

BID SET

HALIFAX CO MULTIPLE RENOVATIONS

HALIFAX COUNTY, NC HALIFAX COUNTY SCHOOLS

MOSELEYARCHITECTS

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FOODESIGN ASSOCIATES

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		DRAWIN	IG INDEX
FE SAFETY		MECHANICA	L
S1.0	CODE SUMMARY - SOUTHEAST HALIFAX HIGH SCHOOL	M0.1	LEGENDS, ABBREVIATIONS AND GENERAL NOTES
S1.1	CODE SUMMARY - NORTHWEST HALIFAX HIGH SCHOOL	M0.2	SCHEDULES
S2.1	LIFE SAFETY INFORMATION	M1.1	DEMOLITION PLAN - SOUTHEAST HALIFAX HIGH SCHOOL
		M1.2	ROOF DEMOLITION PLAN - SOUTHEAST HALIFAX HIGH SCHOOL
RCHITECTU	RAL	M1.3	DEMOLITION PLAN - NORTHWEST HALIFAX HIGH SCHOOL
D.1	GENERAL ARCHITECTURAL INFORMATION	M2.1	FLOOR PLAN - SOUTHEAST HALIFAX HIGH SCHOOL
0.2	WALL/PARTITION TYPES, WALL JOINTS AND TERMINATIONS	M2.2	ROOF PLAN - SOUTHEAST HALIFAX HIGH SCHOOL
1.0	DEMOLITION PLANS	M2.3	FLOOR PLAN - NORTHWEST HALIFAX HIGH SCHOOL
2.0	FLOOR PLANS & FINISH SCHEDULE	M2.4	ROOF PLAN - NORTHWEST HALIFAX HIGH SCHOOL
3.1	DOOR AND FRAME SCHEDULE & DETAILS	M5.1	DETAILS AND CONTROLS
8.1	CASEWORK AND ELEVATIONS		
9.0	REFLECTED CEILING PLANS	ELECTRICAL	
10.1	ROOF PLAN & DETAILS	E0.1	LEGENDS, ABBREVIATIONS AND GENERAL NOTES
		E1.1	DEMOLITION PLAN - SOUTHEAST HS
DOD SERVI	CE	E1.2	DEMOLITION PLAN - NORTHWEST HS
S.01	FOOD SERVICE EQUIPMENT PLAN	E2.1	POWER & COMMUNICATIONS PLAN - SOUTHEAST HS
S.02	FOOD SERVICE EQUIPMENT SCHEDULE	E2.2	LIGHTING PLAN - SOUTHEAST HS
S.03	FOOD SERVICE PLUMBING AND ELECTRICAL PLAN	E2.3	POWER & COMMUNICATIONS PLAN - NORTHWEST HS
S.04	FOOD SERVICE EXHAUST HOOD DETAILS	E2.4	LIGHTING PLAN - NORTHWEST HS
		E5.1	DIAGRAMS & SCHEDULES, & DETAILS
TRUCTURA	-		
1.1	EXISTING FOUNDATION AND ROOF FRAMING PLAN AND GENERAL NOTES		
LUMBING			
D.1	LEGENDS, ABBREVIATIONS AND GENERAL NOTES		
1.1	PLUMBING FOUNDATION PLUMBING PLAN - NWHS		
1.2	PLUMBING FOUNDATION PLUMBING PLAN - SEHS		
2.1	PLUMBING FLOOR PLANS DEMO/PROPOSED - NWHS		
2.2	PLUMBING CHEM LAB FLOOR PLANS DEMO/PROPOSED - SEHS		
2.3	PLUMBING CULINARY LAB FLOOR PLANS DEMO/PROPOSED - SEHS		
2.4	SOUTHEAST HIGH SCHOOL BOILER ROOM		

THE CONTRACT DOCUMENTS ARE COMPLEMENTARY, AND WHAT IS REQUIRED BY ONE SHALL BE AS BINDING AS IF REQUIRED BY ALL. IN CASE OF A CONFLICT, DISAGREEMENT, OR AMBIGUITY, PROVIDE THE BETTER QUALITY. IN CASE OF A CONFLICT, DISAGREEMENT, OR AMBIGUITY, PROVIDE THE GREATER QUANTITY OF WORK.

FOOD FACILITIES MATTHEWS, NC







2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
(EXCEPT 1 AND 2-FAMILY DWELLINGS AND TOWNHOUSES)

	(EXCEPT 1 AND 2- (Reproduce the f	FAMILY DWEI ollowing data on the	LLINGS AND T ne building plans s	OWNHOUSES) sheet 1 or 2)	
Name of Projec Address: <u>1668</u> Owner/Authoriz Owned By: Code Enforcem	t: <u>Halifax County Multiple Re</u> 3 NC Highway 125, Halifax, zed Agent: <u>Anthony Alston</u> [X] Cit ent Jurisdiction: [] Cit	novations - Culinary / NC Phone # (<u>252</u> ty/County	Arts & Science Lab a) <u>678</u> - <u>4344</u> Private X County <u>Hal</u>	at Southeast Halifax H Zip Coo E-Mail Stai ifax Stai	High School 1e _27839 _alstona@halifax.k12.nc.us te te
DESIGNER Architectural	FIRM Moseley Architects	NAME Ashley Dennis	LICENSE # 11711	TELEPHONE # (<u>919)840-0091</u>	E-MAIL adennis@moselevarchitects.com
Civil Electrical Fire Alarm	Moseley Architects	Brian Wells	_040202	() (804)794-7555_ ()	bwells@moseleyarchitects.com
Plumbing Mechanical Sprinkler-Stand	_Moseley Architects _Moseley Architects pipe	David T Whately David T Whately	_043951 _043951	(804)794-7555 (804)794-7555 ()	twhately@moseleyarchitects.com -twhately@moseleyarchitects.com
Structural Retaining Walls Other ("Other" should	Moseley Architects >5' High Foodesign Associates include firms and individu	Paul Gagnon Ashley Gaines alls such as truss, p	_045706	(804)794-7555 () (_704)545-6151 eered, interior desig	pgagnon@moseleyarchitects.com againes@foodesignassociates.com gners, etc.)
2018 NC BUIL 2018 NC EXIS CONSTRU RENOVA RISK CATEG	DING CODE: ☐ New ☐ ☐ 1 st Tin ☐ Shell/ proce ☐ Phase possib TING BUILDING CODE JCTED: (date) <u>1979-198</u> FED: (date) <u>N/A</u> ORY (Table 1604.5):	Building A me Interior Comple /Core - Contact the dures and requirem ed Construction - S bele additional proce C: EXISTING: [Alteration: [30 CURREN PROPOS Current:]	ddition X Reference etion Iocal inspection j local inspection j hell/Core- Contact edures and require Prescriptive Level I Historic Proper NT OCCUPANC SED OCCUPANC I II I II	enovation <u>urisdiction for pos</u> <u>et the local inspecti</u> <u>ements</u> Repair Repair <u>X</u> Level II rty Y(S) (Ch. 3): <u>E</u> CY(S) (Ch. 3): <u>E</u> II <u>I</u> IV	sible additional on jurisdiction for Chapter 14 Level III Change of Use
		Proposed:			
BASIC BUILD Construction T (check all that a Sprinklers: Standpipes: Fire District: Special Inspect	DING DATA Ype: I-A pply) I-B X No Partial Y X No Yes Class X No Yes Class X No Yes No Image: State Stat	☐ II-A X II-B fes ☐ NFI is ☐ I ☐ II Flood Hazard A ☐ Yes (<u>Contact the</u> procedure	Existing Construct III-A III-B PA 13 NFI III We Area: X No the local inspection and requiremen	PA 13R NFF t Dry Yes i jurisdiction for ac	□ V-A □ V-B PA 13D

	Gro	ss Building Area Tal	ble	
Floor	EXISTING (SQ FT)	NEW (SQ FT)	(SQ FT)	SUB-TOTAL
3rd Floor	2 22 1	N <u>282</u>		N <u>=221</u>)
2 nd Floor				
Mezzanine			33 -1	
1 st Floor	154,000 +/-	0	4,120 SF	154,000 +/-
Basement	22.02M		T	(1 <u>21</u> 2)
TOTAL	154,000 +/-	0	4,120 SF	154,000 +/-

ALLOWABLE AREA

Primary Occupancy Classification(s):

2018 NC Administrative Code and Policies

Primary Occupancy Classification(s):
Assembly A-1 A-2 A-3 A-4 A-5
Business
Educational X
Factory F-1 Moderate F-2 Low
Hazardous 🗌 H-1 Detonate 🗌 H-2 Deflagrate 🗌 H-3 Combust 🔲 H-4 Health 🗌 H-5 HPM
Institutional II-1 Condition I I I 2
\Box I-2 Condition \Box 1 \Box 2
\Box I-3 Condition \Box 1 \Box 2 \Box 3 \Box 4 \Box 5
□ I-4
Mercantile
Residential \square R-1 \square R-2 \square R-3 \square R-4
Storage S-1 Moderate S-2 Low High-piled
🗌 Parking Garage 🗌 Open 🗌 Enclosed 🔲 Repair Garage
Utility and Miscellaneous
Accessory Occupancy Classification(s): Business
Incidental Uses (Table 509):
Special Uses (Chapter 4 – List Code Sections): Section 430 - Public Schools
Special Provisions: (Chapter 5 – List Code Sections):
Mixed Occupancy: No Yes Separation: Hr. Exception:
Non-Separated Use (508.3) - The required type of construction for the building shall be determined by applying the height and area limitations for each of the applicable occupancies to the entire building. The most restrictive type of construction, so determined, shall apply to the entire building.
Separated Use (508.4) - See below for area calculations for each story, the area of the occupancy shall be such that the sum of the ratios of the actual floor area of each use divided by the allowable floor area for each use shall not exceed 1.

_____ + _____ + = ____ ≤1.00

Revised 6/15/2020

STORY NO.	DESCRIPTION AND USE	(A) BLDG AREA PER STORY (ACTUAL)	(B) TABLE 506.2 ⁴ AREA	(C) AREA FOR FRONTAGE INCREASE ^{1,5}	(D) ALLOWABLE AREA PER STORY OR UNLIMITED ^{2,}
1	Existing E & B		Exi	sting to remain	1
				6	

Perimeter which fronts a public way or open space having 20 feet minimum width = (F)b. Total Building Perimeter = _____ (P) c. Ratio (F/P) =_____ (F/P)

d. W = Minimum width of public way = _____(W) e. Percent of frontage increase $I_f = 100[F/P - 0.25] \times W/30 =$ (%)

² Unlimited area applicable under conditions of Section 507. ³ Maximum Building Area = total number of stories in the building x D (maximum3 stories) (506.2).

⁴ The maximum area of open parking garages must comply with Table 406.5.4. ⁵ Frontage increase is based on the unsprinklered area value in Table 506.2.

	ALLOWABLE	SHOWN ON PLANS	CODE REFERENCE
Building Height in Feet (Table 504.3) ²	Existing to remain	Existing to remain	
Building Height in Stories (Table 504.4) ³	Existing to remain	Existing to remain	

	FIRE	PROTE	CTION REQU	IREMENT	S		
BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	REQ'D 1978 NCSBC	RATING PROVIDED (W/* REDUCTION)	DETAIL # AND SHEET #	DESIGN # FOR RATED ASSEMBLY	SHEET # FOR RATED PENETRATION	SHEET # FOR RATED JOINTS
Structural Frame, including columns, girders, trusses		2	N/A (Existing)				
Bearing Walls		NC	N/A (Existing)				
Exterior		NC	N/A (Existing)				
North		NC	N/A (Existing)				
East		NC	N/A (Existing)				
West		NC	N/A (Existing)				
South		NC	N/A (Existing)				
Interior		NC	N/A (Existing)				
Nonbearing Walls and Partitions		NC	N/A (Existing)				
Exterior walls		NC	N/A (Existing)				
Fort		NC	N/A (Existing)				
East		NC	N/A (Existing)				
South		NC	N/A (Existing)				
South		NC	NC				
Interior walls and partitions		NC	NC				
Floor Construction Including supporting beams and joists		NC	N/A (Existing)				
Floor Ceiling Assembly		N/A	N/A				
Columns Supporting Floors		N/A	N/A				
Roof Construction, including supporting beams and joists		NC	N/A (Existing)				
Roof Ceiling Assembly		NC	N/A (Existing)				
Columns Supporting Roof		NC	N/A (Existing)				
Shaft Enclosures - Exit		1	N/A				
Shaft Enclosures - Other		1	N/A				
Corridor Separation		1	1				
Occupancy/Fire Barrier Separat	tion	N/A	N/A				
Party/Fire Wall Separation		4	N/A (Existing)				
Smoke Barrier Separation		N/A	N/A				
Smoke Partition		N/A	N/A				
Tenant/Dwelling Unit/ Sleeping Unit Separation		N/A	N/A				
Incidental Use Separation		N/A	N/A				
Indicate section number perm	nitting reduction						

FIRE SEPARATION DISTANCE (FEET) FROM PROPERTY LINES	Degree of openings Protection (Table 705.8)	ALLOWABLE AREA (%)	ACTUAL SHOWN ON PLA (%)
N/A	N/A	N/A	N/A
Emergency Lighting:	LIFE SAFETY SYST	EM REQUIREMENTS	

Smoke Detection Systems: X No Yes Partial Carbon Monoxide Detection: X No Yes

LIFE SAFETY PLAN REQUIREMENTS

Fire and/or smoke rated wall locations (Chapter 7)

Assumed and real property line locations (if not on the site plan)

Exterior wall opening area with respect to distance to assumed property lines (705.8) \overline{X} Occupancy Use for each area as it relates to occupant load calculation (Table 1004.1.2)

X Occupant loads for each area

Life Safety Plan Sheet #: LS2.1

- Exit sign locations (1013)
- X Exit access travel distances (1017)
- Common path of travel distances (Tables 1006.2.1 & 1006.3.2(1))

Dead end lengths (1020.4)

Clear exit widths for each exit door

Maximum calculated occupant load capacity each exit door can accommodate based on egress width (1005.3)

Actual occupant load for each exit door A separate schematic plan indicating where fire rated floor/ceiling and/or roof structure is provided for

purposes of occupancy separation

Location of doors with panic hardware (1010.1.10) Location of doors with delayed egress locks and the amount of delay (1010.1.9.7)

Location of doors with electromagnetic egress locks (1010.1.9.9)

Location of doors equipped with hold-open devices

Location of emergency escape windows (1030)

The square footage of each fire area (202) The square footage of each smoke compartment for Occupancy Classification I-2 (407.5)

X Note any code exceptions or table notes that may have been utilized regarding the items above

2018 NC Administrative Code and Policies

Revised 6/15/2020

ACCESSIBLE DWELLING UNITS (SECTION 1107)								
UNIT CLASSIFICATION	TOTAL UNITS	Accessible Units Required	Accessible Units Provided	TYPE A Units Required	TYPE A Units Provided	TYPE B Units Required	TYPE B Units Provided	TOTAL ACCESSIBLE UNITS PROVIDED
N/A	2					6. 		
		-				2	2	<i>.</i>

LOT OR PARKING AREA	TOTAL # OF PARKING SPACES		# OF ACCESSIBLE	TOTAL # ACCESSIBLE	
-	REQUIRED	PROVIDED	96" SPACES	132" SPACES	PROVIDED
Existing to remain				4. 	Existing to remain
5			2	2	
			34. 	5	
TOTAL				1	Existing to remain

τ	JSE	W	ATER CLOS	ETS
	214	MALE	FEMALE	UNISEX
SPACE	EXIST'G			
	NEW			Occu
	REQ'D			

DPI, DHHS

ENERGY REQUIREMENTS: proposed design. Climate Zone: 3A X 4A 5A

Method of Compliance: Energy Code Performance Prescriptive ASHRAE 90.1
Performance Prescriptive (If "Other" specify source here) 2018 NCECC Chapter 5 THERMAL ENVELOPE (Prescriptive method only)

Roof/ceiling Assembly (each assembly)

Description of assembly: <u>Existing to remain</u> U-Value of total assembly: R-Value of insulation: Skylights in each assembly: U-Value of skylight: _____

total square footage of skylights in each assembly: Exterior Walls (each assembly) Description of assembly: Existing to remain U-Value of total assembly: R-Value of insulation: Openings (windows or doors with glazing)

U-Value of assembly: Solar heat gain coefficient: projection factor: ------Door R-Values: 1

Walls below grade (each assembly) Description of assembly: Existing to remain U-Value of total assembly: R-Value of insulation:

Floors over unconditioned space (each assembly) Description of assembly: Existing to remain U-Value of total assembly: R-Value of insulation: -----

Floors slab on grade Description of assembly: <u>Existing to remain</u> U-Value of total assembly: R-Value of insulation: ____

slab heated: 2018 NC Administrative Code and Policies

ACCESSIBLE PARKING (SECTION 1106)

PLUMBING FIXTURE REQUIREMENTS (TABLE 2902.1)

URINALS LAVATORIES SHOWERS DRINKING FOUNTAIN MALE FEMALE UNISEX /TUBS REGULAR ACCESSIB upant load unchanged by renovation. Existing to remain.

SPECIAL APPROVALS

Special approval: (Local Jurisdiction, Department of Insurance, OSC, DPI, DHHS, etc., describe below)

ENERGY SUMMARY

The following data shall be considered minimum and any special attribute required to meet the energy code shall also be provided. Each Designer shall furnish the required portions of the project information for the plan data sheet. If performance method, state the annual energy cost for the standard reference design vs annual energy cost for the

Existing building envelope complies with code: X No Yes (The remainder of this section is not applicable) Exempt Building: No X Yes (Provide code or statutory reference): 2018 NCECC C501.1.1

Horizontal/vertical requirement:

Revised 6/15/2020

2018 APPENDIX B **BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS** STRUCTURAL DESIGN (PROVIDE ON THE STRUCTURAL SHEETS IF APPLICABLE) **DESIGN LOADS:** Snow (I_s) <u>1.1</u> Importance Factors: Seismic (I_E) <u>N/A</u> Live Loads: Roof <u>20 / 12</u> psf Mezzanine <u>N/A</u> psf Floor ____N/A___ psf **Ground Snow Load:** ____15___ psf Ultimate Wind Speed _____ mph (ASCE-7) Wind Load: Exposure Category C SEISMIC DESIGN CATEGORY: Provide the following Seismic Design Parameters: Risk Category (Table 1604.5) I II III IV Spectral Response Acceleration Ss_____%g S1_____%g Site Classification (ASCE 7) A B C D E F Data Source: Field Test Presumptive Historical Data Basic structural system Bearing Wall Dual w/Special Moment Frame Building Frame Dual w/Intermediate R/C or Special Steel Moment Frame Inverted Pendulum Analysis Procedure: Simplified Equivalent Lateral Force Dynamic Architectural, Mechanical, Components anchored? LATERAL DESIGN CONTROL: Earthquake Wind

SOIL BEARING CAPACITIES:

Field Test (provide copy of test report) _ Presumptive Bearing capacity _____2,000 Pile size, type, and capacity

2018 APPENDIX B **BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS** MECHANICAL DESIGN (PROVIDE ON THE MECHANICAL SHEETS IF APPLICABLE) MECHANICAL SUMMARY

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT

Thermal Zone winter dry bulb: 18.5°F summer dry bulb: 94.9°F Interior design conditions winter dry bulb: <u>70°F</u> summer dry bulb: 75°F

relative humidity: 50% RH Building heating load: EXISTING TO REMAIN Building cooling load: EXISTING TO REMAIN Mechanical Spacing Conditioning System Unitary

description of unit: heating efficiency: cooling efficiency: size category of unit: Boiler Size category. If oversized, state reason.: Chiller

EXISTING TO REMAIN

Prescriptive

Prescriptive

Size category. If oversized, state reason .: EXISTING TO REMAIN

List equipment efficiencies: EXISTING TO REMAIN

2018 APPENDIX B **BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS** ELECTRICAL DESIGN

(PROVIDE ON THE ELECTRICAL SHEETS IF APPLICABLE)

ELECTRICAL SUMMARY

ELECTRICAL SYSTEM AND EQUIPMENT (Existing to remain)

Method of Compliance: Energy Code Performance ASHRAE 90.1
Performance

Lighting schedule (each fixture type)

lamp type required in fixture

- number of lamps in fixture ballast type used in the fixture
- number of ballasts in fixture total wattage per fixture
- total interior wattage specified vs. allowed (whole building or space by space) total exterior wattage specified vs. allowed
- Additional Efficiency Package Options (When using the 2018 NCECC; not required for ASHRAE 90.1)
- C406.2 More Efficient HVAC Equipment Performance C406.3 Reduced Lighting Power Density
- C406.4 Enhanced Digital Lighting Controls
- C406.5 On-Site Renewable Energy C406.6 Dedicated Outdoor Air System
- C406.7 Reduced Energy Use in Service Water Heating

Revised 6/15/2020



2018 APPENDIX B BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS (EXCEPT 1 AND 2-FAMILY DWELLINGS AND TOWNHOUSES)

CEPT	I AND	2-FAMIL	A DW	ELLINGS	AND	IOWNHO	1021
(Repr	oduce th	e following	, data on	the building	ng plans	sheet 1 or	2)

Address: 8492				ot Humax High C	
20 10 2 1	NC-48, Littleton, NC			Zip Co	de 27850
Owner/Authori	zed Agent: Anthony Alston	Phone # (252) <u>678</u> - <u>4344</u>	E-Mail	alstona@halifax.k12.nc.us
Owned By:	X C	ity/County	Private		te
Code Enforcem	ent Jurisdiction:	ity	X County Halif	ax Sta	te
CONTACT					
DESIGNER	FIRM	NAME	LICENSE #	TELEPHONE #	E-MAIL
Architectural	Moseley Architects	Ashley Dennis	11711	(919)840-0091	adennis@moseleyarchitects.co
Electrical	Moseley Architects	Brian Wells	040202	(<u>804</u>)794-7555	bwells@moseleyarchitects.con
Fire Alarm Plumbing	Moseley Architects	David T Whately	_043951	(<u>)</u> (<u>804</u>)794-7555	
Mechanical	Moseley Architects	David T Whately	_043951	(804)794-7555	_twhately@moseleyarchitects.c
Sprinkler-Stand Structural	ipipe	a (<u>a</u>	· · · · · · · · · · · · · · · · · · ·	() ()	3 3
Retaining Walls	s >5' High				(i)
("Other" should	l include firms and individ	uals such as truss, p	precast, pre-enginee	() red, interior desi	gners, etc.)
2018 NC DUIT		Building 🗆 🗛	ddition VI Dom	ovation	
SOIO NU DUIL		ime Interior Compl	etion	ovation	
	Shel	1/Core - Contact the	local inspection ju	risdiction for pos	sible additional
	proc	edures and requiren	nents		
	Doss	sed Construction - S ible additional proc	hell/Core- Contact edures and requiren	the local inspect	on jurisdiction for
2018 NC EXIS	TING BUILDING COD	E: EXISTING:	Prescriptive [Repair	Chapter 14
		Alteration:	X Level I	Level II	Level III
			Historic Propert	y 🗆	Change of Use
CONSTRU	UCTED: (date) <u>1995-96</u>	CURRE	NT OCCUPANCY	(S) (Ch. 3): <u>E</u>	
DUNIN/A	TED: (date) <u>N/A</u>	PROPOS	SED OCCUPANC	Y(S) (Ch. 3): F	
RENUVA					
RISK CATEG	ORY (Table 1604.5):	Current:			
RISK CATEG	ORY (Table 1604.5):	Current: 🗌 Proposed: 🗌	I II XIII I II XIII		
RISK CATEG	ORY (Table 1604.5): DING DATA	Current: 🗌 Proposed: 🗌	I II X III I II X III Existing Construct	IV IV IV Type IV Unprotecte	ed C
RISK CATEG BASIC BUILE Construction T	ORY (Table 1604.5): DING DATA Type: I-A	Current:	I II X III I II X III Existing Construct	IV IV Type IV Unprotecte tion per 1991 NCB	c V-A
RISK CATEG BASIC BUILD Construction T (check all that a	ORY (Table 1604.5): DING DATA Type: I-A apply) I-B	Current: Proposed: II-A II-B	I II X III I II X III Existing Construc III-A III-B	IV IV IV Type IV Unprotecte tion per 1991 NCB X IV	d C V-A V-B
RISK CATEG BASIC BUILE Construction 7 (check all that a Sprinklers:	ORY (Table 1604.5): DING DATA Type: I-A apply) I-B X No Partial X	Current: Proposed: II-A II-B Yes NF	I II X III I II X III Existing Construc III-A III-B PA 13 NFPA	IV IV IV Type IV Unprotecte tion per 1991 NCB IV A 13R NFI	ed C V-A V-B PA 13D
RISK CATEG BASIC BUILE Construction T (check all that a Sprinklers: Standpipes: Fire District:	ORY (Table 1604.5): DING DATA Fype: I-A upply) I-B X No Partial Y X No Yes Cla X No Yes Cla	Current: Proposed: II-A II-B Yes NFI Iss I III	I II X III I II X III Existing Construct III-A III-B PA 13 NFPA III Wet	IV IV IV Type IV Unprotecte tion per 1991 NCB IV IV A 13R NFI Dry Ves	ed C V-A V-B PA 13D
RISK CATEG BASIC BUILE Construction T (check all that a Sprinklers: Standpipes: Fire District: Special Inspect	ORY (Table 1604.5): DING DATA Type: I-A apply) I-B X No Partial X No Yes Cla No Yes No Yes	Current: Proposed: Proposed: II-A II-B Yes NFI USS I I II Flood Hazard A	I II X III I II X III Existing Construc III-A III-B PA 13 NFPA III Wet Area: X No	IV IV IV Type IV Unprotecte tion per 1991 NCB IV A 13R NFI Dry Yes urisdiction for ac	d C V-A V-B PA 13D
RISK CATEG BASIC BUILE Construction T (check all that a Sprinklers: Standpipes: Fire District: Special Inspect	ORY (Table 1604.5): DING DATA (Type: I-A upply) I-B X No Partial X No Yes Cla No Yes tions Required: No	Current: Proposed: II-A II-B Yes NFI uss I I II Flood Hazard A Yes (Contact th procedure	I II X III I II X III Existing Construct III-A III-B PA 13 NFPA III Wet Area: X No ne local inspection j es and requirements	IV IV IV Type IV Unprotected tion per 1991 NCB IV A 13R NFI Dry Ves urisdiction for ac	d C V-A V-B PA 13D dditional
RISK CATEG BASIC BUILE Construction T (check all that a Sprinklers: Standpipes: Fire District: Special Inspect	ORY (Table 1604.5): DING DATA (ype: I-A upply) I-B X No Partial X X No Yes Cla X No Yes tions Required: No	Current: Proposed: II-A II-B Yes NFI Ass I III Flood Hazard A Yes (Contact th procedure	I II X III I II X III Existing Construct III-A III-B PA 13 NFPA III Wet Area: X No ne local inspection j es and requirements	IV IV IV Type IV Unprotecte tion per 1991 NCB IV IV A 13R NFI Dry Yes urisdiction for ac	ed C V-A V-B PA 13D dditional
RISK CATEG BASIC BUILE Construction 1 (check all that a Sprinklers: Standpipes: Fire District: Special Inspect	ORY (Table 1604.5): DING DATA Type: ☐ I-A apply) ☐ I-B X No ☐ Partial ☐ Y X No ☐ Yes Cla X No ☐ Yes tions Required: ☐ No	Current: Proposed: Proposed: II-A II-B Yes NFI Ass I III Flood Hazard A Yes (Contact the procedure)	I II X III I II X III Existing Construc III-A III-B PA 13 NFPA III Wet Area: X No he local inspection j es and requirements	IV IV IV Type IV Unprotecte tion per 1991 NCB IV A 13R NFI Dry Yes urisdiction for ac	d C V-A V-B PA 13D dditional
RISK CATEG BASIC BUILE Construction T (check all that a Sprinklers: Standpipes: Fire District: Special Inspect	ORY (Table 1604.5): DING DATA (Type: I-A apply) I-B X No Partial Y X No Yes Cla No Yes tions Required: No	Current: Proposed: II-A II-B Yes NFI uss I III Flood Hazard A Yes (Contact th procedure	I II X III I II X III Existing Construct III-A III-B PA 13 NFPA III Wet Area: X No he local inspection j es and requirements	☐ IV ☐ IV ☐ IV Type IV Unprotected tion per 1991 NCB X IV A 13R ☐ NFI ☐ Dry ☐ Yes urisdiction for act .)	d C UV-A V-B PA 13D dditional
RISK CATEG BASIC BUILE Construction T (check all that a Sprinklers: Standpipes: Fire District: Special Inspect	ORY (Table 1604.5): DING DATA Type: I-A upply) I-B X No Partial X No Yes Cla No Yes tions Required: No	Current: Proposed: II-A II-B Yes NFI Ass I III Flood Hazard A Yes (Contact th procedure	I II X III I II X III Existing Construct III-A III-B PA 13 NFP III Wet Area: X No ne local inspection j es and requirements	☐ IV ☐ IV Type IV Unprotected tion per 1991 NCB X IV A 13R	ed C U V-A D V-B PA 13D dditional
RISK CATEG BASIC BUILE Construction T (check all that a Sprinklers: Standpipes: Fire District: Special Inspect	ORY (Table 1604.5): DING DATA Type: I-A Typply) I-B X No Partial X No Yes Cla X No Yes tions Required: No	Current: Proposed: Proposed: II-A II-B Yes NFI ISS I III Flood Hazard A Yes (Contact the procedure) Procedure	I II X III I II X III Existing Construct III-A III-B PA 13 NFPA III Wet Area: X No ne local inspection j es and requirements	☐ IV ☐ IV Type IV Unprotected tion per 1991 NCB X IV A 13R	d C U V-A D V-B PA 13D dditional
RISK CATEG BASIC BUILE Construction T (check all that a Sprinklers: Standpipes: Fire District: Special Inspect	ORY (Table 1604.5): DING DATA Type: I-A apply) I-B X No Partial Y X No Yes Cla X No Yes tions Required: No EXISTING (SO FT)	Current: Proposed: Proposed: II-A II-B Yes NFI USS I III Flood Hazard A Yes (Contact fl procedure Gross Building A NEW (I II X III I II X III Existing Construct III-A III-B PA 13 NFPA III Wet Area: X No ne local inspection j es and requirements	☐ IV ☐ IV ☐ IV Type IV Unprotected tion per 1991 NCB [] IV A 13R ☐ NFI ☐ Dry ☐ Yes urisdiction for act .) d Work Area SUB	d C UV-A V-B PA 13D dditional
RISK CATEG BASIC BUILE Construction T (check all that a Sprinklers: Standpipes: Fire District: Special Inspect	ORY (Table 1604.5): DING DATA Type: I-A Typly) I-B No Partial No Yes Cla No Yes tions Required: No EXISTING (SQ FT)	Current: Proposed: Proposed: II-A II-B Yes NFI Ass I III Flood Hazard A Yes (Contact th procedure Gross Building A New (I II X III I II X III Existing Construct III-A III-B PA 13 NFPA III Wet Area: X No ne local inspection just and requirements Area Table (SQ FT) (SQ FT) 	☐ IV ☐ IV Type IV Unprotected tion per 1991 NCB X IV A 13R	d C V-A V-B PA 13D dditional
RISK CATEG BASIC BUILE Construction T (check all that a Sprinklers: Standpipes: Fire District: Special Inspect	ORY (Table 1604.5): DING DATA Type: I-A apply) I-B X No Partial Y X No Yes Cla X No Yes tions Required: No EXISTING (SQ FT)	Current: Proposed: Proposed: II-A II-B Yes NFI uss I III Flood Hazard A Yes (Contact th procedure Gross Building A New (I II X III I II X III Existing Construct III-A III-B PA 13 NFPA III Wet Area: X No he local inspection j es and requirements	☐ IV ☐ IV ☐ IV Type IV Unprotected tion per 1991 NCB X IV A 13R	d C UV-A V-B PA 13D dditional
RISK CATEG BASIC BUILE Construction T (check all that a Sprinklers: Standpipes: Fire District: Special Inspect FLOOR 3 rd Floor 2 nd Floor Mezzanine	ORY (Table 1604.5): DING DATA Type: I-A apply) I-B X No Partial Y No Yes Cla X No Yes tions Required: No EXISTING (SQ FT)	Current: Proposed: Proposed: II-A II-B Yes NFJ Ass I III Flood Hazard A Yes (Contact the procedured Gross Building A NEW (I II X III I II X III Existing Construct III-A III-B PA 13 NFPA III Wet Area: X No ne local inspection just es and requirements Area Table (SQ FT) (SQ FT) 	□ IV □ IV □ IV Type IV Unprotecte tion per 1991 NCB □ IV A 13R □ NFI □ Dry □ Yes urisdiction for ar .) d Work Area SUB	-Total
RISK CATEG BASIC BUILE Construction T (check all that a Sprinklers: Standpipes: Fire District: Special Inspect Special Inspect FLOOR 3 rd Floor 2 nd Floor Mezzanine 1 st Floor Basement	ORY (Table 1604.5): DING DATA Type: I-A upply) I-B No Partial No Yes Cla No Yes tions Required: No EXISTING (SQ FT) 16,925 SF	Current: Proposed: Proposed: II-A III-B Yes NFI USS I III Flood Hazard A Yes (Contact fl procedure Gross Building A New (0 S	I II X III I II X III Existing Construct III-A III-B PA 13 NFPA III Wet Area: X No he local inspection j es and requirements Area Table (SQ FT) (SQ FT) 	IV	d C V-A V-B PA 13D dditional dditional

