# COSMETOLOGY SUITE RENOVATION VICINITY MAP LENOIR COMMUNITY COLLEGE LOCATION MAP LOCATION MAP



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# PROGRESS SET

# MOSELEYARCHITECTS

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G0.1

#### 2018 APPENDIX B BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS (EXCEPT 1 AND 2-FAMILY DWELLINGS AND TOWNHOUSES) (Reproduce the following data on the building plans sheet 1 or 2)

Name of Project: <u>College of Cos</u> Address: <u>Lenoir Community Co</u> Nwner/Authorized Agent: <u>Debor</u> -Mail dssutton14@lenoircc.edu	matalagu			
wned By: <u>State</u> ode Enforcement Jurisdiction: 5	<u>motology</u> ollege; 231 NC Highw r <u>ah S. Sutton</u> Phone I	vay 58; Kingston, NC e # ( <u>252</u> ) <u>527-6223 e</u>	Zip Co <u>xt. 350</u>	ode <u>28504</u>
CONTACT:				
Architectural <u>Moseley Archi</u> <u>blockwood@moseleyar</u>	tects Brad Loc chitects.com	kwood <u>14206</u>	TELEPHONE # ( <u>919)840-0091</u>	E-MAIL
Electrical <u>Moseley Archi</u> <u>bwells@moseleyarchite</u>	tects Brian We	<u>lls</u> <u>040202</u>	(804)794-7555	
ire Alarm <u>Moseley Archi</u> <u>bwells@moseleyarchite</u>	tects Brian We	<u>lls</u> <u>040202</u>	(804)794-7555	
Plumbing <u>Moseley Archi</u> <u>twhately@moseleyarchi</u>	tects Tyler Wh itects.com	ately 043951	(919)840-0091	
Mechanical <u>Moseley Archi</u> <u>twhately@moseleyarchi</u>	tects Tyler Wh	ately 043951	(919)840-0091	
Structural <u>Moseley Arch</u> pgagnon@moseleyarchi	itects Paul Gag	non 45706	<u>(804)794-7555</u>	
RENOVATED: (date) 2 CISK CATEGORY (Table 1604 CASIC BUILDING DATA Construction Type: II-B prinklers: No N/A tandpipes: N/A rimary Fire District: Select or	2 <u>023</u> PR 4.5): Current: <u>II</u>	ROPOSED OCCUP4	ANCY(S) (Ch. 3): <u>B</u> Proposed: <u>II</u> <u>Yes</u>	<u>.</u>
Special Inspections Required:	Select one			
FLOOR WORK ARE/	Gross Buil	i <b>ding Area Table*</b> //AINING/REPAIR SF	Su	JB-TOTAL
1 <sup>st</sup> Floor 2,478	8 SF	10,308 SF	1	2,786 SF
imary Occupancy Classificat ccessory Occupancy Classific	ALLOV tion(s): <u>Business N</u> ation(s):	VABLE AREA o Change in Use		
ncidental Uses (Table 509): Special Uses (Chapter 4 – List 6 Special Provisions: (Chapter 5 Mixed Occupancy: <u>No</u> Separ	Code Sections): – List Code Sections ration: <u>Select one</u>	): Exception:		
<u>No</u> <u>Actual Area of Occup</u> Allowable Area of Occu	p <u>ancy A</u> + <u>Ac</u> ppancy A Allow	tual Area of Occupan vable Area of Occupa	$\frac{B}{B} \leq 1$	< 1.00
	+		+ = _	<u> </u>
STORY DESCRIPTION AND NO. USE	) (A) BLDG AREA PER STORY (ACTUAL)	(B) TABLE 506.2 <sup>4</sup> AREA AREA I	(C) FOR FRONTAGE ALL NCREASE <sup>1,5</sup> STO	(D) .OWABLE AREA PER RY OR UNLIMITED <sup>2,3</sup>
Frontage area increases from Se a. Perimeter which fronts a b. Total Building Perimete c. Ratio (F/P) = d. W = Minimum width of e. Percent of frontage incre Unlimited area applicable under Maximum Building Area = tota The maximum area of open par Frontage increase is based on th	ection 506.3 are comp a public way or open s er = (F/P) f public way = r conditions of Section al number of stories in king garages must come unsprinklered area	uted thus: space having 20 feet n (P) (W) 25] x $W/30 =$ n 507. the building x D (man mply with Table 406. value in Table 506.2.	minimum width = (%) uximum 3 stories) (50 5.4.	(F) 06.2).
	ALLOW	ABLE HEIGHT		
	ALI	LOWABLE S	HOWN ON PLANS	CODE REFERENCE <sup>1</sup>
Building Height in Feet (Table 50	04.3) <sup>2</sup>	55'	18	
Building Height in Feet (Table 50 Building Height in Stories (Table	04.3) <sup>2</sup> 2 504.4) <sup>3</sup>	<sup>55</sup> , 3	1	

2018 NC Administrative Code and Policies

2018 NC Administrative Code and Policies

#### PLUMBING FIXTURE REQUIREMENTS (TABLE 2902.1)

BUILDING ELEMENT	FIRE		RATING	DETAIL #	DESIGN #	SHEET # FOR	SHEET #
	SEPARATION DISTANCE (FEET)	REQ'D	PROVIDED (W/* REDUCTION)	AND SHEET #	FOR RATED ASSEMBLY	RATED PENETRATION	FOR RATED JOINTS
Structural Frame,							
including columns, girders, trusses							
Bearing Walls			0				
Exterior			0				
North			0				
East			0				
West			0				
South			0				
Interior			0				
Nonbearing Walls and Partitions							
Exterior walls							
North			0				
East			0				
West			0				
South			0				
Interior walls and partitions			0				
Floor Construction Including supporting beams and joists							
Floor Ceiling Assembly			0				
Columns Supporting Floors			0				
Roof Construction, including supporting beams and joists							
Roof Ceiling Assembly			0				
Columns Supporting Roof			0				
Shaft Enclosures - Exit			0				
Shaft Enclosures - Other			0				
Corridor Separation			0				
Occupancy/Fire Barrier Separat	ion		0				
Party/Fire Wall Separation			0				
Smoke Barrier Separation			0				
Smoke Partition			0				
Tenant/Dwelling Unit/ Sleeping Unit Separation			0				
Incidental Use Separation			0				

#### NOTE: EXISTING CONDITIONS MEET THE CODE UNDER WHICH THEY WERE DESIGNED RENOVATION IS NOT MAKING EXISTING CONDITIONS LESS SAFE.

	PERCENTAGE OF WA	LL OPENING CALCULA	ΓIONS
FIRE SEPARATION DISTANCE (FEET) FROM PROPERTY LINES	Degree of openings Protection (Table 705.8)	Allowable area (%)	ACTUAL SHOWN ON PLANS (%)

LIFE SAFETY	SYSTEM	REQUIREMENTS

Fire Alarm:YesSmoke Detection Systems:YesCarbon Monoxide Detection:No
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#### LIFE SAFETY PLAN REQUIREMENTS

Life Safety Plan Sheet #: LS1.1

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)
- X Occupancy Use for each area as it relates to occupant load calculation (Table 1004.1.2) X Occupant loads for each area
- X Exit access travel distances (1017)
- X Common path of travel distances (Tables 1006.2.1 & 1006.3.2(1)) X Dead end lengths (1020.4)

#### X Clear exit widths for each exit door

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

#### ACCESSIBLE DWELLING UNITS (SECTION 1107) NOT APPLICABLE

ACCESSIBLE PARKING (SECTION 1106)

ARE NOT BEING CHANGE

N/A ACCESBILE PARKING ALREADY EXISTS AND OCCUPANT TYPE AND LOAD OF BUILDING

Issue         Data         Find         Outes           a         Issue         0         1         2         2         0           assue         0         1         0         0         0         0         0           assue         0         1         1         2         2         0         0           assue         0         1         2         2         0 <t< th=""><th>USE</th><th>WALE</th><th>ATERCLOSE</th><th>TS</th><th>URINALS</th><th>MALE</th><th>LAVATORI</th><th>ES</th><th></th></t<>	USE	WALE	ATERCLOSE	TS	URINALS	MALE	LAVATORI	ES	
Image: Section 1         2         2         0           Image: Section 2         3         0         1         2         2         0           Image: Section 2         1         1         1         2         2         0           Image: Section 2         1	_	MALE	FEMALE	UNISEA		MALE	E	UNISEA	
NAW         0	CE EXIST'G	2	3	0	1	2	2	0	0
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Climate Zone: Select one (If "Other" specify source here)	ot Building	: <u>Select c</u>	one Provi	ide code o	or statutory	referen	ce:		
Method of Compliance:       Select one (If "Other" specify source here)         RMAL ENVELOPE (Prescriptive method only)         Roof/ceiling Assembly (each assembly)         Description of assembly:         U-Value of total assembly:         W-Value of insulation:         Skylights in each assembly:         U-Value of skylight:         U-Value of skylights in each assembly:         U-Value of skylights in each assembly:         U-Value of skylights in each assembly:         U-Value of total assembly:         U-Value of total assembly:         U-Value of total assembly:         U-Value of total assembly:         U-Value of assembly:         U-Value of total assembly:         Solar heat gain coefficient:         projection factor:         Door R-Values:         U-Value of total assembly:         Nue of total assembly:         U-Value of total assembly:         R-Value of insulation:         Horizontal vertical requirement:         R-Value of insulation:         Horizontal vertical requirement:	Climate	Zone: <u>Se</u>	elect one						
Matheway (If "Other" specify source here)         (If "Other" specify source here)         RMAL ENVELOPE (Prescriptive method only)         Roof/ceiling Assembly (each assembly)         Description of assembly:         U-Value of total assembly:         W-Value of insulation:         Skylights in each assembly:         U-Value of skylight:         U-Value of skylights in each assembly:         U-Value of skylights in each assembly:         U-Value of otal assembly:         U-Value of total assembly:         U-Value of total assembly:         U-Value of total assembly:         U-Value of total assembly:         U-Value of total assembly:         Door R-Values:         Walls below grade (each assembly)         Description of assembly:         U-Value of total assembly:         U-Value of total assembly:         W-Value of total assembly:         U-Value of total assembly:         U-Value of total assembly:         R-Value of insulation:         Floors over unconditioned space (each assembly:         W-Value of insulation: <td>Method</td> <td>of Comn</td> <td>liance: S</td> <td>elect one</td> <td></td> <td></td> <td></td> <td></td> <td></td>	Method	of Comn	liance: S	elect one					
MAL ENVELOPE (Prescriptive method only)  Roof/ceiling Assembly (each assembly)  Description of assembly: U-Value of total assembly: U-Value of insulation: Skylights in each assembly: U-Value of skylights in each assembly: U-Value of skylights in each assembly: U-Value of total assembly: U-Value of total assembly: N-Value of insulation: Openings (windows or doors with glazing) U-Value of assembly: Solar heat gain coefficient: projection factor: Door R-Values: Walls below grade (each assembly) Description of assembly: U-Value of total assembly: R-Value of insulation: Door R-Values: Walls below grade (each assembly) Description of assembly: R-Value of insulation: Floors over unconditioned space (each assembly) Description of assembly: U-Value of total assembly: R-Value of insulation: Horizontal/vertical requirement: slab heated:	Method	or Comp	(I	f "Other"	specify so	ource her	:e)		
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UILDING CODE SUMMARY FOR ALL COMMER			DE CU	Z INANA A	UIð Aľ DV E4	TENI ND 44	I CO	MAN	ЪС
STDICTIDAL DESICN	ILDIN	GCU	DE SU		KY FC	JK AI IRAL D	LL CU	WINE	кC
(PROVIDE ON THE STRUCTURAL SHEETS IF APPLI		(PR	OVIDE (	ON THE	STRUCT	URAL S	SHEETS	IF APPI	LICA

Importance Factors:	Snow $(I_S)$ Seismic $(I_E)$	$\frac{1.1}{1.25}$	
Live Loads:	Roof Mezzanine Floor	0p NA	osf psf psf
Ground Snow Load:	10	psf	
Wind Load:	Ultimate Wind Spe Exposure Category	eedN y <u>Select one</u>	A n
SEISMIC DESIGN CATEG	<b>ORY:</b> <u>N/A</u>		
Provide the following Seismic <b>Risk Category</b> (Table <b>Spectral Response A</b>	Design Parameters e 1604.5) <u>S</u> cceleration S <sub>S</sub>	: <u>Select one</u> %g	S1
Site Classification (A D Basic structural syst Analysis Procedure:	ASCE 7) Select one Select one	Select one Select one	
Architectural, Mech	anical, Componen	ts anchored? <u>Sel</u>	ect one
LATERAL DESIGN CONTI	ROL: <u>N/A</u>		

SOIL BEARING CAPACITIES: Presumptive Bearing Capacity \_\_\_\_\_1500\_\_\_\_\_

Pile size, type, and capacity \_\_\_\_\_

2018 NC Administrative Code and Policies

x	SHOWER S/TUBS	DRINKIN	IG FOUNTAINS	2018 APPENDIX B
	0	1	1	BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS MECHANICAL DESIGN (PROVIDE ON THE MECHANICAL SHEETS IE ADDI ICADI E)
	0 N/A*	0 N/A*	0 N/A*	(PROVIDE ON THE MECHANICAL SHEETS IF APPLICABLE)
D F	BY MOR	RE THAN	20%	MECHANICAL SUMMARY
PAC	ES INV	OLVED I	N RENO	MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT
				Thermal Zone
10			<u>`</u>	winter dry bulb: $21.2^{\circ}F$ summer dry bulb: $96.4^{\circ}F$
IS,	etc., des	cribe below	w)	Interior design conditions
				winter dry bulb: <u>70°F</u>
				summer dry bulb: <u>75°F</u> relative humidity: 50%
				Building heating load: Existing to Remain
				Building cooling load: Existing to Remain
				Mechanical Spacing Conditioning System
				Unitary
				description of unit: <u>Air conditioners, air-cooled</u>
1.	1			cooling efficiency: <u>11.4 EER</u>
ed to info	o meet the	ne energy c	code shall an data sheet.	size category of unit: $\geq = 65,000 \text{ Btu/h and } < 135,000 \text{ Btu/h}$
sign	vs annu	ual energy	cost for the	Size category. If oversized, state reason.: $N/A$
				Chiller
				Size category. If oversized, state reason.: $\underline{N/A}$
				List equipment efficiencies: See equipment schedules.
				2018 APPENDIX B
				BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS FLECTRICAL DESIGN
				(PROVIDE ON THE ELECTRICAL SHEETS IF APPLICABLE)
				ELECTRICAL SUMMARY
	_			ELECTRICAL SYSTEM AND EQUIPMENT
				Method of Compliance: Select one
				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 A SHRAE 90.1)

(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

ERCIAL PROJECTS

PLICABLE)

mph (ASCE-7)

\_\_\_\_\_%g

2018 NC Administrative Code and Policies









PARKING

N LIFE SAFETY PLAN 1/8" = 1'-0"

![](_page_2_Picture_5.jpeg)

			OCCUPANCY SC	HEDULE						
SPACE		USE	USED TO DETERMINE OCCUPANCY FACTOR	FLOOR AREA		AREA			OCCUPANCY LOA	ND
IUMBER	SPACE NAME	CLASSIFICATION	ONLY	PER OCCUPANT	SF	GROSS	NET	TABULAR	ACTUAL	DESIGN
	CLASSROOM	В	EDUCATIONAL, SHOP & VOCATIONAL	50 SF	2064		•	42	60	60
4	OFFICE	В	BUSINESS AREA	100 SF	84	•		1		1
3	FACIAL	В	EDUCATIONAL, SHOP & VOCATIONAL	50 SF	112		•	3		3
C	ELEC.	В	ACCESSORY STORAGE & MECHANICAL EQUIPMENT ROOM	300 SF	85	•		1		1
	DISPENSARY	В	ACCESSORY STORAGE & MECHANICAL EQUIPMENT ROOM	300 SF	140	•		1		1
										66

![](_page_2_Figure_7.jpeg)

![](_page_2_Picture_9.jpeg)

LIFE SAFETY PLAN AND WORK AREA DIAGRAM

LS1.1

![](_page_3_Figure_0.jpeg)

