HARDWARE. COORDINATE CONNECTIONS WITH HARDWARE INSTALLATION.
5. RECESSED MAGNETIC CONTACTS, COORDINATE WITH FRAME INSTALLATION. PROVIDE DPDT DOOR CONTACTS FOR CONNECTION TO ACCESS CONTROL SYSTEM AND INTRUSION ALARM SYSTEM WITH SEPARATE SIGNALS. PROVIDE WIRING FROM DOOR CONTACTS TO INTRUSION/ SECURITY SYSTEM PANEL IN LOCATION INDICATED ON FLOOR PLANS.
6. PROVIDE COMPOSITE WIRING TO EXISTING ACCESS CONTROLLER IN LOCATION INDICATED ON FLOOR PLANS. WIRING TO ACCESS CONTROL PANEL ABOVE ACCESSIBLE CEILINGS MAY BE INSTALLED SUPPORTED BY J-HOOKS. ALL EXPOSED WIRING DOWN TO ACCESS CONTROL PANELS SHALL BE INSTALLED IN CONDUIT. ALL WIRING SHALL BE PLENUM RATED.
7. COORDINATE WIRING THROUGH HOLLOW FRAMES AND STOREFRONT CHANNELS WITH THE FRAME/STOREFRONT INSTALLATION. WHERE CALLED FOR TO WIRE DEVICES "THROUGH THE FRAME IN CONDUIT", LOOSE WIRING IN THE FRAME CHANNELS IS ACCEPTABLE.
8. COORDINATE EXACT LOCATION OF CARD READER WITH FIELD CONDITIONS AND ARCHITECTURAL ELEVATIONS PRIOR TO INSTALLATION.

5 TYPICAL SINGLE DOOR CARD ACCESS WIRING REQUIREMENTS
NTS



NOTES
1. TYPICAL DOUBLE DOOR SHOWN WITH ELECTRIFIED PANIC HARDWARE CONTROLLING EACH LEAF. SEE DRAWINGS AND SPECIFICATIONS FOR DOOR/FRAME DETAILS AND HARDWARE SETS.
2. COORDINATE ELECTRICAL HARDWARE REQUIREMENTS WITH HARDWARE SUPPLIER.
3. COORDINATE WIRING THROUGH FRAMES WITH DOOR AND FRAME INSTALLATION.
4. REQUEST TO EXIT (REX) DEVICE INTEGRAL TO HARDWARE. ELECTRIC HINGE/POWER TRANSFER DEVICE AND WIRING HARNESSES PROVIDED WITH HARDWARE. COORDINATE CONNECTIONS WITH HARDWARE INSTALLATION.
5. RECESSED MAGNETIC CONTACTS, COORDINATE WITH FRAME INSTALLATION. PROVIDE DPDT DOOR CONTACTS FOR CONNECTION TO ACCESS CONTROL SYSTEM AND INTRUSION ALARM SYSTEM WITH SEPARATE SIGNALS. PROVIDE WIRING FROM DOOR CONTACTS TO INTRUSION/ SECURITY SYSTEM PANEL IN LOCATION INDICATED ON FLOOR PLANS.
6. PROVIDE COMPOSITE WIRING TO EXISTING ACCESS CONTROLLER IN LOCATION INDICATED ON FLOOR PLANS. WIRING TO ACCESS CONTROL PANEL ABOVE ACCESSIBLE CEILINGS MAY BE INSTALLED SUPPORTED BY J-HOOKS. ALL EXPOSED WIRING DOWN TO ACCESS CONTROL PANELS SHALL BE INSTALLED IN CONDUIT. ALL WIRING SHALL BE PLENUM RATED.
7. COORDINATE WIRING THROUGH HOLLOW FRAMES AND STOREFRONT CHANNELS WITH THE FRAME/STOREFRONT INSTALLATION. WHERE CALLED FOR TO WIRE DEVICES "THROUGH THE FRAME IN CONDUIT", LOOSE WIRING IN THE FRAME CHANNELS IS ACCEPTABLE.
8. COORDINATE EXACT LOCATION OF CARD READER WITH FIELD CONDITIONS AND ARCHITECTURAL ELEVATIONS PRIOR TO INSTALLATION.

6 TYPICAL DOUBLE DOOR CARD ACCESS WIRING REQUIREMENTS
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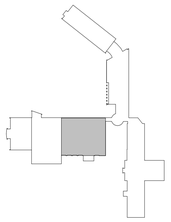


KEY PLAN

STATE PROJECT NO:
056-0052 A

BID SET
01/7/2022

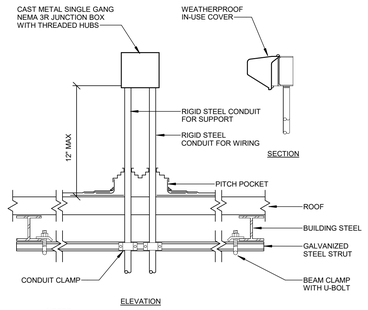
N
ACTUAL NORTH

STATE OF CONNECTICUT
DOUGLAS S. LAMB
20909
LICENSED
PROFESSIONAL ENGINEER

ELECTRICAL DETAILS

Scale: AS NOTED
Job No.: 2021218.00
Drawn By: CES
Date: 1/7/2022

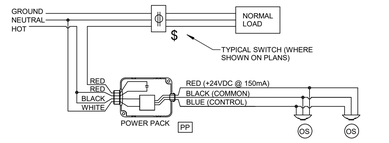
E500



NOTES:

1. WHERE APPLICABLE MOUNT ROOF RECEPTACLE TO MECHANICAL EQUIPMENT ENCLOSURES.
2. COORDINATE WITH ROOFING CONTRACTOR FOR ALL ROOF PENETRATIONS AND SEALING TO MAINTAIN ROOF WARRANTY

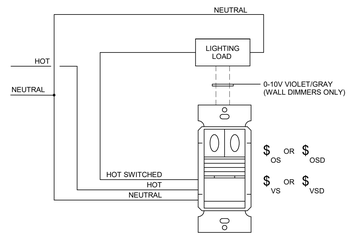
1 ROOF MOUNTED RECEPTACLE DETAIL
NTS



SEQUENCE OF OPERATIONS:

1. AUTO-ON WHEN OCCUPANCY IS DETECTED BY CEILING SENSOR(S). REFER TO FLOOR PLANS FOR QUANTITY AND LOCATIONS.
2. AUTO-OFF AFTER 20 MINUTES OF UNOCCUPIED SPACE.
3. MANUAL ON-OFF CONTROL OF ALL FIXTURES BY KEY SWITCHES, WHERE INDICATED ON PLANS.
4. REFER TO LIGHTING CONTROL SPECIFICATION FOR ADDITIONAL INFORMATION.