ALLOWABLE AREA Primary Occupancy Classification(s): Assembly A-1 A-2 A-3 A-4 A-5 Business Educational X Factory F-1 Moderate F-2 Low Hazardous H-1 Detonate H-2 Deflagrate H-3 Combust H-4 Health H-5 HPM Institutional I I-1 Condition I I 2 \Box I-2 Condition \Box 1 \Box 2 □ I-3 Condition □ 1 □ 2 □ 3 □ 4 □ 5 1-4 Mercantile | Residential R-1 R-2 R-3 R-4 Storage S-1 Moderate S-2 Low High-piled Parking Garage Open Enclosed Repair Garage Utility and Miscellaneous Accessory Occupancy Classification(s): N/A Incidental Uses (Table 509): N/A Special Uses (Chapter 4 - List Code Sections): Section 430 - Public Schools Special Provisions: (Chapter 5 – List Code Sections): <u>N/A</u> Mixed Occupancy: X No Yes Separation: Hr. Exception: Non-Separated Use (508.3) - The required type of construction for the building shall be determined by applying the height and area limitations for each of the applicable occupancies to the entire building. The most restrictive type of construction, so determined, shall apply to the entire building. Separated Use (508.4) - See below for area calculations for each story, the area of the occupancy shall be such that the sum of the ratios of the actual floor area of each use divided by the allowable floor area for each use shall not exceed 1. <u>Actual Area of Occupancy A</u> + <u>Actual Area of Occupancy B</u> ≤ 1 Allowable Area of Occupancy A Allowable Area of Occupancy B

____ + ____ + = ____ ≤1.00

2018 NC Administrative Code and Policies

Revised 6/15/2020

FIRE SEPAR (FEET) FRC N/A Emergency Exit Signs: Fire Alarm

Life Safety X Fire ar

STORY NO.	DESCRIPTION AND USE	(A) BLDG AREA PER STORY (ACTUAL)	(B) TABLE 506.2 ⁴ AREA	(C) AREA FOR FRONTAGE INCREASE ^{1,5}	(D) ALLOWABLE AREA PER STORY OR UNLIMITED ^{2,3}
	Existing E		Exi	sting to remain	s 1
		e			

a. Perimeter which fronts a public way or open space having 20 feet minimum width = _____ (F) b. Total Building Perimeter = _____(P)

c. Ratio (F/P) = _____ (F/P)

d. W = Minimum width of public way = _____(W) e. Percent of frontage increase $I_f = 100[F/P - 0.25] \ge W/30 = _____(\%)$ ² Unlimited area applicable under conditions of Section 507.

³ The maximum height of open parking garages must comply with Table 406.5.4.

³ Maximum Building Area = total number of stories in the building x D (maximum3 stories) (506.2). ⁴ The maximum area of open parking garages must comply with Table 406.5.4. ⁵ Frontage increase is based on the unsprinklered area value in Table 506.2.

	ALLOWABLE	SHOWN ON PLANS	CODE REFERENCE
Building Height in Feet (Table 504.3) ²	Existing to remain	Existing to remain	
Building Height in Stories (Table 504.4) ³	Existing to remain	Existing to remain	

BUILDING ELEMENT	FIRE		RATING	DETAIL #	DESIGN #	SHEET # FOR	SHEET #		
	DISTANCE	REQ'D	PROVIDED	AND SHFFT #	FOR	RATED	FOR		
	(FEET)	1995	REDUCTION)	SHEET #	ASSEMBLY	PENETRATION	JOINTS		
Structural Frame,									
including columns, girders,		NC**	N/A (Existing)						
trusses									
Bearing Walls									
Exterior		NC	N/A (Existing)						
North		NC	N/A (Existing)						
East		NC	N/A (Existing)						
West		NC	N/A (Existing)						
South		NC	N/A (Existing)						
Interior		NC	N/A (Existing)						
Nonbearing Walls and Partitions									
Exterior walls		NC	N/A (Existing)						
North		NC	N/A (Existing)						
East		NC	N/A (Existing)						
West		NC	N/A (Existing)						
South		NC	N/A (Existing)						
Interior walls and partitions		2	N/A (Existing)						
Floor Construction									
Including supporting beams									
and joists		N/A	N/A						
Floor Ceiling Assembly		N/A	N/A						
Columns Supporting Floors		N/A	N/A						
Roof Construction, including supporting beams and joists		NC	N/A (Existing)						
Roof Ceiling Assembly		NC	N/A (Existing)						
Columns Supporting Roof		NC	N/A (Existing)						
Shaft Enclosures - Exit		N/A	N/A						
Shaft Enclosures - Other		N/A	N/A						
Corridor Separation		1	N/A (Existing)						
Occupancy/Fire Barrier Separat	ion	N/A	N/A						
Party/Fire Wall Separation		N/A	N/A						
Smoke Barrier Separation		N/A	N/A						
Smoke Partition		N/A	N/A						
Tenant/Dwelling Unit/ Sleeping Unit Separation		N/A	N/A						
Incidental Use Separation		N/A	N/A						

(FEET) FROM PROPERTY LINES	Degree of openings Protection (Table 705.8)	Allowable area (%)	ACTUAL SHOWN ON PLANS (%)
N/A	N/A	N/A	N/A
Emergency Lighting: Exit Signs: Fire Alarm:	LIFE SAFETY SYST No Yes No Yes	EM REQUIREMENTS ting to remain) ting to remain) ting to remain) artial (Existing to re	emain)
Smoke Detection Systems: Carbon Monoxide Detection	: 🛛 No 🗌 Yes		

Assumed and real property line locations (if not on the site plan) Exterior wall opening area with respect to distance to assumed property lines (705.8)

Occupancy Use for each area as it relates to occupant load calculation (Table 1004.1.2)

X Occupant loads for each area

Exit sign locations (1013) Exit access travel distances (1017)

Common path of travel distances (Tables 1006.2.1 & 1006.3.2(1))

Dead end lengths (1020.4)

Clear exit widths for each exit door

Maximum calculated occupant load capacity each exit door can accommodate based on egress width (1005.3) Actual occupant load for each exit door

A separate schematic plan indicating where fire rated floor/ceiling and/or roof structure is provided for purposes of occupancy separation

Location of doors with panic hardware (1010.1.10)

Location of doors with delayed egress locks and the amount of delay (1010.1.9.7)

Location of doors with electromagnetic egress locks (1010.1.9.9) Location of doors equipped with hold-open devices

Location of emergency escape windows (1030)

The square footage of each fire area (202)

The square footage of each smoke compartment for Occupancy Classification I-2 (407.5) X Note any code exceptions or table notes that may have been utilized regarding the items above

2018 NC Administrative Code and Policies

Revised 6/15/2020

ACCESSIBLE DWELLING UNITS (SECTION 1107)

UNIT CLASSIFICATION	TOTAL UNITS	Accessible Units Required	Accessible Units Provided	TYPE A Units Required	TYPE A Units Provided	TYPE B Units Required	TYPE B Units Provided	TOTAL ACCESSIBLE UNITS PROVIDED
N/A								
	а. А.							

ACCESSIBLE PARKING (SECTION 1106)

LOT OR PARKING AREA	TOTAL # OF PA	RKING SPACES	# OF ACCESSIBLE	SPACES PROVIDED	TOTAL # ACCESSIBLE	
	REQUIRED	PROVIDED	96" SPACES	132" SPACES	PROVIDED	
Existing	-				Existing	
			2			
TOTAL					Existing	

PLUMBING FIXTURE REQUIREMENTS (TABLE 2902.1)

USE		W	ATER CLOS	ETS	URINALS	LAVA		
		MALE	FEMALE	UNISEX		MALE	FEM	
PACE	EXIST'G							
	NEW			Occi	upant load u	inchange	d by r	
	REQ'D							

SPECIAL APPROVALS

Special approval: (Local Jurisdiction, Department of Insurance, OSC, DPI, DHHS, etc., describe below)

ENERGY SUMMARY

ENERGY REQUIREMENTS: The following data shall be considered minimum and any special attribute required to meet the energy code shall also be provided. Each Designer shall furnish the required portions of the project information for the plan data sheet. If performance method, state the annual energy cost for the standard reference design vs annual energy cost for the proposed design.

Existing building envelope complies with code: X No Yes (The remainder of this section is not applicable) Exempt Building: No X Yes (Provide code or statutory reference): 2018 NCECC C501.1.1

Exempt building		X I es (Pro	svide code or statutory r	eference): _
Climat	e Zone: 🗌 3.	A 🕱 4A	□ 5A	
Metho	d of Complianc	e: Energy (ASHRA (If "O	Code Perform E 90.1 Perform ther" specify sourc	ance ance e here) <u>2</u>
THERMAL EN Roof/co	VELOPE (Pre eiling Assembly	scriptive m v (each asse	ethod only) embly)	
	Description of U-Value of to R-Value of in Skylights in ea U-Va	f assembly: tal assembly sulation: ach assemb ilue of skyl	Existing to 1 y:	<u>remain</u> - - -
	total square fo	otage of sk	ylights in each asse	embly:

Exterior Walls (each assembly)	
Description of assembly:	Existing to remain
U-Value of total assembly:	
R-Value of insulation:	s <u></u> s
Openings (windows or doors	with glazing)
U-Value of assembl	y:
Solar heat gain coef	ficient:
projection factor:	
Door R-Values:	
Walls below grade (each assembly)	
Description of assembly:	N/A
U-Value of total assembly:	
R-Value of insulation:	
Floors over unconditioned space (ea	ch assembly)
Description of assembly:	Existing to remain
U-Value of total assembly:	
R-Value of insulation:	

Floors slab on grade Description of assembly: Existing to remain U-Value of total assembly: R-Value of insulation: _____ Horizontal/vertical requirement: slab heated:

2018 NC Administrative Code and Policies

SHOWERS DRINKING FOUNTAINS /TUBS REGULAR ACCESSIBI renovation. Existing to remain.

Prescriptive

Prescriptive 2018 NCECC Chapter 5 14

Revised 6/15/2020

2018 APPENDIX B **BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS** STRUCTURAL DESIGN (PROVIDE ON THE STRUCTURAL SHEETS IF APPLICABLE) **DESIGN LOADS:** (Existing to remain) Snow (Is) N/A Importance Factors: Seismic (I_E) <u>N/A</u> Live Loads: Roof ____N/A___psf Mezzanine ___N/A__ psf Floor ____N/A__ psf Ground Snow Load: <u>N/A</u> psf Wind Load: Ultimate Wind Speed _____ mph (ASCE-7) Exposure Category SEISMIC DESIGN CATEGORY: A B C D Provide the following Seismic Design Parameters: Risk Category (Table 1604.5) I II III IV Spectral Response Acceleration S_S____%g S1_____%g Site Classification (ASCE 7) A B C D E F Data Source: Field Test Presumptive Historical Data Basic structural system Bearing Wall Dual w/Special Moment Frame Building Frame Dual w/Intermediate R/C or Special Steel Moment Frame Inverted Pendulum Analysis Procedure: Simplified Equivalent Lateral Force Dynamic Architectural, Mechanical, Components anchored? LATERAL DESIGN CONTROL: Earthquake Wind SOIL BEARING CAPACITIES: Field Test (provide copy of test report) _ Presumptive Bearing capacity Pile size, type, and capacity

2018 APPENDIX B **BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS** MECHANICAL DESIGN (PROVIDE ON THE MECHANICAL SHEETS IF APPLICABLE)

MECHANICAL SUMMARY

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT

Thermal Zone

winter dry bulb: 18.5°F summer dry bulb: 94.9°F Interior design conditions

winter dry bulb: <u>70°F</u> summer dry bulb: <u>75°F</u> relative humidity: 50% RH

Building heating load: EXISTING TO REMAIN

Building cooling load: EXISTING TO REMAIN Mechanical Spacing Conditioning System Unitary description of unit: EXISTING TO REMAIN

heating efficiency: EXISTING TO REMAIN cooling efficiency: EXISTING TO REMAIN size category of unit: EXISTING TO REMAIN Boiler

Size category. If oversized, state reason .: Chiller Size category. If oversized, state reason.:

List equipment efficiencies: EXISTING TO REMAIN

2018 APPENDIX B **BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS**

ELECTRICAL DESIGN (PROVIDE ON THE ELECTRICAL SHEETS IF APPLICABLE)

EXISTING TO REMAIN

EXISTING TO REMAIN

Prescriptive

Prescriptive

ELECTRICAL SUMMARY

ELECTRICAL SYSTEM AND EQUIPMENT (Existing to remain)

Method of Compliance: Energy Code Performance ASHRAE 90.1
Performance

Lighting schedule (each fixture type)

lamp type required in fixture number of lamps in fixture

- ballast type used in the fixture number of ballasts in fixture
- total wattage per fixture

total interior wattage specified vs. allowed (whole building or space by space) total exterior wattage specified vs. allowed

Additional Efficiency Package Options (When using the 2018 NCECC; not required for ASHRAE 90.1)

C406.2 More Efficient HVAC Equipment Performance

- C406.3 Reduced Lighting Power Density C406.4 Enhanced Digital Lighting Controls
- C406.5 On-Site Renewable Energy
- C406.6 Dedicated Outdoor Air System C406.7 Reduced Energy Use in Service Water Heating







SPACE		USE	USED TO DETERMINE OCCUPANCY	FLOOR AREA		AREA		0000
NUMBER	SPACE NAME	CLASSIFICATION	FACTOR ONLY	PER OCCUPANT	SF	GROSS	NET	TABULAR
241	OFFICE	E	BUSINESS AREA	100 SF	165	•		2
242	CHEMISTRY & PHYSICS LAB	E	EDUCATIONAL, CLASSROOM	20 SF	1112		•	56
243	STORAGE	E	ACCESSORY STORAGE & MECHANICAL EQUIPMENT ROOM	300 SF	150	•		1
244	PREP ROOM	E	ACCESSORY STORAGE & MECHANICAL EQUIPMENT ROOM	300 SF	147	•		1
268	CULINARY CLASSROOM	E	EDUCATIONAL, CLASSROOM	20 SF	526		•	27
269	CULINARY LAB	E	EDUCATIONAL, SHOP & VOCATIONAL	50 SF	956		•	20
269A	DRY STORAGE	E	ACCESSORY STORAGE & MECHANICAL EQUIPMENT ROOM	300 SF	235	•		1

	OCCUPA	NCY SCH	EDULE - NORTHWE	EST HALI	FAX	(HIG	HS	СНОС)
SPACE		USE	USED TO DETERMINE OCCUPANCY	FLOOR AREA		AREA		000	Ū
NUMBER	SPACE NAME	CLASSIFICATION	FACTOR ONLY	PER OCCUPANT	SF	GROSS	NET	TABULAR	
C109	CHEMISTRY & PHYSICS LAB	E	EDUCATIONAL, CLASSROOM	20 SF	1052		•	53	3
C110	OFFICE	E	BUSINESS AREA	100 SF	161	•		2	1
C111	EX. PREP RM	E	ACCESSORY STORAGE & MECHANICAL EQUIPMENT ROOM	300 SF	204	•		1	1
C117	MECHANICAL	E	ACCESSORY STORAGE & MECHANICAL EQUIPMENT ROOM	300 SF	419	•		2	2





STF 840 9) 19 911 N. W PHONE 50149 TIONS RENO ш TIP MUL 5, HALIFAX, NC 27839 LITTLETON, NC 27850 S Ο Ŏ $\boldsymbol{\mathcal{O}}$ $\overline{\mathbf{O}}$ S $\overline{}$ Ο **N** -48 C \mathbf{O} S HALIF, 16683 8492 N PROJECT NO: 630516 JANUARY 17, 2024 REVISIONS DATE DESCRIPTION LIFE SAFETY INFORMATION

LS2.1

J			
1			
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G			
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С			
В			
A			

ARCHITECTURAL ABBREVIATIONS

A-PT ABS	ACCENT PAINT AIR BARRIER SYSTEM	GT GWT OVD	GLASS TILE GLAZED WALL TILE	SV SWM	SHEET VINYL SECURITY WOVEN MESH / W
ABV ACP	ABOVE ACOUSTICAL CEILING PANEL	GYP H	GYPSUM HIGH	SYM T	SYMMETRICAL TREAD
ACT	ACOUSTICAL CEILING TILE ALUMINUM CLAD WINDOW	HB HBD	HOSE BIBB HARDBOARD	T&G T.O.	TONGUE & GROOVE TOP OF
ADJ AFF	ADJUSTABLE ABOVE FINISHED FLOOR	HDC HDNR	HOLD DOWN CLIPS HARDENER	TCF	TACKBOARD TEXTILE COMPOSITE FLOOR
AHJ AHU	AUTHORITY HAVING JURISDICTION AIR HANDLING UNIT	HDWD HDWR	HARDWOOD HARDWARE	TEL TERR-C	TELEPHONE TERRAZZO CEMENTITIOUS
ALT ALUM	ALTERNATE ALUMINUM	HM HORIZ	HOLLOW METAL HORIZONTAL	TERR-E TERR-R	TERRAZZO EPOXY TERRAZZO RUBBERIZED
AP APC	ACCESS PANEL ARCHITECTURAL PRECAST CONCRETE	HPC HPFP	HIGH PERFORMANCE COATINGS HIGH PERFORMANCE FLOOR PAINT	THHD THK	THRESHOLD THICKNESS, THICK
ARC AS	ABUSE RESISTANT COATING ALUMINUM STOREFRONT	HT HVAC	HEIGHT HEATING, VENTILATING, AIR CONDITIONING	TOS TOW	TOP OF STEEL TOP OF WALL
AUTO AVG	AUTOMATIC AVERAGE	ID IN	INSIDE DIAMETER INCH, INCHES	TS TV	TACK STRIP TELEVISION
AW AWC	ALUMINUM WINDOW ACOUSTICAL WALL COVERING	INCL INFO	INCLUDE, INCLUDING INFORMATION	TYP UC	TYPICAL UNDERCUT
AWP BD	ACOUSTICAL WALL PANEL BOARD	INST INSUL	INSTALLATION INSULATION	UG UH	UNDERGROUND UNIT HEATER
BF BLDG	BARRIER FREE (ADA or A117.1) BUILDING	INT IRWC	INTERIOR IMPACT RESISTANT WALL COVERING	UNO VAT	UNLESS NOTED (INDICATED) VINYL ASBESTOS TILE
BLKG	BLOCKING	IWB	INTERACTIVE WHITE BOARD	VB	
BRG	BEARING	JCT	JUNCTION	VDB VERT	VISUAL DISPLAY BOARD
BUR	BUILT-UP ROOF	L		VEST	
C-TILE		LAHJ	LOCAL AUTHORITY HAVING JURISDICTION	VFWC	VINTE FREE COMPOSITION T VINYL FREE WALLCOVERING
CAB CB		LAW		VR VT	VAPOR RETARDER VINYL TILE
CEM	CEUSED CIRCUIT TELEVISION CEMENT			VIR VW	
CFSF-NS CFSF-S	COLD FORMED STEEL FRAMING, NON-STRUCTURAL COLD FORMED STEEL FRAMING, STRUCTURAL		LOCKER LINEAR METAL CEILING	W	WIDE, WIDTH
CG CI	CORNER GUARD CONTINUOUS INSULATION	LPS LT	LAMINATE PANEL SYSTEM LIGHT	W/ W/O	WITH WITHOUT
CIPC CJ	CAST IN PLACE CONCRETE CONTROL JOINT	LVR M	LOUVER METER	WC WCP	WATER CLOSET WOOD CEILING PANEL
CL CLG	CLOSET CEILING	MACH MAS	MACHINE MASONRY	WD WDW	WOOD WINDOW
CLR CM	CLEAR CENTIMETER	MATL MAX	MATERIAL MAXIMUM	WP WPT	WATERPROOFING WORKING POINT
CMBD CMU	CEMENT BOARD CONCRETE MASONRY UNIT	MB MCM	MARKERBOARD METAL COMPOSITE MATERIAL	WSCT WSF	WAINSCOT WOOD SPORTS FLOORING
CMU-A CMU-GF	CONCRETE MASONRY UNIT - ACOUSTICAL CONCRETE MASONRY UNIT - GROUND FACE	MCP MDO	METAL CEILING PANEL MEDIUM DENSITY OVERLAY	WT WWF	WEIGHT WELDED WIRE FABRIC
CMU-GLZ CMU-SPLF	CONCRETE MASONRY UNIT - GLAZED CONCRETE MASONRY UNIT - SPLIT FACE	MECH MED	MECHANICAL	XPS	EXTRUDED POLYSTYRENE
CO	CLEANOUT	MEMB	MEMBRANE		
		MIF			
CONC-PMT		MIR			
CONC-POL CONC-SLR	CONCRETE VITH CURE & SEAL	MISC	MISCELLANEOUS MOLDING		
CONC-ST	CONSTRUCTION	MO MPS	MASONRY OPENING MANUAL PROJECTION SCREEN		
CONT CONTR	CONTINUOUS CONTRACTOR	MR MT	MAP RAIL MOUNT		
CORR CSMU	CORRIDOR CAST STONE MASONRY UNIT	MTD MTL	MOUNTED METAL		
CT CTSK	CERAMIC TILE COUNTERSINK, COUNTERSUNK	NA NIC	NOT APPLICABLE NOT IN CONTRACT		
CU FT CUST	CUBIC FEET / FOOT CUSTODIAN / CUSTODIAL	NO. NOM	NUMBER NOMINAL		
CW CWFD	ALUMINUM CURTAIN WALL CEMENTITIOUS WOOD FIBER DECK	NRC NTS	NOISE REDUCTION COEFFICIENT NOT TO SCALE		
D DBL	DEPTH/DEEP DOUBLE	OC OD	ON CENTER OUTSIDE DIAMETER		
DEMO	DEMOLITION	OFCI	OWNER FURNISHED CONTRACTOR INSTALLED		
DF		OPP HD			
DHM	DETENTION HOLLOW METAL	P-TILE	PORCELAIN TILE		
DIA DIAG	DIAGONAL	PC PERF	PRECAST PERFORATED, PERFORATION(S)		
DIM DIV	DIMENSION DIVISION	PERIM PIP	PERIMETER POURED IN PLACE		
DL DN	DOOR LOUVER DOWN	PLAM PLAS	PLASTIC LAMINATE PLASTER		
DP DR	DAMPPROOFING DISPLAY RAIL	PLWD PLYWD	PLASTIC LAMINATE WOOD PLYWOOD		
DS DTL	DOWNSPOUT DETAIL	PNL POLY	PANEL, PANELING POLYETHYLENE		
DWG DWR	DRAWING DRAWER	PPS PPT	POWER PROJECTION SCREEN PRESSURE- OR PRESERVATIVE-TREATED		
EA EF	EACH EXHAUST FAN	PR PREFAB	PAIR PREFABRICATED		
EFS EIFS	EXTERIOR FINISH SYSTEM EXTERIOR INSULATION & FINISH SYSTEM	PREFIN PREP	PREFINISHED PREPARE / PREPARATION		
EJ	EXPANSION JOINT	PS PSB	PROJECTION SCREEN PENCIL SHARPENER BLOCK		
ELAS		PSF	POUNDS PER SQUARE FOOT		
ELEV	ELEVATOR	PT	PAINT		
EPS	EXPANDED POLYSTYRENE	PTS	PARTITION PNEUMATIC TUBE SYSTEM		
EPX EQ	EQUAL	PVC PVMT	POLYVINYL CHLORIDE PAVEMENT		
EQUIP ETR	EQUIPMENT EXISTING TO REMAIN	PVWC QSM	PERFURATED VINYL WALL COVERING QUARTZ SURFACING MATERIAL		
EVCT EWC	ENHANCED VINYL COMPOSITION TILE ELECTRIC WATER COOLER	QT QTY	QUARRY TILE QUANTITY		
EX EXH	EXISTING EXHAUST	R R/W	RIGHT OF WAY		
EXP EXPC	EXPANSION EXPOSED CONSTRUCTION	RAD RAF	RADIUS RESILIENT ATHLETIC FLOORING		
EXT FAAF	EXTERIOR FLUID APPLIED ATHLETIC FLOORING	RB RCP	RESILIENT BASE REFLECTED CEILING PLAN		
FD FDN	FLOOR DRAIN FOUNDATION	RD REFG	ROOF DRAIN REFRIGERATOR		
FE FEB	FIRE EXTINGUISHER FIRE EXTINGUISHER BRACKET	REINF REM	REINFORCING, REINFORCE(D) RECESSED ENTRY MAT		
FEC FF	FIRE EXTINGUISHER CABINET FINISHED FLOOR	REQ'D RES	REQUIRED RESINOUS FLOORING		
FGL FH	FIBERGLASS FIRE HYDRANT	RFT RH	RUBBER FLOOR TILE RIGHT HAND		
FHC	FIRE HOSE CABINET	RL	RAIN LEADER		
FIN	FINISHED	RO	ROUGH OPENING RUBBER SHEET ELOORING		
FLRG	FLOORING FACE OF	RSR	RESILIENT STAIR RISER RESILIENT STAIR TREAD		
FRM	FRAME FIBERGLASS REINFORCED DLASTIC	RT			
FRT	FIRE RETARDANT TREATED	SAB	SOUND ATTENUATION BLANKET		
FTG	FOOTING	SC-PLK SC-PNL			
FURN FVC	FURNITURE FIRE VALVE CABINET	SCH SF	SUREDULE SQUARE FEET / FOOT		
⊦WC GA	FABRIC WALL COVERING GAUGE	SFRM SHM	SPRAYED FIRE RESISTANT MATERIAL SECURITY HOLLOW METAL		
GAL GALV	GALLON GALVANIZED	SHTG SIM	SHEATHING SIMILAR		
GB GB-AR	GYPSUM BOARD GYPSUM BOARD - ABUSE RESISTANT	SPEC SPF	SPECIFICATION SPRAYED POLYURETHANE FOAM		
GB-IR GB-S	GYPSUM BOARD - IMPACT RESISTANT GYPSUM BOARD - SECURITY	SPR SQ	SPRINKLER SQUARE		
GFRC GFRG	GLASS FIBER REINFORCED CONCRETE GLASS FIBER REINFORCED GYPSUM	SQ FT SRD	SQUARE FEET / FOOT SECONDARY ROOF DRAIN		
GL GL-BLK	GLASS, GLAZING GLASS BLOCK	SS SSM	STAINLESS STEEL SOLID SURFACE MATERIAL		
GPM GRT	GALLONS PER MINUTE GROUT	ST STC	STREET SOUND TRANSMISSION COEFFICIENT		
GSFT	GLAZED STRUCTURAL FACING TILE	STD STI	STANDARD		
		STRUCT	STRUCTURAL		

SUSP

SUSPENDED



EDGES (ALL SIDES). REINFORCE WITH MESH EQUIVALENT TO FLOOR SLAB

G. PATCH AND PAINT AS NEEDED AND/OR REQUIRED WHERE DEMOLITION AND NEW

REINFORCING REQUIREMENTS.