## ARCHITECTURAL ABBREVIATIONS

GLASS TILE

GT

Υ S	ACCENT PAINT
V	ABOVE
P T	ACOUSTICAL CEILING PANEL ACOUSTICAL CEILING TILE
W	ALUMINUM CLAD WINDOW ADJUSTABLE
-	ABOVE FINISHED FLOOR
U	AIR HANDLING UNIT
JM	ALUMINUM
С	ACCESS PANEL ARCHITECTURAL PRECAST CONCRETE
С	ABUSE RESISTANT COATING
ТО	AUTOMATIC
G I	AVERAGE ALUMINUM WINDOW
IC IP	ACOUSTICAL WALL COVERING ACOUSTICAL WALL PANEL
	BOARD
DG	BARRIER FREE (ADA or A117.1) BUILDING
KG T	BLOCKING BOTTOM
G	BEARING
R	BUILT-UP ROOF
ILE	CARPET CARPET TILE
В	CABINET CHAI KBOARD
TV	CLOSED CIRCUIT TELEVISION
SF-NS	COLD FORMED STEEL FRAMING, NON-STRUCTURAL
SF-S	COLD FORMED STEEL FRAMING, STRUCTURAL CORNER GUARD
)C	CONTINUOUS INSULATION
0	CONTROL JOINT
G	CLOSET CEILING
R	CLEAR CENTIMETER
BD	CEMENT BOARD
IU-A	CONCRETE MASONRY UNIT - ACOUSTICAL
IU-GF IU-GLZ	CONCRETE MASONRY UNIT - GROUND FACE CONCRETE MASONRY UNIT - GLAZED
U-SPLF	CONCRETE MASONRY UNIT - SPLIT FACE
L	COLUMN
NC NC-LH	CONCRETE CONCRETE WITH LIQUID HARDENER/SEALFR
NC-PMT	
NC-POL NC-SLR	CONCRETE WITH CURE & SEAL
NC-ST NST	CONCRETE WITH STAIN CONSTRUCTION
	CONTINUOUS
RR	CORRIDOR
MU	CAST STONE MASONRY UNIT CERAMIC TILE
SK FT	COUNTERSINK, COUNTERSUNK CUBIC FEET / FOOT
ST /	CUSTODIAN / CUSTODIAL
/FD	CEMENTITIOUS WOOD FIBER DECK
L	DOUBLE
MO TE	DEMOLITION DETENTION
	DRINKING FOUNTAIN DOOR GRILLE
М	DETENTION HOLLOW METAL
N NG	DIAGONAL
Л /	DIMENSION DIVISION
	DOOR LOUVER
	DOWN DAMPPROOFING
	DISPLAY RAIL DOWNSPOUT
L	DETAIL
/R	DRAWER
	EXHAUST FAN
S S	EXTERIOR FINISH SYSTEM EXTERIOR INSULATION & FINISH SYSTEM
	EXPANSION JOINT
AS	ELASTOMERIC
EC EV	ELEVATOR
ER S	EMERGENCY EXPANDED POLYSTYRENE
Х	EPOXY
UIP	EQUIPMENT
CT	ENHANCED VINYL COMPOSITION TILE
C	ELECTRIC WATER COOLER EXISTING
H P	EXHAUST
PC	EXPOSED CONSTRUCTION
۱ ۹F	EXTERIOR FLUID APPLIED ATHLETIC FLOORING
N	FLOOR DRAIN FOUNDATION
3	FIRE EXTINGUISHER FIRE EXTINGUISHER BRACKET
C	FIRE EXTINGUISHER CABINET
L	FINISHED FLOOR FIBERGLASS
С	FIRE HYDRANT FIRE HOSE CABINET
VC	FIRE HOSE VALVE CABINET
, २	FLOOR
RG	FLOORING FACE OF
M P	FRAME FIBERGLASS REINFORCED PLASTIC
Т	FIRE RETARDANT TREATED
3	FOOTING
RN C	FURNITURE FIRE VALVE CABINET
Ċ	FABRIC WALL COVERING GAUGE
L	GALLON
LV	GALVANIZED GYPSUM BOARD
-AR -IR	GYPSUM BOARD - ABUSE RESISTANT GYPSUM BOARD - IMPACT RESISTANT
-S RC	GYPSUM BOARD - SECURITY GLASS FIBER REINFORCED CONCRETE
RG	GLASS FIBER REINFORCED GYPSUM
-BLK	GLASS, GLAZING GLASS BLOCK
-BLK M T	GLASS, GLAZING GLASS BLOCK GALLONS PER MINUTE GROUT

GWT	GLAZED WALL TILE
GYP	GYPSUM
H	HIGH
HB	HOSE BIBB
HBD	HARDBOARD
HDC	HOLD DOWN CLIPS
HDNR	HARDENER
HDWD	HARDWOOD
HDWR	HARDWARE
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HPC	HIGH PERFORMANCE COATINGS
HPFP	HIGH PERFORMANCE FLOOR PAINT
HT	HEIGHT
HVAC	HEATING, VENTILATING, AIR CONDITIONING
ID	INSIDE DIAMETER
IN	INCH, INCHES
INCL	INCLUDE, INCLUDING
INFO INST	INFORMATION
INSUL	INSULATION
INT	INTERIOR
IRWC	IMPACT RESISTANT WALL COVERING
IWB	INTERACTIVE WHITE BOARD
JAN	JANITOR
JCT	JUNCTION
JT	JOINT
L	LENGTH/LONG
LAB	LABORATORY
LAHJ	LOCAL AUTHORITY HAVING JURISDICTION
LAM	LAMINATE
LAV	LAVATORY
LH	LEFT HAND
LIN	LINOLEUM
LKR	LOCKER
LMC	LINEAR METAL CEILING
LPS	LAMINATE PANEL SYSTEM
LT	LIGHT
LVR	LOUVER
M	METER
MACH	MACHINE
MAS	MASONRY
MATL	MATERIAL
MAX	MAXIMUM
MB	MARKERBOARD
MCM	METAL COMPOSITE MATERIAL
MCP	METAL CEILING PANEL
MDO	MEDIUM DENSITY OVERLAY
MECH	MECHANICAL
MED	MEDIUM
MEMB	MEMBRANE
MFR	MANUFACTURER
MIF	MULTICOLOR INTERIOR FINISHING
MIN	MINIMUM
MIR	MIRROR
MISC	MISCELLANEOUS
MLDG	MOLDING
MO	MASONRY OPENING
MPS	MANUAL PROJECTION SCREEN
MR	MAP RAIL
MT	MOUNT
MTD	MOUNTED
MTL	METAL
NA	NOT APPLICABLE
NIC	NOT IN CONTRACT
NO.	NUMBER
NOM	NOMINAL
NRC	NOISE REDUCTION COEFFICIENT
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OFCI	OWNER FURNISHED CONTRACTOR INSTALLE
opng	OPENING
opp hd	OPPOSITE HAND
OVHD	OVERHEAD
P-TILE	PORCELAIN TILE
PC	PRECAST
PERF	PERFORATED, PERFORATION(S)
PERIM	PERIMETER
PIP	POURED IN PLACE
PLAM	PLASTIC LAMINATE
PLAS	PLASTER
PLWD	PLASTIC LAMINATE WOOD
PLYWD	PLYWOOD
PNL	PANEL, PANELING
POLY	POLYETHYLENE
PPS	POWER PROJECTION SCREEN
PPT	PRESSURE- OR PRESERVATIVE-TREATED
PR	PAIR
PREFAB	PREFABRICATED
PREFIN	PREFINISHED
PREP	PREPARE / PREPARATION
PS	PROJECTION SCREEN
PSB	PENCIL SHARPENER BLOCK
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PTN PTN	
PTS	PNEUMATIC TUBE SYSTEM
PVC	POLYVINYL CHLORIDE
PVM1	PAVEMENT
PVWC	PERFORATED VINYL WALL COVERING
QSM	QUARTZ SURFACING MATERIAL
QT	QUARRY TILE
R R	RISER, RADIUS
RAD	
RB	RESILIENT BASE REFLECTED CEILING PLAN
RD	ROOF DRAIN
REFG	REFRIGERATOR
REINF	REINFORCING, REINFORCE(D) RECESSED ENTRY MAT
REQ'D	REQUIRED
RES	RESINCUS ELOORING
RFT	RUBBER FLOOR TILE RIGHT HAND
RL	RAIN LEADER ROOM
RO	ROUGH OPENING
RSF	RUBBER SHEET FLOORING
RSR	RESILIENT STAIR RISER
RST	RESILIENT STAIR TREAD
rt	RIGHT
Rtu	ROOFTOP UNIT
SAB	SOUND ATTENUATION BLANKET
SC-PLK	SECURITY CEILING PLANK
SC-PNL	SECURITY CEILING PANEL
SCH	SCHEDULE
SF	SQUARE FEET / FOOT
SFRM	SPRAYED FIRE RESISTANT MATERIAL
SHM	SECURITY HOLLOW METAL
SHTG	SHEATHING
SIM	SIMILAR
SPEC	SPECIFICATION
SPF	SPRAYED POLYURETHANE FOAM
SPR	SPRINKLER
SQ	SQUARE
SQ FT	SQUARE FEET / FOOT
SRD	SECONDARY ROOF DRAIN
SS	STAINLESS STEEL
SSM	SOLID SURFACE MATERIAL
ST	STREET
STC	SOUND TRANSMISSION COEFFICIENT
STD	STANDARD
STRUCT	STEEL STRUCTURAL
000r	

	SHEET VINYL SECURITY WOVEN MESH / WOVEN ROD SYMMETRICAL
	TREAD
	TONGUE & GROOVE
	TOP OF
	TELEPHONE
-C	TERRAZZO CEMENTITIOUS
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	TELEVISION
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,	
	WIDE WIDTH
	WITH
	WITHOUT
	WATER CLOSET
	WOOD
	WINDOW
	WATERPROOFING
	WORKING POINT
г	WAINSCOT
	WOOD SPORTS FLOORING
	WEIGHT
	WELDED WIRE FABRIC
	EXTRUDED POLYSTYRENE

SV

SWM

SYN

WWF XPS

		KEYNUIES
		<ol> <li>KEYNOTES ARE GENERALLY ASSOCIATED WITH A SERIES OF DRAWINGS (e.g., A3.2.n, A5.1.n); THEREFORE KEYNOTE NUMBERS FROM SERIES TO SERIES WIL VARY (i.e., KEYNOTE NO. 1 IN THE A3.2.n SERIES WILL BE DIFFEDENT FROM</li> </ol>
		KEYNOTE NO. 1 IN THE A5.1.n SERIES).
	ESCRIPTIVE INFORMATION	
	ARCHITECTUR	AL GRAPHIC SYMBOL LEGEND
SUPERVIS OFFICI REFER TO	OR'S <u>SPACE</u> E SPACE NAME	■
3.0 FOR NISH	SPACE NAME SPACE NUMBER SQUARE FOOTAGE, IF INDICATED	A2.1 WALL SECTION NUMBER
	LDING "PART" NUMBER /IULTI-PART BUILDING	WALL SECTION IS INDICATED
	60 DOOR	DETAIL OR ENLARGED PLAN WHERE CUT
2.1 FOR SCHEDULE	FIRE RATING IN MINUTES (IF INDICAT	ED) CALL CALL ON EACH AND
	SPACE NUMBER	
REFER TO A0.2	JOINT	1     1     BUILDING SECTION WHERE CUT       A2.1     SECTION NUMBER
	WALL PARTITION TYPE	DRAWING NUMBER WHERE SECTION IS INDICATED
	FIRE RESISTANCE RATING	1 INTERIOR OR EXTERIOR ELEVATION WHERE (
A0.2 FOR LEGEND		
— Xn-	SP=SMOKE PARTITION IU=INCIDENTAL USE	DRAWING NUMBER WHERE ELEVATION IS IND
	5 INTERIOR ARCHITECTURAL	3
3.0 FOR 9 A3.0 LEVATIONS	3.0 WOODWORK (CASEWORK) ELEVATION	
	FIRE-RATED ASSEMBLY	PLAN TITLE
EFER TO A0.1		
N N		DRAWING NUMBER WHERE ELEVATION OR BUILDING SECTION IS CU ADDITIONAL DRAWING NUMBERS WHERE ELEVATION OR BUILDING SECTION
	PLAN NORTH (MAY DIFFER FROM POLAR NORTH)	ENLARGED PLAN OR WALL SECTIO
	MATCH LINE	A2.3 A2.6 A2.6
<b>●</b> <sup>w</sup>	PT WORKING POINT	DRAWING NUMBER WHERE ENLARGED PLAN OR WALL SECTION IS I
<b>•</b>	DATUM POINT	DRAWING NUMBER WHERE ENLARGED PLAN OR WALL SECTION IS C
ଜ	CENTERLINE	SECTION IS CUT
Þ	PLATE	3 DETAIL TITLE
	SURFACE MOUNT FEC: TOP	A5.1 A5.2 1/2"=1'-0"
		DETAIL NUMBER OR LETTER
	FULLY-RECESSED FEC: T.O.	DRAWING NUMBER WHERE DETAIL IS CUT
FEC	BRACKET: MOUNT BRACKET AT	— ADDITIONAL DRAWING NUMBERS WHERE DETAIL IS CUT
FEB	4'-0" AFF	
	WITH DESIGNATIONS	

#### ARCHITECTURAL MATERIALS LEGEND ARCHITECTURAL GENERAL NOTES EARTH 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 POROUS FILL WORK. B. ELEMENTS THAT ARE IDENTIFIED BY OTHER DISCIPLINES (e.g., CIVIL, STRUCTURAL, PLUMBING, FIRE PROTECTION, MECHANICAL, ELECTRICAL) ELSEWHERE WITHIN THE ARCHITECTURAL SERIES OF DRAWINGS AND/OR SPECIFICATIONS, OR IDENTIFIED OR COVERED BY DEFAULTS (e.g., SIZES, THICKNESS, SPACING, MATERIALS) IN THE SPECIFICATIONS MAY NOT BE ANNOTATED (NOTE OR KEYNOTED) ON THESE FACE BRICK DRAWINGS. C. ELEMENTS IDENTIFIED IN "LEGENDS" AND/OR "GENERAL NOTES" MAY NOT BE NOTED SPLIT-FACE BLOCK IN DETAILS, OR SECTIONS, AS THESE ELEMENTS ARE IDENTIFIED IN THE LEGENDS (e.g. FACE BRICK, CMU, WINDOWS) D. REFER TO "ASSEMBLIES" FOR MATERIALS AND COMPONENTS THAT MAKE UP THAT CONCRETE MASONRY UNIT PARTICULAR ASSEMBLY (e.g., EXTERIOR WALL ASSEMBLIES, ROOF ASSEMBLIES, AND FIRE-RATED ASSEMBLIES). ONCE A PARTICULAR ASSEMBLY HAS BEEN IDENTIFIED ON ONE DRAWING, THAT SAME ASSEMBLY GRAPHIC SHALL APPLY TO ALL OTHER GROUTED SOLID CONCRETE MASONRY UNIT SIMILAR LOCATIONS UNLESS SPECIFICALLY INDICATED OTHERWISE. PROVIDE THAT SAME ASSEMBLY AT THE SIMILAR LOCATION WHETHER THE ASSEMBLY GRAPHIC SYMBOL IS SHOWN OR NOT. NOTE: PROVIDE 100% SOLID, PLANT-CAST UNITS WHERE CORE HOLES E. VERIFY ALL DIMENSIONS, INCLUDING DIMENSIONS ON STRUCTURAL DRAWINGS AND WOULD BE VISIBLE WITHIN FINISH OTHER ARCHITECTURAL DRAWINGS. IMMEDIATELY NOTIFY ARCHITECT OF ANY SPACE (E.G., WINDOW SILLS) DISCREPANCIES. ARCHITECTURAL PRECAST CONCRETE F. PROVIDE CONCRETE HOUSEKEEPING PADS FOR ALL EQUIPMENT INDICATED TO BE MOUNTED OR OTHERWISE REQUIRED TO BE MOUNTED TO THE FLOOR. WHERE PADS ARE NOT SHOWN, PROVIDE 6" THICK CONCRETE PADS W/ 3/4" CHAMFERED CAST STONE EDGES (ALL SIDES). REINFORCE WITH MESH EQUIVALENT TO FLOOR SLAB REINFORCING REQUIREMENTS.

![](_page_3_Picture_11.jpeg)

DATE

PROJECT NO: 630401 October 24, 2023 REVISIONS DATE DESCRIPTION

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WOOD BLOCKING -

FINISHED WOOD

PLYWOOD

GYPSUM BOARD / SHEATHING

-\_\_\_\_ STONE

![](_page_4_Figure_0.jpeg)

![](_page_4_Figure_1.jpeg)

![](_page_4_Figure_2.jpeg)

![](_page_4_Figure_3.jpeg)

## **DEMOLITION PLAN GENERAL NOTES**

A. DEMO EXISTING GRID, LIGHTS AND GRILLES THROUGHOUT AREA OF WORK
B. DEMO EXISTING FLOORING AND CLEAN AND PREP THE CONCRETE TO RECEIVE NEW FLOORING PER MANUFACTURER'S SPECIFICATIONS THROUGHOUT AREA OF WORK

	DEMOLITION PLAN KEYNOTES REPRESENTED BY n APPLIES TO DRAWINGS A1.2
1	REMOVE/SAVE ALL EXISTING, FRAME, DOOR AND HARDWARE FOR REUSE AT EL 144C
2	CAP PLUMBING LINES AT WALL; REFER TO P1.1
3	REMOVE EXISTING VERTICAL AND HORIZONTAL PIPES ABOVE CEILING GRID, RE TO M1.1
4	SAWCUT CONCRETE FLOOR TO ACCOMODATE THE RELOCATED PIPING FROM OVERHEAD, REFER TO M2.1; COORDINATE WITH STRUCTURAL TO ENSURE THER ARE NO CONFLICTS.
5	EXISTING DOOR TO REMAIN CLOSE AND LOCKED - DOOR WILL NOT BE USED.
6	DEMO EXISTING MILLWORK
7	SAWCUT CONCRETE FLOOR TO RUN ELECTRCAL TO SALON STATIONS AS INDICA ON A2.1, AND NOTED ON E2.2; COORDINATE WITH STRUCTURAL TO ENSURE THE ARE NO CONFLICTS.
8	SAWCUT CONCRETE TO ACCOMDATE DRAIN FOR HAIR WASH STATIONS, REFER P1.1; COORDINATE WITH STURCTURAL TO ENSURE THERE ARE NO CONFLICTS.

![](_page_4_Picture_7.jpeg)

![](_page_4_Picture_9.jpeg)

![](_page_4_Picture_10.jpeg)

![](_page_5_Figure_0.jpeg)

![](_page_5_Figure_1.jpeg)

![](_page_5_Figure_2.jpeg)

# SLIDING BARN DOOR: DOOR PULL - HAFELE #901.00.573, TRACK - HAFELE FLAT TRACK SLIDING SYSTEM, SLIDO D-LINE42 100S SET; INSTALL PER MANUFACTURER'S GUIDELINES CUT OPENING IN EXISTING CMU WALL, REFER TO STRUCTUAL DWG; REPAIR MASONARY, SKIM TO MATCH ADJACENT WALL AND PAINT **GENERAL NOTES** A. SAND, PRIME & REPAINT ALL EXISTING DOORS AND FRAMES WITHIN AREA OF WORK; PAINT PT-1 SEMI-GLOSS FINISH. B. INSTALL LEVER DOOR HARDWARE ON ALL NEW AND EXISTING DOORS WITHIN AREA OF WORK. C. DOOR SWINGS ON FLOOR PLANS TAKE PRECEDENCE OVER SWINGS INDICATED ELSEWHERE (E.G., ELEVATIONS).