2 TYPICAL STANDALONE OCCUPANCY SENSOR DETAIL
NTS



TYPICAL WALL SENSOR SWITCH

NOTES:

1. REFER TO MANUFACTURERS WIRING DIAGRAM FOR EXACT WIRING DETAIL.
2. WIRE IN SERIES WITH THREE-WAY SWITCH, WHERE INDICATED ON PLANS.
3. PROVIDE 0-10V WIRING FROM WALL DIMMERS, WHERE INDICATED ON PLANS.
4. LIGHTING SHALL TIME OUT AFTER 20 MINUTES.
5. REFER TO LIGHTING CONTROL SPECIFICATION FOR ADDITIONAL INFORMATION.

TYPICAL SPECIFICATIONS:

1. "OS" OCCUPANCY SENSOR SWITCH: (SET TO AUTO-ON, AUTO-OFF MODE)
2. "OSD" OCCUPANCY SENSOR 0-10V DIMMER: (SET TO AUTO-ON, AUTO-OFF MODE)
3. "VS" VACANCY SENSOR SWITCH: (SET TO MANUAL-ON, AUTO-OFF MODE)
4. "VSD" VACANCY SENSOR 0-10V DIMMER: (SET TO MANUAL-ON, AUTO-OFF MODE)

3 TYPICAL LINE VOLTAGE SENSOR SWITCH DETAIL
NTS

SEQUENCE OF OPERATIONS:

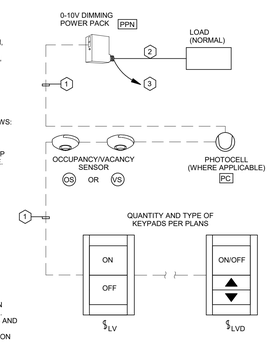
1. ROOM OCCUPANCY SENSORS SHALL BE SET FOR AUTO ON, AUTO OFF OPERATION. TIMEOUT AFTER 20 MINUTES.
2. ROOM VACANCY SENSORS SHALL BE SET FOR MANUAL ON, AUTO OFF OPERATION. TIMEOUT AFTER 20 MINUTES.
3. MANUAL-ON/OFF VIA LOCAL "LV" AND "LVD" KEYPADS.
4. 3-BUTTON "LVD" KEYPAD(S) TO BE PROGRAMMED AS FOLLOWS:
   - BUTTON 1: "ON/OFF": TURN ALL LIGHTS ON/OFF
   - BUTTON 2: "▲": PRESS TO RAISE ALL LIGHTS
   - BUTTON 3: "▼": PRESS TO LOWER ALL LIGHTS
5. 2-BUTTON "LV" KEYPAD(S) TO BE PROGRAMMED AS FOLLOWS:
   - BUTTON 1: "ON": TOGGLE ALL LIGHTS ON
   - BUTTON 2: "OFF": TOGGLE ALL LIGHTS OFF
6. WHERE PHOTOCELL IS INDICATED ON PLANS, ZONE SHALL HAVE AUTOMATIC DIMMING VIA PHOTOCELL AND SHALL CAP MAXIMUM LIGHT LEVEL OF 40 FOOT-CANDLES IN THIS ZONE.

WIRING LEGEND:

1. CAT.5E
2. 2#12 + #12G (SWITCHED HOT/NEUTRAL) AND 2#18 AWG (0-10V +/-)
3. 2#12 + #12 GND. TO NORMAL POWER FEED INDICATED ON FLOOR PLANS.

GENERAL NOTES:

1. BASIS OF DESIGN IS ACUITY NLIGHT.
2. PROVIDE FACTORY COMMISSIONING OF ALL SENSORS, PHOTOCELLS AND CONTROLS.
3. REFER TO FLOOR PLANS FOR EXACT LIGHTING FIXTURES ON EACH ZONE, AND QUANTITY AND LOCATION OF ALL DEVICES.
4. FINISHES AND COLORS OF ALL LIGHTING CONTROL DEVICES AND SWITCH PLATES SHALL BE SELECTED BY ARCHITECT.
5. SENSORS SHALL BE PROVIDED WITH AUXILIARY RELAY OPTION FOR CONNECTION TO BMS BY DIVISION 23 CONTRACTOR.
6. REFER TO LIGHTING CONTROL SPECIFICATION FOR ADDITIONAL INFORMATION.



4 TYPICAL 1-ZONE LIGHTING CONTROL DETAIL
NTS

GENERAL NOTES:

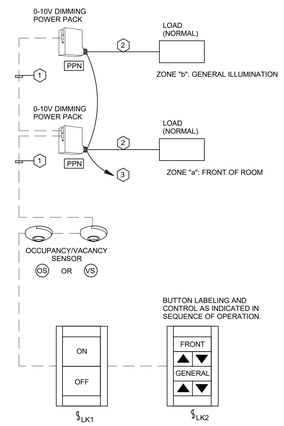
1. BASIS OF DESIGN IS ACUITY NLIGHT.
2. PROVIDE FACTORY ENGRAVING ON ALL WALL SWITCHES AND ROOM CONTROLLER BUTTONS AS INDICATED IN THIS DETAIL.
3. PROVIDE FACTORY COMMISSIONING OF ALL SENSORS, PHOTOCELLS AND CONTROLS.
4. REFER TO FLOOR PLANS FOR EXACT LIGHTING FIXTURES ON EACH ZONE, AND QUANTITY AND LOCATION OF ALL DEVICES.
5. FINISHES AND COLORS OF ALL LIGHTING CONTROL DEVICES AND SWITCH PLATES SHALL BE SELECTED BY ARCHITECT.
6. SENSORS SHALL BE PROVIDED WITH AUXILIARY RELAY OPTION FOR CONNECTION TO BMS BY DIVISION 23 CONTRACTOR.
7. REFER TO LIGHTING CONTROL SPECIFICATION FOR ADDITIONAL INFORMATION.

SEQUENCE OF OPERATIONS:

1. SUGGESTED LABELING SHOWN. SUBMIT TO OWNER FOR APPROVAL PRIOR TO ORDERING.
2. ROOM OCCUPANCY SENSORS SHALL BE SET FOR AUTO ON, AUTO OFF OPERATION. TIMEOUT AFTER 20 MINUTES.
3. ROOM VACANCY SENSORS SHALL BE SET FOR MANUAL ON, AUTO OFF OPERATION. TIMEOUT AFTER 20 MINUTES.
4. 6-BUTTON "LK2" KEYPAD(S) TO BE PROGRAMMED AS FOLLOWS:
   - "FRONT": ZONE "a" ON/OFF CONTROL
   - "▲/▼ ": ZONE "a" RAISE/LOWER CONTROL
   - "GENERAL": ZONE "b" ON/OFF CONTROL
   - "▲/▼ ": ZONE "b" RAISE/LOWER CONTROL
5. 2-BUTTON "LK1" KEYPAD(S) TO BE PROGRAMMED AS FOLLOWS:
   - BUTTON 1: "ON": TURN ALL LIGHTS ON
   - BUTTON 2: "OFF": TURN ALL LIGHTS OFF

WIRING LEGEND:

1. CAT.5E
2. 2#12 + #12G (SWITCHED HOT/NEUTRAL) AND 2#18 AWG (0-10V +/-)
3. 2#12 + #12 GND. TO NORMAL POWER FEED INDICATED ON FLOOR PLANS.