WORK HAS OCCURRED TO MATCH EXISTING.



A0.1

DOLYURETHANE

GYPSUM BOARD / SHEATHING

A. AT FIRE-, SMOKE-, AND ACO CONDITIONS IN ACCORDANC CONDITION ENCOUNTERED TO-DECK (PARALLEL OR PER
B. AT ALL OTHER WALLS INDIC OBSTRUCTED HEAD-OF-WAI RECOMMENDATIONS BASED PERPENDICULAR TO FLUTES WALL AS INDICATED OR REC
C. AT ALL WALLS PREVENTED F OBSTRUCTIONS, COMPLY W • AT FIRE-, SMOKE-, AND ASSEMBLY RATING CO • AT SECURITY WALLS: • AT OTHER WALLS: ENO • SEAL ENCASEMENT TO SYSTEM MANUFACTUR
WITH WALL/PARTITIO
BOTTOM OF DECK
BRACE WALL AS INDICATED, OR WHERE NOT INDICATED, AS APPROVED
DO NOT SECURE ENCASEMENT TO
SEALANT SYSTEM: REFER T
HEAD-OF-WA OBSTRUCTION MAY VARY
BOTTOM OF DECK OR CAP
BRACE WALL
AS INDICATEL OR WHERE N INDICATED, A APPROVED —
HEAD-OF-WAI



/	<
	- INTERIOR PANEL FURRING, WHERE OCCURS
	- PANEL JOINT OR RATED JOINT SYSTEM AT RATED PANEL CONSTRUCTION
	- WALL ORIENTATION AND FIRE RATING LOCATIONS WILL VARY
	- MAINTAIN JOINT CLEAR OF MORTAR/GROUT
	- "TEE" TYPE PREFORMED CONTROL JOINT GASKET
	- MECHANICAL ANCHORS
	- CONTINUOUS 3/8" JOINT W/ BACKER ROD & SEALANT AT CMU
	- INTERIOR PANEL FURRING, WHERE OCCURS
	- PANEL JOINT OR RATED JOINT SYSTEM AT RATED PANEL CONSTRUCTION

 STRUCTURAL REINFORCING REQUIREMENTS CHANGES IN WYTHE E. THE TERMS "WALL" AND "PARTITION" MAY BE USED INTERCHANGEABLY THROUGHOUT THE CONTRACT DOCUMENTS. F. PARTITIONS THAT DO NOT EXTEND TO UNDERSIDE OF DECK OR CAP ABOVE: EXTEND 4 INCHES MINIMUM ABOVE HIGHEST ADJACENT FINISH CEILING UNLESS INDICATED OTHERWISE. G. DO NOT CONNECT TIES, ANCHORS, OR REINFORCING TO SINGLE CANTILEVERED FIRE WALL OR BETWEEN DOUBLE

FIRE WALLS. H. SEAL AROUND ALL PENETRATIONS.

- I. COMPLY WITH TERMINATION, WALL JOINT, AND MISCELLANEOUS DETAILS FOR THOSE CONDITIONS WHERE
- APPLICABLE. COMPLY WITH REFERENCED STANDARDS WHERE DETAILS ARE NOT IDENTIFIED IN THE DRAWINGS. J. WALL/PARTITION TYPES DO NOT ADDRESS WALL FINISHES. REFER TO FINISH SCHEDULE.
- K. FINISHED SPACES: PROVIDE CHASES AROUND ALL EXPOSED VERTICAL COMPONENTS, INCLUDING BUT NOT LIMITED TO: DUCTWORK, PIPING, AND CONDUIT, UNLESS COMPONENTS ARE SPECIFICALLY INDICATED TO REMAIN EXPOSED. IF NOT OTHERWISE INDICATED, PROVIDE P2 CHASE CONSTRUCTION.
- HOLD CHASES TIGHT TO COMPONENTS ALLOWING FOR ACCESS, INSULATION, AND TOLERANCES. • EXTEND CHASES FROM FLOOR TO 4 INCHES MINIMUM ABOVE FINISH CEILING OR IF NO CEILING IS INDICATED, EXTEND CHASES TO UNDERSIDE OF FLOOR DECK, ROOF DECK, OR SOLID CAP ABOVE AND TERMINATE ACCORDINGLY.
- .. PROVIDE BACKER BOARD/UNIT OF SAME THICKNESS INDICATED IN LIEU OF GYPSUM BOARD PANEL AT PORTIONS OF WALLS/PARTITIONS TO RECEIVE TILE.

PANEL WALL/PARTITION TYPES								
MARK	FIRE RATED ASSEMBLY (REFER TO LS 1.1 FOR LEGEND)	REMARKS	INFORMATION					
P1			4 7/8" 3 5/8" CFSF-NS 5/8" GYPSUM BOARD					
P2		PROVIDE AT PLUMBING CHASES	2 1/4" 1 5/8" CFSF-NS 5/8" GYPSUM BOARD					
P 3		PROVIDE AT KNEE WALLS	4 1/4" 3 5/8" CFSF-NS 5/8" GYPSUM BOARD					

MASONRY UNIT WALL/PARTITION TYPES							
MARK	FIRE RATED ASSEMBLY (REFER TO LS 1.1 FOR LEGEND)	REMARKS	INFORMATION				
M1			5 5/8" 6" CMU				

WALL/PARTITION TYPE GENERAL NOTES

A. PLAN DIMENSIONS ARE TO FACE OF WALL OR PARTITION. WHERE APPLIED FINISHES OCCUR-SUCH AS CERAMIC TILE-DIMENSIONS ARE TO FACE OF APPLIED FINISH. FOR WAINSCOTS, FLOOR PLAN DIMENSIONS ARE TO FACE OF WAINSCOT MATERIAL. APPLIED FINISHES ARE NOT ALLOWED TO REDUCE CLEAR DIMENSIONS. "APPLIED FINISHES" IN THIS CASE DO NOT INCLUDE TRIM, BASE, AND ACOUSTIC WALL PANELS.

- B. EXTEND WALL/PARTITION ASSEMBLY COMPONENTS FULL HEIGHT OF ASSEMBLY.
- C. ALL INTERIOR CFSF PANEL PARTITIONS: P1 UNLESS INDICATED OTHERWISE.

D. REFER TO STRUCTURAL DRAWINGS AND RELATED SPECIFICATIONS FOR SOLID MASONRY, GROUTING, AND

- REINFORCEMENT REQUIREMENTS INCLUDING BUT MAY NOT BE LIMITED TO:
- MASONRY WALLS/PARTITIONS LINTELS
- LINTEL BEARING CONDITIONS BOND BEAMS
- SHELF BEARING CONDITIONS





TYPES, WALL JOINTS AND TERMINATIONS

A0.2



(C5)-







CORRIDOR C100

DEMO	LITION PLAN LEGEND APPLIES TO DRAWINGS A1.0
	EXISTING PARTITION/ WALL/ ITEM TO RE
	REMOVE EXISTING PARTITION/WALL/ITE
	REMOVE EXISTING WINDOW ASSEMBLY FRAMING, INCLUDING ANCHORS
	REMOVE EXISTING DOOR AND FRAME A INCLUDING DOOR HARDWARE, ANCHOF THRESHOLD (WHERE OCCURS).
	REMOVE EXISTING PLUMBING FIXTURE. PLUMBING DEMOLITION PLAN FOR ADDI INFORMATION.
	SAWCUT EXISTING CONCRETE SLAB AS FOR REMOVAL AND INSTALLATION OF U REFER TO PLUMBING DRAWINGS.

DEMOLITION PLAN GENERAL NOTES A. FIELD VERIFY EXISTING CONDITIONS AND DIMENSIONS INDICATED ON THE DRAWINGS. COORDINATE THE SCOPE, DIMENSIONS, AND EXTENT OF DEMOLITION WORK TO BE PERFORMED WITH THE WORK. PLAN DIMENSION FOR EXISTING CONDITIONS ARE TO FACE OF FINISH В.

- NOTED. THICKNESS OF MASONRY BASED ON NORMAL SIZES. ALL DIMENSIONS SHOWN FOR EXISTING CONSTRUCTION ARE APPROXIMATE. C. ALL EXPOSED SURFACES AFFECTED BY THE DEMOLITION WORK AND
- WHICH SHALL REMAIN EXPOSED TO VIEW SHALL BE PATCHED MATCH EXISTING ADJACENT SURFACES UNLESS SPECIFICALLY INDICATED OTHERWISE. ACTUAL FIELD CONDITIONS WHICH ARE CONCEALED BY EXISTING D.
- CONSTRUCTION MAY VARY FROM THOSE INDICATED ON THE DRAWINGS. INVESTIGATE AND EMASURE EXTENTS OF ANY CONFLICTS AND PROMPTLY SUBMIT A WRITTEN REPORT TO THE ARCHITECT.
- THEIR TEMPORARY RELOCATION OF EXISTING EQUIPMENT IN WORK AREAS. ROOMS 242, 244, 268, 269, 271, C109: REMOVE EXISTING CEILING TILES AND GRIDS, LIGHT FIXTURES, AND DIFFUSERS. REMOVE AND
- REPLACING CEILING GRID AS NEEDED FOR WORK ABOVE CEILING. REFER TO MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR EXTENT OF DEMOLITION ABOVE FINISHED CEILING. ROOMS 268, 269, 271, C109: REMOVE VCT FLOORING.
- ROOMS 242, 244: PROTECT EXISTING FLOORING UNO. H.

DEMOLITION PLAN KEYNOTES REPRESENTED BY n APPLIES TO DRAWINGS A1.n SERIES

1	REMOVE FULL HEIGHT OF CMU WALL AND PLUMBING TO EXTE PER STRUCTURAL.
2	REMOVE CASEWORK AND SINK, WHERE OCCURS
3	REMOVE DISHWASHER
4	REMOVE EXHAUST HOOD
5	REMOVE AND PROTECT EXISTING SMARTBOARD FOR RE-INST.
6	REMOVE GAS VALVE AND PIPING AT EACH STUDENT AND DEMI STATION. REFER TO PLUMBING DEMOLITION PLANS.
7	REMOVE EMERGENCY EYE WASH
8	REMOVE CHALKBOARD. REMOVE AND REINSTALL WHITEBOAR
9	REMOVE FUME HOOD AND CASEWORK
10	REMOVE EMERGENCY EYE WASH & SHOWERHEAD
11	ALL EXISTING RANGES AND REFRIGERATORS TO BE REMOVED DEMOLITION. COORDINATE WITH OWNER SCHEDULE.
12	REMOVE & REPLACE WATER HEATERS. REFER TO PLUMBING I





A1.0

		FINISH SC	HEDULE	- SOUTH	EAST HA	LIFAX HIC	ЭН SCHO	OL
						WALLS		
NUMBER	NAME	FLOOR	BASE	NORTH	EAST	SOUTH	WEST	CEILIN
242	CHEMISTRY & PHYSICS LAB	EX	RB	PT	PT	PT	PT	ACP
244	PREP ROOM	EX	RB	PT	PT	PT	PT	ACP
268	CULINARY CLASSROOM	VCT	RB	PT	PT	PT	PT	ACP-1
269	CULINARY LAB	RES	RB	EPX PT	EPX PT	EPX PT	EPX PT	ACP-2, GY
269A	DRY STORAGE	RES	RB	EPX PT	EPX PT	EPX PT	EPX PT	ACP

FINISH SCHEDULE - NORTHWEST HALIFAX HIGH SCHOOL								
				WALLS				
NUMBER	NAME	FLOOR	BASE	NORTH	EAST	SOUTH	WEST	CEILING
C109	CHEMISTRY & PHYSICS LAB	VCT	RB	PT	PT	PT	PT	ACP-1

	INTERIOR FINISH LEGEND - BASIS OF DESIGN								
SPECIFICATION	TAG	MATERIAL	MANUFACTURER	PRODUCT - COLOR					
	-		· · · ·						
95100	ACP-1	ACOUSTICAL CEILING PANELS	ARMSTRONG	SCHOOL ZONE FINE FISSURE					
95100	ACP-2	ACOUSTICAL CEILING PANELS	ARMSTRONG	ULTIMA HEALTH ZONE					
	•								
96513	TS-1	TRANSISTION STRIP	SCHLUTER SYSTEM	SCHIENE WITH RADIUS PROFILE, SS MATERIAL					
	+								
96513	RB-1	RUBBER BASE	TARKETT	4"H RUBBER COVE BASE; COLOR TBD					
	*			· · · ·					
96519	VCT-1	VINYL COMPOSITION TILE	TARKETT	VCT II; COLOR TBD					
	•								
96700	RES-1	RESINOUS FLOORING	DUR-A-FLEX	HYBRI-FLEX, MICRO-CHIP, COLOR TBD					
	•								
99100	EPX-PT	EPOXY PAINT	BENJAMIN MOORE	LOW VOC					
99100	PT-1	PAINT	BENJAMIN MOORE	LOW VOC					



FLOOR PLAN KEYNOTES REPRESENTED BY

APPLIES TO DRAWINGS A2.n

- 1 TRANSACTION COUNTER
- 2 INFILL WITH CONCRETE BLOCK. PROVIDE PAINTED FINISH TO MATCH ADJACENT WALL
- 3 SMARTBOARD (NIC)
- 4 WHITEBOARD (NIC)
- 5 FUME HOOD
- 6 DECK-MOUNTED EYE WASH
- 7 CHEMICAL STORAGE CABINET
- 8 PLUMBING CHASE, INSIDE CLEAR: 10"WX7"D
- 9 PLUMBING CHASE, INSIDE CLEAR: 12"WX7"D
- 10 PLUMBING CHASE, ALIGN WITH WIDTH OF COLUMN X 9"D
- 11 42" KNEE WALL UNO
- 12 EXISTING SHOWER BASIN & DRAIN. NEW SHOWERHEAD FIXTURE PER PLUMBING
- 13 ALIGN CASEWORK 14 CORNER GUARD
- 15 ALIGN KNEE WALL AND CASEWORK WITH DOOR FRAME
- 16 ALIGN HEIGHT OF KNEE WALL TO EXISTING WINDOW SILL.
- 17 EMERGENCY EYE WASH & SHOWER COMBO













	DOO	RS
		C
NUMBER	TYPE	MA
269A	F	WD
269B	ОН	STL



VARIES (PARTITION PERPENDICULAR TO FRAME)

INTERIOR BETWEEN THE JAMB -

BUTTED HEAD/JAMB/SILL

- ____ ___ +

ეფ ME PTN &

4

A3.1

6" = 1'-0"

SCHEDULE - SOUTHEAST COLLEGIATE PREP ACADEMY

00	n								
						HEAD	JAMB	SILL	
Ľ	LOUVER	UC	TYPE	NUMBER	SECTIONS	DETAIL	DETAIL	DETAIL	NOTES
			STL	1	A	2	2	2	
			CD	1		6	7		INTEGRATED COUNTERTOP

GENERAL NOTES

- A. UNLESS INDICATED OTHERWISE, ALL DETAIL NUMBERS IN THE DOOR AND FRAME SCHEDULE FOR HEAD, JAMB AND SILL CONDITIONS REFER TO DRAWINGS A3.1.
- B. DOOR AND FRAME DETAILS INDICATE GENERAL CHARACTERISTICS OF DOOR AND FRAME SIZES AND COMPONENTS AND MAY NOT INDICATE EXACT FIELD CONDITIONS OR REQUIREMENTS. COORDINATE DETAILS WITH OTHER DRAWINGS AND SPECS TO DETERMINE ALL COMPONENTS (E.G., SEALANTS, ANCHORS, HARDWARE, LINTELS, CLIPS) REQUIRED FOR COMPLETE AND FUNCTIONAL INSTALLATION.
- C. DOOR SWINGS ON FLOOR PLANS TAKE PRECEDENCE OVER SWINGS INDICATED ELSEWHERE (E.G., ELEVATIONS).
- D. ALL EXISTING DOORS TO REMAIN UNO.

D	OOR AND FRAME DETAIL KEYNOTE REPRESENTED BY n APPLIES TO DRAWINGS A3.1
1	ANCHORAGES, REINFORCING, SPECIFIC PARTITION CONSTRUCTIO LINTELS ARE NOT SHOWN FOR CLARITY.
2	REFER TO FRAME SECTION IN DOOR SCHEDULE FOR TYPE.
3	SEALANT, ALL SIDES - TOOL TO 90°.
4	BACKBEND RETURN @ GB LOCATIONS ONLY.
5	9/16" @ MAS; 1/2" @ GB.
6	1/4" @ JAMBS, UNO; DIMENSION @ HEAD & SILL VARIES.
7	BULLNOSE @ CMU JAMBS & SILLS.
8	0" @ GB LOCATIONS; 1/16" @ MAS LOCATIONS.
9	OVERHEAD DOOR INTERIOR JAMB TRACK SYSTEM
10	COILING COUNTER DOOR WITH INTEGRATED STAINLESS STEEL CO
11	CMU LINTEL. REFER TO STRUCTURAL DRAWINGS.



MANEUVERING CLEARANCE AT DOORS







STEEL FRAME SECTIONS









2' - 0"

1' - 0''

 $\rightarrow \rightarrow$





5	5	

















2 SOUTHEAST HS 242 NORTH ELEV. A2.0 A8.1 1/4" = 1'-0"

10

/ 11

SOUTHEAST HS 242 EAST ELEV. 3 A2.0 A8.1

=				
84				
FILLER-	36" 36"	36" 36"	36" 36"	



	REPRESENTED BY n	
	APPLIES TO DRAWINGS A8.1.n Series	
1 2 3 4 5 6 7 8 9 10	FINISH END PANEL ON ISLAND CABINETS; FILL IN GAP WITH A REMOVABLE PANEL TO HIDE PLUMBING LINES FINISH END PANEL ON ISLAND CABINET AND ADA APRON TOP CABINET PANEL ABOVE DRAWERS TO BE REMOVABLE TO ACCESS PLUMBING REMOVABLE APRON PANEL TO ACCESS PLUMBING VERTICAL CHASE TO CONCEAL PLUMBING EXHAUST PIPES; REFER TO A2.0 FOR SIZE ADA SINK FRONT W/ INTEGRAL TOE KICK EPOXY RESIN BEAKER DRYING RACK WITH 39 POLYPROPYLENE 6.5" PEGS AND INTEGRAL DRIP TROUGH; 30"W X 36"W FINISHED END PANEL INSTALL AN OUTLET ON BOTH SIDES OF THE PENINSULA RESIN COUNTERTOP BACKSPLASH TO WRAP AROUND ALL VERTICAL PLUMBING CHASES AND TOP OF LOW WALL; CORNERS TO BE MITERED AND SEALED RESIN COUNTER TO STEP DOWN TO ADA HEIGHT	 A. UNLESS INDICATED OTHERWISE, ALL COUNTERTOP(S): 2'-10" AFF MAX OR 2'-10" MAX TO TOP OF RIM AT DROP WHERE OCCURS 2'-1" DEEP BLACK RESIN TOP BACKSPLASHES: 4" HIGH AT ALL SIDES AND BACK EXTEND COUNTERTOP 1/2" PAST BASE CABINET AT AL VERIFY SLAB LEVELNESS AT CASEWORK PRIOR TO IN TOLERANCES DO NOT APPLY TO ACCESSIBLITY DIMEN SHALL BE MAINTAINED. UNLESS INDICATED OTHERWISE, ALL BASE CABINET(S): TOE KICKS: 4" NOMINAL HIGH (REDUCE AS NEEDED FO SINK LOCATIONS: 3'-0" WIDE CLEAR KNEE SPACE (NO FREE ACCESS SEALED WOOD CABINETS FIELD VERIFY CABINET DEPTHS IN FRONT OF PLUMBIN IN THESE LOCATIONS C. UNLESS INDICATED OTHERWISE, ALL WALL CABINET(S): 1'-0 1/2" DEEP NOMINAL 2-6" HIGH TOP AT 7'-0" AFF MINIMUM 11" CLEAR INTERIOR DEPTH SEALED WOOD CABINETS D. BUILT-IN EQUIPMENT: SIZE OPENING (HEIGHT, WIDTH, AN REQUIREMENTS AS REQUIRED BASED ON APPROVED MAR E. ALL SHELVES: ADJUSTABLE UNLESS INDICATED OTHERV F. PROVIDE FINISH END PANELS AT ALL EXPOSED CASEWO
11		G. LOCKS: AT INSTRUCTOR'S DESK AND TALL LAB STORAGE
12		
14	2 1/2"X2 1/2"X 185 STLANGLE BRACKET AT EACH SIDE OF APRON	
15	REMOVABLE WD PANEL 4'-0" WIDE MAX	
16	1X WD BACKER SCREW-ATTACHED TO STL BRACKET	
17	Z CLIP BRACKETS	
18	2 1/2"X2 1/2"X.185 STL ANGLE APRON CARRIER CONT	
19	FINISHED WD END PANEL BEYOND	
20	INSTALL EYE WASH - REFER TO PLUMBING DRAWINGS	
21	INSTALL TOP PANEL SURROUND ABOVE FUME HOOD TO CONCEAL DUCT	
22	COORDINATE CASEWORK COUNTER AND CABINETS WITH HEIGHT OF HOOD WORK AREA - MAX HEIGHT 34"	

4

A2.0 A8.1)



SPECIFICATIONS 123553.19



2'-10" AFF MAX OR 2'-10" MAX TO TOP OF RIM AT DROP-IN SINKS AND LAVATORIES

EXTEND COUNTERTOP 1/2" PAST BASE CABINET AT ALL EXPOSED CASEWORK ENDS VERIFY SLAB LEVELNESS AT CASEWORK PRIOR TO INSTALL. CONSTRUCTION TOLERANCES DO NOT APPLY TO ACCESSIBLITY DIMENSIONS; MAX DIMENSIONS





A8.1

6683 492

PROJECT NO: 630516 DATE: JANUARY 17, 2024

REVISIONS DATE DESCRIPTION

- ∞

RCP - NORTHWEST HALIFAX HIGH SCHOOL







APPLIES TO DRAWINGS A10.1 MECHANICAL EQUIPMENT CONTINUOUS COUNTERFLASHING. EXTEND UP AS FAR AS POSSIBLE BEHIND CAP. PROFILE TO FIT TIGHT. SECURE THROUGH CAP FACE WITH EXPOSED (ASTENERS @ 8" O.C. ROOF CURB THERMOPLASTIC FLASHING, FULLY-ADHERED. HEAT WELD TO MEMBRANE, EXTEND UP AND SECURE WITH TERMINATION BAR THROUGH TAPE SEALANT @ "O.C. TERMINATION BAR, SECURE @ 8" O.C. THROUGH BUTYL TAPE THERMOPLASTIC MEMBRANE, TURN UP MINIMUM 2" AND SECURE TO CURB W/ TERMINATION BAR	REFER TO M, E & FP DRAWINGS FOR ROOF SYMBOLS NOT INDICAT WALKWAY PATH WIDICATES DIRECTION OF ROOF ASSEMBLY SLOPE ROOF PLAN GENERAL NOTES A. ALL ROOF ASSEMBLIES EXISTING TO REMAIN. B. ROOF PLAN DOES NOT INDICATE ALL EQUIPMENT AND PENETRATIONS	ED BE
AECHANICAL EQUIPMENT CONTINUOUS COUNTERFLASHING. EXTEND UP AS FAR AS POSSIBLE BEHIND CAP. PROFILE TO FIT TIGHT. SECURE THROUGH CAP FACE WITH EXPOSED CASTENERS @ 8" O.C. ROOF CURB THERMOPLASTIC FLASHING, FULLY-ADHERED. HEAT WELD TO MEMBRANE, EXTEND UP AND SECURE WITH TERMINATION BAR THROUGH TAPE SEALANT @ "O.C. TERMINATION BAR, SECURE @ 8" O.C. THROUGH BUTYL TAPE THERMOPLASTIC MEMBRANE, TURN UP MINIMUM 2" AND SECURE TO CURB W/ TERMINATION BAR	 WALKWAY PATH MDICATES DIRECTION OF ROOF ASSEMBLY SLOPE ROOF PLAN GENERAL NOTES A. ALL ROOF ASSEMBLIES EXISTING TO REMAIN. ROOF PLAN DOES NOT INDICATE ALL EQUIPMENT AND PENETRATIONS)
ARCHANICAL EQUIPMENT CONTINUOUS COUNTERFLASHING. EXTEND UP AS FAR AS POSSIBLE BEHIND CAP. PROFILE TO FIT TIGHT. SECURE THROUGH CAP FACE WITH EXPOSED (ASTENERS @ 8" O.C. ROOF CURB THERMOPLASTIC FLASHING, FULLY-ADHERED. HEAT WELD TO MEMBRANE, EXTEND UP AND SECURE WITH TERMINATION BAR THROUGH TAPE SEALANT @ "O.C. TERMINATION BAR, SECURE @ 8" O.C. THROUGH BUTYL TAPE THERMOPLASTIC MEMBRANE, TURN UP MINIMUM 2" AND SECURE TO CURB W/ TERMINATION BAR	 INDICATES DIRECTION OF ROOF ASSEMBLY SLOPE ROOF PLAN GENERAL NOTES A. ALL ROOF ASSEMBLIES EXISTING TO REMAIN. B. ROOF PLAN DOES NOT INDICATE ALL EQUIPMENT AND PENETRATIONS 	>
CONTINUOUS COUNTERFLASHING. EXTEND UP AS FAR AS POSSIBLE BEHIND CAP. PROFILE TO FIT TIGHT. SECURE THROUGH CAP FACE WITH EXPOSED (ASTENERS @ 8" O.C. ROOF CURB THERMOPLASTIC FLASHING, FULLY-ADHERED. HEAT WELD TO MEMBRANE, EXTEND UP AND SECURE WITH TERMINATION BAR THROUGH TAPE SEALANT @ "O.C. TERMINATION BAR, SECURE @ 8" O.C. THROUGH BUTYL TAPE THERMOPLASTIC MEMBRANE, TURN UP MINIMUM 2" AND SECURE TO CURB W/ TERMINATION BAR	 INDICATES DIRECTION OF ROOF ASSEMBLY SLOPE ROOF PLAN GENERAL NOTES A. ALL ROOF ASSEMBLIES EXISTING TO REMAIN. B. ROOF PLAN DOES NOT INDICATE ALL EQUIPMENT AND PENETRATIONS 	
ROOF CURB THERMOPLASTIC FLASHING, FULLY-ADHERED. HEAT WELD TO MEMBRANE, EXTEND UP AND SECURE WITH TERMINATION BAR THROUGH TAPE SEALANT @ "O.C. TERMINATION BAR, SECURE @ 8" O.C. THROUGH BUTYL TAPE THERMOPLASTIC MEMBRANE, TURN UP MINIMUM 2" AND SECURE TO CURB W/ TERMINATION BAR	A. ALL ROOF ASSEMBLIES EXISTING TO REMAIN. B. ROOF PLAN DOES NOT INDICATE ALL EQUIPMENT AND PENETRATIONS	}
THERMOPLASTIC FLASHING, FULLY-ADHERED. HEAT WELD TO MEMBRANE, EXTEND UP AND SECURE WITH TERMINATION BAR THROUGH TAPE SEALANT @ "O.C. TERMINATION BAR, SECURE @ 8" O.C. THROUGH BUTYL TAPE THERMOPLASTIC MEMBRANE, TURN UP MINIMUM 2" AND SECURE TO CURB W/ TERMINATION BAR	A. ALL ROOF ASSEMBLIES EXISTING TO REMAIN. B. ROOF PLAN DOES NOT INDICATE ALL EQUIPMENT AND PENETRATIONS	<u>}</u>
TERMINATION BAR, SECURE @ 8" O.C. THROUGH BUTYL TAPE THERMOPLASTIC MEMBRANE, TURN UP MINIMUM 2" AND SECURE TO CURB W/ TERMINATION BAR	A. ALL ROOF ASSEMBLIES EXISTING TO REMAIN.B. ROOF PLAN DOES NOT INDICATE ALL EQUIPMENT AND PENETRATIONS	
HERMOPLASTIC MEMBRANE, TURN UP MINIMUM 2" AND SECURE TO CURB W/ ERMINATION BAR	B. ROOF PLAN DOES NOT INDICATE ALL EQUIPMENT AND PENETRATIONS	
IOT AIR WELD	OTHER DISCIPLINE'S DRAWINGS FOR QUANTITIES AND LOCATIONS OF EQUIPMENT AND ASSOCIATED PENETRATIONS.	3. REI - ROO
	C. COORDINATE LOCATION AND SIZE OF ROOF OPENINGS AND ASSOCIATIONS WITH STRUCTURE.	TED
XISTING ROOF	D. ROOF DETAILS MAY NOT ENTIRELY REPRESENT ACTUAL EXISTING OR CONDITIONS ACTUAL DETAIL ASSEMBLIES SHALL BE APPROVED BY	
STRUCTURAL DECK	MANUFACTURER.	
HEET METAL FLASHING	E. ROOF PLAN DOES NOT INDICATE ALL ROOFING DETAILS (INCLUDING B TO ROOF DRAINS; VTR; CURBS; EXPANSION JOINTS; ROOF HATCHES). DETAILS AS REQUIRED TO SUIT SPECIFIC APPLICATION AND SPECIFIC	UT NO PRO ATION
ASTENER @ 4" O.C.	F. PROVIDE CRICKETS AT DRAINS, WALLS, CURBS, MECHANICAL EQUIPM	IENT,
APE CAULK	OBSTRUCTIONS SUCH THAT 1/4" PER FOOT MINIMUM POSITIVE DRAIN/ MAINTAINED AT ALL SUCH AREAS.	AGE S
UBE CAULK	G. PROVIDE DOUBLE-LAYER OF MEMBRANE ROOFING MATERIAL UNDER	SPLA
ROUND PENETRATION	H. CENTER ALL PENETRATIONS BETWEEN RIBS OF METAL ROOFING. PIF AND CURBS SHALL BE OFFSET AS REQUIRED TO ACHIEVE PENETRATION	'ING, [IONS (
SEALANT	BETWEEN RIBS.	
TAINLESS STEEL COMPRESSION BAND		
RE-MOLDED PIPE BOOT, HEAT WELDED TO MEMBRANE		
RIVETS @ 1-1/2" O.C.		
XISTING ROOF EXPANSION JOINT		
ACKAGED ROOFTOP UNIT		
	SEALANT STAINLESS STEEL COMPRESSION BAND PRE-MOLDED PIPE BOOT, HEAT WELDED TO MEMBRANE RIVETS @ 1-1/2" O.C. EXISTING ROOF EXPANSION JOINT PACKAGED ROOFTOP UNIT EXHAUST FAN	AND CURBS SHALL BE OFFSET AS REQUIRED TO ACHIEVE PENETRATION SEALANT STAINLESS STEEL COMPRESSION BAND PRE-MOLDED PIPE BOOT, HEAT WELDED TO MEMBRANE RIVETS @ 1-1/2" O.C. EXISTING ROOF EXPANSION JOINT PACKAGED ROOFTOP UNIT EXHAUST FAN