SIZE (NOMINAL)

3' - 6" x 7' - 0" x 1 3/4"

3' - 0" x 7' - 0" x 1 3/4"

1. REUSE EXISTING DOOR & FRAME

DOOR

TYPE

NOTE:

45 N-A 3' - 0" x 7' - 0" x 0"

NUMBER

44B

![](_page_5_Figure_4.jpeg)

# 6 MANEUVERING CLEARANCE AT DOORS 6" = 1'-0"

	FLOOR PLAN KEY REPRESENTED BY
1	TOOTH IN CMU AT NEW M1 WALL LOCATION
2	SKIM CMU WALL TO PROVIDE A SMOOTH SU
3	FURR-OUT EXISTING WALL AROUND WINDOW REFER TO M2.1
5	REMOVE DOOR AND FRAME AND INFILL WITH PARTITION TO THE GRID.
6	FURR-OUT WALL TO RUN ELECTRICAL
7	PROVIDE SEMI-RECESSED FIRE EXTINGUISH
8	MANICURE AND PEDICURE TO BE DUCTED T
9	HAIR WASH STATIONS, REFER TO P1.1; 0FCI
10	WRAP GYPBD AROUND ALL OUTSIDE CORNE
11	PROVIDE BLOCKING IN WALL FOR MONITOR, REQUIREMENTS; OFCI
12	EXPOSED STEEL TUBE COLUN, REFER TO S PRIOR TO THE CONSTRUCTION OF P-2 PART
13	INSTALL LINTEL FOR NEW OPENING IN CMU;

DOOR SCHEDULE									
	FRAME								
TYPE	HEAD DETAIL	JAMB DETAIL	HDWR	FIRE RATING		NOTES			
-			PULL		2, 3, 4				
STL			LS		1				
-					4				

#### 2. MAINTAIN 3'-0" OPENING WHEN BARN DOOR IS IN OPEN POSITION

![](_page_5_Figure_11.jpeg)

# YNOTES

A2.1

SURFACE

OW FOR MECHANICAL EXHAUST RUNS;

ITH P1; CONTINUE EX. PARTIAL HEIGHT GY

SHER CABINET AND EXTINGUISHER TO ROOF FAN. REFER TO M2.1, OFCI

NERS OF P2 R, REFER TO E2.2 FOR ELECTRICAL

STRUCTAL DWGS; PAINT PT-1 ALL SIDES RTITION; HOLD P-2 TIGHT TO THE COLUMN

J; REFER TO STRUCTURAL DWG

![](_page_5_Figure_25.jpeg)

#### HEAD DETAIL 3" = 1'-0" ( 4

0' 2' 4' 8' 1/8" = 1'-0"

![](_page_5_Picture_31.jpeg)

![](_page_5_Picture_32.jpeg)

![](_page_6_Figure_0.jpeg)

8' - 0"

![](_page_6_Figure_4.jpeg)

8' - 0"

5

6

4

![](_page_6_Picture_13.jpeg)

![](_page_6_Picture_15.jpeg)

A2.3

![](_page_7_Figure_0.jpeg)

![](_page_7_Figure_1.jpeg)

![](_page_7_Figure_3.jpeg)

![](_page_7_Figure_4.jpeg)

1/4" = 1'-0"

![](_page_7_Figure_5.jpeg)

![](_page_7_Figure_6.jpeg)

1/4" = 1'-0"

![](_page_7_Figure_7.jpeg)

### CASEWORK GENERAL NOTES

- A. UNLESS INDICATED OTHERWISE, ALL COUNTERTOP(S): • 2'-10" AFF MAX OR 2'-10" MAX TO TOP OF RIM AT DROP-IN SINKS AND LAVATORIES WHERE OCCURS 2'-1" DEEP
- QUARTZ SURFACING MATERIAL • BACKSPLASHES: 4" HIGH AT ALL SIDES AND BACK
- 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 ACCESSIBILITY DIMENSIONS; MAX DIMENSIONS SHALL BE MAINTAINED.
- B. UNLESS INDICATED OTHERWISE, ALL BASE CABINET(S): 2'-0" DEEP NOMINAL • TOE KICKS: 4" NOMINAL HIGH (REDUCE AS NEEDED FOR TOLERANCES) AND 3" DEEP SINK LOCATIONS: 3'-0" WIDE CLEAR KNEE SPACE (NO BASE CABINET) FOR BARRIER FREE ACCESS
- 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
- D. BUILT-IN EQUIPMENT: SIZE OPENING (HEIGHT, WIDTH, AND DEPTH) AND ROUGH-IN REQUIREMENTS AS REQUIRED BASED ON APPROVED MANUFACTURER SUBMITTED.
- E. ALL SHELVES: ADJUSTABLE UNLESS INDICATED OTHERWISE. F. PROVIDE FINISH END PANELS AT ALL EXPOSED CASEWORK ENDS.
- G. HARDWARE: AMEROCK, PATTERN AUGMENT #BP3715326, FINISH TBD

### CASEWORK KEYNOTES

REPRESENTED BY n APPLIES TO DRAWINGS A3.0

- HAIR WASH STATION; OFCI 1
- PROVIDE BLOCKING IN WALL FOR PAPER TOWEL DISPENSER; OFCI 2
- PROVIDE BLOCKING IN WALL FOR SOAP DISPENSER; OFCI
- INSTALL LIGHTED MIRROR AT STATIONS WITH Z-CLIPS; REFER TO ELEC. 4 SPECIFICATIONS
- ANGLED STORAGE SHELF FOR STYLING TOOLS WITH METAL RING AT OPENING TO PROTECT PLAM AND SUBSTRATE; INSTALL MTL BRACKETS AT INTERSECTIONS FOR
- SHELF SUPPORT REFER TO ELEC. SPECIFICATIONS FOR OUTLETS; ELECTRICAL SUB-CONTRACTOR TO
- MAKE CONNECTION TO STATIONS
- PROVIDE 4" GROMMET W/ METAL RING IN WORKSURFACE
- ADA SINK CABINET WITH INTEGRAL TOE KICK
- INSTALL 12"D PLAM SHELVES; WITH BRACKETS SPACED EVERY 5' HAFELE FOWARD L BRACKET, CENTERLINE SUPPORT #287.75 COLOR TBD
- INTEGRAL TOE KICK FOR ROLL-IN OF STUDENT STORAGE CASE 10
- QUARTZ COUNTERTOP WITH 3" OVERHANG FOR MANNEQUIN HEAD CLAMP 11
- FINISH ALL SIDES OF STYLIST STATIONS WITH PLAM; NO EXPOSED EDGES 12
- 13 PLAM RECESSED BASE
- 15 2 1/2" 16 GAUGE MTL STUD, MDF SUBSTRATE AND PLAM FINISH
- 16 ADJ PLAM SHELF
- 17 INSTALL COMMERCIAL SLIDING GLASS WINDOW UNIT WITH 2" PAINTED METAL FRAME

![](_page_7_Figure_38.jpeg)

![](_page_7_Figure_40.jpeg)

![](_page_7_Figure_41.jpeg)

![](_page_7_Figure_42.jpeg)

![](_page_7_Figure_43.jpeg)

	FINISH SCHEDULE									
	WALLS									
NUMBER	NAME	FLOOR	Base Finish	NORTH	EAST	SOUTH	WEST	CEILING	NOTES	
144	CLASSROOM	VT	RB	PT-1	PT-1	PT-A1	PT-2	ACP		
144A	OFFICE	VT	RB	PT-1	PT-1	PT-1	PT-1	ACP		
144B	FACIAL	VT	RB	PT-1	PT-2	PT-1	PT-1	ACP		
144C	ELEC.	EX	EX	EX	EX	EX	EX	EX		
145	DISPENSARY	VT	RB	PT-1	PT-1	PT-1	PT-1	ACP		

INTERIOR FINISH LEGEND								
SPECIFICATION DESCRIP	TION MATERIAL	MANUFACTURER	PRODUCT - COLOR					
064100 ARCHITECTURAL WOODWO	RK AND CASEWORK	·						
PLAM	PLASTIC LAMINATE	WILSONART	TBD					
QSM	QUARTZ SURFACING MATERIAL	WILSONART	COUNTERTOPS: NORTH CASCADES Q4035					
096513 RESILIENT BASE & ACCESS	ORIES	·						
RB	RUBBER BASE	TARKET	4"H COVE BASE; COLOR 48 GREY WG					
096519 RESILIENT TILE FLOORING								
VT	LUXURY VINYL TILE	SHAW	STYLE: BASIS 4339V, COLOR ELABORATE 39504; SIZE: 12X24; CONSTRUCTION: 6MM RIGID CORE					
099100 PAINTING								
PT-1	PAINT - FIELD	SHERWIN-WILLIAMS	SW7551 GREEK VILLA					
PT-2	PAINT - ACCENT	SHERWIN-WILLIAMS	CUSTOM MATCH TO PANTONE LANCER BLUE 287C					
PT-A1	PAINT - FIELD EPOXY	SHERWIN-WILLIAMS	SW7551 GREEK VILLA					

![](_page_7_Figure_46.jpeg)

- A. REFER TO A0.1 FOR ABBREVIATION LEGEND.
- B. WHERE ONE FINISH IS LISTED ON ALL WALLS OF THE ROOM, THE FINISH PLANS DO NOT SHOW EXTENT OF FINISH. FINISH PLANS AND ELEVATIONS SHOW EXTENT OF MATERIALS WHERE FINISH SCHEDULE LISTS MULTIPLE FINISHES IN ONE ROOM
- C. DIRECTIONAL WALL FINISH INDICATORS (NORTH, SOUTH, EAST, WEST) REFER TO THE 'PLAN' NORTH ORIENTATION.

	FINISH PLAN KEYNOTES
	APPLIES TO FINISH PLAN
1	PAINT AND INSTALL RUBBER BASE TO MATCH EXISTING ALONG THE ENTIRE LE OF WALL
2	VT: ASHLAR INSTALLATION METHOD, LONG SIDE RUNNING PLAN EAST/WEST

![](_page_7_Figure_51.jpeg)

![](_page_7_Picture_53.jpeg)

ELEVATIONS

![](_page_7_Picture_55.jpeg)

![](_page_7_Picture_56.jpeg)

#### GENERAL

- 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. 3. 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 OTHERITEMS 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.

#### FOUNDATIONS

- 1. FOUNDATIONS ARE DESIGNED TO BEAR ON ORIGINAL UNDISTURBED SOIL OR CONTROLLED COMPACTED FILL WITH AN ALLOWABLE BEARING CAPACITY OF 1,500 PSF, IN ACCORDANCE WITH TABLE 1806.2 OF THE 2018 NORTH CAROLINA BUILDING CODE.
- 2. THE GEOTECHNICAL ENGINEER FOR THE OWNERS TESTING AGENCY SHALL VERIFY BEARING CAPACITY AND SUITABILITY OF SUBGRADE PRIOR TO PLACING FOUNDATIONS AND GRADE SLABS.
- 3. SELECT AND PLACE CONTROLLED COMPACTED FILL UNDER DIRECT SUPERVISION OF THE GEOTECHNICAL ENGINEER FOR THE OWNERS TESTING AGENCY.
- 4. 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.
- 5. AVOID INFLUENCE OF PIPE TRENCH PARALLEL TO WALL FOOTING AND / OR ADJACENT TO COLUMN FOOTING. REFER TO "FOOTING EXCAVATION LIMITS".

#### CONCRET

- 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 AND SHALL OBTAIN ULTIMATE 28 DAY COMPRESSIVE STRENGTH F'c = 4,000 PSI.
- 3. A MAX W/C = 0.50 SHALL BE UTILIZED. W/C REFERS TO MAXIMUM WATER TO CEMENTITIOUS MATERIALS RATIO. MIXING WATER SHALL CONFORM TO ASTM C1602.
- 4. TARGET AIR ENTRAINMENT, ±1.5%.
- 5. CONCRETE BUILDING ELEMENTS IDENTIFIED WITH EXPOSURE CATEGORY F3 REQUIRE LIMITATIONS ON CEMENTITIOUS MATERIALS AS FOLLOWS:
- CEMENTITIOUS MATERIAL

 FLY ASH (ASTM C618) SLAG CEMENT (ASTM C989) • SILICA FUME (ASTM C1240)

- MAX % OF TOTAL CEMENTITIOUS MATERIALS BY MASS
- TOTAL FLY ASH, OTHER POZZOLANS AND SILICA FUME TOTAL FLY ASH, OTHER POZZOLANS, SILICA FUME AND SLAG 50
- 6. SLABS NOT RECEIVING A HARD TROWEL FINISH MAY BE AIR-ENTRAINED, SLABS RECEIVING A HARD TROWEL FINISH SHALL NOT BE AIR-ENTRAINED AND SHALL HAVE A TOTAL AIR CONTENT OF NOT MORE THAN 3%.
- 7. CONCRETE MIXTURE PROPORTIONS SHALL BE ESTABLISHED IN ACCORDANCE WITH ARTICLE 4.2.3 OF ACI 301.
- 8. REINFORCING STEEL SHALL BE AS FOLLOWS:
- ASTM A615, GRADE 60, DEFORMED REINFORCING BARS
- WELDED WIRE FABRIC: ASTM A1064, SHEET TYPE ONLY
- WELDING PER AWS D1.4 STRUCTURAL WELDING CODE REINFORCING STEE

#### **TEMPORARY SHORING**

- . 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.

#### **POST INSTALLED ANCHORS & DOWELS**

- . INSTALL ALL ANCHORS IN ACCORDANCE WITH MANUFACTURER'S PUBLISHED PROCEDURES AT NOT LESS THAN THE MINIMUM EDGE DISTANCES INDICATED IN THE MANUFACTURER'S LITERATURE. SUBMIT MANUFACTURER'S PRODUCT DATA FOR REVIEW BY THE ARCHITECT.
- 2. ALL ANCHORS (INCLUDING THREADED RODS, NUTS, WASHERS) SHALL BE ZINC PLATED IN ACCORDANCE WITH ASTM B633, FOR SERVICE
- CONDITION SC-1. 3. <u>SCREW ANCHORS</u> SHALL BE ONE OF THE FOLLOWING:
- SCREW-BOLT +, BY DEWALT TITEN HD, BY SIMPSON STRONG-TIE ANCHORING SYSTEMS
- KWIK HUS-EZ, BY HILTI
- HOLE DIAMETER THROUGH STEEL MEMBER SHALL BE AS REQUIRED BY ANCHOR MANUFACTURER
- MINIMUM SCREW ANCHOR EMBEDMENTS SHALL BE AS FOLLOWS, UNO: 4" EMBEDMENT FOR 1/2" DIAMETER ANCHOR
- **5" EMBEDMENT FOR 5/8" DIAMETER ANCHOR** 6" EMBEDMENT FOR 3/4" DIAMETER ANCHOR
- ADHESIVE ANCHORS SHALL CONSIST OF THREADED ROD (ASTM A36), HEX NUT (ASTM A563), WASHER (ASTM F436), AND ADHESIVE (TYPE PER NOTES A, B OR C BELOW).
- ADHESIVE DOWELS SHALL CONSIST OF DEFORMED REINFORCING BAR (ASTM A615, GRADE 60) AND ADHESIVE (TYPE PER NOTE A BELOW) A. "ADHESIVE ANCHORS" OR "ADHESIVE DOWELS" INSTALLED IN SOLID CONCRETE SHALL UTILIZE ONE OF THE FOLLOWING ADHESIVE SYSTEMS, OR APPROVED EQUAL:
  - HYBRID (FAST CURE)
  - AC200+ BY DEWALT ACRYLIC-TIE XP, BY SIMPSON STRONG-TIE ANCHORING SYSTEMS
  - HIT-HY 200-V3, BY HILTI EPOXY (SLOW CURE)
  - PURE 110+, BY DEWALT
  - SET-XP, BY SIMPSON STRONG-TIE ANCHORING SYSTEMS HIT RE 500-V3 EPOXY ADHESIVE, BY HILTI
- B. "ADHESIVE ANCHORS" INSTALLED IN SOLID GROUT FILLED CMU SHALL UTILIZE ONE OF THE FOLLOWING ADHESIVE SYSTEMS, OR APPROVED EQUAL:
- HIT-HY 270, BY HILTI AC 100+ GOLD, BY DEWALT
- ACRYLIC-TIE, BY SIMPSON STRONG-TIE ANCHORING SYSTEMS
- C. "SCREEN TUBE ANCHORS" INSTALLED IN HOLLOW CMU SHALL UTILIZE ONE OF THE FOLLOWING ADHESIVE SYSTEMS, OR APPROVED EQUAL:
- HIT-HY 270, BY HILTI AC 100+ GOLD, BY DEWALT
- ACRYLIC-TIE, BY SIMPSON STRONG-TIE ANCHORING SYSTEMS BASIS OF DESIGN INCLUDES THE FOLLOWING DESIGN PARAMETERS:
- (1) CRACKED CONCRETE (2) ALLOWABLE WITH HAMMER-DRILL, HOLLOW DRILL BIT SYSTEM, AND CORE DRILLING METHODS (3) CURRENT ICC-ES REPORT WITH APPROVAL FOR DEVELOPMENT OF BAR USING ACI PROVISIONS FOR EMBEDMENT DEPTHS GREATER
- THAN 20 BAR DIAMETERS INSTALL ANCHORS PER THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS, AS INCLUDED IN THE ANCHOR PACKAGING.
- OVERHEAD ADHESIVE ANCHORS SHALL BE INSTALLED USING A PISTON PLUG SYSTEM.

FOR PROJECTS MEETING IBC 2012 OR LATER, ACI/CRSI ADHESIVE ANCHOR INSTALLER CERTIFICATION IS REQUIRED FOR ALL INSTALLERS OF ADHESIVE ANCHORS IN HORIZONTAL OR UPWARDLY INCLINED ORIENTATION. THE HILTI ADHESIVE ANCHOR INSTALLER CERTIFICATION PROGRAM (HAAICP) IS AN APPROVED EQUIVALENT.