5 TYPICAL 2-ZONE LIGHTING CONTROL DETAIL
NTS

GENERAL NOTES:

1. BASIS OF DESIGN IS ACUITY NLIGHT.
2. PROVIDE FACTORY ENGRAVING ON ALL WALL SWITCHES AND ROOM CONTROLLER BUTTONS AS INDICATED IN THIS DETAIL.
3. PROVIDE FACTORY COMMISSIONING OF ALL SENSORS, PHOTOCELLS AND CONTROLS.
4. REFER TO FLOOR PLANS FOR EXACT LIGHTING FIXTURES ON EACH ZONE, AND QUANTITY AND LOCATION OF ALL DEVICES.
5. FINISHES AND COLORS OF ALL LIGHTING CONTROL DEVICES AND SWITCH PLATES SHALL BE SELECTED BY ARCHITECT.
6. SENSORS SHALL BE PROVIDED WITH AUXILIARY RELAY OPTION FOR CONNECTION TO BMS BY DIVISION 23 CONTRACTOR.
7. REFER TO LIGHTING CONTROL SPECIFICATION FOR ADDITIONAL INFORMATION.

SEQUENCE OF OPERATIONS:

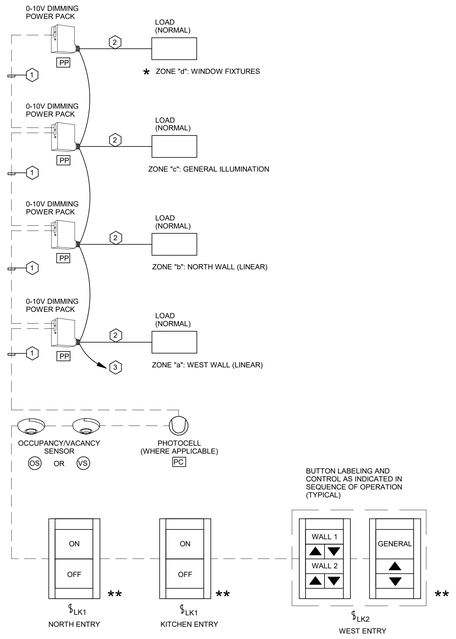
1. SUGGESTED LABELING SHOWN. SUBMIT TO OWNER FOR APPROVAL PRIOR TO ORDERING.
2. ROOM OCCUPANCY SENSORS SHALL BE SET FOR AUTO ON, AUTO OFF OPERATION. TIMEOUT AFTER 20 MINUTES.
3. ROOM VACANCY SENSORS SHALL BE SET FOR MANUAL ON, AUTO OFF OPERATION. TIMEOUT AFTER 20 MINUTES.
4. "LK2" STATION SHALL CONSIST OF TWO KEYPAD(S) TO BE PROGRAMMED AS FOLLOWS:
   - KEYPAD 1, "WALL 1": ZONE "a" ON/OFF CONTROL
   - KEYPAD 1, "▲/▼": ZONE "a" RAISE/LOWER
   - KEYPAD 1, "WALL 2": ZONE "b" ON/OFF CONTROL
   - KEYPAD 1, "▲/▼": ZONE "b" RAISE/LOWER
   - KEYPAD 2, "GENERAL": ZONES "c" & "d" ON/OFF CONTROL
   - KEYPAD 2, "▲/▼": ZONES "c" & "d" RAISE/LOWER
5. EACH OF TWO 2-BUTTON "LK1" KEYPAD(S) TO BE PROGRAMMED AS FOLLOWS:
   - BUTTON 1: "ON": TURN ALL LIGHTS ON
   - BUTTON 2: "OFF": TURN ALL LIGHTS OFF

★ ZONE SHALL HAVE AUTOMATIC DIMMING VIA PHOTOCELL. PHOTOCELL SHALL CAP MAXIMUM LIGHT LEVEL OF 50 FOOT-CANDLES IN THIS ZONE.

★★ PROVIDE KEYPAD WITH SEE-THROUGH KEYED FLIP UP THERMOSTAT COVER. GRAINGER #2E379 OR EQUAL

WIRING LEGEND:

1. CAT.5E
2. 2#12 + #12G (SWITCHED HOT/NEUTRAL) AND 2#18 AWG (0-10V +/-)
3. 2#12 + #12 GND. TO NORMAL POWER FEED INDICATED ON FLOOR PLANS.



6 CAFETERIA LIGHTING CONTROL DETAIL
NTS

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DRA

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Planning Architecture Interior Design

GRANBY MEMORIAL HIGH SCHOOL

GRANBY, CT

SCHOOL RENOVATIONS

CES
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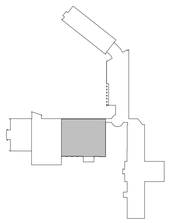