—(E)

— В

		ROOI APPLIES TO RE	- ASSEIVIBLIES A10.n SERIES OF DRAWINGS PRESENTED BY n	
MARK	FIRE RATED ASSEMBLY (REFER TO LS1.1 FOR LEGEND)	REMARKS	INFORMATION	ROOF ASSEMBLIES ARE DIAGRAMMATICALLY. F SPECS FOR REQUIRED AND MATERIAL THICKNI
RFA1	\bigcirc	EXISTING ASSEMBLY AT SOUTHEAST COLLEGIATE PREP ACADEMY. PATCH AS NEEDED FOR INSTALLATION OF MECHANICAL/STRUCTURAL EQUIPMENT.		- BUILT-UP ROOFING - ROOF INSULATION - VAPOR/AIR BARRIER MEI - 5/8" GYPSUM BOARD - METAL DECK
RFA2	\bigcirc	EXISTING ASSEMBLY AT NORTHWEST COLLEGIATE & TECH ACADEMY. PATCH AS NEEDED FOR INSTALLATION OF MECHANICAL EQUIPMENT.		- METAL ROOF PANEL, SEAMED JOINT - UNDERLAYMENT - ROOF INSULATION - VAPOR/AIR BARRIER MEI - METAL DECK

 $\stackrel{\text{PROJECT}}{\bigoplus} NORTHWEST HALIFAX HIGH SCHOOL$

FS.01

FOOD SERVICE EQUIPMENT PLAN

							FO	DD SI	ERVIC	E EQI	JIPME	NT SCHE	DULE								
									ELECTRIC	CAL						PLUMBING	6				
OTV		DESCRIPTION	MANUEACTURER	MODEL		ELECTRICAL		ЦБ			DUASE						11.07			DW	DEMARKO
		SHELVING LINIT	MANUFACTORER	MODEL		A.F.F.	r.vv		AIVIP5	VOLIS	PHASE	INEIVIA	HVV SIZE	ΠW/A.F.F.	CW SIZE	CW/A.F.F.	100	TIFE	Dvv	A.F.F. 5-T	
5	018	SHELVING UNIT	METRO	5056763	018								++							5-1 5-T	TIER (4) 74" POSTS POLYMER
1	010		EXISTING	PESET	015	24"		1/2	2.5	120	1	5_15D	+ +								
1	02		EXISTING	DESET	02	24		1/3	3.5	120	1	5 15P									
1	03		EXISTING	RESET	03	24		1	8.0	120	· ·	5-15P								VE	RIFT UTILITIES WITH OWNER
1	04			- EBB2	04	24"		1/2	2.5	120	1	5 15D									
2	05			EDR2	05	24		1/3	3.5	120	1	5-15P	1/0"	4.4"	1/0"	1.4"	0"	F O			
1	06			FIN2040-2-24-14/3	00								1/2	14	1/2	14	2	F.S.		PR	RE-RINSE FAUCET W/ADD-ON FAUCET, (2) LEVER WASTE
1	07	OVERSHELF W/POT RACK	AERO MANUFACTURING	2005P-10108	07	50"			10.0	100	-	5.45D								MC	JUNI 5-6" A.F.F.
1	08	FOOD PROCESSOR	ROBOT COUPE		08	50"		4/0	12.0	120	1	5-15P									
1	09		HOBART	84145-1	09	50"		1/2	9.5	120	1	5-15P	+ +							EQ	QUIPMENT STAND
6	10	MOBILE UTILITY CART	EXISTING	RESET	10								4/01	07115							
8	11	WORKTABLE WITH WELD-IN SINK	EAGLE GROUP	T3096STEM-BS	11					100			1/2"	STUB	1/2"	STUB		F.S.		WE	ELD-IN 10" x 14" x 9-1/2" SINK BOWL, DECK MOUNT FAUCET, LEVER WASTE
6	12	5 QT. MIXER	HOBART	N50-60	12	U.C.		1/6	2.9	120	1	C&P									
1	14	SPARE NUMBER	-	-	14																
1	18	72" DEMO TABLE	AERO	DEMO-3672-MOD	18								1/2"	STUB	1/2"	STUB		F.S.		WE	ELD-IN 10" x 14" x 9-1/2" SINK BOWL, DECK MOUNT FAUCET, LEVER WASTE
1	19	6-BURNER HOTPLATE, COUNTERTOP	EXISTING	RESET	19	24"			38.0	208	3	DIRECT								EQ	QUIPMENT STAND, VERIFY UTILITIES WITH OWNER
1	20	HEATED PROOFING CABINET	EXISTING	RESET	20	24"			15.0	120	1	5-15P								CA	ASTERS, VERIFY UTILITIES WITH OWNER
1	21	GRIDDLE, ELECTRIC, COUNTERTOP	EXISTING	RESET	21	24"			48.0	208	1	DIRECT								EQ	QUIPMENT STAND, VERIFY UTILITIES WITH OWNER
1	22	CONVECTION STEAMER, SINGLE	ACCUTEMP PRODUCTS	E62081D060 SGL	22	24"			29.0	208	1	L6-30P								NO	D WATER AND DRAIN CONNECTION
1	23	CONVECTION OVEN, SINGLE	BLODGETT	MARK V-100 SGL	23	24"			31.0	208	3	DIRECT								CA	ASTERS
1	24	EXHAUST HOOD	CAPTIVEAIRE	ND2-PSP	24	ABV.			20.0	120	1	(2) DIRECT								RE	FER TO VENTILATION CONNECTION SCHEDULE
1	25	FIRE SUPPRESSION SYSTEM	ANSUL	R-102	25															WE	ET CHEMICAL
4	27	INGREDIENT BIN	CAMBRO	IBS27148	27															CA	ASTERS
2	30	HAND SINK, WALL MOUNT	EAGLE GROUP	HSA-10-FA	30								1/2"	14"	1/2"	14"			2"	0' - 10" SIE	DE SPLASH WHERE REQUIRED
1	31	ICE MAKER, AIR COOLED	EXISTING	RESET	31	68"			10.6	120	1	DIRECT			3/8"	64"	1"	F.S.		WA	ATER FILTER, VERIFY UTILITIES WITH OWNER
1	31.1	ICE BIN	EXISTING	RESET	31.1												1"	F.S.			
1	32	DISHTABLE W/POT SINKS	EAGLE GROUP	SDTPR-124-14/3	32								(2) 1/2"	14"	(2) 1/2"	14"	2"	F.S.		(2)	FAUCET, (4) LEVER WASTE
1	33	PRE-RINSE UNIT	T&S BRASS	B-0133	33								1/2"	14"	1/2"	14"					
1	34	DISHWASHER, DOOR TYPE, HIGH TEMP VENTLESS ELECTRIC	HOBART	AM16VLT-BAS	34	24"			53.7	208	3	SINGLE POINT	3/4"	14"	3/4"	14"	1"	F.S.		VE	ENTLESS, SINGLE POINT CONNECTION
1	35	CLEAN DISHTABLE, STRAIGHT, LEFT HANDED	EAGLE GROUP	CDTL-72-14/3	35															RA	ACK SHELF MOUNTED AT 5'-4" A.F.F.
6	36	MOBILE SHELVING UNIT. POLYMER/WIRE. 4-TIER	METRO	Q556EG3	36															CA	ASTERS
1	37	RACK, UNIVERSAL	CHANNEL MANUFACTURING	AXD-UTR-12	37															CA	ASTERS
1	38	BEVERAGE COUNTER	EAGLE GROUP	BEV3072SEM-10BS/L	38								1/2"	14"	1/2"	14"		F.S.		FA	UCET, LEVER WASTE, TROUGH
1	39	MERCHANDISER, HYBRID	FEDERAL INDUSTRIES	CD3628SS/RSS3SC	39	24"		1/2	16.0	120	1	5-20P								EN	JERGY SAVING NIGHT COVER
				220020001100000					1010			0 201			I	1		I			

	ABBREVIATIONS
ABV.	ABOVE
A.F.F.	ABOVE FINISHED FLOOR
CTR.	COUNTER MOUNTED
C.W.	COLD WATER
E.C.	ELECTRICAL CONTRACTOR
F.D.	FLOOR DRAIN
F.S.	FLOOR SINK
F.S.E.C.	FOOD SERVICE EQUIPMENT CONTRACTOR
G.C.	GENERAL CONTRACTOR
H.W.	HOT WATER
I.W.	INDIRECT WASTE
M.C.	MECHANICAL CONTRACTOR
N.I.K.C.	NOT IN KITCHEN CONTRACT
S/S	STAINLESS STEEL
ST.	STUB
U.C.	UTILITY CHASE
W.	WASTE

110° F. HOT WATER REQUIREMENTS							
MOP SINK	-	5					
HAND SINK	2 @ 5	10					
	TOTAL	15					
140° F. HOT WATEF	GPH						
POT SINKS	3 @ 30	90					
PREP SINKS	9 @ 20	180					
DISHWASHER, VENTLESS	FROM BOOSTER @ 20 PSI	26.8					
	TOTAL	296.8					

	VENTILATION CONNECTION SCHEDULE											
ITEM	CONNECTION	SIZE	CFM	S.P.	QTY.	TOTAL						
24A	EXHAUST	12" DIA.	1330	-0.560"	1	1330						
24B	EXHAUST	14" DIA.	1900	-0.722"	1	1900						

EXISTING EQUIPMENT:

TRADES TO DISCONNECT KITCHEN EQUIPMENT IN KITCHEN.

FOOD SERVICE EQUIPMENT CONTRACTOR TO MOVE IN & SET IN PLACE THOSE ITEMS INDICATED AS RESET.

OWNER TO REMOVE ALL EXISTING EQUIPMENT FROM SITE.

THE DATA ON EXISTING EQUIPMENT IS THE BEST AVAILABLE AT THE TIME THESE DRAWINGS WHERE PREPARED, AND IS OFFERED FOR PLANNING PURPOSES ONLY. THE CONTRACTOR SHALL FIELD VERIF ALL DATA PRIOR TO ROUGHING-IN UTILITIES FOR EXISTING EQUIPMENT ELECTRICAL LOADS ARE BASED ON MANUFACTURER'S INFORMATION. MINIMUM CIRCUIT AMPACITY AND OVERCURRENT PROTECTION TO BE DETERMINED BY CODE REQUIREMENTS AND/OR MANUFACTURER'S DIRECTIONS.

PLUMBING CONTRACTOR TO PROVIDE BACKFLOW PREVENTION DEVICE FOR ALL BEVERAGE EQUIPMENT, COOKING EQUIPMENT, DISHMACHINES, AND ICE MACHINES AS REQUIRED BY CODE

FS.02

FOOD SERVICE EQUIPMENT SCHEDULE

FOOD SERVICE PLUMBING AND ELECTRICAL PLAN

FOOD SERVICE EXHAUST HOOD DETAILS

G	E	Ν	Ε	R	Α	L
-						

- 1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE NORTH CAROLINA BUILDING CODE (NCBC), 2018 EDITION, EFFECTIVE JANUARY 1, 2019.
- 2. THE STRUCTURAL DRAWINGS ARE INTENDED TO BE USED IN CONJUNCTION WITH THE ARCHITECTURAL DRAWINGS AND THE DRAWINGS OF THE OTHER ENGINEERING DISCIPLINES.
- THE CONTRACT DOCUMENTS ARE COMPLEMENTARY AND WHAT IS REQUIRED BY ONE SHALL BE AS BINDING AS IF REQUIRED BY ALL. IN THE CASE OF A CONFLICT, DISAGREEMENT, OR AMBIGUITY, PROVIDE THE BETTER QUANTITY. IN THE CASE OF A CONFLICT, DISAGREEMENT, OR AMBIGUITY, PROVIDE THE GREATER QUANTITY OF WORK.
- 4. VERIFY AND COORDINATE MECHANICAL UNIT SUPPORTS AND OPENINGS WITH EQUIPMENT PURCHASED FOR THE PROJECT. COORDINATE REQUIREMENTS FOR SLEEVES, HANGERS, INSERTS, ANCHORS AND ALL OTHER ITEMS TO BE SET IN STRUCTURAL WORK.
- 5. CONTRACTOR SHALL CONDUCT PRE-INSTALL MEETINGS ON PROJECT SITE PRIOR TO COMMENCEMENT OF WORK. REFER TO PROJECT SPECIFICATIONS FOR SPECIFIC REQUIREMENTS. MEETINGS WILL BE LED BY GENERAL CONTRACTOR AND ATTENDANCE BY MOSELEY ARCHITECTS IS FOR INFORMATIONAL PURPOSES ONLY. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE ATTENDANCE OF ALL REQUIRED TRADES AND SUBCONTRACTORS INCLUDING THE SPECIAL INSPECTOR.

FOUNDATIONS

- 1. THE GEOTECHNICAL ENGINEER FOR THE OWNERS TESTING AGENCY SHALL VERIFY BEARING CAPACITY AND SUITABILITY OF SUBGRADE PRIOR TO PLACING GRADE SLABS.
- 2. SELECT AND PLACE CONTROLLED COMPACTED FILL UNDER DIRECT SUPERVISION OF THE GEOTECHNICAL ENGINEER FOR THE OWNER'S TESTING AGENCY. 3. FOOTING STEPS FOR UNDERSLAB UTILITIES INDICATED ON FOUNDATION PLANS SHALL BE CONSIDERED APPROXIMATE. COORDINATE FOOTINGS WITH ACTUAL LOCATION, SIZE AND INVERT OF ALL UNDERGROUND PIPE (AND CONDUIT). REFER TO "FOOTING STEP" DETAIL TO STEP WALL FOOTING DOWN TO ALLOW UNDERSLAB PIPING TO PASS ABOVE THE FOOTING. ALTERNATELY, REFER TO "FOOTING SLEEVE" AND "PIPE TRENCH BACKFILL AT FOOTING" DETAILS TO ALLOW UNDERSLAB PIPING TO PASS BELOW THE TOP OF THE WALL FOOTING.
- 4. AVOID INFLUENCE OF PIPE TRENCH PARALLEL TO WALL FOOTING AND / OR ADJACENT TO COLUMN FOOTING. REFER TO "FOOTING EXCAVATION LIMITS"

CONCRETE

- 1. ALL CONCRETE WORK SHALL CONFORM TO THE REQUIREMENTS OF ACI 318 "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE" AND ACI 301 "STANDARD SPECIFICATIONS FOR STRUCTURAL CONCRETE".
- 2. CONCRETE SHALL BE NORMAL WEIGHT (OR LIGHTWEIGHT AS INDICATED) AND SHALL OBTAIN ULTIMATE 28 DAY COMPRESSIVE STRENGTH OF 4,000 PSI (F'c). 3. REINFORCING STEEL SHALL BE AS FOLLOWS:
- REINFORCING BARS:
- ASTM A615, GRADE 60, DEFORMED
- ASTM A1064, SHEET TYPE ONLY WELDED WIRE FABRIC: 4. MINIMUM CONCRETE COVER OVER REINFORCING SHALL BE UNO:
- A. UNFORMED SURFACE CAST AGAINST EARTH B. FORMED SURFACE EXPOSED TO EARTH/WEATHER 2 IN
- C. FORMED SLABS AND WALLS NOT EXPOSED TO EARTH/WEATHER FOR #11 AND SMALLER BAR 3/4 IN
- D. ALL OTHER FORMED ELEMENTS NOT EXPOSED TO EARTH/WEATHER 1 1/2 IN

CONCRETE MASONRY UNITS (CMU

1. ALL MASONRY WORK SHALL CONFORM TO THE REQUIREMENTS OF TMS 402 "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES WITH COMMENTARY" AND TMS 602 "SPECIFICATIONS FOR MASONRY STRUCTURES WITH COMMENTARY".

NET AREA COMPRESSIVE STRENGTH OF CONCRETE MASONRY(F'm), SHALL BE 2000 PSI, DETERMINED IN ACCORDANCE WITH THE UNIT STRENGTH METHOD PER TMS 602, UNLESS NOTED OTHERWISE.

- 3. GROUT SHALL CONFORM TO ASTM C476 AND SHALL BE PROPORTIONED TO OBTAIN MINIMUM ULTIMATE 28 DAY COMPRESSIVE STRENGTH OF 2500 PSI.
- 4. PLACE GROUT IN ACCORDANCE WITH TMS 402. ALLOW A MINIMUM OF 4 HOURS FOR MASONRY TO SET PRIOR TO PLACING GROUT.

5. FILL COLLAR JOINTS OF COMPOSITE WALLS SOLID WITH MORTAR AS THE WALLS PROGRESS. BOND WYTHES OF COMPOSITE WALLS TOGETHER USING HORIZONTAL JOINT REINFORCING @ 16" ON CENTER, UNLESS NOTED OTHERWISE.

> 34 INCHES 38 INCHES

> 45 INCHES

6. PROVIDE VERTICAL REINFORCING STEEL OF SIZE AND SPACING INDICATED. LAP SPLICE LENGTHS SHALL BE AS FOLLOWS:

7. PROVIDE POSITIONERS TO HOLD VERTICAL WALL REINFORCING STEEL IN PROPER ALIGNMENT

- 8. REINFORCING STEEL SHALL COMPLY WITH ASTM A615, GRADE 60.
- 9. DO NOT PLACE CONDUIT IN CELLS CONTAINING STRUCTURAL REINFORCING.
- 10. AVOID PLACING CONDUIT IN CELLS CONTAINING STRUCTURAL REINFORCING, WHERE POSSIBLE.
- 11. NO SWITCHES OR BOXES WITHIN 20 INCHES OF A DOOR JAMB.
- 12. MASONRY WALLS OF HOLLOW UNITS WHICH CHANGE THICKNESS SHALL HAVE A CONTINUOUS GROUT FILLED COURSE BELOW THE TRANSITION. IF WALL THICKNESS IS GREATER ABOVE THE TRANSITION, THE COURSE ABOVE THE TRANSITION SHALL ALSO BE GROUTED SOLID.
- 13. FILL CMU CELLS WITH GROUT FROM TOP OF FOOTING TO TOP OF SLAB-ON-GRADE ELEVATION.

14. MASONRY WALL CONTROL JOINTS ARE NOT INDICATED ON THE STRUCTURAL DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS FOR JOINT LOCATIONS AND DETAILS. COORDINATE JOINT LOCATIONS TO AVOID BEAM BEARING LOCATIONS. DO NOT BREAK BOND BEAM REINFORCEMENT AT CONTROL JOINTS.

TEMPORARY SHORING

1. PROVIDE TEMPORARY SHORING AND BRACING TO MAINTAIN THE EXISTING STRUCTURE IN PROPER ALIGNMENT UNTIL PERMANENT CONSTRUCTION AND LATERAL BRACING IS IN PLACE.

- THE TEMPORARY SHORING DIAGRAMS ARE CONCEPTUAL ONLY. DESIGN OF TEMPORARY SHORING SHALL BE PROVIDED BY THE CONTRACTOR. DESIGN CALCULATIONS AND SHORING DRAWINGS SHALL BE SUBMITTED FOR REVIEW AND SHALL BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF NORTH CAROLINA.
- 3. CAREFULLY EVALUATE THE SITUATION WHICH EXISTS PRIOR TO COMMENCEMENT OF WORK. NOTIFY THE ARCHITECT IF ANY CONDITIONS ARE DETECTED WHICH MAY AFFECT THE STABILITY OF THE EXISTING STRUCTURE OR THE SHORING.
- 4. MONITOR THE PERFORMANCE OF THE TEMPORARY SHORING AT ALL TIMES DURING THIS WORK AND HAVE ADDITIONAL SHORING READILY AVAILABLE ON SITE IN THE EVENT OF DEFLECTION OR OTHER MOVEMENT OF THE SHORING.

STRUCTURAL STEEL

- 1. ALL STRUCTURAL STEEL WORK SHALL CONFORM TO THE FOLLOWING AISC DOCUMENTS: AISC 360 "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS"
- AISC 303 "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES" RCSC'S "SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH STRENGTH BOLTS"
- 2. STRUCTURAL STEEL SHALL COMPLY WITH THE FOLLOWING SPECIFICATIONS:
- WIDE FLANGE SHAPES, CHANNELS AND MISC CHANNELS ANGLES, S-SHAPES AND M-SHAPES PLATES & BARS (TO 4" THICK) PLATES & BARS (OVER 4" THICK)
- HIGH STRENGTH BOLTS (CONVENTIONAL) WASHERS ANCHOR RODS
- ASTM A992 (FY=50 KSI ASTM A572 (FY=50 KSI) ASTM A572 (FY=50 KSI) ASTM A36 (FY=32 KSI) ASTM F3125, GRADE A325 OR A490 (TYPE 1) ASTM F436 (FLAT AND BEVELED) ASTM F1554, GRADE 55 INCLUDE SUPPLEMENT S1 E70 (LOW HYDROGEN)

RENOVATION

WELDING ELECTRODES

1. EXISTING CONSTRUCTION INDICATED ON THE STRUCTURAL DRAWINGS IS BASED ON INFORMATION OBTAINED FROM THE ORIGINAL DESIGN DRAWINGS AND ON LIMITED OBSERVATIONS OF EXISTING CONDITIONS. THIS INFORMATION, INCLUDING STRUCTURAL COMPONENT TYPE, SIZE AND ORIENTATION HAS NOT BEEN CONFIRMED IN ALL CASES, AND MAY NOT MATCH "AS-BUILT" EXISTING CONSTRUCTION. ALL EXISTING CONDITIONS AND DIMENSIONS RELATING TO THE NEW WORK SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO FABRICATION AND CONSTRUCTION OF STRUCTURAL ELEMENTS. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT.

2. EXISTING CONSTRUCTION IS INDICATED USING A LIGHTER LINE WEIGHT THAN NEW CONSTRUCTION IN PLANS AND SECTIONS.

LINTEL NOTES

1. LINTELS FOR ARCHITECTURAL OPENINGS (WINDOWS, DOORS, LOUVERS) IN BEARING WALLS AND EXTERIOR WALLS ARE IDENTIFIED BY MARK NUMBER ON THE FRAMING PLAN(S) AND INCLUDED IN THE LINTEL SCHEDULE.

LINTELS FOR ARCHITECTURAL OPENINGS IN NON-LOAD BEARING WALLS AND OTHER WALLS WHICH ARE NOT INDICATED ON THE FRAMING PLAN(S) SHALL BE CONSTRUCTED PER NOTES BELOW.

A. STEEL ANGLE LINTELS

PROVIDE ONE ANGLE FOR EACH NOMINAL 4" OF WALL THICKNESS PER THE FOLLOWING SCHEDULE.

MASONRY OPENING JP TO 5'-0"

5'-1" TO 6'-0"

6'-1" TO 7'-0"

OVER 7'-0"

- FOR OPENINGS IN 10" CMU, HORIZONTAL LEGS OF ANGLES SHALL BE A COMBINATION OF 5" AND 4".
- FOR OPENINGS IN 6" CMU REQUIRING STEEL LINTELS, USE WT7x11 UP TO 7'-0" OPENING.
- 3. LINTELS FOR MECHANICAL DUCTWORK PENETRATIONS NOT OTHERWISE DETAILED SHALL BE AS PROVIDED IN NOTE A ABOVE.
- 4. LINTELS SHALL BEAR 8" ONTO SOLID OR GROUT FILLED MASONRY, UNLESS OTHERWISE INDICATED
- 5. LINTELS ARE REQUIRED OVER ALL MASONRY OPENINGS GREATER THAN 8" IN WIDTH.
- 6. LINTELS ARE NOT REQUIRED ABOVE HOLLOW METAL FRAMES IN OPENINGS 3'-4" OR LESS IN 6" NON-BEARING MASONRY PARTITIONS. GROUT HEAD OF FRAMES SOLID BEFORE PLACING MASONRY.
- 7. ALL LINTELS IN EXTERIOR WALLS SHALL BE GALVANIZED.

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G			
F			
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D			
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B			
A			

			ABBREVIATIONS				GRAPHICS SYM	BOLS LEGEND	
Ø	AT	EWC	ELECTRIC WATER COOLER	OSD	OPEN SITE DRAIN	— X" XXX		0	
ĂĂV	AIR ADMITTANCE VALVE	EWH	ELECTRIC WATER HEATER	PC	PRECAST			POINT OF CONNECTION TO EXIS	3TING
ABV	ABOVE	EX	EXISTING	PCF	POUNDS PER CUBIC FOOT	PIPE WITH SIZ	ZE AND SERVICE		
AC-X	AIR COMPRESSOR DESIGNATION	EXP	EXPANSION	PD	PUMP DISCHARGE	FLOW IN DIRE	ECTION OF ARROW		
ADJ	ADJUSTABLE	FCO	FLOOR CLEANOUT	PLUMB	PLUMBING				
ADNL	ADDITIONAL	FD	FLOOR DRAIN	PLYWD	PLYWOOD	PITCH DOWN	IN DIRECTION OF ARROW AT INDICATED SLOPE	30 KEYNOTE	
AFF		FDC		POLY				*	
AFG				PPI	PRESSURE PRESERVATIVE TREATED			_	
		FFE					DOWN		
		FG		PSE				STRUCTURAL GRID LINE WITH L	JESIGNATION
AP	ACCESS PANEL	FHC	FIRE HOSE CABINET	PSI	POUNDS PER SQUARE INCH	O PIPE TURNED) UP		
APPR	APPROXIMATE	FHS	FIRE HOSE STATION	PV	PROPANE VENT			A123 SPACE IDENTIFICATION TAC	
ARCH	ARCHITECTURAL	FHVC	FIRE HOSE VALVE CABINET	PVC	POLYVINYL CHLORIDE			SPACE IDENTIFICATION TAG	
AUTO	AUTOMATIC	FIX	FIXTURE	PVMT	PAVEMENT		WN	SPACE NUMBER	
AVG	AVERAGE	FLR	FLOOR	R	RISER			BUILDING AREA (WHEN USED)	
BFF	BELOW FINISHED FLOOR	FLSHG	FLASHING	RAD	RADIUS			AUL 02	
BFG	BELOW FINISHED GRADE	FOR	FUEL OIL RETURN	RCP-X	RECIRCULATION PUMP DESIGNATION		PIPE REDUCTION		AG
BLDG	BUILDING	FOS	FUEL OIL SUPPLY	RD					
BO	BOTTOM OF	FOV	FUEL OIL VENT	RDS	ROOF DRAIN (SIDE OUTLET)		CLEANOUT PLUG		
BOI	BOTTOM	FS		REF			NOUT		
BSIMI	BASEMENT	FSD		REQU		WCO L			
		F I EV/C	FIDE VALVE CARINET	REQIVIT	REQUIREMENTS		OUT	SECTION WHERE CUT	
CL	CAST IRON	G	GAS	RM	ROOM		OUT (CLEANOUT TO GRADE)	SECTION LETTER	
CIP	CAST-IN-PLACE CONCRETE	GCO	GRADE CLEANOUT	RO	ROUGH OPENING				IS INDICATED
CL	CENTERLINE	GWH	GAS WATER HEATER	RV	RADON VENT	FLOOR DRAIN	N WITH TAG		
CLG	CEILING	HB	HOSE BIBB	S	SOUTH			ENLARGED PLAN WHERE C	<u>.UT</u>
CLR	CLEAR	HORIZ	HORIZONTAL	SAN	SANITARY		WITH TAG	ENLARGED PLAN NUMBER	
CMP	CORRUGATED METAL PIPE	HP	HORSEPOWER	SCH	SCHEDULE			P6.1 DRAWING WHERE ENALRG	ED PLAN IS INDICAT
CNTR	COUNTER	HR-X	HOSE REEL DESIGNATION	SD	STORM DRAINAGE PIPING				
CO	CLEANOUT	HTG	HEATING	SDN	STORM DRAIN NOZZLE		AUGE WITT GAUGE COCK	<u>DETAIL TAG</u>	
COL	COLUMN	HW	HOT WATER	SF	SQUARE FOOT/FEET	ıE]			
CONC		HWR		SHI	SHEET			P6.1 - DRAWING WHERE DETAIL I	S INDICATED
CONDS		HWS		SIM	SIMILAR		DIHERMOMETER		
CONSTR		ID IN		SOC	SEALANT SLAB ON GRADE	Г <u> </u>		SANITARY RISER TAG	
CONTR	CONTRACT(-OR)	INSUI		SP	SLIMP PLIMP	A		SANITARY RISER IDENTIFIE	R
CORR	CORRIDOR	INV	INVERT	SPEC	SPECIFICATION	WATER HAMM	MER ARRESTOR (PLUMBING & DRAINAGE	P6.1 DRAWING WHERE SANITAR	Y RISER IS TAGGED
CP		JAN	JANITOR	SPR	SPRINKLER	INSTITUTE SIZ	ZE INDICATED)		
CR	CLASSROOM	KIT	KITCHEN	SQ	SQUARE			DOMESTIC RISER TAG	
СТ	COOLING TOWER	KW	KITCHEN WASTE	SRD	SECONDARY ROOF DRAIN	FLOW SWITCH	H	D1 DOMESTIC RISER IDENTIFIE	<u>-</u> R
CU	COPPER	LAB	LABORATORY	SS	STAINLESS STEEL	^		P6.1 DRAWING WHERE DOMEST	IC RISER IS TAGGED
CU FT	CUBIC FEET	LAV	LAVATORY	SSD	SECONDARY STORM DRAINAGE PIPING		RE/PRESSURE PLUG	-	
CU YD	CUBIC YARD	LBS	POUNDS	STD	STANDARD			\frown	
CW	COLD WATER	LF	LINEAR FOOT (FEET)	STL	STEEL			1 DETAIL TITLE	
DB	DRY BULB	LP	PROPANE	STOR	STORAGE		ER		
DCW	DOMESTIC COLD WATER			STRUCT	STRUCTURAL			P2.2 P6.2 1/4"=1-0"	
DEMO		MAIL	MATERIAL	505P		GAS COCK		P2.4 DETAIL NUMBER	
				דטע דטע					ED
DHR(140)	DOMESTIC HOT WATER RETURN (140°)	MECH		ТІТ			WW METER	ADDITIONAL DRAWING REFERENCES	\$
DHW	DOMESTIC HOT WATER	MED	MANUFACTURER	TMV	THERMOSTATIC MIXING VALVE		ANCING VALVE		
DHW(140)	DOMESTIC HOT WATER (140°)	MH	MANHOLE	TOSL	TOP OF SLAB			S1 CANITADV DIGED NIA	GRAM
DI	DROP INLET	MIN	MINIMUM	TW	DOMESTIC TEMPERED WATER (90° F)		BALANCING VALVE WITH FLOW TAPS	UN SAMITART RISER DIA	
DIA	DIAMETER	MISC	MISCELLANEOUS	TYP	TYPICAL			P2.2 P4.2 1/4"=1'-0"	
DIP	DUCTILE IRON PIPE	MTD	MOUNTED	UG	UNDERGROUND			P2.3 SANITARY RISER DIAGRAM IDENTIFIE	ER
DN	DOWN	Ν	NORTH	UNO	UNLESS NOTED (INDICATED) OTHERWISE		EDUCING VALVE	P2.4 DRAWING WHERE SANITARY RISER I	S INDICATED
DR-X	COMPRESSED AIR DRYER DESIGNATION	N/A	NOT APPLICABLE/AVAILABLE	V	VENT	হি			S TAGGED
DS	DOWNSPOUT	NC	NORMALLY CLOSED	VAC	VACUUM			- ADDITIONAL DRAWING REFERENCES	,
DT		NG	NATURAL GAS	VB			PERATED VALVE		
		NGV	NATURAL GAS VENT	VERT		Å _T&P		/ D1, DOMESTIC RISER DIA	AGRAM
		NIC				TEMPERATUR	RE AND PRESSURE RELIEF VALVE		
				V I F. \\//				P2.3 P5.2 V/4 = 1 = 0	
F	FAST	NO., (#)	NOMINAL	VV \\//	WITH				
			ON CENTER	W/O	WITHOUT				IS TAGGED
ELEC	ELECTRICAL		OUTSIDE DIAMETER	WB	WATER HAMMER ARRESTER	HOSE BIBB OF	R WALL HYDRANT	ADDITIONAL DRAWING REFERENCES	; ;
ELEV	ELEVATION	OFCI	OWNER FURNISHED CONTRACTOR INSTALLED	WC	WATER CLOSET				
EPBD	ELECTRICAL PANELBOARD	OFF	OFFICE	WCO	WALL CLEANOUT		ESSURE PRINCIPLE BACKFLOW PREVENTER	G1 FILEL GAS DISED DIA	GRAM
EQ	EQUAL	ОН	OVERHEAD	WSHP	WATER SOURCE HEAT PUMP			ULL GAS RISER DIA	
EQUIP	EQUIPMENT	OPNG	OPENING	WWF	WELDED WIRE FABRIC		CK BACKFLOW PREVENTER	P2.2 P5.2 1/4"=1'-0"	
ETR	EXISTING TO REMAIN	OPP	OPPOSITE	WWM	WELDED WIRE MESH	\mathbf{k}		P2.3 FUEL GAS RISER DIAGRAM IDENTIFIE	<u>-</u> R
				XFMR	TRANSFORMER	PUMP		DRAWING WHERE FUEL GAS RISER I DRAWING WHERE FUEL GAS RISER I ADDITIONAL DRAWING REFERENCES	S INDICATED S TAGGED S