THE CONTRACTOR SHALL ARRANGE AN ANCHOR MANUFACTURER'S REPRESENTATIVE TO PROVIDE ONSITE INSTALLATION TRAINING FOR ALL ANCHOR PRODUCTS SPECIFIED. THE STRUCTURAL ENGINEER OF RECORD SHALL RECEIVE DOCUMENTED CONFIRMATION THAT ALL PERSONNEL WHO INSTALL ANCHORS ARE TRAINED PRIOR TO THE COMMENCEMENT OF ANCHOR INSTALLATION.

EXISTING REINFORCING BARS IN THE CONCRETE STRUCTURE MAY CONFLICT WITH SPECIFIC ANCHOR LOCATIONS. UNLESS NOTED ON THE DRAWINGS THAT THE BARS CAN BE CUT, THE CONTRACTOR SHALL REVIEW THE EXISTING STRUCTURAL DRAWINGS AND SHALL UNDERTAKE TO LOCATE THE POSITION OF THE REINFORCING BARS AT THE LOCATIONS OF THE CONCRETE ANCHORS BY GPR, X-RAY, CHIPPING OR OTHER APPROVED METHODS. IF THERE IS A CONFLICT WITH EXISTING REINFORCEMENT, THE CONTRACTOR CAN RELOCATE THE INDICATED REINFORCEMENT.

![](_page_8_Picture_60.jpeg)

![](_page_8_Picture_61.jpeg)

	STRU
1.	ALL STRUC AISC AISC RCSC
2.	STRUCTUR

	MISCI
3.	UNLESS NO

# LINTELS

- UP TO 5'-0" 5'-1" TO 6'-0" 6'-1" TO 7'-0"
- OVER 7'-0"

- PLANS AND SECTIONS.

![](_page_8_Figure_79.jpeg)

## PARTIAL EXISTING FOUNDATION PLAN

EXISTING FOUNDATION PLAN NOTES

1. FLOOR CONSTRUCTION SHALL BE 4" NORMAL WEIGHT CONCRETE SLAB ON GRADE REINFORCED WITH 6x6-W2.9xW2.9 WWF OVER VAPOR BARRIER OVER 6" GRANULAR BASE COURSE, UNO.

#### **CTURAL STEEL**

CTURAL STEEL WORK SHALL CONFORM TO THE FOLLOWING AISC DOCUMENTS: 360 "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS" 303 "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES" C'S "SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH STRENGTH BOLTS"

WIDE FLANGE SHAPES AND ANGLES CELLANEOUS SHAPES, PLATES & BARS (TO 8" THICK)

OTED OTHERWISE, CONNECTIONS SHALL BE DESIGNED IN ACCORDANCE WITH AISC MANUAL OF STEEL CONSTRUCTION, AS SIMPLE CONNECTIONS USING ALLOWABLE STRENGTH DESIGN (ASD).

1. 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 THE SCHEDULE BELOW.

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

FOR OPENINGS IN 6" CMU REQUIRING STEEL LINTELS. USE WT7x11 UP TO 7'-0" OPENING.

4. 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.

## RENOVATION

OBTAINED FROM LIMITED OBSERVATIONS OF EXISTING CONDITIONS. STRUCTURAL DRAWINGS ARE UNAVAILABLE. 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

![](_page_8_Figure_98.jpeg)

![](_page_8_Picture_99.jpeg)

![](_page_8_Picture_100.jpeg)

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			ABBREVIATIONS				GRAPHICS SYN	IBOLS LEGEND
Ø	AT	FWC.	ELECTRIC WATER COOLER	OSD	OPEN SITE DRAIN	1		
AAV	AIR ADMITTANCE VALVE	EWH	ELECTRIC WATER HEATER	PC	PRECAST			POINT OF CONNECTION TO EXISTING
ABV	ABOVE	EX	EXISTING	PCF	POUNDS PER CUBIC FOOT		PIPE WITH SIZE AND SERVICE	
AC-X	AIR COMPRESSOR DESIGNATION	EXP	EXPANSION	PD	PUMP DISCHARGE		FLOW IN DIRECTION OF ARROW	
ADJ	ADJUSTABLE	FCO	FLOOR CLEANOUT	PLUMB	PLUMBING		<b>→</b> 1/8" FT	
		FD		PLYWD			PITCH DOWN IN DIRECTION OF ARROW AT INDICATED SLOPE	30 KEYNOTE
AFF		FDC		POLY	POLYETHYLENE DRESSURE DRESERVATIVE TREATED			
AHU		FFF	FINISHED FLOOR ELEVATION	PREFAB	PREFABRICATE(D)			$\sim$
ALT	ALTERNATE	FG	FINISHED GRADE	PROJ	PROJECT		PIPE TURNED DOWN	(8) — — — STRUCTURAL GRID LINE WITH DESIGNATION
ALUM	ALUMINUM	FH	FIRE HYDRANT	PSF	POUNDS PER SQUARE FOOT			$\bigcirc$
AP	ACCESS PANEL	FHC	FIRE HOSE CABINET	PSI	POUNDS PER SQUARE INCH			A123
APPR	APPROXIMATE	FHS	FIRE HOSE STATION	PV	PROPANE VENT			SPACE IDENTIFICATION TAG
ARCH	ARCHITECTURAL	FHVC	FIRE HOSE VALVE CABINET	PVC	POLYVINYL CHLORIDE			SPACE NUMBER
AVG	AVERAGE	FIR	FLOOR	R	RISER			BUILDING AREA (WHEN USED)
BFF	BELOW FINISHED FLOOR	FLSHG	FLASHING	RAD	RADIUS			
BFG	BELOW FINISHED GRADE	FOR	FUEL OIL RETURN	RCP-X	RECIRCULATION PUMP DESIGNATION		CONCENTRIC PIPE REDUCTION	
BLDG	BUILDING	FOS	FUEL OIL SUPPLY	RD	ROOF DRAIN (BOTTOM OUTLET)			
BO	BOTTOM OF	FOV	FUEL OIL VENT	RDS	ROOF DRAIN (SIDE OUTLET)			
BOI	BOILOM	FS						UNIT DESIGNATION
BSIMI	BETWEEN	FSD	FOOT OR FEFT	REQU	REQUIREMENTS			
CA	COMPRESSED AIR	FVC	FIRE VALVE CABINET	RL	RAIN LEADER		WALL CLEANOUT	SECTION WHERE CUT
CI	CAST IRON	G	GAS	RM	ROOM		<u>CO (GCO)</u> YARD CLEANOUT (CLEANOUT TO GRADE)	A SECTION LETTER
CIP	CAST-IN-PLACE CONCRETE	GCO	GRADE CLEANOUT	RO	ROUGH OPENING			P6.1 DRAWING WHERE SECTION IS INDICATED
CL	CENTERLINE	GWH	GAS WATER HEATER	RV	RADON VENT			
CLG	CEILING	HB		S	SOUTH		FLOOR SINK WITH TAG	
		HURIZ		SAN SCH	SANITARY SCHEDULE			
CNTR	COUNTER	HR-X	HOSE REEL DESIGNATION	SD	STORM DRAINAGE PIPING		(2)	Po. 1 DRAWING WHERE ENALRGED PLAN IS INDICATED
СО	CLEANOUT	HTG	HEATING	SDN	STORM DRAIN NOZZLE		PRESSURE GAUGE WITH GAUGE COCK	DETAIL TAG
COL	COLUMN	HW	HOT WATER	SF	SQUARE FOOT/FEET			
CONC	CONCRETE	HWR	HOT WATER RETURN	SHT	SHEET			P6.1 DRAWING WHERE DETAIL IS INDICATED
CONDS	CONDENSATE	HWS		SIM				
CONSTR		ID IN		SLI	SEALANT SLAB ON GRADE			SANITARY RISER TAG
CONTR	CONTRACT(-OR)	INSUL	INCH INSULATE OR INSULATION	SP	SUMP PUMP		A	S1 SANITARY RISER IDENTIFIER
CORR	CORRIDOR	INV	INVERT	SPEC	SPECIFICATION			P6.1 DRAWING WHERE SANITARY RISER IS TAGGED
СР	CIRCULATING PUMP	JAN	JANITOR	SPR	SPRINKLER		INSTITUTE SIZE INDICATED)	DOMESTIC RISER TAG
CR	CLASSROOM	KIT	KITCHEN	SQ	SQUARE			
CT	COOLING TOWER	KW	KITCHEN WASTE	SRD	SECONDARY ROOF DRAIN			P6 1 DRAWING WHERE SANITARY RISER IS TAGGED
CUET				55 550	STAINLESS STEEL SECONDARY STORM DRAINAGE DIDING	Ĭ	$\diamond$	
CUYD		LBS	POUNDS	STD	STANDARD		TEMPERATURE/PRESSURE PLUG	
CW	COLD WATER	LF	LINEAR FOOT (FEET)	STL	STEEL		VALVE	
DB	DRY BULB	LP	PROPANE	STOR	STORAGE			
DCW	DOMESTIC COLD WATER	LPV	PROPANE VENT	STRUCT	STRUCTURAL			P2.2 P6.2 1/4"=1'-0"
DEMO	DEMOLISH OR DEMOLITION	MATL	MATERIAL	SUSP	SUSPENDED		GAS COCK	P2.3 DETAIL NUMBER
	DRINKING FOUNTAIN	MAX		ID TUV				
	DOMESTIC HOT WATER RETURN (140°)			TI T				ADDITIONAL DRAWING REFERENCES
DHW	DOMESTIC HOT WATER	MFR	MANUFACTURER	TMV	THERMOSTATIC MIXING VALVE		MANUAL BALANCING VALVE	
DHW(140)	DOMESTIC HOT WATER (140°)	MH	MANHOLE	TOSL	TOP OF SLAB			S1 SANITARY RISFR DIAGRAM
DI	DROP INLET	MIN	MINIMUM	TW	DOMESTIC TEMPERED WATER (90° F)		AUTOMATIC BALANCING VALVE WITH FLOW TAPS	
DIA	DIAMETER	MISC	MISCELLANEOUS	TYP	TYPICAL		SWING CHECK VALVE	P2.2 P4.2 1/4"=1'-0"
DIP	DUCTILE IRON PIPE	MTD		UG				
	COMPRESSED AIR DRYER DESIGNATION	IN N/A	ΝΟΚΤΠ ΝΟΤ ΑΡΡΙΙζΑΒΙ Ε/Δ\/ΔΙΙ ΔΒΙ Ε	UNU V	VENT			DRAWING WHERE SANITARY RISER IS INDICATED
DS	DOWNSPOUT	NC	NORMALLY CLOSED	VAC	VACUUM		S	ADDITIONAL DRAWING REFERENCES
DT	DRAIN TILE	NG	NATURAL GAS	VB	VACUUM BREAKER			$\overline{}$
DTL	DETAIL	NGV	NATURAL GAS VENT	VERT	VERTICAL			D1 DOMESTIC RISER DIAGRAM
DTW	DOMESTIC TEMPERED WATER	NIC	NOT IN CONTRACT	VTR	VENT THROUGH ROOF		TEMPERATURE AND PRESSURE RELIEF VALVE	
DWG	DRAWING	NO	NORMALLY OPEN	W	WEST		$-\frac{4}{2}$	P2.2 P5.2 1/4"=1'-0"
DWP	DOMESTIC WATER BOOSTER PUMP	NO., (#)		W/				
E	EAST EMERGENCY SECONDARY ROOF DRAIN			WB	WATER HAMMER ARRESTER			DRAWING WHERE DOMESTIC RISER IS INDICATED
ELEC	ELECTRICAL	OD	OUTSIDE DIAMETER	WC	WATER CLOSET			ADDITIONAL DRAWING REFERENCES
ELEV	ELEVATION	OFCI	OWNER FURNISHED CONTRACTOR INSTALLED	WCO	WALL CLEANOUT			$\frown$
EPBD	ELECTRICAL PANELBOARD	OFF	OFFICE	WSHP	WATER SOURCE HEAT PUMP			/ G1 FUEL GAS RISER DIAGRAM
EQ	EQUAL	OH	OVERHEAD	WWF				
EQUIP					WELDED WIRE MESH			P2.2 P5.2 1/4"=T-0" P2.3
LIN		VFF	VERUGIL				PUMP	P2.4 DRAWING WHERE FUEL GAS RISER IS INDICATED DRAWING WHERE FUEL GAS RISER IS TAGGED

PLUMBING GENERAL	DATA				
Item	Value				
SERVICE SIZING					
INSTANTANEOUS DEMAND (GPM)	25				
SUPPLY FIXTURE UNITS (SFU)	36				
DRAINAGE FIXTURE UNITS (DFU)	18				
STORM DRAINAGE AREA OF ROOF (SQUARE FEET) AREA OF WALL ABOVE/ADJACENT TO ROOF (SQUARE FEET)	N/A N/A				
TOTAL ROOF DRAINAGE (SQUARE FEET)	N/A				
WATER HEATERS					
NUMBER	1				
HOT WATER REQUIRED	12 GPM				
FUEL USED	ELEC				

## **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. COORDINATE PIPING LOCATIONS AND INSTALLATION WITH EACH TRADE TO AVOID CONFLICTS WITH OTHER TRADES.
- C. PROVIDE FLOOR CLEANOUTS INDICATED FLUSH WITH FLOOR FINISHES.
- D. PROVIDE CLEANOUTS WHERE INDICATED AND ADDITIONAL CLEANOUTS AS REQUIRED BY 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 AND FIXTURES.
- G. INSTALL ALL DRAINAGE PATTERN FITTINGS AND PIPING IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL CODES.
- H. REFER TO STRUCTURAL DRAWINGS FOR DETAILS AND MAXIMUM SPACING REQUIREMENTS REGARDING HANGER ATTACHMENTS TO STEEL BAR JOISTS.

9

I. PROVIDE ISOLATION VALVES IN ACCORDANCE WITH DIAGRAMS, DETAILS, AND DIVISION 22 SPECIFICATIONS.

# **P0.1**

LEGENDS, ABBREVIATIONS AND **GENERAL NOTES** 

PROJECT NO: 630401 DATE: December, 20, 2023 REVISIONS DATE DESCRIPTION

![](_page_9_Picture_21.jpeg)

![](_page_9_Picture_22.jpeg)

![](_page_9_Picture_23.jpeg)

![](_page_9_Picture_24.jpeg)

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## **DEMO KEYNOTES**

1. DEMOLISH EXISTING SINK & ROUGH IN. REMOVE ALL ASSOCIATED PIPING, VALVING & PLUMBING FIXTURE. PROVIDE FIXTURE BACK TO COLLEGE FOR RE-USE.

![](_page_10_Figure_2.jpeg)

# 2 FIRST FLOOR PLAN - DEMOLITION - PLUMBING

1 FIRST FLOOR PLAN - PLUMBING

![](_page_10_Figure_6.jpeg)

#### **KEYNOTES**

- 1. -Spare-
- EXISTING GAS REGULATOR SERVING HVAC UNIT HEATER TO BE REPLACED. DETATCH EXISTING 1/2" GAS SUPPLY LINE & CAP. RE-ATTACH EXISTING 1/2" GAS SUPPLY LINE TO NEW HVAC NAT. GAS CONNECTION.
- 3. EXISTING STORM DRAINS ABOVE CEILING TO REMAIN.
- 4. PROVIDE/REPAIR INSULATION ON DOMESTIC HOT/COLD DISTRIBUTION PIPING FROM EXISTING WATER HEATER TO EXISTING RECIRCULATION PUMP.
- 5. PROVIDE NEW DOMESTIC HOT WATER RECIRCULATION PUMP ON WALL BEHIND EXISTING ELECTRIC WATER HEATER.
- 6. CONNECT INTO EXISTING HOT/COLD WATER DISTRIBUTION PIPING WITHIN MECHANICAL ROOM. TAP OFF EXISTING HOT WATER VIA TEE AT HOT WATER RISE FROM HEATER. TAP OFF EXISTING COLD WATER IN SUCH A WAY AS TO MAKE ISOLATION VALVE ACCESSIBLE.
- 7. PROVIDE J.R. SMITH OR EQUAL POLY-PRO SHAMPOO TRENCH WITH LINT STRAINER FOR SHAMPOO SINKS. PROVIDE GROUP THERMOSTATIC MIXING VALVE FOR SHAMPOO CHAIRS IF POINT OF USE MIXING VALVES NOT INCLUDED WITH CHAIRS TO BE INSTALLED.
- 9. EXTEND AND CONNECT NEW 3" SANITARY DRAIN TO EXISTING UNDERGROUND DRAINAGE IN NEARBY MECHANICAL ROOM. PROVIDE ACCESSIBLE CLEANOUTS AS REQUIRED. FIELD VERIFY EXACT IZE, LOCATION, DIRECTION OF FLOW & INVERT ELEVATION PRIOR TO CONSTRUCTION.
- 10. EXTEND NEW VENT TO ROOF AND PROVIDE NEW 3" VTR EXTENSION. FLASH & WATERPROOF AS REQUIRED.

![](_page_10_Picture_20.jpeg)

![](_page_10_Picture_21.jpeg)

![](_page_10_Picture_22.jpeg)

FIRST FLOOR PLUMBING PLAN

P1.'

![](_page_11_Figure_0.jpeg)

024 2:51:04

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![](_page_11_Figure_3.jpeg)

![](_page_11_Figure_4.jpeg)

![](_page_11_Figure_5.jpeg)

WATE	R HAMME	R ARRESTOR CA	PACITIES
CONN. SIZE	PDI SIZE	FIXTURE UNIT CAPACITY	CUBIC INCH VOLUME
1/2"	A	1 TO 11	5
3/4"	В	12 TO 32	7
1"	С	33 TO 60	11
1"	D	61 TO 113	20
1"	E	114 TO 154	29
1"	F	155 TO 330	34

SHOCK ABSORBER SELECTION							
CODE	PDI SIZE	FIXTURE UNITS					
SA-1	A	1-11					
SA-2	В	12-32					
SA-3	С	33-60					
SA-4	D	61-113					
SA-5	E	114-154					
SA-6	F	155-330					

<u>NOTE:</u> MATCH TOTAL FIXTURE UNITS OF BRANCH LINE TO CORRECT SIZE OF WATER HAMMER ARRESTOR.