KEY PLAN

STATE PROJECT NO:
056-0052 A

BID SET

01/7/2022

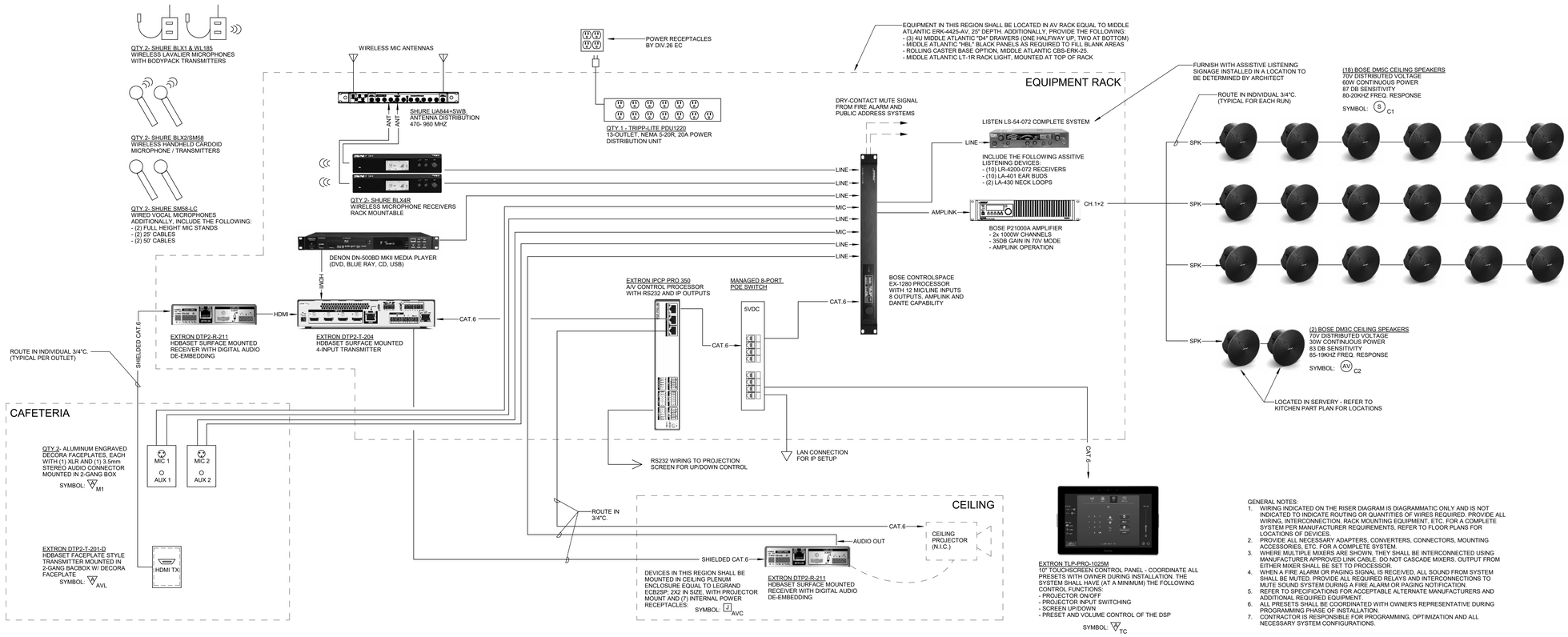
N
ACTUAL NORTH

STATE OF CONNECTICUT
DOUGLAS S. FAUBERT
20909
LICENSED
PROFESSIONAL ENGINEER

ELECTRICAL DETAILS

Scale: AS NOTED
Job No.: 2021218.00
Drawn By: CES
Date: 1/7/2022

E501



GENERAL NOTES:

1. WIRING INDICATED ON THE RISER DIAGRAM IS DIAGRAMMATIC ONLY AND IS NOT INDICATED TO INDICATE ROUTING OR QUANTITIES OF WIRES REQUIRED. PROVIDE ALL WIRING, INTERCONNECTION, RACK MOUNTING EQUIPMENT, ETC. FOR A COMPLETE SYSTEM PER MANUFACTURER REQUIREMENTS, REFER TO FLOOR PLANS FOR LOCATIONS OF DEVICES.
2. PROVIDE ALL NECESSARY ADAPTERS, CONVERTERS, CONNECTORS, MOUNTING ACCESSORIES, ETC. FOR A COMPLETE SYSTEM.
3. WHERE MULTIPLE MIXERS ARE SHOWN, THEY SHALL BE INTERCONNECTED USING MANUFACTURER APPROVED LINK CABLE. DO NOT CASCADE MIXERS. OUTPUT FROM EITHER MIXER SHALL BE SET TO PROCESSOR.
4. WHEN A FIRE ALARM OR PAGING SIGNAL IS RECEIVED, ALL SOUND FROM SYSTEM SHALL BE MUTED. PROVIDE ALL REQUIRED RELAYS AND INTERCONNECTIONS TO MUTE SOUND SYSTEM DURING A FIRE ALARM OR PAGING NOTIFICATION.
5. REFER TO SPECIFICATIONS FOR ACCEPTABLE ALTERNATE MANUFACTURERS AND ADDITIONAL REQUIRED EQUIPMENT.
6. ALL PRESETS SHALL BE COORDINATED WITH OWNER'S REPRESENTATIVE DURING PROGRAMMING PHASE OF INSTALLATION.
7. CONTRACTOR IS RESPONSIBLE FOR PROGRAMMING, OPTIMIZATION AND ALL NECESSARY SYSTEM CONFIGURATIONS.