NORTHW PLUMB SERVICE SIZING INSTANTANE SUPPLY FI) DRAINAGE FI STORM DRAINAGE AREA OF R AREA OF WALL TOTAL ROOF D WATER HEATERS HOT W

WEST GENERAL DATA						
BING GENERAL	DATA					
Item	Value					
NEOUS DEMAND (GPM)	25 36					
FIXTURE UNITS (DFU)	20					
E ROOF (SQUARE FEET)	N/A					
ABOVE/ADJACENT TO ROOF QUARE FEET)	N/A					
DRAINAGE (SQUARE FEET)	N/A					
NUMBER	2					
VATER REQUIRED	10HWFU/15GPM					
FUEL USED	EL					

SOUTHEAST GENERA	L DATA
PLUMBING GENERAL	DATA
Item	Value
SERVICE SIZING	
INSTANTANEOUS DEMAND (GPM)	27
SUPPLY FIXTURE UNITS (SFU)	41
DRAINAGE FIXTURE UNITS (DFU)	100
AREA OF ROOF (SQUARE FEET)	N/A
AREA OF WALL ABOVE/ADJACENT TO ROOF (SQUARE FEET)	N/A
TOTAL ROOF DRAINAGE (SQUARE FEET)	N/A
WATER HEATERS	
NUMBER	1
HOT WATER REQUIRED	38HWFU/26GPM
FUEL USED	OIL

	GENERAL NOTES
A	. THE CONTRACT DOCUMENTS ARE COMPLEMENTARY AND WHAT IS REQUIRED BY SHALL BE AS BINDING AS IF REQUIRED BY ALL. IN THE CASE OF A CONFLICT, DISAGREEMENT, OR AMBIGUITY, PROVIDE THE BETTER QUALITY. IN THE CASE OF CONFLICT, DISAGREEMENT, OR AMBIGUITY, PROVIDE THE GREATER QUANTITY OF
В	. COORDINATE PIPING LOCATIONS AND INSTALLATION WITH EACH TRADE TO AVOID CONFLICTS WITH OTHER TRADES.
С	. PROVIDE FLOOR CLEANOUTS INDICATED FLUSH WITH FLOOR FINISHES.
D	. PROVIDE CLEANOUTS WHERE INDICATED AND ADDITIONAL CLEANOUTS AS REQU LOCAL CODE.
E	. REFER TO DRAWINGS FROM EACH DISCIPLINE BEFORE ROUGHING-IN PLUMBING FIXTURES.
F	. OBTAIN DIMENSIONS AND ROUTING IN FIELD BEFORE INSTALLATION OF PLUMBING FIXTURES.
G	. INSTALL ALL DRAINAGE PATTERN FITTINGS AND PIPING IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL CODES.
Н	. REFER TO STRUCTURAL DRAWINGS FOR DETAILS AND MAXIMUM SPACING REQUIREMENTS REGARDING HANGER ATTACHMENTS TO STEEL BAR JOISTS.
I.	PROVIDE ISOLATION VALVES IN ACCORDANCE WITH DIAGRAMS, DETAILS, AND DIV 22 SPECIFICATIONS.

NDICATED

AGGED

TAGGED

_____ ____

> UIRED BY ONE CASE OF A ANTITY OF WORK. TO AVOID

AS REQUIRED BY

UMBING

PLUMBING AND

ISTS. S, AND DIVISION

DEMOLITION KEYNOTES APPLIES TO THIS DRAWING - DEMO WORK REPRESENTED BY n

1D. REMOVE EXISTING DRAINAGE PIPING FROM LAB SINKS. REMOVE UNDERSLAB DRAINAGE PIPING AND LEAVE EXTENDED, EXISTING BUILDING DRAIN CAPPED FOR NEW CONSTRUCTION. 2D. REMOVE EXISTING AST-IRON PIPING WHERE DETERIORATED PAST USEFUL LIFE. FIELD VERIFY EXISTING CONDITION OF DRAINAGE PIPING. 1. PROVIDE NEW PVC DRAINAGE PIPING. CONNECT TO EXISTING CAST IRON DRAIN.

NORTHWEST HS - PLUMBING CHEM LAB FOUNDATION PROPOSED PLAN

DEMOLITION KEYNOTES

KEYNOTES APPLIES TO THIS DRAWING REPRESENTED BY n

1. PROVIDE NEW PVC DRAINAGE PIPING. CONNECT TO EXISTING CAST IRON DRAIN. 2. PROVIDE NEW CAST IRON DRAINAGE PIPING. CONNECT TO EXISTING CAST IRON DRAIN.

> $\bigoplus_{\mathbf{N}}$) <u>KEY PLAN</u> SOUTHEAST HALIFAX HIGH SCHOOL PROJECT

DEMOLITION KEYNOTES APPLIES TO THIS DRAWING - DEMO WORK REPRESENTED BY n

1D. REMOVE EXISTING DRAINAGE PIPING FROM LAB SINKS. REMOVE UNDERSLAB DRAINAGE PIPING AND LEAVE EXTENDED, EXISTING BUILDING DRAIN CAPPED FOR CONSTRUCTION. 2D. REMOVE EXISTING DOMESTIC WATER SUPPLY PIPING & GAS SUPPLY PIPING TO LAB SINK STUDENT STATIONS. CUT PIPING BACK TO WALL, UP TO DISTRIBUTION & CAP AT CEILING FOR CONTRUCTION. LEAVE GAS CAPPED IN CASEWORK, NEAR WALL WITH BALL VALVE. 3D. REMOVE EXISTING, ABOVEGROUND DOMESTIC WATER SUPPLY & GAS SUPPLY PIPING WITHIN INSTRUCTORS DESK. CAP FOR CONSTRUCTION. LEAVE GAS CAPPED IN CASEWORK, STUB UP AND PROVIDE BALL VALVE. 4D. REMOVE ANY VENTING ASSOCIATED WITH EXISTING LAB SINKS AND PROVIDE VENT CAP AT EXISTING VENT HEADERS WHERE NECESSARY. 5D. REMOVE EXISTING EMERGENCY EYEWASH & RETURN TO CAMPUS. CUT BACK WATER SUPPLY PIPING WHERE CORRODED & REMOVE DEFICIENT PIPE. CAP FOR CONSTRUCTION. 6D. REMOVE EXISTING DRENCHING SHOWERHEAD & RETURN TO CAMPUS. CUT BACK WATER SUPPLY PIPING WHERE CORRODED & REMOVE DEFICIENT PIPE. CAP FOR CONSTRUCTION. 7D. REMOVE EXISTING FLOOR DRAIN & STAINER. CAP DRAINAGE PIPING FOR CONSTRUCTION. IF FLOOR DRAIN TRAP IS NOT VENTED, PROVIDE INDIVIDUAL VENT & STACK DRAIN. FIELD VERIFY EXISTING CONDITIONS ONCE DEMO-PHASE HAS BEGUN. 8D. REMOVE EXISTING TANK TYPE WATER HEATERS & ASSOCIATED PIPING.

KEYNOTES APPLIES TO THIS DRAWING REPRESENTED BY n

1. PROVIDE POLYPROPLYNE ACID-RESISTANT DRAINACE PIPING & FUSION-WELDED FITTINGS FOR STUDENT STATION & INSTRUCTOR LAB SINKS.

- A. STUDENT STATION SINKS SHALL BE INSTALLED WITH POLYPROPELYNE ACID-RESISTANT DRUM TRAPS & LIMESTONE MEDIUM B. INSTRUCTOR STATION SINKS SHALL BE INSTALLED WITH IN-CABINET PH-NEUTRILIZATION & MONITORING SYSTEM. PROVIDE PH-MONITOR & HIGH-LEVEL ALARM WITH 20 GALLON DILLUTION BASIN & SAMPLING PORT. PROVIDE CHEMICAL-RESISTANT AIR ADMITTANCE VALVE WITHIN CASEWORK.
- 2. PROVIDE COPPER PIPING (SEE P0.0 SHEET FOR TYPE) WITHIN WALL AT DISTRIBUTION DROP LOCATIONS FOR STUDENT STATION SINKS. STUB COPPER OUT OF WALL WITHIN SHEATH & ROUTE SINK SUPPLY PIPING IN PEX. PROVIDE 1/2" DOMESTIC WATER RATED BALL VALVE WITHIN CASEWORK, BENEATH SINK CONNECTIONS. COLD NOT HOT.
- SINGLE TEMP. HOT & COLD AT INSTRUCTORS STATION.
- PROVIDE PVC DRAINAGE STACK, DOWNSTREAM OF POLYPROPLYNE PH-NEUTRILIZING SYSTEM. CONNECT 2" FIXTURE DRAIN U.G. TO EXISTING DRAINAGE LATERAL.
- 4. ROUTE A.C. VENT PIPING. PROVIDE VTR FOR DRAINAGE & VENT SYSTEM. 5. PROVIDE EMERGENCY EYEWASH & DRENCH SHOWERHEAD. RECONNECT PIPING INTO EXISTING WATER SUPPLY.
- 6. PROVIDE X2 TANK TYPE ELECTRIC WATER HEATERS, RECIRCULATION PUMP, EXPANSION TANK, PIPING AND VALVING. ONE FOR ONE. PROVIDE NEW THERMOSTATIC MIXING VALVE TO PROTECT LAB BUILDING STUDENT SINKS. CUT IN NEW 4" BACKFLOW PREVENTER ONTO EXISTING WATER SERVICE. PROVICE VERTICALLY CERTIFIED DEVICE, BRACE TO ADJACENT WALL.WALL.

- 1D. REMOVE EXISTING DRAINAGE PIPING FROM LAB SINKS. REMOVE UNDERSLAB DRAINAGE PIPING AND LEAVE EXTENDED, EXISTING BUILDING DRAIN CAPPED FOR CONSTRUCTION.
- 2D. REMOVE EXISTING DOMESTIC WATER SUPPLY PIPING & GAS SUPPLY PIPIING TO LAB SINK STUDENT STATIONS. CUT PIPING BACK TO WALL, UP TO DISTRIBUTION & CAP AT CEILING FOR CONTRUCTION. LEAVE GAS CAPPED IN CASEWORK, NEAR WALL WITH BALL VALVE.
- 3D. REMOVE EXISTING, ABOVEGROUND DOMESTIC WATER SUPPLY & GAS SUPPLY PIPING WITHIN INSTRUCTORS DESK. CAP FOR CONSTRUCTION. LEAVE GAS CAPPED IN CASEWORK, STUB UP AND PROVIDE BALL VALVE. 4D. REMOVE ANY VENTING ASSOCIATED WITH EXISTING LAB SINKS AND PROVIDE VENT CAP AT EXISTING VENT HEADERS WHERE NECESSARY.
- 5D. DEMO EXISTING EYEWASH STATION & CAP ROUGH-INS FOR FUTURE.

- 1. PROVIDE POLYPROPLYNE ACID-RESISTANT DRAINACE PIPING & FUSION-WELDED FITTINGS FOR STUDENT STATION & INSTRUCTOR LAB SINKS. A. STUDENT STATION SINKS SHALL BE INSTALLED WITH POLYPROPELYNE ACID-RESISTANT DRUM TRAPS & LIMESTONE MEDIUM
- MEDIOM B. INSTRUCTOR STATION SINKS SHALL BE INSTALLED WITH IN-CABINET PH-NEUTRILIZATION & MONITORING SYSTEM. PROVIDE PH-MONITOR & HIGH-LEVEL ALARM WITH 20 GALLON DILLUTION BASIN & SAMPLING PORT. PROVIDE CHEMICAL-RESISTANT AIR ADMITTANCE VALVE WITHIN CASEWORK.
- PROVIDE COPPER PIPING (SEE P0.0 SHEET FOR TYPE) WITHIN WALL AT DISTRIBUTION DROP LOCATIONS FOR STUDENT STATION SINKS. STUB COPPER OUT OF WALL WITHIN SHEATH & ROUTE SINK SUPPLY PIPING IN PEX. PROVIDE 1/2" DOMESTIC WATER RATED BALL VALVE WITHIN CASEWORK, BENEATH SINK CONNECTIONS. COLD NO HOT, SINGLE TEMP. HOT & COLD AT INSTRUCTOR STATION & EYEWASH SINK.
- PROVIDE PVC DRAINAGE STACK, DOWNSTREAM OF NEW POLYPROPLYNE PH-NEUTRILIZING SYSTEM. CONNECT 2" FIXTURE DRAIN U.G. TO EXISTING DRAINAGE LATERAL.
- 4. ROUTE A.C. VENT PIPING. PROVIDE VTR FOR DRAINAGE & VENT SYSTEM. 5. PROVIDE ADA COMPLIANT EMERGENCY EYEWASH & DRENCH SHOWER HEAD.

KEYNOTES APPLIES TO THIS DRAWING REPRESENTED BY

- ROUTE NEW HOT & COLD WATER UNDER SLAB, FLEXIBLE PIPING IN SHEATHE. PROVIDE WATER AT ISLAND SINK STATIONS.
- 2. EXTEND NEW DOMESTIC WATER BRANCH SUPPLY FROM EXISTING HEADER.
- CONNECT NEW HOT WATER LOOP TO EXISTING.
 PROVIDE GREASEWATCH 5 F.O.G. ALARM & MONITORING PANEL ON WALL FOR GB-50 GREASE WASTE INTERCEPTOR.

N PROJECT

DEMOLITION KEYNOTES APPLIES TO THIS DRAWING - DEMO WORK

- 1D. REMOVE EXISTING HOT WATER RECIRCULATING PUMP, ASSOCIATED PIPING/VALVES/SENSORS & CAP REMAINING PIPING SYSTEM FOR FUTURE.
- 3D. REMOVE EXISTING, IMPROVISED WOOD PIPE STAND AND REPLACE WITH WALL-SUPPORT.

KEYNOTES APPLIES TO THIS DRAWING

REPRESENTED BY n

- 1. PROVIDE RECIRCULATING PUMP, INSULATED PIPING, VALVES & IMMERSION WELL TEMPERATURE SENSORS. 2. SET WATER HEATER TEMPERATURE TO 120 DEGREES F. PROVIDE ASSE MASTER THERMOSTATIC MIXING VALVE AT WATER HEATER LIMITING TEMERATURE TO 120 DEGREES F. DOWNSTREAM OF HOT WATER OUTLET.
- 3. REPLACE HEATING OIL FILTER.
- 4. PROVIDE NEW, INSULATED PIPING WHERE DAMAGED PIPING REMOVED.
- 5. PROVIDE INLINE THERMAL EXPANSION TANK.
- 6. PROVIDE DOUBLE CHECK BACKFLOW PREVENTION DEVICE WITH SERVICE UNIONS & BALL VALVES.

SOUTHEAST HS BOILER ROOM - PLUMBING FLOOR PLAN

P2.4

J		
G		
F		
Е		
D		
С		
Г		
В		
A		

EQUIPMENT ABBREVIATION] [
AHUAIR-HANDLING UNITASAIR SEPARATORBBOILERBCUBLOWER COIL UNITCCCCLOSED-CIRCUIT COOLING TOWERCHCHILLED WATER PUMPCRACCOMPUTER ROOM AIR CONDTIONERCTCOOLING TOWERCUHCABINET UNIT HEATERCWPCONDENSER WATER PUMPECHELECTRIC CEILING HEATERERUENERGY RECOVERY UNITERVENERGY RECOVERY VENTILATORETEXPANSION TANKEUHELECTRIC UNIT HEATERFCUFAN COIL UNITHPHEAT PUMPHWPHOT WATER PUMPHXHEAT EXCHANGERMAUMAKEUP AIR UNITOAUOUTDOOR AIR UNITPPUMPPTACPACKAGED TERMINAL AIR CONDITIONERPTHPPACKAGED TERMINAL HEAT PUMPRTUROOFTOP UNITSSISPLIT-SYSTEM OUTDOOR UNITSSOSPLIT-SYSTEM OUTDOOR UNITTUTERMINAL UNITUHUNIT HEATERWSHPWATER-SOURCE HEAT PUMP	
	F

CONTROLS ABBREVIATIONS

AF AI	AIRFLOW
ALM	ALARM
AMS	AIRFLOW MEASURING STATION
AO	ANALOG OUTPUT FROM CONTROLLER
ATS	AVERAGING TEMPERATURE SENSOR
BAS	BUILDING AUTOMATION SYSTEM
BI	BINARY INPUT TO CONTROLLER
BO	BINARY OUTPUT FROM CONTROLLER
CO2	CARBON DIOXIDE SENSOR
CSR	CURRENT-SENSING RELAY
DM	DAMPER MOTOR
DP	DIFFERENTIAL PRESSURE
DPT	DIFFERENTIAL PRESSURE TRANSMITTER
FM	FLOW METER
FZ	FREEZESTAT
HS	HUMIDITY SENSOR
POS	POSITION
R	RELAY
SD	SMOKE DETECTOR
SPD	SPEED
SS	START/STOP
STS	STATUS
TS	TEMPERATURE SENSOR
VFD	VARIABLE-FREQUENCY DRIVE

ГUH	BRITISH THERMAL
-M 	
HWS	CHILLED WATER SU
LG	COOLING
MC	COMMON
NR NS	CONDENSER WATE
//3	DRAIN
3	DRY BULB TEMPER
BA	A-WEIGHTED DECIE
CW	DOMESTIC COLD W
A N	DOWN
NG	DRAWING
4	EXHAUST AIR
AT	ENTERING AIR TEM
=R 2	
SP	EXTERNAL STATIC
NT	ENTERING WATER
<	EXISTING
2	
))	FIRE DAMPER
A	FULL LOAD AMPS
)	FAIL OPEN
PM	
A	GAUGE
AL	GALLON(S)
PH	GALLONS PER HOU
PM	GALLONS PER MINU
- PWR	HEAT PUMP WATER
PWS	HEAT PUMP WATER
TG	HEATING
NR	HOT WATER RETUR
/VS x	HOT WATER SUPPL
Z	HERTZ
	INCH
LV	INTEGRATED PART
/V \T	
3S	POUNDS
VT	LEAVING WATER TE
AX	MAXIMUM
вн СА	MINIMUM CIRCUIT A
FR	MANUFACTURER
IN	MINIMUM
OCP	MAXIMUM OVERCU
00 C	NORMALLY CLOSE
с С	NOISE CRITERIA (FO
С	NOT IN CONTRACT
C A	NORMALLY OPEN
R C	ON CENTER
FCI	OWNER FURNISHE
4	PHASE
SIG ^	POUNDS PER SQUA
- D	REFRIGERANT DISC
H	RELATIVE HUMIDITY
_	REFRIGERANT LIQU
PM	REVOLUTIONS PER
4	SUPPLY AIR
EER	SEASONAL ENERGY
)	TRANSFER DUCT
/P	
NO	VOLTAGE. VOLTS
C	VOLUME DAMPER
-D	VARIABLE FREQUEI
F	
/	WITH
/0	WITHOUT
В	WET BULB TEMPER
C	WATER COLUMN
ru WM	WELDED WIRF MES

	CONTROL	SYMBOL LE	GEND
\bigwedge			
(\rangle)	CIRCULATOR OR PUMP	╘┤┝╍	NORMALLY OPEN CONTA
		ᡪᡃᢩᡟᡬ	NORMALLY CLOSED CON
	MOTORIZED 2-WAY VALVE	بـــــ	WIRING OR DEVICE PROV
		۶ <u>ــــــــــــــــــــــــــــــــــــ</u>	WIRING OR DEVICE NOT DIVISION 23
	MOTORIZED 3-WAY VALVE	,	WIRING CONNECTION BY
		بے ب	WIRING CONNECTION BY
VFD	VARIABLE FREQUENCY DRIVE	\$.// \	NUMBER OF CONDUCTO
			MOTORIZED PARALLEL B
DDC	DIRECT DIGITAL CONTROLLER		MOTORIZED OPPOSED B
T	THERMOSTAT	⅊∅	MOTORIZED BUTTERFLY
FZ	FREEZESTAT	\bigcirc	SUPPLY, RETURN, OR EX
	n	\sum	AIRFLOW DIRECTION
©	CONTACTOR		CONTROL POINT INDICAT
R	RELAY		- INPUT OR OUTPUT (ANAL
S	SPACE TEMPERATURE SENSOR		- DEVICE TYPE (AIR TEMPE
()	LINE VOLTAGE THERMOSTAT		CONTROL POINT INDICAT
•H • 0 A	HAND-OFF-AUTOMATIC SWITCH		- INPUT OR OUTPUT (ANAL - DEVICE TYPE (AIR TEMPE AVERAGING ELEMENT)
SD -	DUCT-MOUNTED SMOKE DETECTOR	AI	CONTROL POINT INDICAT - INPUT OR OUTPUT (ANAL - DEVICE TYPE (WATER TE
<u>لمس</u> ک	TRANSFORMER		WITH BULB TYPE ELEMEI
çç			CONTROL POINT INDICAT
৸৽৻ঢ়৸	FUSE		- INPUT OR OUTPUT (ANAL - DEVICE TYPE (CURRENT
		7	

ABBREVIATIONS		GRAPHIC SYMBOL LEGEND				
AMPERE(S) ACCESS DOOR ABOVE FINISHED FLOOR ALTERNATE AIR PRESSURE DROP BRAKE HORSEPOWER BRITISH THERMAL UNITS PER HOUR CUBIC FEET PER MINUTE CHILLED WATER RETURN CHILLED WATER SUPPLY COOLING COMMON CONDENSER WATER RETURN CONDENSER WATER SUPPLY DRAIN DRY BULB TEMPERATURE A-WEIGHTED DECIBELS DOMESTIC COLD WATER DIAMETER		CORRIDOR A101 AHU-12 S1 325	SPACE TAG SPACE NAME SPACE NUMBER BUILDING "PART" NUMBER IN MULTI-PART BUILDING EQUIPMENT TAG EQUIPMENT NUMBER EQUIPMENT ABBREVIATION DIFFUSER, GRILLE OR REGISTER TAG TAG, REFER TO DIFFUSER, GRILLE AND REGISTER SCHEDULE AIRFLOW (CFM) DETAIL TAG - DETAIL NUMBER	R IIC SYMBOL LEGEND 1 DET 1/4"=1'-(M2.2 M5.1 1/4"=1'-(DE DR AD 1 SEC M2.4 M4.1 1/4"=1'-(M2.2 M4.1 1/4"=1'-(M2.2 M4.1 1/4"=1'-(M2.2 M4.1 1/4"=1'-(M2.2 M5.1 1/4"=1'-(DR AD DR AD 1 SEC DR AD 1 OET 1 O	TAIL TITLE " TAIL NUMBER AWING WHERE DETAIL IS INDICATED AWING WHERE DETAIL IS REFERENCED DITIONAL DRAWING REFERENCES CTION NUMBER AWING WHERE SECTION IS INDICATED AWING WHERE SECTION IS REFERENCED DITIONAL DRAWING REFERENCES SECTION NUMBER AWING WHERE SECTION IS REFERENCED DITIONAL DRAWING REFERENCES	
DOWN DRAWING EXHAUST AIR ENTERING AIR TEMPERATURE ENERGY EFFICIENCY RATIO EQUAL EXTERNAL STATIC PRESSURE ENTERING WATER TEMPERATURE EXISTING DEGREES FAHRENHEIT FAIL CLOSED FIRE DAMPER			- DRAWING WHERE DETAIL IS INDICATED KEYNOTE STRUCTURAL GRID LINE WITH DESIGNATION EXISTING TO BE REMOVED		BRAWING WHERE SECTION IS INDICATED ENLARGED PLAN CALLOUT ENLARGED PLAN NUMBER DRAWING WHERE ENLARGED PLAN IS INDICATED MECHANICAL EQUIPMENT WITH REQUIRED SERVICE CLEARANCE INDICATED	
FULL LOAD AMPS FAIL OPEN			DU			
FOOT, FEET			DUC			
GAUGE GALLON(S) GALLONS PER HOUR GALLONS PER MINUTE		18x8	RECTANGULAR DUCT (FIRST DIMENSION REFERS TO SIDE VIEWED)		MANUAL BALANCING DAMPER IN DUCT	
HORSEPOWER HEAT PUMP WATER RETURN		18ø	ROUND DUCT SIZE		FIRE DAMPER IN DUCT	
HEAT POMP WATER SUPPLY HEATING HOT WATER RETURN		18/12	FLAT OVAL DUCT SIZE		SMOKE DAMPER IN DUCT	
HOT WATER SUPPLY HEAT EXCHANGER HERTZ		18ø	DOUBLE WALL, EXPOSED DUCT		COMBINATION FIRE/SMOKE DAMPER IN DUCT	
INCH INTEGRATED PART-LOAD VALUE		18ø	FABRIC DUCT		FIRE DAMPER WITH SECURITY BARS IN DUCT	
KILOWATT(S) LEAVING AIR TEMPERATURE POUNDS LEAVING WATER TEMPERATURE		100000000000000000000000000000000000000	FLEXIBLE DUCTWORK		SMOKE DAMPER WITH SECURITY BARS IN DUCT	
MAXIMUM ONE THOUSAND BTUH MINIMUM CIRCUIT AMPACITY			FLEXIBLE CONNECTOR		COMBINATION FIRE/SMOKE DAMPER WITH SECURITY BARS IN DUCT	
MANUFACTURER MINIMUM MAXIMUM OVERCURPENT PROTECTION		SD	DUCT-MOUNTED SMOKE DETECTOR		MOTORIZED DAMPER IN DUCT	
MOTOR-OPERATED DAMPER NORMALLY CLOSED (FOR PLANS, DETAILS)			DUCT WITH DUCT LINER		SMOKE CONTROL MANUAL BALANCING DAMPER IN	
NOISE CRITERIA (FOR SCHEDULES) NOT IN CONTRACT NORMALLY OPEN			DUCT ACCESS DOOR		SMOKE CONTROL MOTORIZED DAMPER IN DUCT	
OUTSIDE AIR ON CENTER OWNER FURNISHED CONTRACTOR INSTALLED			DUCT WITH END CAP		SECURITY BARS IN DUCT	
PHASE POUNDS PER SQUARE INCH GAUGE			LINEAR SLOT DIFFUSER, LENGTH AS INDICATED	AP	DUCT WITH ACCESS PANEL	
RETURN AIR REFRIGERANT DISCHARGE RELATIVE HUMIDITY			SUPPLY DIFFUSER	TO AWAY	SUPPLY/MAKEUP AIR DUCT SECTIONS	
REFRIGERANT LIQUID REVOLUTIONS PER MINUTE REFRIGERANT SUCTION			RETURN OR EXHAUST GRILLE	TO AWAY	RETURN AIR DUCT SECTIONS	
SUPPLY AIR SEASONAL ENERGY EFFICIENCY RATIO			SUPPLY DIFFUSER WITH DIRECTIONAL BLOW, SOLID HATCH INDICATES BLANK OFF PANEL	TO AWAY	EXHAUST AIR DUCT SECTIONS	
TRANSFER DUCT TYPICAL		$\mathbf{\Theta}$	POINT OF CONNECTION TO EXISTING	SD	SMOKE DETECTOR	
UNLESS NOTED (INDICATED) OTHERWISE		\Box	LIMIT OF DEMOLITION	Ē	HUMIDITY SENSOR	
			SUPPLY AIRFLOW ARROW	$(\overline{\mathbf{U}})$	THERMOSTAT, LINE VOLTAGE	
VERIFY IN FIELD		<u></u>	RETURN OR EXHAUST AIRFLOW ARROW	Ī	THERMOSTAT, LOW VOLTAGE	
WATT(S) WITH		▲UC	DOOR UNDERCUT	S	TEMPERATURE SENSOR	
WITHOUT		▲ DL	DOOR LOUVER	Ô	CARBON DIOXIDE SENSOR	
WATER COLUMN WATER PRESSURE DROP		Ť.	SENSOR WELL	CM	CARBON MONOXIDE SENSOR	
WELDED WIRE MESH	J					
		L	P			
			END OF LINE CLEANOUT PLUG		VALVE	
		<u></u>		——Ķ——	MANUAL BALANCING VALVE WITH FLOW TAPS	
				——ĬXĪ——	AUTOMATIC BALANCING VALVE WITH FLOW TAPS	

- PEN CONTACT OSED CONTACT
- EVICE PROVIDED UNDER DIVISION 23
- EVICE NOT PROVIDED UNDER **IECTION BY DIVISION 23**
- ECTION BY OTHERS CONDUCTORS INDICATED BY
- ARALLEL BLADE DAMPER
- PPOSED BLADE DAMPER
- BUTTERFLY BLADE DAMPER
- JRN, OR EXHAUST FAN
- CTION NT INDICATOR
- TPUT (ANALOG INPUT) (AIR TEMPERATURE SENSOR)
- INT INDICATOR TPUT (ANALOG INPUT) (AIR TEMPERATURE SENSOR WITH
- INT INDICATOR TPUT (ANALOG INPUT) (WATER TEMPERATURE SENSOR PE ELEMENT IN PIPING WELL)
- NT INDICATOR TPUT (ANALOG INPUT) CURRENT SENSING RELAY)

- **GENERAL NOTES**
- A. THE CONTRACT DOCUMENTS ARE COMPLEMENTARY AND WHAT IS REQUIRED BY ONE SHALL BE AS BINDING AS IF REQUIRED BY ALL. IN THE CASE OF A CONFLICT, DISAGREEMENT, OR AMBIGUITY, PROVIDE THE BETTER QUALITY. IN THE CASE OF A CONFLICT, DISAGREEMENT, OR AMBIGUITY, PROVIDE THE GREATER QUANTITY OF WORK.