SHOCK ABSORBER SELECTION TABLE

WATER HAMMER ARRESTOR INSTALLATION & SIZING DETAIL NO SCALE

(10)-

![](_page_11_Figure_12.jpeg)

FINISHED FLOOR

![](_page_11_Figure_13.jpeg)

![](_page_11_Figure_14.jpeg)

# 3 PIPE EXPANSION JOINT TYPE DETAIL

![](_page_11_Picture_17.jpeg)

			THERMO	OSTATIC	MIXING VAL	VE SCH	EDULE		
TAC	BASIS OF [	DESIGN	DESIGN FLOW FLOW RANGE		MAX P.D. AT DESIGN	HW SYSTEM TEMPERATURE			
TAG	MANUFACTURER	MODEL	(GPM)	(GPM)	FLOW (PSI)	INLET (°F)	OUTLET (°		

	PUMP SCHEDULE															
	BASIS OF E	DESIGN						OPERATING DAT	4		ELEC	TRICAL DATA	٩	CONNECT	ION SIZE	
TAG	MANUFACTURER	MODEL	LOCATION	SYSTEM TYPE	PUMP TYPE	FLOW (GPM)	PRESSURE (FT)	EFFICIENCY	POWER (HP)	SPEED (RPM)	VOLTS	PHASE	HERTZ	INLET (IN)	OUTLET (IN)	NOTES

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 CONNECTION SIZE
 NOTES

 "F)
 INLET (IN)
 OUTLET (IN)
 NOTES

						MINIMUM INSULA	NOTE	
SERVICE	LOCATION	TEWFERATURE	INSULATION	JACKETING	WEATHERFROOFING	PIPES SIZE (IN)	THICKNESS (IN)	NOTES
DOMESTIC COLD WATER	INDOORS	40°F - 60°F	ELASTOMERIC	ASJ	NONE	0.50-4.00	1.00	
		100°F - 200°F				0.50-1.00	1.00	
DOMESTIC HOT WATER AND HOT WATER RETURN	INDOORS		MOLDED FIBERGLASS	ASJ	NONE	1.25-1.50	1.50	
						2.00-4.00	2.00	
		60°F - 90°F				0.50-1.00	1.00	
TEPID WATER AND TEPID WATER RETURN	INDOORS		MOLDED FIBERGLASS	ASJ	NONE	1.25-1.50	1.50	
						2.00-4.00	2.00	
STORM DRAINAGE	INDOORS	40°F - 60°F	MOLDED FIBERGLASS	ASJ	NONENONE	2.00-12.00	1.00	1
EXTERIOR DOMESTIC COLD WATER	OUTDOORS	40°F - 60°F	MOLDED FIBERGLASS	ASJ	ALUMINUM JACKET	0.50-4.00	2.00	2
HEAT EXCHANGER	INDOORS	250°F	CALCIUM SILICATE	ALUMINUM JACKET	NONE	N/A	N/A	3

FIXTURE TAG

	DRAIN AND	L	
BASIS OF DESIGN	BASIS OF	TAC	
MANUFACTURER MODEL	 MANUFACTURER	TAG	

	PLUM	BING FIXTURE SC	HEDULE						
			PIPE SIZE						NOTES
HEIGHT A.F.F.		BASIS OF DESIGN	COLD WATER	TEPID WATER	HOT WATER	VENT	SOIL WASTE	LEED USAGE DATA	NOTES

JLE	E
E	NOTES

![](_page_12_Picture_10.jpeg)

![](_page_12_Picture_11.jpeg)

![](_page_12_Picture_12.jpeg)

![](_page_12_Figure_13.jpeg)

![](_page_12_Picture_14.jpeg)

![](_page_13_Figure_0.jpeg)

![](_page_13_Figure_2.jpeg)

#### KEYNOTES APPLIES TO THIS DRAWING

1	EXISTING TO REMAIN UNDERGROUND HOT WATER PIPING SYSTEM.
2	REMOVE ABOVE CEILING HW PIPING AND VERTICAL PIPING DOWN TO EXISTING TO REMAIN UNDERGROUND PIPING SYSTEM. REMOVE TO EXTENT NECESSARY TO ALLOW FOR RECONNECTION INTO EXISTING SYSTEM. COORDINATE BOILER SHUT DOWN WITH OWNER. BOILER IS LOCATED IN BUILDING ACROSS BREEZEWAY.
3	PERFORM PRE-CONSTRUCTION TESTING FOR AIR HANDLING UNIT PRIOR TO ANY DEMOLITION WORK. REFER TO SPECIFICATION SECTION 014520 FOR REQUIREMENTS.

![](_page_13_Figure_7.jpeg)

![](_page_13_Picture_9.jpeg)

![](_page_13_Picture_10.jpeg)

![](_page_14_Figure_0.jpeg)

FIRST FLOOR PLAN

![](_page_14_Figure_2.jpeg)

![](_page_14_Figure_3.jpeg)

#### KEYNOTES APPLIES TO THIS DRAWING

- 1 12x12 UP TO F-1 ON ROOF. ROUTE THRU EXISTING 22x22 ROOF PENETRATION. PROVIDE CURB ADAPTER AS REQUIRED.
   8x3 DOWN IN WALL TO MANICURE TABLE. STUB SHEET METAL ROUND/RECTANGULAR DUCT OUT OF WALL TO MATCH TABLE EXHAUST CONNECTION. BALANCE BRANCH TO 50 CFM.
   8x3 DOWN IN WALL TO PEDICURE CHAIR. STUB SHEET METAL ROUND DUCTS OUT OF WALL FOR CONNECTION TO CHAIR WITH FLEXIBLE HOSES. BALANCE BRANCH TO 50 CFM.
   BURY 2" HWS & HWR PIPES BELOW FINISHED FLOOR.
   RECONNECT 2" HWS & HWR PIPES TO EXISTING UNDERGROUND PIPING SYSTEM.
   EXTEND EXISTING EQUIPMENT PAD AS REQUIRED FOR INSTALLATION OF AIR HANDLING UNIT. PAD SHOULD BE 6" LARGER THAN UNIT ON ALL SIDES. MATCH CONSTRUCTION OF EXISTING PAD.
- 7 CONNECT TO EXISTING DUCT AT WALL PENETRATION. PROVIDE TRANSITIONS AS REQUIRED.
- 8 CONNECT TO EXISTING CONDENSATE DRAIN LINE ROUTED TO DRY WELL.
- 9 RE-BALANCE GRILLE TO AIRFLOW INDICATED.
- 10 8x3 DOWN IN WALL TO MANICURE TABLE. COORDINATE DUCT ROUTING WITH WINDOW SILL HEIGHT. STUB SHEET METAL ROUND/RECTANGULAR DUCT OUT OF WALL TO MATCH TABLE EXHAUST CONNECTION. BALANCE BRANCH TO 50 CFM.

![](_page_14_Picture_13.jpeg)

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![](_page_14_Picture_14.jpeg)

![](_page_14_Picture_15.jpeg)

M2.1

![](_page_15_Figure_0.jpeg)

![](_page_15_Figure_4.jpeg)

![](_page_15_Figure_5.jpeg)

![](_page_15_Figure_6.jpeg)

![](_page_15_Figure_7.jpeg)

# M5.1

# **DETAILS AND** CONTROLS

![](_page_15_Figure_17.jpeg)

![](_page_15_Picture_18.jpeg)

![](_page_15_Picture_19.jpeg)

![](_page_15_Figure_20.jpeg)

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PROJECT NO: 630401 DATE: DECEMBER 20, 2023

REVISIONS

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MBOL       DESCRIPTION         Image: Subscript NUMBER INDICATES       FIRE ALARM AUDIO/VISUAL NC         Image: Subscript NUMBER INDICATES       FIRE ALARM AUDIO/VISUAL NC         Image: Subscript NUMBER INDICATES       FIRE ALARM AUDIO/VISUAL NC         Image: Subscript NUMBER INDICATES       FIRE ALARM VISUAL STROBE NUMBER INDICATES         Image: Stroke Candela       FIRE ALARM VISUAL STROBE NUMBER INDICATES         Image: Stroke Candela       FIRE ALARM VISUAL STROBE NUMBER INDICATES         Image: Stroke Candela       FIRE ALARM VISUAL STROBE NUMBER INDICATES         Image: Stroke Candela       FIRE ALARM VISUAL STROBE NUMBER INDICATES         Image: Stroke Candela       FIRE ALARM VISUAL STROBE NUMBER INDICATES         Image: Stroke Candela       FIRE ALARM AUDIO/VISUAL NC         Image: Stroke Candela       FIRE ALARM VISUAL STROBE CANDELA         Image: Stroke Candela       FIRE ALARM MANUAL PULL ST         Image: Stroke Candela       FIRE ALARM		FI
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Image: Subscript Number Indicates Strobe Control         Image: Subscript Number		FIRE ALARM VISUAL STROBE NO NUMBER INDICATES STROBE CA
Image: Strain of the strain	록 ∠ xx	FIRE ALARM AUDIO/VISUAL NOTI 96". SUBSCRIPT NUMBER INDICA REDUCED EFFECTIVE OUTPUT V
Image: Strate of the strate		FIRE ALARM VISUAL STROBE NO NUMBER INDICATES STROBE CA EFFECTIVE OUTPUT WHEN DEVI
Image: Stress of the stress		FIRE ALARM AUDIO/VISUAL NOTI INDICATES STROBE CANDELA R/
Image: Stress of the stress	$\nabla^{\text{xx}}$	FIRE ALARM VISUAL STROBE NO INDICATES STROBE CANDELA RA
Image: Stress indicates strobe candela output when device guard         F       FIRE ALARM MANUAL PULL ST/         FK       FIRE ALARM MEY OPERATED M         Image: Strobe candela output when device guard         Image: Strobe candela output when device guard         FK       FIRE ALARM MANUAL PULL ST/         FK       FIRE ALARM MUCT SMOKE DET         Image: Strobe candela output when device guard	⊽ ∠_××	FIRE ALARM AUDIO/VISUAL NOTI NUMBER INDICATES STROBE CA EFFECTIVE OUTPUT WHEN DEVI
<ul> <li>FIRE ALARM MANUAL PULL STARM</li> <li>FIRE ALARM KEY OPERATED M</li> <li>FIRE ALARM DUCT SMOKE DET DIVISION 23. VERIFY LOCATION OPERATED REMOTE TEST SWA</li> <li>SMOKE DETECTOR, CEILING MO</li> <li>SMOKE DETECTOR, CEILING MO</li> <li>FIRE ALARM TAMPER SWITCH,</li> <li>FIRE ALARM FLOW SWITCH, PR</li> <li>POST INDICATOR VALVE SWITCH</li> <li>FIRE ALARM PRESSURE SWITCA</li> <li>FIRE ALARM PRESSURE SWITCA</li> <li>FIRE ALARM REMOTE INDICATOR</li> <li>FIRE ALARM MONITOR MODUL QUANTITY AND IN LOCATIONS</li> <li>FIRE ALARM SPRINKLER BELL,</li> <li>FIRE ALARM SPRINKLER BELL,</li> <li>FIRE ALARM MAGNETIC DOOR HINGED MAGNETIC CATCH PL/ LENGTH WITH DIVISION 08. PR CONTROL MODULE IF REQUIRE</li> <li>FIRE ALARM DOOR HOLDER/CI INTERFACE WITH FIRE ALARM</li> </ul>		FIRE ALARM VISUAL STROBE NO INDICATES STROBE CANDELA RA OUTPUT WHEN DEVICE GUARD I
FK       FIRE ALARM KEY OPERATED M         Image: Signal Signa	F	FIRE ALARM MANUAL PULL STAT
<ul> <li>FIRE ALARM DUCT SMOKE DET DIVISION 23. VERIFY LOCATION OPERATED REMOTE TEST SWI</li> <li>SMOKE DETECTOR, CEILING MO</li> <li>FIRE ALARM TAMPER SWITCH,</li> <li>FIRE ALARM TAMPER SWITCH, PF</li> <li>POST INDICATOR VALVE SWITCH</li> <li>FIRE ALARM FLOW SWITCH, PF</li> <li>POST INDICATOR VALVE SWITCH</li> <li>FIRE ALARM PRESSURE SWITCH</li> <li>FIRE ALARM REMOTE INDICATION</li> <li>FIRE ALARM MONITOR MODUL QUANTITY AND IN LOCATIONS</li> <li>FIRE ALARM SPRINKLER BELL,</li> <li>FIRE ALARM SPRINKLER BELL,</li> <li>FIRE ALARM MAGNETIC DOOR HINGED MAGNETIC CATCH PL/ LENGTH WITH DIVISION 08. PR CONTROL MODULE IF REQUIRI</li> <li>FIRE ALARM DOOR HOLDER/CI INTERFACE WITH FIRE ALARM</li> </ul>	FK	FIRE ALARM KEY OPERATED MA
<ul> <li>SMOKE DETECTOR, CEILING M</li> <li>HEAT DETECTOR, CEILING MO</li> <li>FIRE ALARM TAMPER SWITCH,</li> <li>FIRE ALARM FLOW SWITCH, PF</li> <li>POST INDICATOR VALVE SWITCH</li> <li>FIRE ALARM PRESSURE SWITCH</li> <li>FIRE ALARM PRESSURE SWITCH</li> <li>FIRE ALARM REMOTE INDICATOR</li> <li>FIRE ALARM MONITOR MODUL</li> <li>QUANTITY AND IN LOCATIONS</li> <li>FIRE ALARM SPRINKLER BELL,</li> <li>FIRE ALARM MAGNETIC DOOR</li> <li>HINGED MAGNETIC CATCH PL/ LENGTH WITH DIVISION 08. PR CONTROL MODULE IF REQUIRI</li> <li>FIRE ALARM DOOR HOLDER/CI</li> <li>INTERFACE WITH FIRE ALARM</li> </ul>	SD	FIRE ALARM DUCT SMOKE DETE DIVISION 23. VERIFY LOCATION V OPERATED REMOTE TEST SWITC
<ul> <li>HEAT DETECTOR, CEILING MO</li> <li>FIRE ALARM TAMPER SWITCH,</li> <li>FIRE ALARM FLOW SWITCH, PF</li> <li>POST INDICATOR VALVE SWITCH</li> <li>FIRE ALARM PRESSURE SWITCH</li> <li>FIRE ALARM PRESSURE SWITCH</li> <li>FIRE ALARM REMOTE INDICATE</li> <li>FIRE ALARM MONITOR MODUL QUANTITY AND IN LOCATIONS</li> <li>FIRE ALARM CONTROL MODUL PROVIDE QUANTITY AND IN LCC</li> <li>FIRE ALARM SPRINKLER BELL,</li> <li>FIRE ALARM MAGNETIC DOOR HINGED MAGNETIC CATCH PL/ LENGTH WITH DIVISION 08. PR CONTROL MODULE IF REQUIRI</li> <li>FIRE ALARM DOOR HOLDER/CI INTERFACE WITH FIRE ALARM</li> </ul>	S	SMOKE DETECTOR, CEILING MO
<ul> <li>FIRE ALARM TAMPER SWITCH,</li> <li>FIRE ALARM FLOW SWITCH, PR</li> <li>POST INDICATOR VALVE SWITCH</li> <li>POST INDICATOR VALVE SWITCH</li> <li>FIRE ALARM PRESSURE SWITCH</li> <li>FIRE ALARM PRESSURE SWITCH</li> <li>FIRE ALARM REMOTE INDICATE</li> <li>FIRE ALARM REMOTE INDICATE</li> <li>FIRE ALARM MONITOR MODUL</li> <li>QUANTITY AND IN LOCATIONS</li> <li>FIRE ALARM CONTROL MODUL</li> <li>PROVIDE QUANTITY AND IN LCC</li> <li>FIRE ALARM SPRINKLER BELL,</li> <li>FIRE ALARM MAGNETIC DOOR</li> <li>HINGED MAGNETIC CATCH PL/LENGTH WITH DIVISION 08. PR</li> <li>CONTROL MODULE IF REQUIR</li> <li>FIRE ALARM DOOR HOLDER/CI</li> <li>INTERFACE WITH FIRE ALARM</li> <li>FIRE ALARM/POWER CONNECT</li> </ul>	H	HEAT DETECTOR, CEILING MOUN
<ul> <li>FIRE ALARM FLOW SWITCH, PF</li> <li>POST INDICATOR VALVE SWITCH</li> <li>POST INDICATOR VALVE SWITCH</li> <li>FIRE ALARM PRESSURE SWITCH</li> <li>FIRE ALARM PRESSURE SWITCH</li> <li>FIRE ALARM REMOTE INDICATE</li> <li>FIRE ALARM REMOTE INDICATE</li> <li>FIRE ALARM MONITOR MODUL</li> <li>QUANTITY AND IN LOCATIONS</li> <li>FIRE ALARM CONTROL MODUL</li> <li>PROVIDE QUANTITY AND IN LCC</li> <li>FIRE ALARM SPRINKLER BELL,</li> <li>FIRE ALARM MAGNETIC DOOR</li> <li>FIRE ALARM MAGNETIC CATCH PL/LENGTH WITH DIVISION 08. PR</li> <li>CONTROL MODULE IF REQUIRE</li> <li>FIRE ALARM DOOR HOLDER/CI</li> <li>INTERFACE WITH FIRE ALARM</li> <li>FIRE ALARM/POWER CONNECT</li> </ul>	TS	FIRE ALARM TAMPER SWITCH, P
<ul> <li>POST INDICATOR VALVE SWITH</li> <li>FIRE ALARM PRESSURE SWITH</li> <li>FIRE ALARM PRESSURE SWITH</li> <li>FIRE ALARM REMOTE INDICATE</li> <li>FIRE ALARM MONITOR MODUL</li> <li>QUANTITY AND IN LOCATIONS</li> <li>FIRE ALARM CONTROL MODUL</li> <li>PROVIDE QUANTITY AND IN LOCATIONS</li> <li>FIRE ALARM SPRINKLER BELL,</li> <li>FIRE ALARM MAGNETIC DOOR</li> <li>HINGED MAGNETIC CATCH PL/ LENGTH WITH DIVISION 08. PR CONTROL MODULE IF REQUIRE</li> <li>FIRE ALARM DOOR HOLDER/CI</li> <li>INTERFACE WITH FIRE ALARM</li> </ul>	FS	FIRE ALARM FLOW SWITCH, PRO
<ul> <li>FIRE ALARM PRESSURE SWITCH</li> <li>FIRE ALARM REMOTE INDICATE</li> <li>FIRE ALARM MONITOR MODUL QUANTITY AND IN LOCATIONS</li> <li>FIRE ALARM CONTROL MODUL PROVIDE QUANTITY AND IN LOCATIONS</li> <li>FIRE ALARM SPRINKLER BELL,</li> <li>FIRE ALARM MAGNETIC DOOR HINGED MAGNETIC CATCH PL/ LENGTH WITH DIVISION 08. PR CONTROL MODULE IF REQUIRE FIRE ALARM DOOR HOLDER/CI INTERFACE WITH FIRE ALARM</li> <li>FIRE ALARM/POWER CONNECTION</li> </ul>	ev	POST INDICATOR VALVE SWITCH
<ul> <li>FIRE ALARM REMOTE INDICATION</li> <li>FIRE ALARM MONITOR MODUL QUANTITY AND IN LOCATIONS</li> <li>FIRE ALARM CONTROL MODUL PROVIDE QUANTITY AND IN LC</li> <li>FIRE ALARM SPRINKLER BELL,</li> <li>FIRE ALARM MAGNETIC DOOR HINGED MAGNETIC CATCH PL/ LENGTH WITH DIVISION 08. PR CONTROL MODULE IF REQUIRI</li> <li>FIRE ALARM DOOR HOLDER/CI INTERFACE WITH FIRE ALARM</li> <li>FIRE AL ARM/POWER CONNECT</li> </ul>	PS	FIRE ALARM PRESSURE SWITCH
<ul> <li>FIRE ALARM MONITOR MODUL QUANTITY AND IN LOCATIONS</li> <li>FIRE ALARM CONTROL MODUL PROVIDE QUANTITY AND IN LC</li> <li>FIRE ALARM SPRINKLER BELL,</li> <li>FIRE ALARM MAGNETIC DOOR HINGED MAGNETIC CATCH PL/ LENGTH WITH DIVISION 08. PR CONTROL MODULE IF REQUIRI</li> <li>FIRE ALARM DOOR HOLDER/CI INTERFACE WITH FIRE ALARM</li> <li>FIRE AL ARM/POWER CONNECT</li> </ul>	RI	FIRE ALARM REMOTE INDICATOR
<ul> <li>FIRE ALARM CONTROL MODUL PROVIDE QUANTITY AND IN LC</li> <li>FIRE ALARM SPRINKLER BELL,</li> <li>FIRE ALARM MAGNETIC DOOR HINGED MAGNETIC CATCH PL/ LENGTH WITH DIVISION 08. PR CONTROL MODULE IF REQUIRI</li> <li>FIRE ALARM DOOR HOLDER/CI INTERFACE WITH FIRE ALARM</li> <li>FIRE AL ARM/POWER CONNECT</li> </ul>	M	FIRE ALARM MONITOR MODULE. QUANTITY AND IN LOCATIONS R
<ul> <li>FIRE ALARM SPRINKLER BELL,</li> <li>FIRE ALARM MAGNETIC DOOR</li> <li>HINGED MAGNETIC CATCH PL/ LENGTH WITH DIVISION 08. PR CONTROL MODULE IF REQUIRI</li> <li>FIRE ALARM DOOR HOLDER/CI</li> <li>INTERFACE WITH FIRE ALARM</li> <li>FIRE ALARM/POWER CONNECT</li> </ul>	C	FIRE ALARM CONTROL MODULE. PROVIDE QUANTITY AND IN LOC
<ul> <li>FIRE ALARM MAGNETIC DOOR</li> <li>HINGED MAGNETIC CATCH PL/ LENGTH WITH DIVISION 08. PR CONTROL MODULE IF REQUIRI</li> <li>FIRE ALARM DOOR HOLDER/CI</li> <li>INTERFACE WITH FIRE ALARM</li> <li>FIRE ALARM/POWER CONNECTION</li> </ul>	₽	FIRE ALARM SPRINKLER BELL, M
M FIRE ALARM DOOR HOLDER/CI INTERFACE WITH FIRE ALARM	М	FIRE ALARM MAGNETIC DOOR H HINGED MAGNETIC CATCH PLAT LENGTH WITH DIVISION 08. PROV CONTROL MODULE IF REQUIRED
	М	FIRE ALARM DOOR HOLDER/CLC INTERFACE WITH FIRE ALARM U
WITH DIVISION 23. REFER TO T	_• •	FIRE ALARM/POWER CONNECTION WITH DIVISION 23. REFER TO TYPE