1 CAFETERIA AUDIO-VISUAL SYSTEM DETAIL
NTS

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KEY PLAN

STATE PROJECT NO:
056-0052 A

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01/7/2022

N
ACTUAL NORTH

STATE OF CONNECTICUT
DOUGLAS S. JONES
20909
LICENSED
PROFESSIONAL ENGINEER

ELECTRICAL DETAILS

Scale: AS NOTED
Job No.: 2021218.00
Drawn By: CES
Date: 1/7/2022

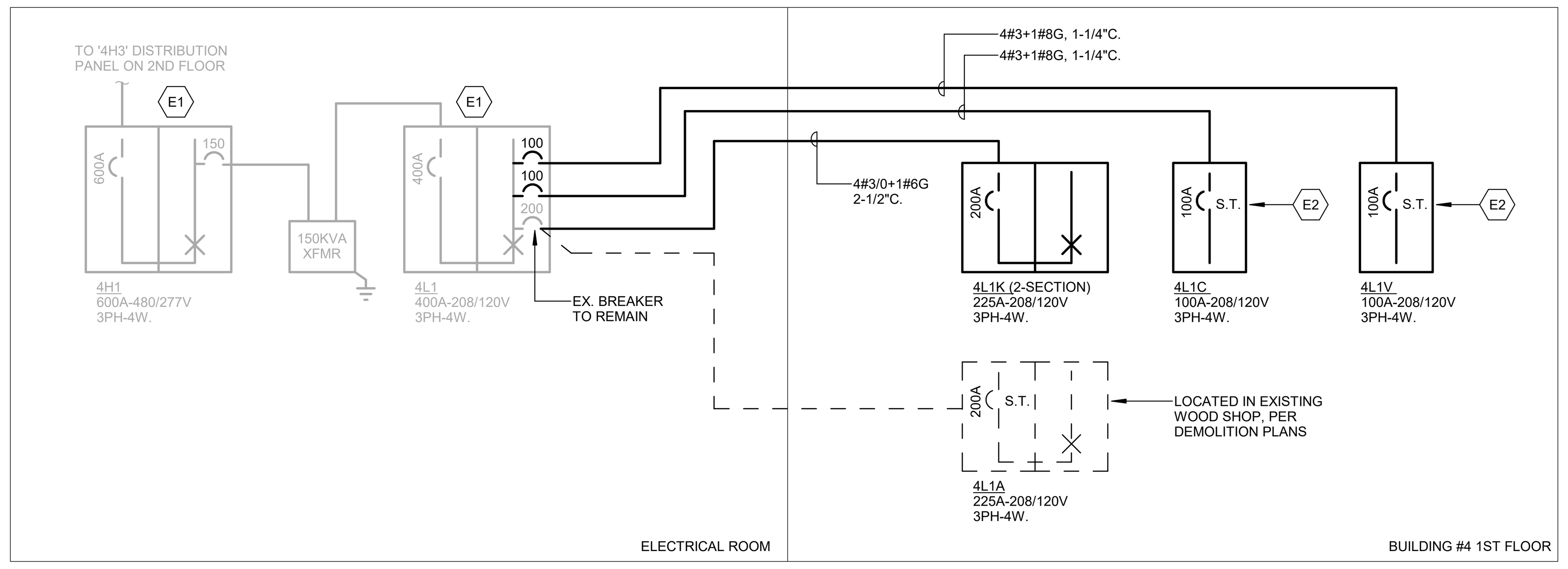
E502

LINE TYPE LEGEND

———	NEW WORK
— — —	DEMOLITION
——— (grey)	EXISTING TO REMAIN

KEY NOTES

- E1 — EXISTING PANELBOARD SHALL BE USED TO FEED NEW BRANCH CIRCUITS. UTILIZE EXISTING BRANCH BREAKERS WHERE MADE AVAILABLE DURING DEMOLITION. WHERE NEW BREAKERS ARE REQUIRED, PROVIDE BREAKERS WITH KAIC RATINGS TO MATCH EXISTING PANELBOARD.
- E2 — PROVIDE MAIN CIRCUIT BREAKER WITH 120VAC SHUNT TRIP ACCESSORY FOR CONNECTIONS TO FUTURE EPO/SHUTOFF SYSTEM.



(1) PARTIAL ELECTRICAL RISER DIAGRAM
NTS

MOTOR / EQUIPMENT CIRCUIT SCHEDULE

EQUIPMENT	OCPD	PANEL	LOAD					LOCAL DISC. SW	MOTOR STARTER			WIRING	REMARKS
			HP	MCA	KW	PH	VOLT		SIZE	TYPE	LOCATION		
KEF-1 (ON ROOF)	20A-3P	4L1K	3	-	-	3	208	30A-3P	-	VFD	HOOD	3#10, #10G, 3/4"C	1
KEF-2 (ON ROOF)	20A-3P	4L1K	1 1/2	-	-	3	208	30A-3P	-	VFD	HOOD	3#10, #10G, 3/4"C	1
KEF-3 (IN KITCHEN)	20A-2P	4L1K	3/4	-	-	1	208	MAN	-	SPC	AT UNIT	2#12, #12G, 3/4"C	2
EF-1 (IN KITCHEN)	20A-1P	4L1K	1/8	-	-	1	120	MAN	-	SPC	AT UNIT	2#12, #12G, 3/4"C	

GENERAL NOTES:

1. DISCONNECT SWITCHES SHALL BE HEAVY-DUTY TYPE AND SHALL BE LOCATED AT EQUIPMENT LOCATION UNLESS OTHERWISE NOTED.
2. ABBREVIATIONS:
   - MAN: MANUAL STARTER (TOGGLE SWITCH WITH THERMAL OVERLOADS)
   - FVNR: COMBINATION FULL VOLTAGE NON-REVERSING STARTER/ DISCONNECT SWITCH
   - VFD: VARIABLE FREQUENCY DRIVE, FURNISHED BY DIV. 23, WIRED BY DIV. 26. PROVIDE POWER WIRING FROM SOURCE PANELBOARD TO VFD AND FROM VFD TO MOTOR(S). COORDINATE EXACT LOCATION IN FIELD WITH DIV.23.
   - DIV.21: EQUIPMENT FURNISHED BY DIVISION 21 FIRE PROTECTION CONTRACTOR
   - DIV.22: EQUIPMENT FURNISHED BY DIVISION 22 PLUMBING CONTRACTOR
   - DIV.23: EQUIPMENT FURNISHED BY DIVISION 23 HVAC CONTRACTOR
   - SPC: SINGLE POINT CONNECTION (STARTERS INTEGRAL TO EQUIPMENT). COORDINATE EXACT POINT OF CONNECTION IN FIELD.
3. OVERCURRENT PROTECTION DEVICES (OCPD) SHALL BE MOLDED CASE CIRCUIT BREAKERS UNLESS NOTED WITH AN "F" FOR FUSE.
4. DISCONNECT SWITCHES AND STARTERS SHALL BE NEMA 3R RATED WHEN LOCATED OUTSIDE.
5. REFER TO PANEL SCHEDULES FOR SOURCE PANEL/ CIRCUIT INFORMATION.
6. REFER TO ELECTRICAL AND MECHANICAL PLANS FOR EXACT LOCATIONS OF EQUIPMENT.
7. STARTERS SHALL BE SQUARE D CLASS 8536 OR APPROVED EQUAL.

REFERENCED REMARKS:

1. VFD FURNISHED AND INSTALLED BY KITCHEN EQUIPMENT CONTRACTOR. PROVIDE POWER WIRING FROM SOURCE PANEL TO VFD, AND FROM VFD TO MOTOR(S). PROVIDE CONTROL WIRING PER KITCHEN EQUIPMENT SCHEDULE INTERWIRING NOTES.
2. PROVIDE POWER WIRING DIRECTLY TO FAN ECM MOTOR. PROVIDE CONTROL WIRING FROM DISHWASHER TO FAN, PER KITCHEN EQUIPMENT SCHEDULE INTERWIRING NOTES.

Branch Panel: 4H1

Location: ELECTRICAL ROOM **Supply From:** 4H3 **Mounting:** Surface **Enclosure:** Type 1
Volts: 480/277 Wye **Phases:** 3 **Wires:** 4
A.I.C. Rating: 22 KAIC **Bus Material:** CU **Bus Rating:** 600 A **MCB Rating / MLO:** 600A MCB