PRESSURE GAUGE WITH GAUGE COCK

LIQUID FILLED THERMOMETER

STRAINER WITH BLOWDOWN VALVE

AND 3/4" HOSE END CONNECTION

UNION

FLEXIBLE PIPE CONNECTOR

MANUAL AIR VENT

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- B. DRAWINGS ARE DIAGRAMMATIC AND INTENDED TO CONVEY SCOPE AND GENERAL ARRANGEMENT ONLY. DO NOT SCALE DRAWINGS. LOCATIONS OF ALL ITEMS INDICATED ON THE DRAWINGS OR CALLED FOR IN THE SPECIFICATIONS THAT ARE NOT DEFINITIVELY FIXED BY DIMENSIONS ARE APPROXIMATE. COORDINATE CONTRACT DOCUMENTS PROJECT REQUIREMENTS, WORK OF OTHERS, AND EQUIPMENT AND MATERIALS PURCHASED WITH FIELD DIMENSIONS, MANUFACTURER'S REPLACEMENT. REQUIREMENTS FOR INSTALLATION, OPERATION, AND MAINTENANCE,
- CONTRACTOR'S INTENDED MEANS AND METHODS OF INSTALLATION, AND CONTRACTOR'S FABRICATED ITEMS TO ENSURE A PROPER FIT AND INSTALLATION. C. MAINTAIN MAXIMUM HEADROOM AND SPACE CONDITIONS AT ALL POINTS. WHERE HEADROOM AND SPACE CONDITIONS APPEAR INADEQUATE, NOTIFY THE ARCHITECTS ARCHITECT. DUCT DIMENSIONS ARE IN INCHES AND INSIDE CLEAR. PRIOR TO PROCEEDING WITH INSTALLATION. MAINTAIN A MINIMUM OF 7'-0"
- CLEARANCE ABOVE FINISHED FLOOR TO UNDERSIDE OF PIPES, DUCTS, CONDUITS, SUSPENDED EQUIPMENT, ETC., THROUGHOUT ACCESS ROUTES IN MECHANICAL ROOMS. D. FIELD VERIFY AND COORDINATE ALL DUCT AND PIPING DIMENSIONS BEFORE
- FABRICATION. MAKE MODIFICATIONS IN THE LAYOUT AS NEEDED TO PREVENT CONFLICT WITH WORK OF OTHER TRADES OR FOR PROPER EXECUTION OF THE WORK. E. INSTALL ALL EQUIPMENT AND APPURTENANCES IN ACCORDANCE WITH
- MANUFACTURER'S RECOMMENDATIONS, CONTRACT DOCUMENTS, AND APPLICABLE CODES AND REGULATIONS.
- F. COORDINATE LOCATIONS AND SIZES OF ALL FLOOR, WALL, AND ROOF OPENINGS WITH ALL OTHER TRADES. COORDINATE ALL PIPING AND EQUIPMENT SUPPORTED FROM STRUCTURE WITH GENERAL CONSTRUCTION WORK.

G. PROVIDE TRAPPED DRAIN PIPING FROM DRAIN PANS OF ALL COOLING COILS, FANS AND OTHER ACTIVE DRAINS EXPOSED TO SYSTEM AIRSTREAM. PROVIDE TRAP AT CONNECTION WITH WATER SEAL DEPTH ONE INCH GREATER THAN UNIT OPERATING PRESSURE. DIRECT DRAINS TO NEAREST FLOOR DRAIN, MOP SINK, OR OTHER LOCATION APPROVED BY THE ARCHITECT.

SWING CHECK VALVE

TRIPLE DUTY VALVE

PRESSURE-RELIEF VALVE

TWO-WAY CONTROL VALVE

THREE-WAY CONTROL VALVE

PRESSURE REDUCING VALVE

GAS COCK

DIRECTION OF FLOW

- H. INSTALL PIPING, DUCTWORK, AND CONDUIT CONCEALED IN AREAS HAVING CEILINGS AND/OR FURRED SPACES UNLESS OTHERWISE INDICATED. I. ALL EQUIPMENT, VALVES, DAMPERS, DAMPER AND VALVE OPERATORS SHALL
- BE PROVIDED WITH ADEQUATE ACCESS FOR SERVICING, MAINTENANCE, AND J. SIZE ALL SPLIT-SYSTEM REFRIGERANT PIPING IN ACCORDANCE WITH THE
- MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- K. DUCT DIMENSIONS MAY BE MODIFIED ONLY WITH PRIOR APPROVAL FROM
- L. FOR LOCATION OF REGISTERS, GRILLES, AND DIFFUSERS WITHIN CEILING GRID, REFER TO ARCHITECTURAL REFLECTED CEILING PLANS. M. ELEVATION INDICATED FOR RECTANGULAR DUCT, GRILLE AND LOUVER
- OPENINGS IS TO THE TOP OF ROUGH OPENING UNLESS OTHERWISE INDICATED. ELEVATION INDICATED FOR ROUND DUCTWORK AND PIPING IS TO CENTERLINE. N. BRANCH PIPING RUNOUTS TO TERMINAL UNITS SHALL BE 3/4" DIAMETER
- UNLESS INDICATED OTHERWISE.
- O. REFER TO STRUCTURAL DRAWINGS FOR DETAILS AND MAXIMUM SPACING REQUIREMENTS REGARDING HANGER ATTACHMENTS TO STEEL BAR JOISTS.

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TAG	MANUFACTURER	MODEL NUMBER	SER'
MAU-1	CAPTIVEAIRE	CASRTU3-E.454-15-15T	269 CULIN
NOTES: 1. PROVIE 2. PROVIE 3. PROVIE	DE CONTROLS FOR DE VARIABLE SPEE DE SEPARATE POW	NUNIT WITH EXHAUST HOOD D COMPRESSOR. VER CONNECTION FOR ELEC) AND FAN. CTRIC HEAT.

				FAN SCHEDULE	- SOUTH	EAST H	ALIFAX H	IGH SCH	OOL						
					AIRFLOW	ESP	FAN WHEEL				MOTOR	ELE		DATA	WEIG
TAG	MANUFACTURER	MODEL NUMBER	SERVING	TYPE	(CFM)	(IN WC)	(RPM)	DRIVE TYPE	SONES	CONTROL METHOD	(HP)	(V)	(PH)	(HZ)	(LBS
SEHS F-1	GREENHECK	CUE-140-VG	242 CHEMISTRY & PHYSICS LAB	CENTRIFUGAL ROOF UPBLAST	1,400	0.30	950	DIRECT	8.1	WALL SWITCH	1/4	120	1	60	61
SEHS F-2	GREENHECK	FJI-08-BI-X	FUME HOOD	CENTRIFUGAL FUME EXHAUST FAN	500	0.50	1750	DIRECT	15.7	FUME HOOD SWITCH	1/4	120	1	60	155
SEHS F-3	GREENHECK	CUE-80-VG	244 PREP ROOM	CENTRIFUGAL ROOF UPBLAST	170	0.30	1187	DIRECT	5	BAS	1/10	120	1	60	34
SEHS F-4	GREENHECK	DU180HFA	KITCHEN HOOD 24	CENTRIFUGAL ROOF UPBLAST	3,230	1.50	1190	DIRECT	14.8	HOOD INTERLOCK	2	480	3	60	190
NOTES: 1. PROVIDE 2. PROVIDE	MOTORIZED BACKDR/ MANUAL WALL SWITC	AFT DAMPER AND INTER H AND LOCATE WHERE I	LOCK WITH FAN OPERATION. INDICATED ON FLOOR PLAN.												

				FAN SCHEDULE	- NORTH	WEST H	ALIFAX H	IGH SCH	00L						
					AIRFLOW	ESP	FAN WHEEL				MOTOR	ELE	CTRICAL D	ATA	WEIGH
TAG	MANUFACTURER	MODEL NUMBER	SERVING	TYPE	(CFM)	(IN WC)	(RPM)	DRIVE TYPE	SONES	CONTROL METHOD	(HP)	(V)	(PH)	(HZ)	(LBS)
NWHS F-1	GREENHECK	CUE-140-VG	C109 CHEMISTRY & PHYSICS LAB	CENTRIFUGAL ROOF UPBLAST	1,400	0.30	950	DIRECT	8.1	WALL SWITCH	1/4	120	1	60	61
NWHS F-2	GREENHECK	FJI-08-BI-X	FUME HOOD	CENTRIFUGAL FUME EXHAUST FAN	500	0.50	1750	DIRECT	15.7	FUME HOOD SWITCH	1/4	120	1	60	155
NOTES: 1. PROVIDE 2. PROVIDE 3. PROVIDE 4. PROVIDE	E MOTORIZED BACKDR MANUAL WALL SWITO INTEGRAL INLET BOX GRAVITY BACKDRAF	AFT DAMPER AND INTE CH AND LOCATE WHERE AND CURB CAP. T DAMPER.	RLOCK WITH FAN OPERATION. E INDICATED ON FLOOR PLAN.												

			PAC	KAGE	D MAK	E-UP A	AIR U		SCHE	DUL	E								
	SU	IPPLY FAN		OUTSIDE		DX	COOLING	G COIL				ELECTRIC	HEATIN	G COIL		ELE	CTRIC D	ATA	
			MOTOR	AIR	GROSS	GROSS	EA	λΤ	L	۱T	HOT-GAS				UNIT	DATA		SERVICE	
	DESIGN		SIZE	DESIGN	TOTAL	SENSIBLE					REHEAT	SENSIBLE			UNIT	UNIT			
	AIRFLOW	ESP	EACH	AIRFLOW	CAPACITY						CAPACITY	CAPACITY	EAT	LAT	MCA	MOCP		1	
SERVING	(CFM)	(IN WC)	(HP)	(CFM)	(BTUH)	(BTUH)	(°F DB)	(°F WB)	(°F DB)	(°F WB)	(BTUH)	(KW)	(°F)	(°F)	(A)	(A)	(V)	(PH)	(HZ)
CULINARY LAB	2,600	0.75	2	2,600	186,000	71,700	85.0	77.7	59.2	57.2	31,200	44	18.5	60.0	67.8	70.0	480	3	60

FAN SHALL BE CONTROLLED BY KITCHEN HOOD VAV CONTROL SYSTEM. FAN SHALL BE UL-762 LISTED FOR USE WITH TYPE I HOOD. PROVIDE WITH ROOF CURB TO MATCH ROOF SLOPE. MINIMUM DISCHARGE HEIGHT OF FAN TO BE 40" ABOVE ROOF. FAN SHALL BE VARIABLE SPEED AS PART OF KITCHEN HOOD DEMAND-CONTROLLED VENTILATION OPERATION STRATEGY.
 PROVIDE INTEGRAL INLET BOX AND CURB CAP.
 PROVIDE GRAVITY BACKDRAFT DAMPER.

E	XISTING AIF	R HANDLING UNIT	SCHE	DULE ·	SOUTI	HEAST	HALIFAX HIC	ЭН SCHOO	L
	ļ			SUPPLY FAN	1	,		HYDRONIC	
TAG		SED//NG	DESIGN AIRFLOW (CEM)	ESP (IN WC)	MOTOR SIZE (HP)	OUTSIDE AIRFLOW (CFM)	DX COOLING COIL TOTAL CAPACITY (BTUH)	HEATING COIL CAPACITY (BTUH)	NOTES
17.0									
AHU-9	IRANE	SCIENCE LAB	5,900	0.80	5	600	169,100	167,000	1
AHU-12	TRANE	CULINARY LAB	5,400	0.44	5	600	158,200	98,000	1
NOTES: 1. UNIT IS E AIRFLOW	XISTING TO REMAIN. / / AND OUTSIDE AIR IN	PERFORM PRELIMINARY TEST AN TAKE TO VALUES LISTED.	ND BALANCE	TO DETERM	INE EXISTING	TOTAL AIRFL(OW AND OUTSIDE AIRF	LOW. RE-BALANCE I	JNIT TOTAL

E	EXISTING AI	R HANDLING UNIT SCI	HEDULE	- NOR	THWES	ST HALI	FAX HIGH	SCHOOL	
				SUPPLY FAN	1		HYDRONIC	HYDRONIC	
TAG	MANUFACTURER	SERVING	DESIGN AIRFLOW (CFM)	ESP (IN WC)	MOTOR SIZE (HP)	OUTSIDE AIRFLOW (CFM)	COOLING COIL TOTAL CAPACITY (BTUH)	HEATING COIL CAPACITY (BTUH)	NOTES
AHU-6	TRANE	C109 CHEMISTRY & PHYSICS LAB	7,700	0.90	5	1,125	202,500	254,000	1
NOTES: 1. UNIT IS E AIRFLOW	XISTING TO REMAIN. I AND OUTSIDE AIR IN	PERFORM PRELIMINARY TEST AND BALAN TAKE TO VALUES LISTED.	CE TO DETERM	/INE EXISTIN	IG TOTAL AIR	FLOW AND OU	ITSIDE AIRFLOW. RE	E-BALANCE UNIT	TOTAL

	G	RILLE, REGIS	TER, & DIFFU	SER SCHE	DULE		
TAG	MANUFACTURER	MODEL NUMBER	MOUNTING STYLE	NECK SIZE	FACE SIZE	MAX NC LEVEL	NOTES
S1	PRICE	ASCD	LAY-IN	6"	24x24	30	-
S2	PRICE	ASCD	LAY-IN	8"	24x24	30	-
S3	PRICE	ASCD	LAY-IN	10"	24x24	30	-
S4	PRICE	SDBI-100-4	LAY-IN	10"	-	30	1
R1	PRICE	635-TB-L	LAY-IN	22x22	24x24	30	-
E1	PRICE	635-TB-L	LAY-IN	22x22	24x24	30	-
NOTES:							

1. PROVIDE 48" LONG, INSULATED SDBI LINEAR SLOT PLENUM WITH 10" NECK.

M0.2

1		

DEMOLITION PLAN - SOUTHEAST HALIFAX HIGH SCHOOL

KEYNOTES APPLIES TO THIS DRAWING

PERFORM PRE-CONSTRUCTION TESTING FOR AIR HANDLING UNIT PRIOR TO ANY DEMOLITION WORK. REFER TO SPECIFICATION SECTION 014520 FOR REQUIREMENTS.

EX 20x20 UP TO EXISTING FAN ON ROOF.

- 3 EX 16x10 UP TO EXISTING GOOSENECK ON ROOF.
- 4 EX 14x14 UP TO EXISTING FAN ON ROOF.
- EX 18x18 UP TO EXISTING PENTHOUSE ON ROOF.
- 6 EX 22x22 UP TO EXISTING PENTHOUSE ON ROOF.

KEYNOTES

APPLIES TO THIS DRAWING

- REMOVE EXISTING EXHAUST FAN.
- 2 REMOVE EXISTING GOOSENECK.
- REMOVE EXISTING PENTHOUSE. CAP EXISTING CURB. SEE EXISTING ROOF CURB CAP DETAIL ON DRAWING M5.1.
- REMOVE EXISTING EXHAUST FAN. CAP EXISTING CURB. SEE EXISTING ROOF CURB CAP DETAIL ON DRAWING M5.1.

ROOF DEMOLITION PLAN - SOUTHEAST HALIFAX HIGH SCHOOL

RENOVATIONS HALIFAX CO MULTIPLE F HALIFAX COUNTY SCHOOLS 16683 NC-125, HALIFAX, NC 27839 8492 NC-48, LITTLETON, NC 27850 PROJECT NO: 630516 DATE: JANUARY 17, 2024 REVISIONS DATE DESCRIPTION

04395

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EMOLITION PLAN - NORTHWEST HALIFAX HIGH SCHOOL

KEYNOTES APPLIES TO THIS DRAWING

PERFORM PRE-CONSTRUCTION TESTING FOR AIR HANDLING UNIT PRIOR TO ANY DEMOLITION WORK. REFER TO SPECIFICATION SECTION 014520 FOR REQUIREMENTS.

2 EX 8x8 UP TO EXHAUST FAN F-9.

		FLOOR PLA 1/8" = 1'-0"

AN - SOUTHEAST HALIFAX HIGH SCHOOL

KEYNOTES APPLIES TO THIS DRAWING

- EX 20x20 UP TO EXISTING FAN ON ROOF.
- 2 EX 14x14 UP TO EXISTING FAN ON ROOF.
- 3 16x16 UP TO SEHS F-1 ON ROOF.
- 4 8ø DOWN TO FUME HOOD AND UP TO SEHS F-2 ON ROOF.
- 5 8x8 UP TO SEHS F-3 ON ROOF.
- 6 24x16 UP TO MAU-1 ON ROOF.
- 7 20ø UP TO SEHS F-4 ON ROOF.
- 8 VERIFY OPERATION OF EXISTING FIRE DAMPER.
- 14ø EXHAUST AIR DUCT DOWN TO HOOD CONNECTION.
- 10 12ø EXHAUST AIR DUCT DOWN TO HOOD CONNECTION.
- 1 10ø DOWN TO GRILLE WITH MANUAL BALANCING DAMPER IN VERTICAL.
- 12 22x22 DOWN TO GRILLE WITH MANUAL BALANCING DAMPER IN VERTICAL.

N PROJECT KEY PLAN SOUTHEAST HALIFAX HIGH SCHOOL

M2.1

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

- SOUTHEAST HALIFAX HIGH SCHOOL

COORDINATE LOCATION OF FAN WITH EXISTING ROOF OPENING. PROVIDE CURB ADAPTER.

KEYNOTES APPLIES TO THIS DRAWING

5/2024 9:22:56 A

OR PLAN - NORTHWEST HALIFAX HIGH SCHOOL

10

- VERTICAL.6 VERIFY OPERATION OF EXISTING FIRE DAMPER.
- 5 22x22 DOWN TO GRILLE WITH MANUAL BALANCING DAMPER IN VERTICAL.
- 4 EX 8x8 UP TO EXHAUST FAN F-9.
- 3 8ø DOWN TO FUME HOOD.
- 2 80 UP TO NWHS F-2 ON ROOF
- 2 8ø UP TO NWHS F-2 ON ROOF.
- 1 16x16 UP TO NWHS F-1 ON ROOF.

APPLIES TO THIS DRAWING

KEYNOTES

F		
	J	
	H	
	F	
	D	
	B	

 $\underbrace{\bigcirc} \underline{NWHS} \\ \underline{F-1}$

<u>EX F-9</u>

ROOF PLAN - NORTHWEST HALIFAX HIGH SCHOOL 1/4" = 1'-0"

CONDENSATE DRAIN PIPING DETAIL

DRAIN SHALL BE FULL SIZE

SLOPE DRAIN TO NEAREST

OF UNIT CONNECTION

ROOF / FLOOR DRAIN

THREADED PLUG

UNION UNIT

ROOF CURB /

HOUSEKEEPING

PAD

BRANCH CONNECTION TO DIFFUSER DETAILS

NOTES: 1. FLEXIBLE DUCT SHALL BE INSTALLED OVER METAL DUCT (BEAD/LIP ON METAL DUCT) AND ANCHORED WITH NYLON MECHANICAL BANDS OR PANDUIT STRAP. 1. FLEXIBLE DUCT SHALL BE INSTALLED OVER METAL DUCT (BEAD/LIP ON METAL DUCT) AND ANCHORED WITH NYLON MECHANICAL BANDS OR PANDUIT STRAP. 2. IN EXPOSED AREAS, PROVIDE RIGID GALVANIZED STEEL BRANCH DUCT TO DIFFUSERS IN LIEU OF FLEXIBLE DUCT UNLESS INDICATED OTHERWISE. SUPPORT IN ACCORDANCE WITH REQUIREMENTS SPECIFIED FOR METAL DUCTS.

UNIT

ROOF CURB /

HOUSEKEEPING

PAD

MAKE-UP AIR HANDLING UNIT **& EXHAUST FAN VAV HOOD CONTROLLED**

NOTE: CONTROLS FOR KITCHEN HOOD FAN AND MAKE-UP AIR UNIT BY KITCHEN HOOD MANUFACTURER. PROVIDE BACNET INTERFACE TO BAS.

ROOF / FLOOR POSITIVE PRESSURE TRAP A = B + C + PIPE DIAMETER WHERE: C = 1" + MAXIMUM UNIT POSITIVE STATIC PRESSURE AT COIL

_ في الب

DRAIN SHALL BE FULL SIZE

SLOPE DRAIN TO NEAREST

OF UNIT CONNECTION

ROOF / FLOOR DRAIN

THREADED PLUG

UNION

NOTE: THIS DETAIL APPLIES TO ALL DUCT CONNECTIONS TO AIR HANDLING UNITS AND FANS UNLESS OTHERWISE INDICATED EQUIPMENT DUCT CONNECTION DETAIL

DUCT INSULATION JOINT DETAIL

BACNET

TO BAS

VAV HOOD CONTROL

PANEL

INTERFACE

OUTSIDE AIR

EXHAUST FAN - PREP ROOM

EXISTING AHU-12 CONTROLS

DIVIDED FLOW BRANCH DETAILS

1. APPLIES WHERE "W" EXCEEDS 24" OR WHEN AIRFLOW EXCEEDS 1,500 CFM.

END OF DUCT MAIN DETAIL

REQUIREMENTS.

NOTE: 1. REFER TO BRANCH CONNECTION TO DIFFUSER DETAILS FOR BRANCH TAKE-OFF

L = 12" OR 1/2 W1 WHICHEVER IS GREATER AIRFLOW AIRFLOW W2/4, 4" MINIMUM--W3/4, 4" MINIMUM

EXHAUST FAN - WALL SWITCH CONTROL

EXISTING ROOF CURB CAP DETAIL

SEMI-RIGID ELBOW SUPPORT TO MAINTAIN

1.5D RADIUS —

- ATTACH TO STRUCTURE

AI SPACE TEMPERATURE SENSOR

AI TS EXISTING SPACE TEMPERATURE SENSOR

DETAILS AND CONTROLS

M5.1

PRE-INSULATED FLEXIBLE DUCT

- FIELD-PROVIDED 4" DUCT COLLAR OR

EXTENSION FROM DIFFUSER MANUFACTURER. ATTACH WITH MINIMUM

OF FOUR SHEET METAL SCREWS EVENLY

FACTORY-PROVIDED BEADED NECK

DISTRIBUTED AROUND COLLAR.