	ONE
<u>SYMBOL</u>	DESCRIPTION
l l	CIRCUIT BREAKER
自 イ	FUSED SWITCH
<u>سل</u> ید	TRANSFORMER
tt T	TRANSFER SWITCH
XXX	FEEDER DESIGNATION
- В ст	CURRENT TRANSFORMER
<del>≹</del> PT	POTENTIAL TRANSFORMER

![](_page_16_Picture_3.jpeg)

#### **RE ALARM LEGEND** FICATION DEVICE, MOUNT AT 80" AFF AND NOT MORE THAN 96". STROBE CANDELA RATING. TIFICATION DEVICE, 80" AFF AND NOT MORE THAN 96". SUBSCRIPT ANDELA RATING. FICATION DEVICE WITH DEVICE GUARD, 80" AFF AND NOT MORE THAN TES STROBE CANDELA RATING. # / # INDICATES STROBE SETTING AND VHEN DEVICE GUARD IS PRESENT. TIFICATION DEVICE, 80" AFF AND NOT MORE THAN 96". SUBSCRIPT NDELA RATING. # / # INDICATES STROVE SETTING AND REDUCED ICE GUARD IS PRESENT. FICATION DEVICE, CEILING MOUNTED. SUBSCRIPT NUMBER ATING. TIFICATION DEVICE, CEILING MOUNTED. SUBSCRIPT NUMBER RATING. FICATION DEVICE WITH DEVICE GUARD, CEILING MOUNTED. SUBSCRIPT ANDELA RATING. # / # INDICATES STROBE SETTING AND REDUCED CE GUARD IS PRESENT. TIFICATION DEVICE, CEILING MOUNTED. SUBSCRIPT NUMBER ATING. # / # INDICATES STROVE SETTING AND REDUCED EFFECTIVE IS PRESENT. TION, MOUNT AT +3'-10"AFF. ANUAL PULL STATION, MOUNT AT +3'-10"AFF. CTOR, FURNISH AND CONNECT UNDER DIVISION 28. INSTALL UNDER WITH DIVISION 23 PRIOR TO ROUGH-IN. PROVIDE ACCESSIBLE KEY CH FOR EACH DETECTOR. UNT. SUBSCRIPT 'G' WHEN PRESENT INDICATES PROVIDE DEVICE GUARD JNT. SUBSCRIPT 'G' WHEN PRESENT INDICATES PROVIDE DEVICE GUARD. ROVIDE UNDER DIVISION 23, MONITOR UNDER DIVISION 28. VIDE UNDER DIVISION 23, MONITOR UNDER DIVISION 28. I, PROVIDE UNDER DIVISION 23, MONITOR UNDER DIVISION 28. I, PROVIDE UNDER DIVISION 23, MONITOR UNDER DIVISION 28. R, CEILING MOUNT. NOT ALL MONITOR MODULES ARE INDICATED ON DRAWINGS. PROVIDE EQUIRED TO ACCOMPLISH SPECIFIED MONITORING FUNCTIONS. NOT ALL CONTROL MODULES ARE INDICATED ON DRAWINGS. CATIONS REQUIRED TO ACCOMPLISH SPECIFIED CONTROL FUNCTIONS. MOUNT AT +10'-0"AFF. OLDER, WALL MOUNT DEVICE AT 6" BELOW TOP OF DOOR. PROVIDE E ON DOOR TO MATE WITH DEVICE, COORDINATE LOCATION AND VIDE CONCEALED 120-VOLT POWER CONNECTION AND FIRE ALARM FOR PROPER OPERATION. SER HARDWARE UNDER DIVISION 08, MONITOR AND CONTROL NDER DIVISION 28. ON TO DIVISION 23 SMOKE OR FIRE/SMOKE DAMPER. COORDINATE PICAL FIRE/SMOKE DAMPER DIAGRAM. LINE DIAGRAM LEGEND

# **GRAPHICS SYMBOLS LEGEND**

OFFICES	50
BUSINESS	55
STUDIO	60
SCIENCE LAB	70
ELECTRICAL ROOMS	30
MECHANICAL ROOMS	30
COMPUTER LABS	30
GYM	50
LOCKER ROOMS	20
LOBBIES/CORRIDORS	15
TOILETS	20
KITCHEN	70
DINING	40
AUDITORIUM	10-30
STOREROOMS	20
WHITEBOARDS	30

#### POWER LEGEND SYMBOL DESCRIPTION APPLIANCE RECEPTACLE, MOUNT AT +1'-6" AFF. PROVIDE NEMA CONFIGURATION TO MATCH PLUG FOR EQUIPMENT SERVED. APPLIANCE RECEPTACLE, MOUNT AT +1'-6"AFF. PROVIDE NEMA CONFIGURATION TO MATCH PLUG FOR EQUIPMENT SERVED. CONNECT TO EMERGENCY POWER, PROVIDE RED DEVICE. DUPLEX RECEPTACLE, NEMA 5-20R, MOUNT AT +1'-6"AFF. DUPLEX RECEPTACLE, NEMA 5-20R, MOUNT AT +1'-6"AFF. CONNECT TO EMERGENCY POWER, PROVIDE RED DEVICE. DUPLEX RECEPTACLE, NEMA 5-20R, MOUNT AT +3'-10"AFF. DUPLEX RECEPTACLE, NEMA 5-20R, MOUNT AT +3'-10"AFF. CONNECT TO EMERGENCY POWER, PROVIDE RED DEVICE. DUPLEX RECEPTACLE, NEMA 5-20R, MOUNT AT +7'-6"AFF. DUPLEX RECEPTACLE, NEMA 5-20R, MOUNT AT +7'-6"AFF. CONNECT TO EMERGENCY POWER, PROVIDE RED DEVICE. DUPLEX RECEPTACLE, NEMA 5-20R, RECESS FLOOR MOUNT. GFCI DUPLEX RECEPTACLE, NEMA 5-20R, MOUNT AT +1'-6"AFF. PROVIDE NEMA 3R "WHILE IN USE" ENCLOSURE. GFCI DUPLEX RECEPTACLE, NEMA 5-20R, MOUNT AT +1'-6"AFF. GFCI DUPLEX RECEPTACLE, NEMA 5-20R, MOUNT AT +1'-6"AFF. CONNECT TO EMERGENCY POWER, PROVIDE RED DEVICE. GFCI DUPLEX RECEPTACLE, NEMA 5-20R, MOUNT AT +3'-10"AFF. GFCI DUPLEX RECEPTACLE, NEMA 5-20R, MOUNT AT +3'-10"AFF. CONNECT TO EMERGENCY POWER, PROVIDE RED DEVICE. DOUBLE DUPLEX RECEPTACLE, NEMA 5-20R, MOUNT AT +1'-6"AFF. DOUBLE DUPLEX RECEPTACLE, NEMA 5-20R, MOUNT AT +1'-6"AFF. CONNECT TO EMERGENCY POWER, PROVIDE RED DEVICE. DOUBLE DUPLEX RECEPTACLE, NEMA 5-20R, MOUNT AT +3'-10"AFF. DOUBLE DUPLEX RECEPTACLE, NEMA 5-20R, MOUNT AT +3'-10"AFF. CONNECT TO EMERGENCY POWER, PROVIDE RED DEVICE. DOUBLE DUPLEX RECEPTACLE, NEMA 5-20R, RECESS FLOOR MOUNT. SINGLE RECEPTACLE, NEMA 5-20R, MOUNT AT +1'-6"AFF. SINGLE RECEPTACLE, NEMA 5-20R, MOUNT AT +3'-10"AFF. SPD DUPLEX RECEPTACLE, NEMA 5-20R, MOUNT AT +1'-6"AFF. POWER/COMMUNICATIONS RECESSED FLOOR BOX. SUBSCRIPT NUMBER INDICATES OUTLET TYPE. REFER TO DETAIL ON E4 SERIES DRAWINGS. POWER/COMMUNICATIONS RECESSED FLOOR BOX. CONNECT TO EMERGENCY POWER, PROVIDE RED DEVICES. SUBSCRIPT NUMBER INDICATES OUTLET TYPE. REFER TO DETAIL ON E4 SERIES DRAWINGS. ⊘<sup>#</sup> POWER/COMMUNICATIONS POKE THRU FLOOR BOX. SUBSCRIPT NUMBER INDICATES OUTLET TYPE. REFER TO DETAIL ON E4 SERIES DRAWINGS. POWER/COMMUNICATIONS POKE THRU FLOOR BOX. CONNECT TO EMERGENCY POWER, PROVIDE RED POWER/COMMUNICATIONS POKE THRU FLOUR DUA. COMMENT TO EMILTOLIST TO EMILTOLIST TO EMILTOLIST. DEVICES. SUBSCRIPT NUMBER INDICATES OUTLET TYPE. REFER TO DETAIL ON E4 SERIES DRAWINGS. SYSTEM FURNITURE FLEX POWER CABLE CONNECTION VIA FLOOR BOX. COORDINATE W/ SYSTEM FURNITURE PROVIDER PRIOR TO ROUGH-IN. SYSTEM FURNITURE FLEX POWER CABLE CONNECTION VIA FLUSH WALL BOX MOUNTED 4" AFF. COORDINATE W/FURNITURE PROVIDER PRIOR TO ROUGH-IN. POWER/COMMUNICATIONS POWER POLE, FURNISHED WITH (NIC) SYSTEM FURNITURE. PROVIDE J-BOX MTD TO STRUCTURE ABOVE CLG, AND FLEXIBLE CONDUIT CONNECTION TO J-BOX MTD TO TOP OF POLE AND CONNECTED TO PIGTAIL(S) FURNISHED WITH POLE. POLE LOCATION IS APPROXIMATE, COORDINATE WITH SYSTEM FURNITURE PROVIDER. LINE VOLTAGE THERMOSTAT. DIVISION 23 FURNISH, DIVISION 26 INSTALL. REFER TO DIVISION 23 DRAWINGS FOR LOCATIONS AND QUANTITY. PUSHBUTTON CONTROLLER. PUSHBUTTON. (**(**) CORD REEL OUTLET, CEILING MOUNT. [NON-] METALLIC SURFACE RACEWAY, DEVICES AS INDICATED, MOUNT AT +1'-6"AFF, UNO. (J) JUNCTION BOX, CONCEALED ABOVE CEILING, UNO. JUNCTION BOX, UNDER FLOOR MOUNT. CB ENCLOSED CIRCUIT BREAKER, CHARACTERISTICS AS INDICATED. MUSHROOM SWITCH, HEAVY DUTY WITH LEGEND PLATE. MOUNT W/HANDLE AT +3'-10" AFF, UNO. MANUAL MOTOR STARTER, OVERLOAD PROTECTION AS REQUIRED PER NAME PLATE RATINGS, WITH 'ON' INDICATOR PILOT LIGHT. FLUSH MOUNT W/HANDLE AT +3'-10"AFF, UNO. DISCONNECT SWITCH, FUSIBLE OR NON-FUSIBLE AS INDICATED. MOUNT W/HANDLE AT +4'-6"AFF, UNO. MAGNETIC MOTOR STARTER, WITH OVERLOAD RELAYS AS REQUIRED TO SERVE MANUFACTURER REQUIREMENTS OF EQUIPMENT SERVED. PROVIDE WITH HAND-OFF-AUTOMATIC SELECTOR SWITCH AND INDICATOR LIGHTS.. MOUNT W/HANDLE AT +4'-6"AFF, UNO. COMBINATION MAGNETIC STARTER AND DISCONNECT SWITCH. WITH OVERLOAD ELEMENTS AND FUSING AS REQUIRED TO SERVE MANUFACTURER REQUIREMENTS OF EQUIPMENT SERVED. PROVIDE WITH HAND-OFF-AUTOMATIC SELECTOR SWITCH AND INDICATOR LIGHTS.. MOUNT W/HANDLE AT + 4'-6"AFF, UNO. E EQUIPMENT POWER CONNECTION. MOTOR CONNECTION. -M CONNECTION TO DIV 23 MOTORIZED DAMPER, VERIFY LOCATION. EL POWER FOR ELECTRIC DOOR LOCK CONNECTION. ES POWER FOR ELECTRIC DOOR STRIKE CONNECTION. EMERGENCY GENERATOR. BRANCH CIRCUIT RUN CONCEALED, UNO. DASHED INDICATES CIRCUITRY REQUIRED TO BE RUN BELOW STRAIGHT LINEWORK FOR CIRCUITRY INDICATES ON EMERGENCY POWER CIRCUIT. INDICATED FOR CLARITY ONLY, ACTUAL HOMERUN DESIGNATION OVERRIDES THIS SYMBOLOGY. BRANCH CIRCUIT HOME RUN TO PANELBOARD AND CIRCUIT INDICATED. PANELBOARD. T TRANSFORMER, PROVIDE CONCRETE HOUSEKEEPING PAD UNLESS NOTED OTHERWISE. (R) RELAY, N/O OR N/C AS INDICATED. → → RELAY, NORMALLY OPEN. SYMBOL DESCRIPTION XXX FEEDER TAG. REFER TO FEEDER SCHEDULE ON DWG E5.1. SECURITY LEGEND SYMBOL DESCRIPTION DIRECTIONAL SECURITY MOTION DETECTOR, WALL MOUNT 6" BFC. OMNI-DIRECTIONAL SECURITY MOTION DETECTOR. FUTURE CCTV MOUNTING LOCATION, CEILING MOUNT. PROVIDE 20' OF COAXIAL CABLE COILED ABOVE CEILING FOR FUTURE INSTALLATION OF SECURITY CAMERA. RUN CABLE TO ROOM XXXX AND COIL 20' OF CABLE INSIDE ROOM. FUTURE CCTV MOUNTING LOCATION, WALL MOUNT. PROVIDE 20' OF COAXIAL CABLE COILED ABOVE CEILING FOR FUTURE INSTALLATION OF SECURITY CAMERA. RUN CABLE TO ROOM XXXX AND COIL 20' OF CABLE INSIDE ROOM. DPS DOOR POSITION SWITCH. **C** STATUS CONTACT. CR CARD READER, MOUNT AT 3'-10" AFF. CARD READER WITH KEYPAD, MOUNT AT 3'-10" AFF. REMOTE KEYPAD FOR SECURITY SYSTEM, MOUNT AT 3'-10" AFF. DS ELECTRIC DOOR STRIKE. EL ELECTRIC DOOR LOCK. PL PNEUMATIC DOOR LOCK. $\langle \rangle$ TALK THROUGH COMMUNICATOR.