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	T-4L1	150 A	3	35.59	18.81					3	90 A	KITCHEN DISHWASHER	2
3	--	--	--			34.76	18.81			--	--	--	4
5	--	--	--					32.53	18.81	--	--	--	6
7	LTG - WEST CORRIDOR	20 A	1	0.49	2.14					1	20 A	LTG - MUSIC CLASSROOMS	8
9	LTG - CAFETERIA	20 A	1			2.39	1.39			1	20 A	LTG - KITCHEN	10
11	LTG - VO-TECH	20 A	1					1.10	0.00	--	--	EXISTING CIRCUITS	12
13	EXISTING CIRCUITS	--	--	0.00	0.00					--	--	EXISTING CIRCUITS	14
15	EXISTING CIRCUITS	--	--			0.00	0.00			--	--	EXISTING CIRCUITS	16
17	EXISTING CIRCUITS	--	--					0.00	0.00	--	--	EXISTING CIRCUITS	18
19	EXISTING CIRCUITS	--	--	0.00	0.00					--	--	EXISTING CIRCUITS	20
21	EXISTING CIRCUITS	--	--			0.00	0.00			--	--	EXISTING CIRCUITS	22
23	EXISTING CIRCUITS	--	--					0.00	0.00	--	--	EXISTING CIRCUITS	24
25	EXISTING CIRCUITS	--	--	0.00	0.00					--	--	EXISTING CIRCUITS	26
27	EXISTING CIRCUITS	--	--			0.00	0.00			--	--	EXISTING CIRCUITS	28
29	EXISTING CIRCUITS	--	--					0.00	0.00	--	--	EXISTING CIRCUITS	30
31	EXISTING CIRCUITS	--	--	0.00	0.00					--	--	EXISTING CIRCUITS	32
33	EXISTING CIRCUITS	--	--			0.00	0.00			--	--	EXISTING CIRCUITS	34
35	EXISTING CIRCUITS	--	--					0.00	0.00	--	--	EXISTING CIRCUITS	36
37	EXISTING CIRCUITS	--	--	0.00	0.00					--	--	EXISTING CIRCUITS	38
39	EXISTING CIRCUITS	--	--			0.00	0.00			--	--	EXISTING CIRCUITS	40
41	EXISTING CIRCUITS	--	--					0.00	0.00	--	--	EXISTING CIRCUITS	42
			Phase Load:	57.03 kVA		57.35 kVA		52.39 kVA					
			Phase...	208.5 A		209.6 A		189.1 A					
			Total Load:	166.77 kVA									
			Total Amps:	200.59 A									

Notes:
EXISTING PANELBOARD TO REMAIN - REFER TO NOTES ON ELECTRICAL RISER DIAGRAM FOR ADDITIONAL INFORMATION.
EXISTING CIRCUIT BREAKERS TO REMAIN ARE NOT NOTED IN THIS PANELBOARD SCHEDULE. EC IS RESPONSIBLE FOR FIELD VERIFYING EXISTING...

Branch Panel: 4L1

Location: ELECTRICAL ROOM **Supply From:** T-4L1 **Mounting:** Surface **Enclosure:** Type 1
Volts: 120/208 Wye **Phases:** 3 **Wires:** 4
A.I.C. Rating: 22 KAIC **Bus Material:** CU **Bus Rating:** 400 A **MCB Rating / MLO:** 400A MCB

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	4L1K (EX. BKR TO REMAIN)	200 A	3	26.62	1.62					3	100 A	4L1C	2
3	--	--	--			27.81	0.50			--	--	--	4
5	--	--	--					25.72	0.00	--	--	--	6
7	4L1V	100 A	3	3.75	0.72					1	20 A	RCPT - 108	8
9	--	--	--			3.39	0.00			--	--	EXISTING CIRCUITS	10
11	--	--	--					3.39	1.08	1	20 A	RCPT - 100,110	12
13	RCPT - 113	20 A	1	1.08	0.72					1	20 A	RCPT - 112	14
15	RCPT - 107	20 A	1			0.90	1.08			1	20 A	RCPT - 107	16
17	RCPT - 101	20 A	1					0.90	0.00	--	--	EXISTING CIRCUITS	18
19	RCPT - 101	20 A	1	0.90	0.00					--	--	EXISTING CIRCUITS	20
21	EXISTING CIRCUITS	--	--			0.00	0.00			--	--	EXISTING CIRCUITS	22
23	RCPT - AV CLOSET	20 A	1					0.36	1.08	1	20 A	RCPT - 101,102	24
25	PROJECTOR - 101	20 A	1	0.18	0.00					1	20 A	PROJECTOR SCREEN - 101	26
27	RCPT - 113	20 A	1			1.08	0.00			--	--	EXISTING CIRCUITS	28
29	EXISTING CIRCUITS	--	--					0.00	0.00	--	--	EXISTING CIRCUITS	30
31	EXISTING CIRCUITS	--	--	0.00	0.00					--	--	EXISTING CIRCUITS	32
33	EXISTING CIRCUITS	--	--			0.00	0.00			--	--	EXISTING CIRCUITS	34
35	EXISTING CIRCUITS	--	--					0.00	0.00	--	--	EXISTING CIRCUITS	36
37	EXISTING CIRCUITS	--	--	0.00	0.00					--	--	EXISTING CIRCUITS	38
39	EXISTING CIRCUITS	--	--			0.00	0.00			--	--	EXISTING CIRCUITS	40
41	EXISTING CIRCUITS	--	--					0.00	0.00	--	--	EXISTING CIRCUITS	42
43	EXISTING CIRCUITS	--	--	0.00	0.00					--	--	EXISTING CIRCUITS	44
45	EXISTING CIRCUITS	--	--			0.00	0.00			--	--	EXISTING CIRCUITS	46
47	EXISTING CIRCUITS	--	--					0.00	0.00	--	--	EXISTING CIRCUITS	48
49	EXISTING CIRCUITS	--	--	0.00	0.00					--	--	EXISTING CIRCUITS	50
51	EXISTING CIRCUITS	--	--			0.00	0.00			--	--	EXISTING CIRCUITS	52
53	EXISTING CIRCUITS	--	--					0.00	0.00	--	--	EXISTING CIRCUITS	54
55	EXISTING CIRCUITS	--	--	0.00	0.00					--	--	EXISTING CIRCUITS	56
57	EXISTING CIRCUITS	--	--			0.00	0.00			--	--	EXISTING CIRCUITS	58
59	EXISTING CIRCUITS	--	--					0.00	0.00	--	--	EXISTING CIRCUITS	60
61	EXISTING CIRCUITS	--	--	0.00	0.00					--	--	EXISTING CIRCUITS	62
63	EXISTING CIRCUITS	--	--			0.00	0.00			--	--	EXISTING CIRCUITS	64
65	EXISTING CIRCUITS	--	--					0.00	0.00	--	--	EXISTING CIRCUITS	66
67	EXISTING CIRCUITS	--	--	0.00	0.00					--	--	EXISTING CIRCUITS	68
69	EXISTING CIRCUITS	--	--			0.00	0.00			--	--	EXISTING CIRCUITS	70
71	EXISTING CIRCUITS	--	--					0.00	0.00	--	--	EXISTING CIRCUITS	72
			Phase Load:	35.59 kVA		34.76 kVA		32.53 kVA					
			Phase...	299.5 A		292.5 A		271.1 A					
			Total Load:	102.88 kVA									
			Total Amps:	285.56 A									

Notes:
EXISTING PANELBOARD TO REMAIN - REFER TO NOTES ON ELECTRICAL RISER DIAGRAM FOR ADDITIONAL INFORMATION.
EXISTING CIRCUIT BREAKERS TO REMAIN ARE NOT NOTED IN THIS PANELBOARD SCHEDULE. EC IS RESPONSIBLE FOR FIELD VERIFYING EXISTING...