– DIFFUSER BACKPAN INSULATION

- CEILING

W

A. WHERE "W" IS LESS THAN 24" B. ROUND DUCT BRANCHES TO DIFFUSERS

FLEXIBLE DUCT TO DIFFUSER CONNECTION DETAIL

L = 12" OR 1/2 W, WHICHEVER IS |

NOTES:

2. APPLIES TO:

GREATER

AIRFLOW

- DIFFUSER

AIRFLOW

1. REFER TO BRANCH CONNECTION TO DIFFUSER DETAILS FOR BRANCH TAKE-OFF REQUIREMENTS.

C. WHEN AIRFLOW IS EQUAL TO OR LESS THAN 1,500 CFM.

GRAPHICS SYMBOLS LEGEND	FIRE ALARM LEGEND
A123 SPACE IDENTIFICATION TAG	SYMBOL DESCRIPTION
BUILDING AREA (WHEN USED)	FIRE ALARM AUDIO/VISUAL NOTIFICATION DEVICE, MOUNT AT 80" AFF AND NOT MORE THAN 96". x_{x} SUBSCRIPT NUMBER INDICATES STROBE CANDELA RATING.
SECTION WHERE CUT SECTION NUMBER E4.1 DRAWING WHERE SECTION IS INDICATED	FIRE ALARM VISUAL STROBE NOTIFICATION DEVICE, 80" AFF AND NOT MORE THAN 96". SUBSCRIPT XX NUMBER INDICATES STROBE CANDELA RATING.
	FIRE ALARM AUDIO/VISUAL NOTIFICATION DEVICE WITH DEVICE GUARD, 80" AFF AND NOT MORE THAN 96". SUBSCRIPT NUMBER INDICATES STROBE CANDELA RATING. # / # INDICATES STROBE SETTING AND REDUCED EFFECTIVE OUTPUT WHEN DEVICE GUARD IS PRESENT.
ENCARCED FEAN NOMBER ES.1 DRAWING WHERE ENLARGED PLAN IS INDICATED	FIRE ALARM VISUAL STROBE NOTIFICATION DEVICE, 80" AFF AND NOT MORE THAN 96". SUBSCRIPT NUMBER INDICATES STROBE CANDELA RATING. # / # INDICATES STROVE SETTING AND REDUCED
DETAIL TAG DETAIL NUMBER E5.1 DRAWING WHERE DETAIL IS INDICATED	FIRE ALARM AUDIO/VISUAL NOTIFICATION DEVICE, CEILING MOUNTED. SUBSCRIPT NUMBER x_{xx} INDICATES STROBE CANDELA RATING.
	Δ FIRE ALARM VISUAL STROBE NOTIFICATION DEVICE, CEILING MOUNTED. SUBSCRIPT NUMBER $_{xx}$ INDICATES STROBE CANDELA RATING.
E2.2 E5.1 1/4"=1'-0" E2.3 E5.1 E5.1 E5.1 E5.1 E5.1 E5.1 E5.1 E5.1	FIRE ALARM AUDIO/VISUAL NOTIFICATION DEVICE WITH DEVICE GUARD, CEILING MOUNTED. SUBSCRIPT
E2.4 DRAWING WHERE DETAIL IS INDICATED DRAWING WHERE DETAIL IS CUT ADDITIONAL DRAWING REFERENCES	XX EFFECTIVE OUTPUT WHEN DEVICE GUARD IS PRESENT.
1 SECTION TITLE	FIRE ALARM VISUAL STROBE NOTIFICATION DEVICE, CEILING MOUNTED. SUBSCRIPT NUMBER INDICATES STROBE CANDELA RATING. # / # INDICATES STROVE SETTING AND REDUCED EFFECTIVE OUTPUT WHEN DEVICE GUARD IS PRESENT.
E2.2 E4.1 1/4"=1'-0" E2.3 SECTION NUMBER E2.4 DRAWING WHERE SECTION IS INDICATED	F FIRE ALARM MANUAL PULL STATION, MOUNT AT +3'-10"AFF.
DRAWING WHERE SECTION IS CUT ADDITIONAL DRAWING REFERENCES	FIRE ALARM KEY OPERATED MANUAL PULL STATION, MOUNT AT +3'-10"AFF. FIRE ALARM DUCT SMOKE DETECTOR, FURNISH AND CONNECT UNDER DIVISION 28. INSTALL UNDER DIVISION 23. VERIEY LOCATION WITH DIVISION 23 PRIOR TO ROUGH IN PROVIDE ACCESSIBLE KEY
	 OPERATED REMOTE TEST SWITCH FOR EACH DETECTOR. SMOKE DETECTOR, CEILING MOUNT. SUBSCRIPT 'G' WHEN PRESENT INDICATES PROVIDE DEVICE GUAI
	HEAT DETECTOR, CEILING MOUNT. SUBSCRIPT 'G' WHEN PRESENT INDICATES PROVIDE DEVICE GUARD
	 FIRE ALARM TAMPER SWITCH, PROVIDE UNDER DIVISION 23, MONITOR UNDER DIVISION 28. FIRE ALARM FLOW SWITCH, PROVIDE UNDER DIVISION 23, MONITOR UNDER DIVISION 28.
	POST INDICATOR VALVE SWITCH, PROVIDE UNDER DIVISION 23, MONITOR UNDER DIVISION 28.
	 FIRE ALARM PRESSURE SWITCH, PROVIDE UNDER DIVISION 23, MONITOR UNDER DIVISION 28. FIRE ALARM REMOTE INDICATOR, CEILING MOUNT.
	FIRE ALARM MONITOR MODULE. NOT ALL MONITOR MODULES ARE INDICATED ON DRAWINGS. PROVIDE QUANTITY AND IN LOCATIONS REQUIRED TO ACCOMPLISH SPECIFIED MONITORING FUNCTIONS.
	© FIRE ALARM CONTROL MODULE. NOT ALL CONTROL MODULES ARE INDICATED ON DRAWINGS. PROVIDE QUANTITY AND IN LOCATIONS REQUIRED TO ACCOMPLISH SPECIFIED CONTROL FUNCTIONS.
	B FIRE ALARM SPRINKLER BELL, MOUNT AT +10'-0"AFF. FIRE ALARM MAGNETIC DOOR HOLDER, WALL MOUNT DEVICE AT 6" BELOW TOP OF DOOR, PROVIDE
	HINGED MAGNETIC CATCH PLATE ON DOOR TO MATE WITH DEVICE, COORDINATE LOCATION AND LENGTH WITH DIVISION 08. PROVIDE CONCEALED 120-VOLT POWER CONNECTION AND FIRE ALARM CONTROL MODULE IF REQUIRED FOR PROPER OPERATION.
	M FIRE ALARM DOOR HOLDER/CLOSER HARDWARE UNDER DIVISION 08, MONITOR AND CONTROL INTERFACE WITH FIRE ALARM UNDER DIVISION 28.
	 FIRE ALARM/POWER CONNECTION TO DIVISION 23 SMOKE OR FIRE/SMOKE DAMPER. COORDINATE WITH DIVISION 23. REFER TO TYPICAL FIRE/SMOKE DAMPER DIAGRAM.
	ONE LINE DIAGRAM LEGEND
	SYMBOL DESCRIPTION
	FUSED SWITCH
	FUSED SWITCH TRANSFORMER
	Image: Circont breaker Image: Fused switch Image: Transformer Image: Transfer switch
	Image: Circuit BREAKER Image: Fused switch Image: Fused switch Image: Fused switch Image: Feeder designation Image: Fused switch Image: Feeder designation Image: Feeder designation
	Image: Circoll breaker Image: Fused switch Image: Fused switch Image: Fused switch Image: Fused substantion
	Image: Circuit breaker Image: Fused switch Image: Feeder designation
	FUSED SWITCH Image: transformer Image: transfer switch Image: transformer Image: tr
	↓ FUSED SWITCH ↓ FUSED SWITCH ↓ TRANSFORMER ↓ TRANSFER SWITCH ↓ FEEDER DESIGNATION ↓ CT ↓ CURRENT TRANSFORMER ↓ PT POTENTIAL TRANSFORMER ↓ PT
	Image: Criccoll breaker Image: Fused switch Image: Feeder designation
	Image: Provide an example of the second
	Image: Choose of the second secon
	Image: Circuit breaker Image: Fused switch Image: Feeder designation
	FUSED SWITCH Image: Second Stream S
	FUSED SWITCH Image: Transformer Image:
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	CINCUT BREAKEN FUSED SWITCH TRANSFORMER TRANSFORMER TRANSFORMER TRANSFORMER TRANSFORMER FEEDER DESIGNATION CT CURRENT TRANSFORMER FT POTENTIAL TRANSFORMER TOTENTIAL TRANSFORMER POTENTIAL TRECEPTACLE, NEMA 5-20R. POTENTIAL ENCEPTACLE, NEMA 5-20R. </th
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	↓ FUSED SWITCH ↓ FUSED SWITCH ↓ TRANSFORMER ↓ PT ● POTENTIAL TRANSFORMER ↓ TRANSFORMER ● REFER TO TYPICAL DEVICE LEVATION DETAIL FOR DEVICE MOUNTING REQUIREMENTS. ● APPLIANCE RECEPTACLE. PROVIDE NEWA CONFIGURATION TO MATCH PLUG FOR ● DUPLEX RECEPTACLE. NEWA 5-20R. ● DUPLEX RECEPTACLE, NEWA 5-20R. ● SINGLE RECEPTACLE, NEWA 5-20R. ● SINGLE RECEPTACLE, NEWA 5-20R. ● SINGLE RECEPTACLE, NEWA 5-20R. ● SUBJEL DUPLEX RECEPTACLE, NEWA 5-20R. ● DUPLEX RECEPTACLE, NEWA 5-20R. </th
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TACLE	DEVICE	LEGEND	

USE" ENCLOSURE FOR ALL PLUG LOAD CONTROLLED RECEPTACLE. TYPE OF RECEPTACLE MAY VARY. RECEPTACLE WITH USB PORTS. TYPE OF RECEPTACLE MAY VARY

SYMBOL DESCRIPTION REFER TO 'TYPICAL DEVICE ELEVATION DETAIL' FOR DEVICE MOUNTING REQUIREMENTS. NOTE: FOLLOWING DEVICES ARE DENOTED AS KEYNOTE TWO IN DETAIL: OVERHEAD DOOR CONTROLLER. DOORBELL PUSH BUTTON. EMERGENCY POWER OFF (E.P.O) SWITCH. HANDICAP DOOR OPERATOR SWITCH. REFER TO 'TYPICAL DEVICE ELEVATION DETAIL' FOR DEVICE MOUNTING REQUIREMENTS. NOTE: FOLLOWING DEVICES ARE DENOTED AS KEYNOTE THREE IN DETAIL: NON-FUSIBLE DISCONNECT SWITCH. E FUSIBLE DISCONNECT SWITCH. ENCLOSED CIRCUIT BREAKER, CHARACTERISTICS AS INDICATED. MANUAL MOTOR STARTER, OVERLOAD PROTECTION AS REQUIRED PER NAME PLATE RATINGS, WITH 'ON' INDICATOR PILOT LIGHT. MAGNETIC MOTOR STARTER, OVERLOAD RELAYS AS REQUIRED TO SERVE MANUFACTURER \bowtie REQUIREMENTS OF EQUIPMENT SERVED. PROVIDE WITH HAND-OFF-AUTOMATIC SELECTOR SWITCH AND INDICATOR LIGHTS. COMBINATION MAGNETIC STARTER AND DISCONNECT SWITCH, OVERLOAD ELEMENTS AND FUSING AS REQUIRED TO SERVE MANUFACTURER REQUIREMENTS OF EQUIPMENT SERVED. \boxtimes PROVIDE WITH HAND-OFF-AUTOMATIC SELECTOR SWITCH AND INDICATOR LIGHTS. REFER TO 'TYPICAL DEVICE ELEVATION DETAIL' FOR DEVICE MOUNTING REQUIREMENTS. NOTE: FOLLOWING DEVICES ARE DENOTED AS KEYNOTE FOUR IN DETAIL: DOORBELL CHIME, WALL MOUNTED. MOUNT THE FOLLOWING DEVICES AS NOTED: NOTE: FLUSH VALVE TRANSFORMER POWER CONNECTION. PROVIDE A 4"X4" RECESSED JB AND MOUNT POWER SUPPLY PROVIDED BY DIV 22. COORDINATE CONNECTION WITH DIV 22. PROVIDE A 2"X4" JB AT EACH TOILET, SINK AND WATER CLOSET AS RECOMMENDED BY THE MANUFACTURER. PROVIDE 2 #14 IN 1/2"C "DAISY CHAINED" BETWEEN UP TO EIGHT BOXES AND TERMINATING AT POWER SUPPLY. ISOLATION VALVE. REFER TO ISOLATION VALVE CONTROL DETAIL ON DRAWING E4 SERIES DRAWING EQUIPMENT POWER CONNECTION. (EC) JUNCTION BOX, CONCEALED ABOVE CEILING, UNO. JUNCTION BOX, WALL MOUNTED. MOUNTING HEIGHT AS INDICATED ON PLANS. MOTOR POWER CONNECTION. MOTOR RATED SWITCH WITH OVERLOAD PROTECTION. LINE VOLTAGE THERMOSTAT. DIVISION 23 FURNISH, DIVISION 26 INSTALL. REFER TO DIVISION 23 DRAWINGS FOR LOCATIONS AND QUANTITY. POWER FOR DIV 23 MOTORIZED DAMPER. REFER TO DIVISION 23 DRAWINGS FOR LOCATIONS M AND QUANTITY. NON-METALLIC SURFACE RACEWAY, DEVICES AS INDICATED, MOUNTING HEIGHT INDICATED ON PLANS. PANELBOARD OR SWITCHBOARD, PROVIDE 6 INCH CONCRETE HOUSEKEEPING PAD FOR ALL GROUND MOUNTED EQUIPMENT UNLESS NOTED OTHERWISE. DENOTED BY PANELBOARD/SWITCHBOARD TAG PER ONE-LINE DIAGRAM. TRANSFORMER, PROVIDE 4 INCH CONCRETE HOUSEKEEPING PAD UNLESS NOTED OTHERWISE. DENOTED BY TRANSFORMER TAG PER ONE-LINE DIAGRAM. UTILITY METER. MOUNT PER UTILITY STANDARDS, UNO. FEEDER TAG. REFER TO FEEDER SCHEDULE ON DWG E5.1. (XXX)[FOR MULTI-FAMILY HOUSING PROJECTS UNLT] RESIDENTIAL UNIT METERCENTER IDENTIFICATION TAG. IDENTIFIES THE METERCENTER THAT [FOR MULTI-FAMILY HOUSING PROJECTS ONLY] PROVIDES POWER TO THE RESIDENTIAL UNIT LOADCENTER. [FOR SENIOR LIVING PROJECTS ONLY] RESIDENTIAL UNIT PANELBOARD DESIGNATION TAG. IDENTIFIES THE PANELBOARD & CIRCUIT THAT PROVIDES POWER TO THE RESIDENTIAL UNIT LOADCENTER. BRANCH CIRCUIT RUN CONCEALED, UNO. DASHED INDICATES CIRCUITRY REQUIRED TO BE RUN BELOW SLAB. BRANCH CIRCUIT HOME RUN TO PANELBOARD AND CIRCUIT INDICATED. **POWER / COMMUNICATION DEVICE LEGEND**

POWER DEVICE / EQUIPMENT LEGEND

SYMBOL	DESCRIPTION
${\bf \boxtimes}^{\#}$	POWER/COMMUNICATIONS RECESSED FLOOR BOX. WHERE INDICATED, SUBSCRIPT NUMBER INDICATES OUTLET TYPE. REFER TO DETAIL ON E4 SERIES DRAWINGS.
$\bigotimes^{\#}$	POWER/COMMUNICATIONS POKE THRU FLOOR BOX. WHERE INDICATED, SUBSCRIPT NUMBER INDICATES OUTLET TYPE. REFER TO DETAIL ON E4 SERIES DRAWINGS.
SF	SYSTEM FURNITURE FLEX POWER CABLE CONNECTION VIA FLOOR BOX WITH COVER SUITABLE FOR SYSTEM FURNITURE CONNECTION. REFER TO DETAIL ON E4 SERIES DRAWINGS. COORDINATE W/ SYSTEM FURNITURE PROVIDER PRIOR TO ROUGH-IN.
Ş	SYSTEM FURNITURE FLEX POWER CABLE CONNECTION VIA FLUSH WALL BOX MOUNTED 4" AFF. REFER TO DETAIL ON E4 SERIES DRAWINGS. COORDINATE W/FURNITURE PROVIDER PRIOR TO ROUGH-IN.
	POWER/COMMUNICATIONS POWER POLE, FURNISHED WITH (NIC) SYSTEM FURNITURE. PROVIDE POWER J-BOX MOUNTED TO STRUCTURE ABOVE CEILING, AND FLEXIBLE CONDUIT CONNECTION TO J-BOX MOUNTED TO TOP OF POLE AND CONNECTED TO PIGTAIL(S) FURNISHED WITH POLE. POLE LOCATION IS APPROXIMATE, COORDINATE WITH SYSTEM FURNITURE PROVIDER PRIOR TO ROUGH-IN.
VP	POWER AND COMMUNICATIONS FOR CEILING MOUNTED VIDEO PROJECTOR. PROVIDE CEILING MOUNTED DUPLEX RECEPTACLE, NEMA 5-20R AND CEILING MOUNTED TELECOMMUNICATION OULTET. COORDINATE FINAL LOCATION PRIOR TO ROUGH-IN.
P <u></u> T]	RECEPTACLE MOUNTED BESIDE TELECOMMUNICATION OUTLET. PROVIDE RECEPTACLE BASED ON "P" IN LEFT SYMBOL BOX. "P" INSIDE LEFT SYMBOL BOX SHALL BE ONE OF THE SYMBOLS FROM RECEPTACLE DEVICE LEGEND. PROVIDE TELECOMMUNICATION OULTET BASED ON "T" IN RIGHT SYMBOL BOX. "T" INSIDE RIGHT SYMBOL BOX SHALL BE ONE OF THE SYMBOLS FROM COMMUNICATIONS LEGEND.
Ρτν	RECEPTACLE AND TELECOMMUNICATION OUTLET MOUNTED INSIDE WALL MOUNTED FLAT DISPLAY BOX. PROVIDE RECEPTACLE BASED ON "P" IN LEFT SYMBOL BOX. "P" INSIDE LEFT SYMBOL BOX SHALL BE ONE OF THE SYMBOLS FROM RECEPTACLE DEVICE LEGEND. COORDINATE MOUNTING HEIGHTS WITH ARCHITECTURAL DRAWINGS.
<u>SYMBOL</u> /ARIATIONS	DESCRIPTION
	POWER/COMMUNICATIONS RECESSED FLOOR BOX OR POKE THRU CONNECTED TO EMERGENCY POWER, PROVIDE RED DEVICES.
—	PROTECTIVE COVER FOR RECEPTACLE AND TELECOMMUNICATION OUTLET. PROVIDE NEMA 3R

"WHILE IN USE" ENCLOSURE FOR ALL EXTERIOR LOCATIONS. TYPE OF RECEPTACLE AND TELECOMMUNICATION OUTLET MAY VARY. PLUG LOAD CONTROLLED RECEPTACLE MOUNTED BESIDE TELECOMMUNICATION OUTLET. TYPE OF RECEPTACLE AND TELECOMMUNICATION OUTLET MAY VARY. RECEPTACLE WITH USB PORTS MOUNTED BESIDE TELECOMMUNICATION OUTLET. TYPE OF RECEPTACLE AND TELECOMMUNICATION OUTLET MAY VARY.

LICUTING LECEND

1BOL	DESCRIPTION
5	LIGHT SWITCH, RATED 120/277 VOLTS, 20-AMPS, MOUNT AT +3'-10"AFF. SUBSCRIPT/SUPERSCRIPT LETTERS, NUMBERS, AND SYMBOLS INDICATES SWITCH TYPE AS FOLLOWS:
	 3 INDICATES 3-WAY LIGHT SWITCH 4 INDICATES 4-WAY LIGHT SWITCH D INDICATES DIMMER SWITCH P INDICATES PILOT LIGHT, ON WHEN SWITCH IS ON K INDICATES KEY OPERATED LIGHT SWITCH OS INDICATES SWITCH WITH INTEGRAL OCCUPANCY SENSOR OD INDICATES DIMMER SWITCH WITH INTEGRAL OCCUPANCY SENSOR OS 2 INDICATES DUAL RELAY INTEGRAL OCCUPANCY SENSOR, WIRED FOR MULTI-LEVEL SWITCHING
	LOWER CASE LETTER INDICATES LIGHT FIXTURE CONTROL DESIGNATION
ડે	INDICATES SWITCHES WIRED FOR INBOARD/OUTBOARD SWITCHING.
Ì	OMNI-DIRECTIONAL LIGHTING CONTROL OCCUPANCY DETECTOR, CEILING MOUNT.
	DIRECTIONAL LIGHTING CONTROL OCCUPANCY DETECTOR, WALL MOUNT AT 6" BELOW FINISHED CEILING.
Ð	PHOTOELECTRIC CELL FOR LIGHTING CONTROL. WALL MOUNT AT +10-0"AFF. AIM NORTH.
b	LIGHT FIXTURE, CEILING MOUNT.
•	LIGHT FIXTURE ON EMERGENCY POWER, CEILING MOUNT.
	LIGHTING FIXTURE.
	LIGHTING FIXTURE ON EMERGENCY POWER.
	WALL WASHER LIGHTING FIXTURE.
오	LIGHT FIXTURE, WALL MOUNT, HEIGHT AS INDICATED.
P	EMERGENCY EGRESS LIGHTING FIXTURE, WITH BATTERY PACK, WALL MOUNT AT +8'-0"AFF.
0	EXIT SIGN, CEILING MOUNT. DIRECTIONAL ARROWS AS INDICATED. SHADING INDICATES FACE(S) OF SIGN.
Ð	EXIT SIGN, WALL MOUNT. DIRECTIONAL ARROWS AS INDICATED. SHADING INDICATES FACE(S) OF SIGN.
<u> 7</u>	TRACK LIGHTS.
-0	LIGHT FIXTURE, POLE MOUNT.
5	SPORTS LIGHTING POLE.
	DEMOLITION LEGEND
1BOL	DESCRIPTION
0 ~~7 ~	REMOVE DEVICES, EQUIPMENT, IN ACCORDANCE WITH THE GENERAL DEMOLITION NOTES.

DEVICES ARE EXISTING TO REMAIN.

COMMUNICATIONS, AND CIRCUITRY.

WITHIN HATCHED AREAS, DISCONNECT AND REMOVE ALL ELECTRICAL MATERIALS INCLUDING BUT NOT LIMITED TO LIGHTS, DEVICES, EQUIPMENT, SPEAKERS, FIRE ALARM,

GENERAL DEMOLITION NOTES

A. PROVIDE ALL ELECTRICAL DEMOLITION WORK REQUIRED TO INSTALL THE WORK INDICATED. REMOVE, REROUTE, AND RECONNECT ALL BRANCH CIRCUITS THAT WILL REMAIN IN USE BUT INTERFERES WITH THE WORK.

B. REMOVE ALL EXISTING CONDUITS THAT WILL NOT BE REUSED AND WHERE THEY WILL BE EXPOSED AFTER COMPLETION. ABANDON ALL OTHERS IN THE WALLS ONLY. DISCONNECT ALL WIRING INDICATED AND/OR REQUIRED TO BE REMOVED FROM ALL POWER SOURCES. REMOVE ALL WIRING FROM ABANDONED CONDUITS AND PROVIDE BLANK COVER PLATES FOR BOXES NOT UTILIZED FOR THE WORK.

D. BEFORE DEMOLITION, VERIFY WITH THE OWNER ALL EQUIPMENT TO BE SALVAGED TO OWNER AND NOT REMOVED FROM THE SITE. FOR ALL REMAINING EQUIPMENT INDICATED FOR REMOVAL (AND NOT RELOCATED), REMOVE AND DISPOSE IN A LEGAL MANNER.

EXERCISE CARE IN REMOVING DEMOLITION ITEMS. REPAIR OR REPLACE ALL DAMAGE CAUSED TO EXISTING CONSTRUCTION AND EQUIPMENT TO REMAIN. DRAWINGS ARE BASED UPON EXISTING PLANS AND FIELD INVESTIGATION WITHOUT DEMOLITION. VISIT THE EXISTING BUILDING AND BECOME FAMILIAR WITH ALL EXISTING CONDITIONS AND EXAMINE ALL DRAWINGS

G. WHERE DEMOLITION OF TELECOMMUNICATIONS DEVICES OCCUR, REMOVE CABLING NOT INDICATED TO REMAIN BACK TO POINT OF ORIGIN.

H. DEMOLITION FLOOR PLANS ARE PROVIDED FOR REFERENCE ONLY TO AID IN DEFINING THE SCOPE OF DEMOLITION WORK.

GENERAL NOTES

- A. THE CONTRACT DOCUMENTS ARE COMPLEMENTARY AND WHAT IS REQUIRED BY ONE SHALL BE AS BINDING AS IF REQUIRED BY ALL. IN THE CASE OF A CONFLICT, DISAGREEMENT, OR AMBIGUITY, PROVIDE THE BETTER QUALITY. IN THE CASE OF A CONFLICT, DISAGREEMENT, OR AMBIGUITY, PROVIDE THE GREATER QUANTITY OF WORK.
- B. FOLLOW MOUNTING HEIGHTS INDICATED IN THE ELECTRICAL LEGEND UNLESS OTHERWISE INDICATED. MEASURE ALL MOUNTING HEIGHTS FROM THE DEVICE CENTER LINE UNLESS OTHERWISE INDICATED.
- C. FIELD VERIFY EXACT FEEDER LOCATIONS FOR MECHANICAL EQUIPMENT PRIOR TO ROUGH-IN. D. EQUIPMENT CONNECTIONS ARE INDICATED IN THEIR APPROXIMATE LOCATIONS. VERIFY EXACT LOCATIONS
- OF ALL CONNECTIONS WITH OTHER TRADES SUPPLYING EQUIPMENT TO AVOID CONFLICTS AT INSTALLATION. E. LOCATED ALL SWITCHES FOR LOCAL CONTROL OF LIGHTING ON STRIKE SIDE OF SINGLE DOORS UNLESS OTHERWISE INDICATED.
- F. PROVIDE SPECIFIC BREAKER ARRANGEMENT FOR THE PANEL BOARDS WHEREVER PHYSICALLY POSSIBLE. PROVIDE AS-BUILT DRAWINGS INDICATING ACTUAL BRANCH CIRCUIT ARRANGEMENT. PROVIDE TYPE WRITTEN PANELBOARD DIRECTORIES INDICATING ACTUAL BRANCH CIRCUIT ARRANGEMENT.
- G. PROVIDE AS-BUILT DRAWINGS INDICATING ACTUAL BRANCH CIRCUIT ARRANGEMENT. PROVIDE TYPEWRITTEN PANELBOARD DIRECTORIES INDICATING ACTUAL BRANCH CIRCUIT ARRANGEMENT. HAND WRITTEN SCHEDULES ARE NOT ACCEPTABLE.
- H. ALL CONDUIT RUNS INDICATED ARE DIAGRAMMATIC, COORDINATE ROUTING IN ALL SPACES WITH OTHER TRADES. ALL PANELBOARDS INDICATED ARE HOUSED IN A SINGLE WIDTH ENCLOSURE, UNO. THE CONTRACTOR SHALL
- FIELD VERIFY ROOM LAYOUT AND ADJUST ACCORDINGLY, AT NO COST TO THE OWNER, IF PROVIDING ANY PANELBOARD ENCLOSURES. I. WHERE POWER AND COMMUNICATION OUTLETS ARE INDICATED IN CLOSE PROXIMITY ON THE DRAWINGS,
- FIELD COORDINATE THE LOCATIONS TO PLACE THE OUTLETS ADJACENT TO EACH OTHER. K. ALL EXTERIOR RECEPTACLES SHALL BE LABELED "WR" - WEATHER RESISTANT.
- ... WHEN GROUPING MULTIPLE LINE TO NEUTRAL BRANCH CIRCUITS IN A CONDUIT, PROVIDE DEDICATED COLOR CODED NEUTRAL CONDUCTORS FOR EACH CIRCUIT. DO NOT USE BREAKER TIES AND SHARED NEUTRALS EVEN THOUGH PERMITTED BY NEC.
- M. PROVIDE A 2" WIDE YELLOW LINE PAINTED ON THE FLOOR INDICATING THE ELECTRICAL WORKING SPACE. IN FRONT OF ALL ELECTRICAL PANELS IN ELECTRICAL ROOMS. REFER TO PLANS FOR ELECTRICAL WORKING SPACE DETAILS. STENCIL "NO STORAGE" IN 2" HIGH, YELLOW LETTERS CENTERED IN THE OUTLINED AREA.