DURESS ALARM PUSHBUTTON, MOUNT IN CASEWORK AS INDICATED.

	COMMUNICATIONS LEGEND		GF
NOTE:	REFER TO 'TYPICAL COMMUNICATION OUTLET DETAIL' FOR BOX & CONDUIT REQUIREMENTS. REFER TO		
SYMBOL	DESCRIPTION	A. THE AS II QUA	F REQUIRED BY ALL. IN THE CASE OF LITY. IN THE CASE OF A CONFLICT, D
$\nabla_{\rm X}$	TELECOMMUNICATIONS OUTLET, SUBSCRIPT NUMBER INDICATES OUTLET TYPE. MOUNT AT +3'-10"AFF.	OF V	NORK.
▼x	TELECOMMUNICATIONS OUTLET, SUBSCRIPT NUMBER INDICATES OUTLET TYPE. MOUNT AT +1'-6"AFF.	B. FOL MEA	LOW MOUNTING HEIGHTS INDICATED SURE ALL MOUNTING HEIGHTS FROM
$\nabla$	[MISC COMMUNICATIONS OUTLET] , MOUNT AT +1'-6"AFF.	C. FIEL	D VERIFY EXACT FEEDER LOCATION
	RECESSED FLOOR MOUNT DEVICE COMPLETE WITH FITTINGS FOR FLOOR COVERING.	D. EQU OF A	IIPMENT CONNECTIONS ARE INDICAT ALL CONNECTIONS WITH OTHER TRAI
Ť	INTERCOM STATION WITH PUSHBUTTON, MOUNT AT +4'-6"AFF.	E. LOC	ATED ALL SWITCHES FOR LOCAL COM
∓ ₽_	[MISC COMMUNICATIONS OUTLET], MOUNT AT +4'-6"AFF.	E PRO	IERWISE INDICATED. IVIDE SPECIFIC BREAKER ARRANGEN
1⊧ 全	CATV OUTLET MOUNT AT +11'-6"117'-6"1AFF	PRO	IVIDE AS-BUILT DRAWINGS INDICATIN TTEN PANELBOARD DIRECTORIES INI
С Ф	WALL CLOCK, MOUNT AT +7'-6"AFF. SUBSCRIPT "D" INDICATES DOUBLE FACE CLOCK.	G. PRO	VIDE AS-BUILT DRAWINGS INDICATIN
(C)	WALL CLOCK, CEILING MOUNT. SUBSCRIPT "D" INDICATES DOUBLE FACE CLOCK. ARROWS INDICATE	WRI	EWRITTEN PANELBOARD DIRECTORIE TTEN SCHEDULES ARE NOT ACCEPT
₩ <sup>#</sup> @ <sup>#</sup>	FACE DIRECTION. MICROPHONE OUTLET, WALL MOUNT AT +1'-6"AFF, FLUSH FLOOR MOUNT. SUBSCRIPT NUMBER INDICATES NUMBER OF JACKS TO PROVIDE IN OUTLET.	H. ALL TRA	CONDUIT RUNS INDICATED ARE DIAG DES.
S	SOUND SYSTEM SPEAKER, RECESS WALL MOUNT AT +7'-6"AFF. 'WG' WHERE PRESENT INDICATES PROVIDE PROTECTIVE WIRE GUARD.	I. ALL FIEL PAN	PANELBOARDS INDICATED ARE HOUS D VERIFY ROOM LAYOUT AND ADJUS ELBOARD ENCLOSURES.
S	SOUND SYSTEM SPEAKER, RECESS CEILING MOUNT. 'WG' WHERE PRESENT INDICATES PROVIDE PROTECTIVE WIRE GUARD.	J. WHE FIEL	ERE POWER AND COMMUNICATION OF D COORDINATE THE LOCATIONS TO F
$\square^{\#}$	POWER/COMMUNICATIONS RECESSED FLOOR BOX. SUBSCRIPT LETTER INDICATES OUTLET TYPE. REFER TO "TYPICAL COMMUNICATION OUTLET DETAIL" FOR BOX AND CONDUIT REQUIREMENTS.	K. ALL L. WHE	EXTERIOR RECEPTACLES SHALL BE I EN GROUPING MULTIPLE LINE TO NEU
<b>⊠</b> #	POWER/COMMUNICATIONS RECESSED FLOOR BOX ON EMERGENCY POWER. SUBSCRIPT LETTER INDICATES OUTLET TYPE. REFER TO "TYPICAL COMMUNICATION OUTLET DETAIL" FOR BOX AND CONDUIT REQUIREMENTS.	COL NEU M. PRO	OR CODED NEUTRAL CONDUCTORS I TRALS EVEN THOUGH PERMITTED BY
$\bigotimes^{\#}$	POWER/COMMUNICATIONS POKE-THRU FLOOR BOX. SUBSCRIPT LETTER INDICATES OUTLET TYPE. (2) 3/4" CONDUITS, (1) EACH AT OPPOSITE SIDES, TO STUB-UP AT NEAREST COMMUNICATION CROSS-CONNECT, UNO. REFER TO 'TYPICAL COMMUNICATION OUTLET DETAIL.'	FRO SPA	NT OF ALL ELECTRICAL PANELS IN EL CE DETAILS. STENCIL "NO STORAGE"
${ igodot}^{\#}$	POWER/COMMUNICATIONS POKE-THRU FLOOR BOX ON EMERGENCY POWER. SUBSCRIPT LETTER INDICATES OUTLET TYPE. (2) 3/4" CONDUITS, (1) EACH AT OPPOSITE SIDES, TO STUB-UP AT NEAREST COMMUNICATION CROSS-CONNECT, UNO. REFER TO 'TYPICAL COMMUNICATION OUTLET DETAIL.'		
SF	SYSTEM FURNITURE COMMUNICATIONS CONNECTIONS VIA FLOOR BOX. PROVIDE 1.25" CONDUIT BELOW SLAB TO STUB-UP AT NEAREST COMMUNICATION BACK BOARD. COORDINATE WITH FURNITURE PROVIDER PRIOR TO ROUGH-IN.	10	
SF	SYSTEM FURNITURE COMMUNICATIONS CONNECTION VIA FLUSH WALL BOX MOUNTED +4"AFF. PROVIDE 1.25" CONDUIT WITH BUSHING FROM BOX TO ABOVE CEILING. COORDINATE WITH FURNITURE PROVIDER PRIOR TO ROUGH-IN.	3P 3R	THREE PHASE WEATHERPROOF (NEMA 3R)
	SYSTEM FURNITURE COMMUNICATIONS CONNECTION VIA POWER POLE FURNISHED WITH SYSTEM	AFF	ABOVE FINISHED FLOOR
WA	WIRELESS ACCESS POINT		
	TELECOMMUNICATIONS EQUIPMENT RACK.	BFG	BELOW FINISHED CEILING BELOW FINISHED GRADE
	2" EMT CONDUIT SLEEVE WITH NYLON BUSHING EACH END UNO, THRU WALL AT +6 " ABOVE FINISHED	BKR C	BREAKER CONDUIT
TG	CEILING. TELECOMMUNICATIONS GROUND BUS BAR, MOUNT AT +1'-6"AFF.	CATV CB	COMMUNITY ANTENNA TELEVISIO CIRCUIT BREAKER
B TMGB	TELECOMMUNICATIONS MAIN GROUND BUS BAR, MOUNT AT +1'-6"AFF.	CBL CCTV	CABLE CLOSED CIRCUIT TELEVISION
	CABLE TRAY, MOUNT AT +6" ABOVE FINISHED CEILING.	CKT CLG	CIRCUIT CEILING
		CLR CO.	CLEAR COMPANY
	LIGHTING LEGEND	COMB COMM	COMBINATION COMMUNICATIONS
<u>SYMBOL</u>	DESCRIPTION	CU DIA	COPPER DIAMETER
S	LIGHT SWITCH, RATED 120/277 VOLTS, 20-AMPS, MOUNT AT +3'-10"AFF. SUBSCRIPT/SUPERSCRIPT	DISC	DISCONNECT
	3 INDICATES 3-WAY LIGHT SWITCH	DWG	
	4 INDICATES 4-WAY LIGHT SWITCH D INDICATES DIMMER SWITCH	EC	
	<ul> <li>P INDICATES PILOT LIGHT, ON WHEN SWITCH IS ON</li> <li>K INDICATES KEY OPERATED LIGHT SWITCH</li> </ul>	ELEC	ELECTRICAL
	OS INDICATES SWITCH WITH INTEGRAL OCCUPANCY SENSOR OD INDICATES DIMMER SWITCH WITH INTEGRAL OCCUPANCY SENSOR	ELEV EPO	ELEVATOR EMERGENCY POWER OFF
	FOR MULTI-LEVEL SWITCHING	EQ ETR	EQUIPMENT EXISTING TO REMAIN
	LOWER CASE LETTER INDICATES LIGHT FIXTURE CONTROL DESIGNATION	EWC EX	ELECTRIC WATER COOLER EXISTING
ŚŚ	INDICATES SWITCHES WIRED FOR INBOARD/OUTBOARD SWITCHING.	EXT FA	EXTERIOR FIRE ALARM
	OMNI-DIRECTIONAL LIGHTING CONTROL OCCUPANCY DETECTOR, CEILING MOUNT.	FAAP	
<b>Î Î</b>	DIRECTIONAL LIGHTING CONTROL OCCUPANCY DETECTOR, WALL MOUNT AT 6" BELOW FINISHED CEILING.	FAGP	FIRE ALARM GRAPHIC PANEL
	PHOTOELECTRIC CELL FOR LIGHTING CONTROL. WALL MOUNT AT +10-0"AFF. AIM NORTH.	FAXP FFSCP	FIRE ALARM EXTENDER PANEL
		FLA FPMR	FULL LOAD AMPS FUSE PER MANUFACTURERS REC
		FPND G	FUSE PER NAMEPLATE DATA GROUND
	LIGHTING FIXTURE ON EMERGENCY POWER.	GE	GROUND FAULT PROTECTION FO INDICATED BREAKER)
	WALL WASHER LIGHTING FIXTURE.	GFCI GFP	GROUND FAULT CIRCUIT INTERR
ŶŢ	LIGHT FIXTURE, WALL MOUNT, HEIGHT AS INDICATED.	НКР	BREAKER) HOUSEKEEPING PAD
	EMERGENCY EGRESS LIGHTING FIXTURE, WITH BATTERY PACK, WALL MOUNT AT +8'-0"AFF.	HP	HORSEPOWER HIGH PRESSURE SODUM
88	EXIT SIGN, CEILING MOUNT. DIRECTIONAL ARROWS AS INDICATED. SHADING INDICATES FACE(S) OF SIGN.	Hz	
	EXIT SIGN WALL MOUNT DIRECTIONAL ARROWS AS INDICATED. SHADING INDICATES FACE(S) OF SIGN	IG	
88		L DOV	

●──☐ LIGHT FIXTURE, POLE MOUNT.

SPORTS LIGHTING POLE.

# DEMOLITION LEGEND

- REMOVE DEVICES, EQUIPMENT, IN ACCORDANCE WITH THE GENERAL DEMOLITION NOTES.
- DEVICES ARE EXISTING TO REMAIN.
- WITHIN HATCHED AREAS, DISCONNECT AND REMOVE ALL ELECTRICAL MATERIALS INCLUDING BUT NOT LIMITED TO LIGHTS, DEVICES, EQUIPMENT, SPEAKERS, FIRE ALARM, COMMUNICATIONS, AND CIRCUITRY

# **GENERAL DEMOLITION NOTES**

.. 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.

C. MAINTAIN CONTINUITY OF ALL EXISTING CIRCUITS TO REMAIN OR PORTIONS THEREOF AFFECTED BY 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. E. 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 TO AVOID CONFLICTS.

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.

# ENERAL NOTES

- LEMENTARY AND WHAT IS REQUIRED BY ONE SHALL BE AS BINDING A CONFLICT, DISAGREEMENT, OR AMBIGUITY, PROVIDE THE BETTER DISAGREEMENT, OR AMBIGUITY, PROVIDE THE GREATER QUANTITY
- ) IN THE ELECTRICAL LEGEND UNLESS OTHERWISE INDICATED. M THE DEVICE CENTER LINE UNLESS OTHERWISE INDICATED. IS FOR MECHANICAL EQUIPMENT PRIOR TO ROUGH-IN.
- TED IN THEIR APPROXIMATE LOCATIONS. VERIFY EXACT LOCATIONS ADES SUPPLYING EQUIPMENT TO AVOID CONFLICTS AT INSTALLATION. NTROL OF LIGHTING ON STRIKE SIDE OF SINGLE DOORS UNLESS
- IENT FOR THE PANEL BOARDS WHEREVER PHYSICALLY POSSIBLE.
- NG ACTUAL BRANCH CIRCUIT ARRANGEMENT. PROVIDE TYPE IDICATING ACTUAL BRANCH CIRCUIT ARRANGEMENT. NG ACTUAL BRANCH CIRCUIT ARRANGEMENT. PROVIDE ES INDICATING ACTUAL BRANCH CIRCUIT ARRANGEMENT. HAND
- GRAMMATIC, COORDINATE ROUTING IN ALL SPACES WITH OTHER
- SED IN A SINGLE WIDTH ENCLOSURE, UNO. THE CONTRACTOR SHALL ST ACCORDINGLY, AT NO COST TO THE OWNER, IF PROVIDING ANY
- UTLETS ARE INDICATED IN CLOSE PROXIMITY ON THE DRAWINGS, PLACE THE OUTLETS ADJACENT TO EACH OTHER.
- LABELED "WR" WEATHER RESISTANT.
- JTRAL BRANCH CIRCUITS IN A CONDUIT, PROVIDE DEDICATED FOR EACH CIRCUIT. DO NOT USE BREAKER TIES AND SHARED
- ED ON THE FLOOR INDICATING THE ELECTRICAL WORKING SPACE. IN LECTRICAL ROOMS. REFER TO PLANS FOR ELECTRICAL WORKING " IN 2" HIGH, YELLOW LETTERS CENTERED IN THE OUTLINED AREA.