Branch Panel: 4L1K

Location: KITCHEN 104 **Supply From:** 4L1 **Mounting:** Surface **Enclosure:** Type 1
Volts: 120/208 Wye **Phases:** 3 **Wires:** 4
A.I.C. Rating: 22 KAIC **Bus Material:** CU **Bus Rating:** 225 A **MCB Rating / MLO:** 200A MCB

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	WASHER	20 A	1	1.00	2.40					2	30 A	DRYER	2
3	10A - WALK-IN COOLER	20 A	1			1.10	2.40			--	--	--	4
5	11A - WALK-IN FREEZER	20 A	1					1.30	0.24	1	20 A	11B - FREEZER HEAT TRACE	6
7	12A - COOLER EVAP COIL	20 A	2	0.10	0.95					2	20 A	12C - FREEZER EVAP COIL	8
9	--	--	--			0.10	0.95			--	--	--	10
11	12B - COOLER CONDENSER	20 A	3					0.62	1.16	3	20 A	12D - FREEZER CONDENSER	12
13	--	--	--	0.62	1.16					--	--	--	14
15	--	--	--			0.62	1.16			--	--	--	16
17	19 - ICE CUBER	20 A	2					0.57	0.50	1	20 A	23 - PREP TABLE RCPT	18
19	--	--	--	0.57	1.44					1	20 A	25 - FOOD PROCESSOR	20
21	30 - DROP CORD ASSEMBLY	20 A	1			0.50	0.50			1	20 A	31 - ADA PREP TABLE RCPT	22
23	31 - ADA PREP TABLE RCPT	20 A	1					0.50	0.96	1	20 A	37 - CONVECTION OVEN	24
25	37 - CONVECTION OVEN	20 A	1	0.96	0.00					--	--	SHUNT TRIP ACCESSORY	26
27	SHUNT TRIP ACCESSORY	--	--			0.00	0.96			1	20 A	37 - CONVECTION OVEN	28
29	37 - CONVECTION OVEN	20 A	1					0.96	0.00	--	--	SHUNT TRIP ACCESSORY	30
31	SHUNT TRIP ACCESSORY	--	--	0.00	0.60					1	20 A	38 - BRAISING PAN	32
33	40 - FOUR BURNER RANGE	20 A	1			0.10	0.00			--	--	SHUNT TRIP ACCESSORY	34
35	SHUNT TRIP ACCESSORY	--	--					0.00	0.60	1	15 A	45 - DCV SYSTEM (MAIN HOOD)	36
37	44 - ANSUL SYSTEM	20 A	1	0.60	0.60					1	20 A	46 - ANSUL SYSTEM	38
39	47 - DCV SYSTEM (SERVERY HOOD)	20 A	1			0.60	0.50			1	20 A	49 - COOK'S TABLE RCPT	40
41	49 - COOK'S TABLE RCPT	20 A	1					0.50	0.50	1	20 A	49 - COOK'S TABLE RCPT	42
43	51 - WORK TABLE RCPT	20 A	1	0.50	0.67					1	20 A	54 - SLICER	44
45	55 - 20QT MIXER	20 A	1			0.96	1.35			2	20 A	56 - PASS-THRU WARM CABINET	46
47	57 - PASS-THRU REFRIG.	20 A	1					0.78	1.35	--	--	--	48
49	58 - WORK TABLE RCPT	20 A	1	0.50	0.50					1	20 A	58 - WORK TABLE RCPT	50
51	59 - PASS THRU WARM CABINET	20 A	2			0.66	0.78			1	20 A	60 - PASS-THRU REFRIG.	52
53	--	--	--					0.66	0.50	1	20 A	62 - DELI TABLE RCPT	54
55	63 - DELI TABLE REFRIG.	20 A	1	0.65	1.20					1	20 A	65 - HOT FOOD WELL	56
57	66 - FROST TOP	20 A	1			0.45	1.80			1	20 A	69 - TWO-TIER DISPLAY SHELF	58
59	75 - BLACK GLASS SURFACE	20 A	1					0.85	0.50	1	20 A	68 - HOT COUNTER RCPT	60
61	68 - HOT COUNTER RCPT	20 A	1	0.50	6.00					3	50 A	70 - ELEC GRIDDLE	62
63	72 - HOT FOOD WELLS	30 A	2			1.80	6.00			--	--	--	64
65	--	--	--					1.80	6.00	--	--	--	66
67	76 - FOOD PROTECTOR	20 A	2	0.55	0.00					--	--	SHUNT TRIP ACCESSORY	68
69	--	--	--			0.55	0.40			1	20 A	78 - MILK COOLER	70
71	CASHIER FLOOR BOXES	20 A	1					0.72	0.94	2	15 A	79 - GRAB & GO REFRIG.	72
73	RCPT - KITCHEN CONV.	20 A	1	1.08	0.94					--	--	--	74
75	RCPT - KITCHEN CONV.	20 A	1			0.72	1.27			3	20 A	KEF-1	76
77	ROOFTOP RECEPTACLES	20 A	1					0.36	1.27	--	--	--	78
79	KEF-2	20 A	3	0.77	1.27					--	--	--	80
81	--	--	--			0.77	0.82			2	20 A	KEF-3	82
83	--	--	--					0.77	0.82	--	--	--	84
85	EF-1	20 A	1	0.50	0.00					1	20 A	SPARE	86
87	SPARE	20 A	1			0.00	0.00			1	20 A	SPARE	88
89	SPARE	20 A	1					0.00	0.00	1	20 A	SPARE	90
91	SPARE	20 A	1	0.00	0.00					1	20 A	SPARE	92
93	SPARE	20 A	1			0.00	0.00			1	20 A	SPARE	94
95	SPARE	20 A	1					0.00	0.00	1	20 A	SPARE	96
97	SPARE	20 A	1	0.00	0.00					1	20 A	SPARE	98
99	SPARE	20 A	1			0.00	0.00			1	20 A	SPARE	100
101	SPARE	20 A	1					0.00	0.00	1	20 A	SPARE	102
103	SPARE	20 A	1	0.00	0.00					1	20 A	SPARE	104
105	SPARE	20 A	1			0.00	0.00			1	20 A	SPARE	106
107	SPARE	20 A	1					0.00	0.00	1	20 A	SPARE	108
			Phase Load:	26.62 kVA		27.81 kVA		25.72 kVA					
			Phase...	223 A		232.9 A		214.3 A					
			Total Load:	80.16 kVA									
			Total Amps:	222.5 A									

Notes:
TWO 54-POLE SECTIONS

Branch Panel: 4L1V

Location: VOC TECH SHOP 117 **Supply From:** 4L1 **Mounting:** Surface **Enclosure:** Type 1
Volts: 120/208 Wye **Phases:** 3 **Wires:** 4
A.I.C. Rating: 22 KAIC **Bus Material:** CU **Bus Rating:** 100 A **MCB Rating / MLO:** 100A MCB (W/ SHUNT TRIP)