ABBREVIATIONS

1P	
3P 3R	I HREE PHASE WEATHERPROOF (NEMA 3R)
Δ	AMPS
AFF	ABOVE FINISHED FLOOR
AL	ALUMINUM
ATS	AUTOMATIC TRANSFER SWITCH
BFC	BELOW FINISHED CEILING
BFG	BELOW FINISHED GRADE
DNR C	
CATV	COMMUNITY ANTENNA TELEVISION (CABLE)
СВ	
CBL	CABLE
CCTV	CLOSED CIRCUIT TELEVISION
CLR	CLEAR
CO.	COMPANY
COMB	COMBINATION
COMM	COMMUNICATIONS
DISC	DISCONNECT
DIV	DIVISION
DWG	DRAWING
EBH	ELECTRIC BASEBOARD HEATER
EC	
EUS ELEC	Electrical
ELEV	ELEVATOR
EPO	EMERGENCY POWER OFF
EQ	EQUIPMENT
ETR	
EX	EXISTING
EXT	EXTERIOR
FA	FIRE ALARM
FAAP	
	FIRE ALARM CONTROL PANEL
FAGE	FIRE ALARM GRAFHIC FANEL
FFSCP	FIRE FIGHTER'S SMOKE CONTROL PANEL
FLA	FULL LOAD AMPS
FPMR	FUSE PER MANUFACTURERS REQUIREMENTS/RECOMMENDATIONS
FPND	
GE	GROUND FAULT PROTECTION FOR EQUIPMENT, 6-50mA PER NEC 427.22 (PROVIDE ACCESSORY FOR
	INDICATED BREAKER)
GFCI	
GFP	BREAKER)
HKP	HOUSEKEEPING PAD
HP	HORSEPOWER
HPS	HIGH PRESSURE SODIUM
HZ IAW	HERTZ
IG	ISOLATED GROUND
J-BOX	JUNCTION BOX
KHFSS	KITCHEN HOOD FIRE SUPPRESSION SYSTEM
KHz	KILOHERTZ
KVA	KILOVOLI AMPS
KWH	KILOWATT HOURS
L	LOCKOUT TO PREVENT UNAUTHORIZED SWITCHING (PROVIDE ACCESSORY FOR INDICATED BREAKER)
LC	ROUTE CIRCUIT TO LOAD VIA LIGHTING CONTACTOR, REFER TO LC SCHEDULE
LED	LIGHT EMITTING DIODE
LIG	LIGHTING
MAX	MAXIMUM
MCA	MINIMUM CIRCUIT AMPACITY
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MH7	METAL HALIDE MEGAHERTZ
MIN	MINIMUM
ML	MAINTENANCE LOCK (PROVIDE ACCESSORY FOR INDICATED BREAKER)
MLO	MAIN LUG ONLY
MNS	
MUCP	MAXIMUM OVER CORRENT PROTECTION. MOUNTED
N	NEUTRAL
N/C	NORMALLY CLOSED
N/O	NORMALLY OPEN
NO.	
P	
PBD	PILOT LIGHT (AT THE SWITCH HANDLE)
חס	PILOT LIGHT (AT THE SWITCH HANDLE) PANELBOARD
	PILOT LIGHT (AT THE SWITCH HANDLE) PANELBOARD PROTECTIVE DEVICE
RCPT	PILOT LIGHT (AT THE SWITCH HANDLE) PANELBOARD PROTECTIVE DEVICE RECEPTACLE RECEPTACLE
RCPT REC SEC	PILOT LIGHT (AT THE SWITCH HANDLE) PANELBOARD PROTECTIVE DEVICE RECEPTACLE RECEPTACLE SECURITY
RCPT REC SEC SPD	PILOT LIGHT (AT THE SWITCH HANDLE) PANELBOARD PROTECTIVE DEVICE RECEPTACLE RECEPTACLE SECURITY SURGE PROTECTIVE DEVICE
RCPT REC SEC SPD SPEC.	PILOT LIGHT (AT THE SWITCH HANDLE) PANELBOARD PROTECTIVE DEVICE RECEPTACLE RECEPTACLE SECURITY SURGE PROTECTIVE DEVICE SPECIFICATION(S)
RCPT REC SEC SPD SPEC. ST	PILOT LIGHT (AT THE SWITCH HANDLE) PANELBOARD PROTECTIVE DEVICE RECEPTACLE RECEPTACLE SECURITY SURGE PROTECTIVE DEVICE SPECIFICATION(S) SHUNT TRIP, 120V COIL (PROVIDE ACCESSORY FOR INDICATED BREAKER)
RCPT REC SEC SPD SPEC. ST SW SWBD	PILOT LIGHT (AT THE SWITCH HANDLE) PANELBOARD PROTECTIVE DEVICE RECEPTACLE RECEPTACLE SECURITY SURGE PROTECTIVE DEVICE SPECIFICATION(S) SHUNT TRIP, 120V COIL (PROVIDE ACCESSORY FOR INDICATED BREAKER) SWITCH SWITCHBOARD
RCPT REC SEC SPD SPEC. ST SW SWBD TBB	PILOT LIGHT (AT THE SWITCH HANDLE) PANELBOARD PROTECTIVE DEVICE RECEPTACLE RECEPTACLE SECURITY SURGE PROTECTIVE DEVICE SPECIFICATION(S) SHUNT TRIP, 120V COIL (PROVIDE ACCESSORY FOR INDICATED BREAKER) SWITCH SWITCHBOARD TELECOMMUNICATIONS BONDING BACKBONE
RCPT REC SEC SPD SPEC. ST SW SWBD TBB TC	PILOT LIGHT (AT THE SWITCH HANDLE) PANELBOARD PROTECTIVE DEVICE RECEPTACLE RECEPTACLE SECURITY SURGE PROTECTIVE DEVICE SPECIFICATION(S) SHUNT TRIP, 120V COIL (PROVIDE ACCESSORY FOR INDICATED BREAKER) SWITCH SWITCHBOARD TELECOMMUNICATIONS BONDING BACKBONE TELECOMMUNICATIONS CLOSET
RCPT REC SEC SPD SPEC. ST SW SWBD TBB TC TELECOM	PILOT LIGHT (AT THE SWITCH HANDLE) PANELBOARD PROTECTIVE DEVICE RECEPTACLE RECEPTACLE SECURITY SURGE PROTECTIVE DEVICE SPECIFICATION(S) SHUNT TRIP, 120V COIL (PROVIDE ACCESSORY FOR INDICATED BREAKER) SWITCH SWITCHBOARD TELECOMMUNICATIONS BONDING BACKBONE TELECOMMUNICATIONS CLOSET TELECOMMUNICATIONS
RCPT REC SEC SPD SPEC. ST SW SWBD TBB TC TELECOM TGB TMGB	DWNER FORNISHED CONTRACTOR INSTALLED PILOT LIGHT (AT THE SWITCH HANDLE) PANELBOARD PROTECTIVE DEVICE RECEPTACLE RECEPTACLE SECURITY SURGE PROTECTIVE DEVICE SPECIFICATION(S) SHUNT TRIP, 120V COIL (PROVIDE ACCESSORY FOR INDICATED BREAKER) SWITCH SWITCH SWITCHBOARD TELECOMMUNICATIONS BONDING BACKBONE TELECOMMUNICATIONS CLOSET TELECOMMUNICATIONS GROUNDING BUS BAR TELECOMMUNICATIONS GROUNDING BUS BAR TELECOMMUNICATIONS MAIN GROUNDING BUS BAR
RCPT REC SEC SPD SPEC. ST SW SWBD TBB TC TELECOM TGB TMGB TYP	OWNER FURNISHED CONTRACTOR INSTALLED PILOT LIGHT (AT THE SWITCH HANDLE) PANELBOARD PROTECTIVE DEVICE RECEPTACLE RECEPTACLE SECURITY SURGE PROTECTIVE DEVICE SPECIFICATION(S) SHUNT TRIP, 120V COIL (PROVIDE ACCESSORY FOR INDICATED BREAKER) SWITCH SWITCH SWITCHBOARD TELECOMMUNICATIONS BONDING BACKBONE TELECOMMUNICATIONS CLOSET TELECOMMUNICATIONS GROUNDING BUS BAR TELECOMMUNICATIONS GROUNDING BUS BAR TELECOMMUNICATIONS MAIN GROUNDING BUS BAR TYPICAL
RCPT REC SEC SPD SPEC. ST SW SWBD TBB TC TELECOM TGB TMGB TYP UNO	OWNER FURNISHED CONTRACTOR INSTALLED PILOT LIGHT (AT THE SWITCH HANDLE) PANELBOARD PROTECTIVE DEVICE RECEPTACLE RECEPTACLE SECURITY SURGE PROTECTIVE DEVICE SPECIFICATION(S) SHUNT TRIP, 120V COIL (PROVIDE ACCESSORY FOR INDICATED BREAKER) SWITCH SWITCH SWITCHBOARD TELECOMMUNICATIONS BONDING BACKBONE TELECOMMUNICATIONS CLOSET TELECOMMUNICATIONS TELECOMMUNICATIONS GROUNDING BUS BAR TELECOMMUNICATIONS MAIN GROUNDING BUS BAR TYPICAL UNLESS NOTED (INDICATED) OTHERWISE
RCPT REC SEC SPD SPEC. ST SW SWBD TBB TC TELECOM TGB TMGB TYP UNO V	OWNER FORMISHED CONTRACTOR INSTALLED PILOT LIGHT (AT THE SWITCH HANDLE) PANELBOARD PROTECTIVE DEVICE RECEPTACLE RECEPTACLE SECURITY SURGE PROTECTIVE DEVICE SPECIFICATION(S) SHUNT TRIP, 120V COIL (PROVIDE ACCESSORY FOR INDICATED BREAKER) SWITCH SWITCH SWITCH SWITCHBOARD TELECOMMUNICATIONS BONDING BACKBONE TELECOMMUNICATIONS CLOSET TELECOMMUNICATIONS GROUNDING BUS BAR TELECOMMUNICATIONS GROUNDING BUS BAR TELECOMMUNICATIONS MAIN GROUNDING BUS BAR TYPICAL UNLESS NOTED (INDICATED) OTHERWISE VOLTS
RCPT REC SEC SPD SPEC. ST SW SWBD TBB TC TELECOM TGB TMGB TYP UNO V VFD VIF	OWNER FURNISHED CONTRACTOR INSTALLED PILOT LIGHT (AT THE SWITCH HANDLE) PANELBOARD PROTECTIVE DEVICE RECEPTACLE RECEPTACLE SECURITY SURGE PROTECTIVE DEVICE SPECIFICATION(S) SHUNT TRIP, 120V COIL (PROVIDE ACCESSORY FOR INDICATED BREAKER) SWITCH SWITCHBOARD TELECOMMUNICATIONS BONDING BACKBONE TELECOMMUNICATIONS CLOSET TELECOMMUNICATIONS GROUNDING BUS BAR TELECOMMUNICATIONS GROUNDING BUS BAR TELECOMMUNICATIONS GROUNDING BUS BAR TELECOMMUNICATIONS MAIN GROUNDING BUS BAR TYPICAL UNLESS NOTED (INDICATED) OTHERWISE VOLTS VARIABLE FREQUENCY DRIVE VERIFY IN FIELD
RCPT REC SEC SPD SPEC. ST SW SWBD TBB TC TELECOM TGB TMGB TYP UNO V VFD VIF W	OWNER FURNISHED CONTRACTOR INSTALLED PILOT LIGHT (AT THE SWITCH HANDLE) PANELBOARD PROTECTIVE DEVICE RECEPTACLE RECEPTACLE SECURITY SURGE PROTECTIVE DEVICE SPECIFICATION(S) SHUNT TRIP, 120V COIL (PROVIDE ACCESSORY FOR INDICATED BREAKER) SWITCH SWITCH SURGED SWITCH SWITCHBOARD TELECOMMUNICATIONS BONDING BACKBONE TELECOMMUNICATIONS CLOSET TELECOMMUNICATIONS GROUNDING BUS BAR TELECOMMUNICATIONS GROUNDING BUS BAR TELECOMMUNICATIONS MAIN GROUNDING BUS BAR TYPICAL UNLESS NOTED (INDICATED) OTHERWISE VOLTS VARIABLE FREQUENCY DRIVE VERIFY IN FIELD WATTS
RCPT REC SEC SPD SPEC. ST SW SWBD TBB TC TBB TC TELECOM TGB TMGB TYP UNO V VFD VIF VIF W W/	OWNER FURNISHED CONTRACTOR INSTALLED PILOT LIGHT (AT THE SWITCH HANDLE) PANELBOARD PROTECTIVE DEVICE RECEPTACLE SECURITY SURGE PROTECTIVE DEVICE SPECIFICATION(S) SHUNT TRIP, 120V COIL (PROVIDE ACCESSORY FOR INDICATED BREAKER) SWITCH SWITCH SWITCHBOARD TELECOMMUNICATIONS BONDING BACKBONE TELECOMMUNICATIONS CLOSET TELECOMMUNICATIONS GROUNDING BUS BAR TELECOMMUNICATIONS GROUNDING BUS BAR TELECOMMUNICATIONS GROUNDING BUS BAR TELECOMMUNICATIONS MAIN GROUNDING BUS BAR TELECOMMUNICATIONS GROUNDING BUS BAR TELECOMMUNICATIONS MAIN GROUNDING BUS BAR TYPICAL UNLESS NOTED (INDICATED) OTHERWISE VOLTS VARIABLE FREQUENCY DRIVE VERIFY IN FIELD WATTS WITH
RCPT REC SEC SPD SPEC. ST SW SWBD TBB TC TELECOM TGB TMGB TYP UNO V VFD VIF W W/ W/ W/ W/	OWNER FURNISHED CONTRACTOR INSTALLED PILOT LIGHT (AT THE SWITCH HANDLE) PANELBOARD PROTECTIVE DEVICE RECEPTACLE RECEPTACLE SECURITY SURGE PROTECTIVE DEVICE SPECIFICATION(S) SHUNT TRIP, 120V COIL (PROVIDE ACCESSORY FOR INDICATED BREAKER) SWITCH SWITCH SWITCHBOARD TELECOMMUNICATIONS BONDING BACKBONE TELECOMMUNICATIONS CLOSET TELECOMMUNICATIONS GROUNDING BUS BAR TELECOMMUNICATIONS MAIN GROUNDING BUS BAR TYPICAL UNLESS NOTED (INDICATED) OTHERWISE VOLTS VARIABLE FREQUENCY DRIVE VERIFY IN FIELD WATTS WITH WIRE GUARD
RCPT REC SEC SPD SPEC. ST SW SWBD TBB TC TELECOM TGB TMGB TYP UNO V FD VFD VIF W W/ WG WP XFER	OWNER FURNISHED CONTRACTOR INSTALLED PILOT LIGHT (AT THE SWITCH HANDLE) PANELBOARD PROTECTIVE DEVICE RECEPTACLE RECEPTACLE SECURITY SURGE PROTECTIVE DEVICE SPECIFICATION(S) SHUNT TRIP, 120V COIL (PROVIDE ACCESSORY FOR INDICATED BREAKER) SWITCH SWITCH SWITCHBOARD TELECOMMUNICATIONS BONDING BACKBONE TELECOMMUNICATIONS CLOSET TELECOMMUNICATIONS GROUNDING BUS BAR TELECOMMUNICATIONS MAIN GROUNDING BUS BAR TELECOMMUNICATIONS MAIN GROUNDING BUS BAR TYPICAL UNLESS NOTED (INDICATED) OTHERWISE VOLTS VARIABLE FREQUENCY DRIVE VERIFY IN FIELD WATTS WITH WIRE GUARD WEATHERPROOF TRANSFER

LEGENDS **ABBREVIATIONS AND GENERAL NOTES**

PROJECT NO: 630516

JANUARY 17, 2024

REVISIONS DATE DESCRIPTION

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KEYNOTES APPLIES TO THIS DRAWING

- DISCONNECT RECEPTACLE BRANCH CIRCUIT SERVING LAB CASEWORK TO ACCOMMODATE REPLACEMENT, MAINTAIN BRANCH CIRCUIT FOR REUSE.
- DISCONNECT FUME HOOD BRANCH CIRCUIT IN ITS ENTIRETLY TO ACCOMMODATE REPLACEMENT.
- DISCONNECT MECHANICAL EQUIPMENT BRANCH CIRCUIT, MAINTAIN FOR REUSE.
- DISCONNECT AND REMOVE ALL LIGHT FIXTURES AND SWITCHING IN THIS ROOM, MAINTAIN BRANCH CIRCUIT HOMERUN FOR REUSE.

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KEYNOTES APPLIES TO THIS DRAWING DISCONNECT AND REMOVE ALL LIGHT FIXTURES AND SWITCHING IN THIS ROOM, MAINTAIN BRANCH CIRCUIT HOMERUN FOR REUSE. DISCONNECT & REMOVE E.P.O BUTTON IN ITS ENTIRETY. PREPARE EXISTING CKTS CL1-13 & CL1-24 FOR INTERCEPTION AND EXTENSION TO CONTACTOR.

3 DISCONNECT & REMOVE RECEPTACLE BRANCH CIRCUIT SERVING LAB CASEWORK IN ITS ENTIRETY.

		FO	od se	ERVICE	EQUI	PMEN	IT SCHEDULE	
TAG	DESRIPTION	VOLTAGE	POLES	LOAD	PANEL	CCT #	WIRE	REMARK
02	REACH IN REFRIGERATOR	120 V	1	0.42 kVA	LK	21	(2) #12, (1) #12 E.G. IN 3/4"C	NEMA 5-15P
03	REACH IN FREEZER	120 V	1	0.96 kVA	LK	9	(2) #12, (1) #12 E.G. IN 3/4"C	NEMA 5-15P
05	REACH IN REFRIGERATOR	120 V	1	0.42 kVA	LK	26	(2) #12, (1) #12 E.G. IN 3/4"C	NEMA 5-15P
05	REACH IN REFRIGERATOR	120 V	1	0.42 kVA	LK	18	(2) #12, (1) #12 E.G. IN 3/4"C	NEMA 5-15P
08	FOOD PROCESSOR	120 V	1	1.40 kVA	LK	7	(2) #12, (1) #12 E.G. IN 3/4"C	NEMA 5-15P
09	FOOD CUTTER	120 V	1	1.10 kVA	LK	10	(2) #12, (1) #12 E.G. IN 3/4"C	NEMA 5-15P
19	HOT PLATE	208 V	3	13.70 kVA	LK	28,30,32	(3) #6, (1) #8 E.G. IN 1"C	NEMA1 3P 60A FUSED DISC
20	HEATED CABINET	120 V	1	1.80 kVA	LK	16	(2) #12, (1) #12 E.G. IN 3/4"C	NEMA 5-15P
21	GRIDDLE	208 V	2	9.80 kVA	LK	41,43	(2) #6, (1) #8 E.G. IN 1"C	NEMA1 2P 60A FUSED DISC
22	CONVECTION STEAMER	208 V	2	6.00 kVA	LK	27,29	(2) #8, (1) #10 E.G. IN 1"C	NEMA L6-30P
23	CONVECTION OVEN	208 V	3	11.10 kVA	LK	33,35,37	(3) #8, (1) #10 E.G. IN 1"C	NEMA1 3P 60A FUSED DISC
24	EXHAUST HOOD	120 V	1	0.50 kVA	LK	1	(2) #12, (1) #12 E.G. IN 3/4"C	HARDWIRE MOTOR RATED SWITCH
25	FIRE SUPPRESSION	120 V	1	0.50 kVA	LK	2	(2) #12, (1) #12 E.G. IN 3/4"C	HARDWIRE MOTOR RATED SWITCH
31	ICE MAKER	120 V	1	1.20 kVA	LK	15	(2) #12, (1) #12 E.G. IN 3/4"C	HARDWIRE MOTOR RATED SWITCH
34	DISHWASHER	208 V	3	19.30 kVA	LK	36,38,40	(3) #4, (1) #8 E.G. IN 1-1/4"C	NEMA1 3P 60A FUSED DISC
39	MERCHANDISER	120 V	1	1.90 kVA	LK	8	(2) #12, (1) #12 E.G. IN 3/4"C	NEMA 5-20P
FOG	GREASE TRAP ALARM PANEL	120 V	1	0.18 kVA	LK	11	(2) #12, (1) #12 E.G. IN 3/4"C	NEMA 5-15P

DIV					23 ELECTRICAL CONNECTION SCHEDULE E2.1					
	TAG	VOLTAGE	# POLES	LOAD	PANEL	CCT#	WIRE	DISCONNECTING MEANS	REMARKS	
	MAU-1	480 V	3	45.0 kVA	HK	2,4,6	(3) #4, (1) #8 E.G. IN 1-1/4"C	BY DIV 23	REFER TO KITCHEN HOOD DETAIL	
	SEHS F-1	120 V	1	0.3 kVA	FF	32	(2) #12, (1) #12 E.G. IN 3/4"C	MOTOR RATED SWITCH	FAN IS A REPLACEMENT OF LIKE F	
	SEHS F-2	120 V	1	0.0 kVA	FF	1	(2) #12, (1) #12 E.G. IN 3/4"C	MOTOR RATED SWITCH	ROUTE THROUGH FUME HOOD	
	SEHS F-3	120 V	1	0.1 kVA	FF	35	(2) #12, (1) #12 E.G. IN 3/4"C	MOTOR RATED SWITCH	PROVIDE 20A BREAKER IN PANEL	
	SEHS F-4	480 V	3	2.8 kVA	HK	8,10,12	(3) #12, (1) #12 E.G. IN 3/4"C	30A/NEMA 3R	REFER TO KITCHEN HOOD DETAIL	

FLOOR PLAN - SOUTHEAST HS - SCIENCE LAB 1/4" = 1'-0"

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KEYNOTES APPLIES TO THIS DRAWING

PROVIDE LIGHT FIXTURES & SWITCHING AS SHOWN, CONNECT TO EXISTING BRANCH CIRCUIT HOMERUN. 3-#12's IN 3/4" C.

FLOOR PLAN - NORTHWEST HS

DIV 23 ELECTRICAL CONNECTION SCHEDULE E2.3

TAG VOLTAGE # POLES LOAD PANEL CCT# WIRE DISCONNECTING MEANS NWHS F-1 120 V 1 0.3 kVA P1 11 (2) #12, (1) #12 E.G. IN 3/4"C MANUAL MOTOR STARTER

REMARKS

KEYNOTES APPLIES TO THIS DRAWING

PROVIDE E.P.O. BUTTON & CONNECT TO 14-POLE CONTACTOR. PROVIDE 14-POLE CONTACTOR, LOCATE ABOVE ACCESSIBLE CEILING, & ROUTE ALL P1 CIRCUITS THROUGH CONTACTOR. INTERCEPT CKTS CL1-13 & CL1-24 AND ROUTE THROUGH CONTACTOR.

PROJECT NO: 630516 DATE: JANUARY 17, 2024 REVISIONS DATE DESCRIPTION POWER & COMMUNICATIONS PLAN - NORTHWEST HS

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15/2024 11:30:23 AN

RCP - NORTHWEST HS - SCIENCE LAB

1 PROVIDE LIGHT FIXTURES & SWITCHING AS SHOWN, CONNECT TO EXISTING BRANCH CIRCUIT HOMERUN. 3-#12's IN 3/4" C.

KEYNOTES APPLIES TO THIS DRAWING

	LIC	GHT FIXTURE	SCHEDULE					
			LAMP		MOUNTING	OPTIONS	COMMENTS	kVA
VOLTAGE	WATTAGE	LUMENS	TYPE	COLOR TEMP.	WOUNTING	OFTIONS	COMMENTS	
277 V	59	7522 lm	LED	4000 K	RECESSED	SMOOTH ACRYLIC LENS, GASKETED		15 kVA
277 V	59	7522 lm	LED	4000 K	RECESSED	SMOOTH ACRYLIC LENS		
								30 kVA

2

Total Est. Demand Current: 13 A

E5.1

0.00%

0.00%

100.00%

0 VA

0 VA

4500 VA

0 VA

0 VA

4500 VA

CHEN

SCELLANEOUS

	TRANSFORMER SCHEDULE										
kVA	TYPE	PRIMARY	SECONDARY	COPPER PRIMARY FEEDER	COPPER SECONDARY FEEDER	BONDING CONDUCTOR					
15 kVA	LINEAR	480V-3Ø	208Y/120V	3#10, #10 G, 3/4" C.	4#4, #8 G, 1-1/4" C.	#8					
30 kVA	LINEAR	480V-3Ø	208Y/120V	3#6, #10 G, 1" C.	4#1, #6 G, 1-1/2" C.	#6					
45 kVA	LINEAR	480V-3Ø	208Y/120V	3#4, #8 G, 1-1/4" C.	4#1/0, #6 G, 2" C.	#6					

FEEDER ID	# OF SETS	BUILDING WIRE QUANTITY & SIZE TYPE THHN - DRY TYPE THWN - WET	MINIMUM CONDUIT SIZE	FEEDER ID	# OF SETS	BUILDING WIRE QUANTITY & SIZE TYPE THHN - DRY TYPE THWN - WET	MINIMUM CONDUIT SIZI
30	1	3#10,#10 G	3/4"	30Y	1	4#10,#10 G	3/4"
35	1	3#8,#10 G	3/4"	(35Y)	1	4#8,#10 G	3/4"
40	1	3#8,#10 G	3/4"	(40Y)	1	4#8,#10 G	3/4"
45	1	3#6,#10 G	1"	(45Y)	1	4#6,#10 G	1"
50	1	3#6,#10 G	1"	50Y	1	4#6,#10 G	1"
60	1	3#4,#10 G	1"	60Y	1	4#4,#10 G	1"
70	1	3#4,#8 G	1 1/4"	(70Y)	1	4#4,#8 G	1 1/4"
80	1	3#3,#8 G	1 1/4"	80Y	1	4#3,#8 G	1 1/4"
90	1	3#2,#8 G	1 1/4"	90Y	1	4#2,#8 G	1 1/4"
100	1	3#1,#8 G	1 1/4"	100Y	1	4#1,#8 G	1 1/4"
(110)	1	3#2,#6 G	1 1/2"	(110Y)	1	4#2,#6 G	1 1/2"
125	1	3#1,#6 G	1 1/2"	(125Y)	1	4#1,#6 G	1 1/2"
150	1	3#1/0,#6 G	2"	(150Y)	1	4#1/0,#6 G	2"
175	1	3#2/0,#6 G	2"	(175Y)	1	4#2/0,#6 G	2"
200	1	3#3/0,#6 G	2"	(200Y)	1	4#3/0,#6 G	2"
225	1	3#4/0,#4 G	2 1/2"	(225Y)	1	4#4/0,#4 G	2 1/2"

2. FEEDER SIZES BASED ON TABLE 310.15(B)(16), 75° C.

3. SIZES ADJUSTED PER NEC 110.14.

ONE LINE DIAGRAM - SOUTHEAST HS 12" = 1'-0'

E BRKR CK1 20 A 2 20 A 4
20 A 2 20 A 4
20 A 4
20 A 0
20 A 8
20 A 10
20 A 12
20 A 14
20 A 16
20 A 18
20 A 20
20 A 22
20 A 24
20 A 26
20 A 28
20 A 30
20 A 32
20 A 34
20 A 36
20 A 38
20 A 40
20 A 42

		_BC		HK			LOC		DRY S 269A	TORAGE F		<u> </u>	
скт	BRKR	POLE	LOAD	A		E	3	(30147		POLE	BRKR	ск
1	├──── ╋		<u> </u>	26.3	15.0							 	2
3	175 A	3	т-к			24.6	15.0			MAU-1	3	70 A	4
5	1							25.7	15.0	1			6
7	20 A	1	SPARE	0.0	0.9								8
9	20 A	1	SPARE			0.0	0.9			SEHS F-4	3	15 A	10
11	20 A	1	SPARE					0.0	0.9	1			12
13	20 A	1	SPARE	0.0	0.0					SPARE	1	20 A	14
15	20 A	1	SPARE			0.0	0.0			SPARE	1	20 A	16
17	20 A	1	SPARE					0.0	0.0	SPARE	1	20 A	18
19	20 A	1	SPARE	0.0	0.0					SPARE	1	20 A	20
21		1	SPACE ONLY							SPACE ONLY	1		22
23		1	SPACE ONLY							SPACE ONLY	1		24
25		1	SPACE ONLY							SPACE ONLY	1		26
27		1	SPACE ONLY							SPACE ONLY	1		28
29		1	SPACE ONLY							SPACE ONLY	1		30
31		1	SPACE ONLY							SPACE ONLY	1		32
33		1	SPACE ONLY							SPACE ONLY	1		34
35		1	SPACE ONLY							SPACE ONLY	1		36
37		1	SPACE ONLY							SPACE ONLY	1		38
39		1	SPACE ONLY							SPACE ONLY	1		40
41		1	SPACE ONLY					<u> </u>		SPACE ONLY	1		42
				42 k	VA	411	νA	42 k	νA				
				153	3 A	146	δA	15	1 A				

(GP) = PROVIDE GFCI BREAKER FOR PERSONNEL, 4-6mA PER NEC 210.8.PROVIDE DED. NEUTRAL. (L) = PROVIDE LOCKOUT BREAKER TO PREVENT UNAUTHORIZED SWITCHING.

(LC) = ROUTE TO LOAD VIA LIGHTING CONTACTOR. (ML) = PROVIDE BREAKER WITH MAINTENANCE LOCKOUT, LOCKABLE OFF.

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
INTERIOR LIGHTING	0 VA	0.00%	0 VA	
RECEPTACLES	5940 VA	100.00%	5940 VA	Total Conn. Load: 124.4 kVA
AC / HEAT PUMP	0 VA	0.00%	0 VA	Total Est. Demand: 99.7 kVA
ELECTRIC HEAT	0 VA	0.00%	0 VA	Total Conn. Current: 150 A
HVAC	47800 VA	100.00%	47800 VA	Total Est. Demand Current: 120 A
KITCHEN	70700 VA	65.00%	45955 VA	
MISCELLANEOUS	0 VA	0.00%	0 VA	

PA	NE	LBC	DARD SCHEDULE	LK		LOC	DCATION: DRY STORAGE FED FROM: T-K					
400 A	MP MC	B	120/208 Wye	3 PH 4 W		Γ	MOUNT	SURF	ACE PANEL ASSEMBLY RATED (Kaic): 22 kai	с	
скт	BRKR	POLE	LOAD	А		В		C	LOAD	POLE	BRKR	скт
1	20 A	1	EXHAUST HOOD	0.5 0.5	5				FIRE SUPPRESSION	1	20 A	2
3	20 A	1	CORD REELS (GP)		0.4	0.7			RECEPTACLES CULINARY LAB 269	1	20 A	4
5	20 A	1	CORD REELS (GP)				0.4	0.7	RECEPTACLES CULINARY LAB 269	1	20 A	6
7	20 A	1	FOOD PROCESSOR (08) (GP)	1.4 1.9	9				MERCHANDISER (39)	1	20 A	8
9	20 A	1	REACH IN FREEZER (03) (GP)		1.0	1.1			FOOD CUTTER (09) (GP)	1	20 A	10
11	20 A	1	FOG				0.2	0.4	CORD REELS (GP)	1	20 A	12
13	20 A	1	BEVERAGE AREA (GP)	0.2 0.4	ŀ				CORD REELS (GP)	1	20 A	14
15	20 A	1	ICE MAKER (31)		1.2	1.8			HEATED CABINET (20)	1	20 A	16
17	20 A	1	CORD REELS (GP)				0.4	0.4	REACH IN REFRIGERATOR (05B) (GP)	1	20 A	18
19	20 A	1	CORD REELS (GP)	0.4 0.4	ŀ				RECEPTACLES CONVENIENCE	1	20 A	20
21	20 A	1	REACH IN REFRIGERATOR (02) (GP)		0.4	0.4			CORD REELS (GP)	1	20 A	22
23	20 A	1	CORD REELS (GP)				0.4	0.4	CORD REELS (GP)	1	20 A	24
25	20 A	1	CAMERA/MONITORS CEILING	0.7 0.4					REACH IN REFRIGERATOR (05A) (GP)	1	20 A	26
27	10.0	2			3.0	4.6						28
29	40 A	2	STEAMER (22) (SHUNT TRIP)				3.0	4.6	HOT PLATE (19) (SHUNT TRIP)	3	50 A	30
31		1	SHUNT TRIP	4.6	6							32
33					3.7				SHUNT TRIP	1		34
35	40 A	3	OVEN (23) (SHUNT TRIP)				3.7	6.4				36
37				3.7 6.4	ŀ				DISHWASHER (34)	3	70 A	38
39		1	SHUNT TRIP			6.4						40
41	60.4	2					4.9		SHUNT TRIP	1		42
43	00 A	2	GRIDDLE (21) (SHUNT TRIP)	4.9 0.0)				SPARE	1	20 A	44
45		1	SHUNT TRIP			0.0			SPARE	1	20 A	46
47	20 A	1	SPARE				0.0	0.0	SPARE	1	20 A	48
49	20 A	1	SPARE	0.0 0.0)				SPARE	1	20 A	50
51	20 A	1	SPARE		0.0	0.0			SPARE	1	20 A	52
53	20 A	1	SPARE				0.0	0.0	SPARE	1	20 A	54
55		1	SPACE ONLY						SPACE ONLY	1		56
57		1	SPACE ONLY						SPACE ONLY	1		58
59		1	SPACE ONLY						SPACE ONLY	1		60
61		1	SPACE ONLY						SPACE ONLY	1		62
63		1	SPACE ONLY						SPACE ONLY	1		64
65		1	SPACE ONLY						SPACE ONLY	1		66
67		1	SPACE ONLY						SPACE ONLY	1		68
69		1	SPACE ONLY						SPACE ONLY	1		70
71		1	SPACE ONLY						SPACE ONLY	1		72
				26 kVA	25	i kVA	26	kVA				
				221 A	2	05 A	21	6 A	-			

(GE) = PROVIDE GFCI BREAKER FOR EQUIPMENT, 6-50mA PER NEC 427.22 PROVIDE DED. NEUTRAL. (GP) = PROVIDE GFCI BREAKER FOR PERSONNEL, 4-6mA PER NEC 210.8.PROVIDE DED. NEUTRAL. (L) = PROVIDE LOCKOUT BREAKER TO PREVENT UNAUTHORIZED SWITCHING.

(LC) = ROUTE TO LOAD VIA LIGHTING CONTACTOR. (ML) = PROVIDE BREAKER WITH MAINTENANCE LOCKOUT, LOCKABLE OFF.

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
INTERIOR LIGHTING	0 VA	0.00%	0 VA	
EXTERIOR LIGHTING	0 VA	0.00%	0 VA	Total Conn. Load: 76.6 kVA
RECEPTACLES	5940 VA	100.00%	5940 VA	Total Est. Demand: 51.9 kVA
AC / HEAT PUMP	0 VA	0.00%	0 VA	Total Conn. Current: 213 A
ELECTRIC HEAT	0 VA	0.00%	0 VA	Total Est. Demand Current: 144 A
KITCHEN	70700 VA	65.00%	45955 VA	
MISCELLANEOUS	0 VA	0.00%	0 VA	

PROJECT NO: 630516 DATE JANUARY 17, 2024 REVISIONS DATE DESCRIPTION

DIAGRAMS & SCHEDULES, & DETAILS