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	RCPT - 102,115,119	20 A	1	0.72	0.36					1	20 A	RCPT - 116	2
3	RCPT - VOC TECH	20 A	1			0.72	2.00			3	30 A	AIR COMPRESSOR	4
5	RCPT - VOC TECH	20 A	1					0.72	2.00	--	--	--	6
7	DUST COLLECTOR	20 A	3	0.67	2.00					--	--	--	8
9	--	--	--			0.67	0.00			1	20 A	SPARE	10
11	--	--	--					0.67	0.00	1	20 A	SPARE	12
13	SPARE	20 A	1	0.00	0.00					1	20 A	SPARE	14
15	SPARE	20 A	1			0.00	0.00			1	20 A	SPARE	16
17	SPARE	20 A	1					0.00	0.00	1	20 A	SPARE	18
19	SPARE	20 A	1	0.00	0.00					1	20 A	SPARE	20
21	SPARE	20 A	1			0.00	0.00			1	20 A	SPARE	22
23	SPARE	20 A	1					0.00	0.00	1	20 A	SPARE	24
25	SPARE	20 A	1	0.00	0.00					1	20 A	SPARE	26
27	SPARE	20 A	1			0.00	0.00			1	20 A	SPARE	28
29	SPARE	20 A	1					0.00	0.00	1	20 A	SPARE	30
31	SPARE	20 A	1	0.00	0.00					1	20 A	SPARE	32
33	SPARE	20 A	1			0.00	0.00			1	20 A	SPARE	34
35	SPARE	20 A	1					0.00	0.00	1	20 A	SPARE	36
37	SPARE	20 A	1	0.00	0.00					1	20 A	SPARE	38
39	SPARE	20 A	1			0.00	0.00			1	20 A	SPARE	40
41	SPARE	20 A	1					0.00	0.00	1	20 A	SPARE	42
43	SPARE	20 A	1	0.00	0.00					1	20 A	SPARE	44
45	SPARE	20 A	1			0.00	0.00			1	20 A	SPARE	46
47	SPARE	20 A	1					0.00	0.00	1	20 A	SPARE	48
49	SPARE	20 A	1	0.00	0.00					1	20 A	SPARE	50
51	SPARE	20 A	1			0.00	0.00			1	20 A	SPARE	52
53	SPARE	20 A	1					0.00	0.00	1	20 A	SPARE	54
			Phase Load:	3.75 kVA		3.39 kVA		3.39 kVA					
			Phase...	31.2 A		28.2 A		28.2 A					
			Total Load:	10.52 kVA									
			Total Amps:	29.2 A									

Notes:

Branch Panel: 4L1C

Location: CULINARY ARTS 118 **Supply From:** 4L1 **Mounting:** Surface **Enclosure:** Type 1
Volts: 120/208 Wye **Phases:** 3 **Wires:** 4
A.I.C. Rating: 22 KAIC **Bus Material:** CU **Bus Rating:** 100 A **MCB Rating / MLO:** 100A MCB (W/ SHUNT TRIP)

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	CULINARY RCPT	20 A	1	0.54	1.08					1	20 A	CULINARY OFFICE RCPT	2
3	EWC **GFCI BKR**	20 A	1			0.50	0.00			1	20 A	SPARE	4
5	SPARE	20 A	1					0.00	0.00	1	20 A	SPARE	6
7	SPARE	20 A	1	0.00	0.00					1	20 A	SPARE	8
9	SPARE	20 A	1			0.00	0.00			1	20 A	SPARE	10
11	SPARE	20 A	1					0.00	0.00	1	20 A	SPARE	12
13	SPARE	20 A	1	0.00	0.00					1	20 A	SPARE	14
15	SPARE	20 A	1			0.00	0.00			1	20 A	SPARE	16
17	SPARE	20 A	1					0.00	0.00	1	20 A	SPARE	18
19	SPARE	20 A	1	0.00	0.00					1	20 A	SPARE	20
21	SPARE	20 A	1			0.00	0.00			1	20 A	SPARE	22
23	SPARE	20 A	1					0.00	0.00	1	20 A	SPARE	24
25	SPARE	20 A	1	0.00	0.00					1	20 A	SPARE	26
27	SPARE	20 A	1			0.00	0.00			1	20 A	SPARE	28
29	SPARE	20 A	1					0.00	0.00	1	20 A	SPARE	30
31	SPARE	20 A	1	0.00	0.00					1	20 A	SPARE	32
33	SPARE	20 A	1			0.00	0.00			1	20 A	SPARE	34
35	SPARE	20 A	1					0.00	0.00	1	20 A	SPARE	36
37	SPARE	20 A	1	0.00	0.00					1	20 A	SPARE	38
39	SPARE	20 A	1			0.00	0.00			1	20 A	SPARE	40
41	SPARE	20 A	1					0.00	0.00	1	20 A	SPARE	42
43	SPARE	20 A	1	0.00	0.00					1	20 A	SPARE	44
45	SPARE	20 A	1			0.00	0.00			1	20 A	SPARE	46
47	SPARE	20 A	1					0.00	0.00	1	20 A	SPARE	48
49	SPARE	20 A	1	0.00	0.00					1	20 A	SPARE	50
51	SPARE	20 A	1			0.00	0.00			1	20 A	SPARE	52
53	SPARE	20 A	1					0.00	0.00	1	20 A	SPARE	54
			Phase Load:	1.62 kVA		0.50 kVA		0.00 kVA					
			Phase...	14.1 A		4.8 A		0 A					
			Total Load:	2.12 kVA									
			Total Amps:	5.88 A									

Notes:

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GRANBY MEMORIAL HIGH SCHOOL

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SCHOOL RENOVATIONS

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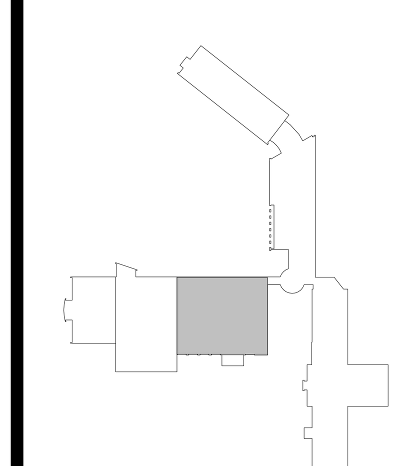

KEY PLAN

STATE PROJECT NO: 056-0052 A

BID SET

01/7/2022

N
ACTUAL NORTH

ELECTRICAL SCHEDULES AND DIAGRAMS

Scale:	AS NOTED
Job No.:	2021218.00
Drawn By:	CES
Date:	1/7/2022

E600