# **BBREVIATIONS**

1F 2D	
3P 2D	
3R	WEATHERPROOF (NEMA 3R)
A	
AL	
AIS DEC	
BKR	BREAKER
C	CONDUIT
CATV	COMMUNITY ANTENNA TELEVISION (CABLE)
CB	
CBI	CABLE
CCTV	
CKT	
	CLEAR
CO	COMPANY
COMB	COMBINATION
COMM	COMMUNICATIONS
CU	COPPER
DIA	DIAMETER
DISC	DISCONNECT
DIV	DIVISION
DWG	DRAWING
EBH	ELECTRIC BASEBOARD HEATER
EC	EMPTY CONDUIT
ECS	EMERGENCY COMMUNICATIONS STATION
ELEC	ELECTRICAL
ELEV	ELEVATOR
EPO	EMERGENCY POWER OFF
EQ	EQUIPMENT
ETR	EXISTING TO REMAIN
EWC	ELECTRIC WATER COOLER
EX	EXISTING
EXT	EXTERIOR
FA	FIRE ALARM
FAAP	FIRE ALARM ANNUNCIATOR PANEL
FACP	FIRE ALARM CONTROL PANEL
FAGP	FIRE ALARM GRAPHIC PANEL
FAXP	FIRE ALARM EXTENDER PANEL
FFSCP	FIRE FIGHTER'S SMOKE CONTROL PANEL
FLA	FULL LOAD AMPS
FPMR	FUSE PER MANUFACTURERS REQUIREMENTS/RECOMMENDATIONS
FPND	FUSE PER NAMEPLATE DATA
G	GROUND
GE	GROUND FAULT PROTECTION FOR EQUIPMENT, 6-50mA PER NEC 427.22 (PROVIDE
CECI	
GFF	BREAKER)
НКР	HOUSEKEEPING PAD
HP	HORSEPOWER
HPS	HIGH PRESSURE SODIUM
Hz	HERTZ
IAW	IN ACCORDANCE WITH
IG	
J-BOX	JUNCTION BOX
KHESS	KITCHEN HOOD FIRE SUPPRESSION SYSTEM
KHz	KILOHERTZ
KVA	KILOVOLTAMPS
KW	KILOWATTS
KWH	KILOWATT HOURS
L	LOCKOUT TO PREVENT UNAUTHORIZED SWITCHING (PROVIDE ACCESSORY FOR
LC	ROUTE CIRCUIT TO LOAD VIA LIGHTING CONTACTOR, REFER TO LC SCHEDULE
LED	LIGHT EMITTING DIODE
LTG	LIGHTING
LTS	LIGHTS
MAX	MAXIMUM
MCA	MINIMUM CIRCUIT AMPACITY
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MH	METAL HALIDE
MHz	MEGAHERTZ
MIN	MINIMUM
ML	MAINTENANCE LOCK (PROVIDE ACCESSORY FOR INDICATED BREAKER)
MLO	MAIN LUG ONLY
MNS	MASS NOTIFICATION SYSTEM
MOCP	MAXIMUM OVER CURRENT PROTECTION.
MTD	MOUNTED
N	NEU (RAL
N/C	NORMALLY CLOSED
N/U	
NO.	
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
P	PILOT LIGHT (AT THE SWITCH HANDLE)
PBD	
	RECEPTACLE
REC	
	RECEPTACLE
SPEC	RECEPTACLE SECURITY SURGE PROTECTIVE DEVICE
ST	RECEPTACLE SECURITY SURGE PROTECTIVE DEVICE SPECIFICATION(S)
<u> </u>	RECEPTACLE SECURITY SURGE PROTECTIVE DEVICE SPECIFICATION(S) SHUNT TRIP, 120V COIL (PROVIDE ACCESSORY FOR INDICATED REFAKED)
SW	RECEPTACLE SECURITY SURGE PROTECTIVE DEVICE SPECIFICATION(S) SHUNT TRIP, 120V COIL (PROVIDE ACCESSORY FOR INDICATED BREAKER) SWITCH
SW SWBD	RECEPTACLE SECURITY SURGE PROTECTIVE DEVICE SPECIFICATION(S) SHUNT TRIP, 120V COIL (PROVIDE ACCESSORY FOR INDICATED BREAKER) SWITCH SWITCHBOARD
SW SWBD TBB	RECEPTACLE SECURITY SURGE PROTECTIVE DEVICE SPECIFICATION(S) SHUNT TRIP, 120V COIL (PROVIDE ACCESSORY FOR INDICATED BREAKER) SWITCH SWITCHBOARD TELECOMMUNICATIONS BONDING BACKBONE
SW SWBD TBB TC	RECEPTACLE SECURITY SURGE PROTECTIVE DEVICE SPECIFICATION(S) SHUNT TRIP, 120V COIL (PROVIDE ACCESSORY FOR INDICATED BREAKER) SWITCH SWITCHBOARD TELECOMMUNICATIONS BONDING BACKBONE TELECOMMUNICATIONS CLOSET
SW SWBD TBB TC TEL FCOM	RECEPTACLE SECURITY SURGE PROTECTIVE DEVICE SPECIFICATION(S) SHUNT TRIP, 120V COIL (PROVIDE ACCESSORY FOR INDICATED BREAKER) SWITCH SWITCHBOARD TELECOMMUNICATIONS BONDING BACKBONE TELECOMMUNICATIONS CLOSET TELECOMMUNICATIONS
SW SWBD TBB TC TELECOM TGB	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
SW SWBD TBB TC TELECOM TGB TMGB	RECEPTACLE SECURITY SURGE PROTECTIVE DEVICE SPECIFICATION(S) SHUNT TRIP, 120V COIL (PROVIDE ACCESSORY FOR INDICATED BREAKER) SWITCH SWITCHBOARD TELECOMMUNICATIONS BONDING BACKBONE TELECOMMUNICATIONS CLOSET TELECOMMUNICATIONS TELECOMMUNICATIONS GROUNDING BUS BAR TELECOMMUNICATIONS MAIN GROUNDING BUS BAR
SW SWBD TBB TC TELECOM TGB TMGB TYP	RECEPTACLE SECURITY SURGE PROTECTIVE DEVICE SPECIFICATION(S) SHUNT TRIP, 120V COIL (PROVIDE ACCESSORY FOR INDICATED BREAKER) SWITCH SWITCHBOARD TELECOMMUNICATIONS BONDING BACKBONE TELECOMMUNICATIONS CLOSET TELECOMMUNICATIONS TELECOMMUNICATIONS GROUNDING BUS BAR TELECOMMUNICATIONS MAIN GROUNDING BUS BAR TYPICAL
SW SWBD TBB TC TELECOM TGB TMGB TYP UNO	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 MAIN GROUNDING BUS BAR TYPICAL UNLESS NOTED (INDICATED) OTHERWISE
SW SWBD TBB TC TELECOM TGB TMGB TYP UNO V	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 UNLESS NOTED (INDICATED) OTHERWISE VOLTS
SW SWBD TBB TC TELECOM TGB TMGB TYP UNO V V VFD	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 CLOSET TELECOMMUNICATIONS GROUNDING BUS BAR TELECOMMUNICATIONS MAIN GROUNDING BUS BAR TELECOMMUNICATIONS MAIN GROUNDING BUS BAR TYPICAL UNLESS NOTED (INDICATED) OTHERWISE VOLTS VARIABLE FREQUENCY DRIVE
SW SWBD TBB TC TELECOM TGB TMGB TYP UNO V VUNO V VFD W	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 CLOSET TELECOMMUNICATIONS GROUNDING BUS BAR TELECOMMUNICATIONS MAIN GROUNDING BUS BAR TELECOMMUNICATIONS MAIN GROUNDING BUS BAR TYPICAL UNLESS NOTED (INDICATED) OTHERWISE VOLTS VARIABLE FREQUENCY DRIVE WATTS
SW SWBD TBB TC TELECOM TGB TMGB TYP UNO V UNO V VFD W W/	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 CLOSET TELECOMMUNICATIONS GROUNDING BUS BAR TELECOMMUNICATIONS GROUNDING BUS BAR TELECOMMUNICATIONS MAIN GROUNDING BUS BAR TYPICAL UNLESS NOTED (INDICATED) OTHERWISE VOLTS VARIABLE FREQUENCY DRIVE WATTS
SW SWBD TBB TC TELECOM TGB TMGB TYP UNO V UNO V VFD W W/ WG	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 CLOSET TELECOMMUNICATIONS GROUNDING BUS BAR TELECOMMUNICATIONS GROUNDING BUS BAR TELECOMMUNICATIONS MAIN GROUNDING BUS BAR TELECOMMUNICATIONS MAIN GROUNDING BUS BAR TYPICAL UNLESS NOTED (INDICATED) OTHERWISE VOLTS VARIABLE FREQUENCY DRIVE WATTS WITH WIRE GUARD
SW SWBD TBB TC TELECOM TGB TMGB TYP UNO V UNO V VFD W VFD W WG WP	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 CLOSET TELECOMMUNICATIONS GROUNDING BUS BAR TELECOMMUNICATIONS GROUNDING BUS BAR TELECOMMUNICATIONS MAIN GROUNDING BUS BAR TLECOMMUNICATIONS MAIN GROUNDING BUS BAR TUPICAL UNLESS NOTED (INDICATED) OTHERWISE VOLTS VARIABLE FREQUENCY DRIVE WATTS WITH WIRE GUARD WEATHERPROOF
SW SWBD TBB TC TELECOM TGB TMGB TYP UNO V VFD W VFD W W/ W/ WG WP XFER	RECEPTACLESECURITYSURGE PROTECTIVE DEVICESPECIFICATION(S)SHUNT TRIP, 120V COIL (PROVIDE ACCESSORY FOR INDICATED BREAKER)SWITCHSWITCHBOARDTELECOMMUNICATIONS BONDING BACKBONETELECOMMUNICATIONS CLOSETTELECOMMUNICATIONS GROUNDING BUS BARTELECOMMUNICATIONS GROUNDING BUS BARTELECOMMUNICATIONS MAIN GROUNDING BUS BARTYPICALUNLESS NOTED (INDICATED) OTHERWISEVOLTSVARIABLE FREQUENCY DRIVEWATTSWITHWIRE GUARDWEATHERPROOFTRANSFER

![](_page_16_Picture_41.jpeg)

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![](_page_17_Figure_2.jpeg)

FIRST FLOOR - DEMO POWER PLAN

![](_page_17_Figure_5.jpeg)

![](_page_17_Figure_6.jpeg)

![](_page_17_Figure_7.jpeg)

![](_page_17_Picture_9.jpeg)

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	INTERIOR LIGHT FIXTURE SCHEDULE											
FI	XTURE				LÆ	AMP		OPTIONS			DECEDENCE	
MANUFACTURER	SERIES NO.	WATTAGE	LUMENS	COLOR	TYPE	COLOR TEMP.	MOUNTING	DIMMING	INTEGRAL SWITCH	BATTERY PACK **	NOTE	
LITHONIA	STAK 90CRI 1% DIM	40	5000 lm	WHITE	LED	4000 K	GRID	Y	Y	Y	**	BA
MATRIX MIRRORS	T03-D-24-36-S-40-V-1-NA-BF	27	2200 lm	BLACK	LED	4000 K	SURFACE	Y	-	-		LC
MANUFACTURERSERIES NO.WATTAGELUMENSCOLORTYPECOLOR TEMP.LITHONIASTAK 90CRI 1% DIM405000 lmWHITELED4000 KMATRIX MIRRORST03-D-24-36-S-40-V-1-NA-BF272200 lmBLACKLED4000 KEXIT LIGHT COLED-R-W-BB-ST5WHITE/REDLEDLED							SURFACE	N		Y	1	

D 277V INPUT (MVOLT), UNO. NS FOR ADDITIONAL FIXTURE INFORMATION. SS, UNO.

# \*\* PROVIDE BATTERY PACK WHERE INDICATED ON DRAWINGS, WIRE BATTERY LEADS AHEAD OF SWITCH FOR THE CIRCUIT IN THE SPACE TO MAINTAIN PROPER OPERATION IN CASE OF POWER LOSS.

![](_page_18_Figure_6.jpeg)

![](_page_18_Figure_8.jpeg)

#### **KEYNOTES** APPLIES TO THIS SHEET REPRESENTED BY #

LIGHT FIXTURES SHALL BE POWERED BY EXISTING 277V CIRCUIT FROM 4LP1 MADE AVAILABLE DURING DEMOLITION PHASE. PROVIDE CABLING AS NECESSARY. DEMOLISHED FIXTURES WERE FLOURESCENT. LIGHTING LOAD HAS DECREASED BY ROUGHLY HALF.

![](_page_18_Figure_11.jpeg)

![](_page_18_Figure_12.jpeg)

![](_page_18_Picture_14.jpeg)

![](_page_19_Figure_0.jpeg)

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KEYNOTES	
APPLIES TO THIS DRAWING	
REPRESENTED BY #	
1. NEW TRANSFORMER, DISCONNECT AND PANEL FED FROM 4MDP. REFERENCE ELECTRICAL SINGLE LINE.	
2. TIE FIRE ALARM DEVICES INTO EXISTING NOTIFIER SYSTEM. FACP IS LOCATED IN MAIN ENTRANCE/ROOM 156.	
3. EACH STATION SHALL RECEIVE ONE DEDICATED CIRCUIT. RACEWAYS SHALL BE SAWCUT INTO SLAB AND STUB-UP INTO STATIONS. 3 CIRCUITS MAX PER RACEWAY. MC FROM JUNCTION BOX STUB UP LOCATION TO STATION'S JUNCTION BOX. SEE ELEVATIONS ON THIS SHEET FOR DEVICES LOCATION AND FUNCTION. COORDINATE WITH CASEWORK VENDOR. DEVICES PROVIDED AND INSTALLED BY DIV 26	
<ol> <li>PROVIDE 30A NEMA 3R DISCONNECT FOR AC-1. POWERED FROM 4MDP. PROVIDE (4)-#10'S IN 3/4" CONDUIT. COORDINATE WITH DIV 23 FOR LOCATION AND CONTROLS.</li> </ol>	
<ol> <li>ROOF MOUNTED 1/6HP ROOF MOUNTED EXHAUST FAN. PROVIDE (3)-#12'S IN 3/4" CONDUIT AND MOTOR RATED SWITCH. COORDINATE WITH DIV 23 FOR LOCATION AND CONTROLS.</li> </ol>	
6. WIRELESS ACCESS POINT. SHALL BE TIED INTO EXISTING DATA SYSTEM. COORDINATE WITH DIV 27/OWNER'S REPRESENTATIVE.	
<ol> <li>DATA. PROVIDE 3/4" CONDUIT WITH PULLSTRING STUBBED 6" ABOVE CEILING.</li> </ol>	
8. TV/MONITOR LOCATION. RECEPTACLE AND DATA OUTLETS SHALL BE LOCATED 60" AFF. PROVIDE 3/4" CONDUIT WITH PULLSTRING STUBBED 6" ABOVE CIELING FOR DATA. COORDINATE WITH DIV 27/OWNER'S REPRESENTATIVE AND ARCHITECTURAL ELEVATIONS PRIOR TO ROUGH-IN	
<ol> <li>RECIRC PUMP. PROVIDE (3)-#12'S IN 3/4" CONDUIT POWERED FROM IN PANEL 2PP2A. PROVIDE 20A SINGLE POLE BREAKER IN SPACE. COORDINATE WITH DIV 22</li> </ol>	
10. EXISTING PULL STATIONS TO REMAIN, PROVIDE SPACER RING DUE TO WALL BEING FURRED OUT.	
11.RECEPTACLE POWERED FROM EXISTING CIRCUIT FEEDING EXISTING RECEPTACLE IN SPACE. 3#-12'S IN 3/4" C.	

![](_page_19_Figure_4.jpeg)

#### STATION ELEVATION 1 1/2" = 1'-0"

ELEVATION NOTES:

- 1. 20A DEAD FRONT GFI SWITCH. CONTROLS ENTIRE CIRCUIT FOR STATION. BASIS OF DESIGN: LEGRAND 2087BK
- 2. DIMMER FOR LED MIRROR. BASIS OF DESIGN: LEGRAND RHKITBKPCCV6
   \*CASEWORK VENDOR AND DIV 26 SHALL COORDINATE INSTALL/PLACEMENT OF DEVICES. DEVICES PROVIDED AND INSTALLED BY DIV 26

![](_page_19_Figure_9.jpeg)

<u>1ST FLOOR</u> 0' - 0"

# STATION ELEVATION 2

ELEVATION NOTES:

- 1. 4 RECEPTACLE FURNITURE POWER CENTER. BASIS OF DESIGN: LEGRAND RD4RBK
- 2. JUNCTION BOX FOR LED MIRROR POWER/CONTROL. SEE LIGHTING FIXTURE SCHEDULE FOR MIRROR SPECS.

\*CASEWORK VENDOR AND DIV 26 SHALL COORDINATE INSTALL/PLACEMENT OF DEVICES. DEVICES PROVIDED AND INSTALLED BY DIV 26

![](_page_19_Picture_16.jpeg)

![](_page_20_Figure_0.jpeg)

#### **ONE LINE DIAGRAM** NO SCALE

PANELBOARD SCHEDULE A LOCATION: ELEC. 144C FED FROM: 75 kV/ V/480									5 kVA, 2 /480 V, <sup>-</sup>	.77 Three					
225 AN		3	120/208 Wye		3 PH	4 W		MOUNT: SURFACE			PANEL ASSEMBLY RATED (KAIC): 10 KAIC				
скт	BRKR	POLE	LOAD		Α		E	3	0	;	LOAD	POLE	BRKR	скт	
1	20 A	1	COMSO STATION		1.0	1.0					COMSO STATION	1	20 A	2	
3	20 A	1	COMSO STATION				1.0	1.0			COMSO STATION	1	20 A	4	
5	20 A	1	COMSO STATION						1.0	1.0	COMSO STATION	1	20 A	6	
7	20 A	1	COMSO STATION		1.0	1.0					COMSO STATION	1	20 A	8	
9	20 A	1	COMSO STATION				1.0	1.0			COMSO STATION	1	20 A	10	
11	20 A	1	COMSO STATION						1.0	1.0	COMSO STATION	1	20 A	12	
13	20 A	1	COMSO STATION		1.0	1.0					COMSO STATION	1	20 A	14	
15	20 A	1	COMSO STATION	_			1.0	1.0			COMSO STATION	1	20 A	16	
17	20 A	1	COMSO STATION	_	1.0	4.0			1.0	1.0	COMSO STATION	1	20 A	18	
19	20 A	1		-	1.0	1.0	1.0	1.0				1	20 A	20	
21	20 A	1		_			1.0	1.0	1.0	1.0		1	20 A	22	
23	20 A	1		-	1.0	1.0			1.0	1.0			20 A	24	
20	20 A	1		-	1.0	1.0	1.0	1.0					20 A	20	
20	20 A	1	COMSO STATION	_			1.0	1.0	10	10			20 A	20	
29	20 A	1	COMSO STATION	-	10	1.0			1.0	1.0		1	20 A	30	
33	20 A	1	REC PEDICURE STATION	(GP)	1.0	1.0	0.4	0.2			REC PEDICURE STATION (GP)		20 A	34	
35	20 A	1	REC MANICURE STATION	(GP)			0.4	0.2	02	0.4	REC MANICURE STATION (GP)		20 A	36	
37	20 A	1	REC DRYER CHAIR (GP)		0.2	0.2			0.2	0.1	REC DRYER CHAIR (GP)	1	20 A	38	
39	20 A	1	REC DRYER CHAIR (GP)	_		•	0.2	0.2			REC DRYER CHAIR (GP)	1	20 A	40	
41	20 A	1	REC TV'S	_					0.4	0.5	REC GENERAL	1	20 A	42	
43	20 A	1	REC REC. SINK (GP)		0.4									44	
45	20 A	1	REC REC FACIAL (GP)				0.5	0.2			F-1	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	20 A	1	SPARE		0.0	0.0					SPARE	1	20 A	56	
57	20 A	1	SPARE				0.0	0.0			SPARE	1	20 A	58	
59	20 A	1	SPARE						0.0	0.0	SPARE	1	20 A	60	
61		1	SPACE ONLY	_							SPACE ONLY	1		62	
63		1							_			1		64	
65		1		_								1		66	
60		1		-								1		68	
09 74		1		_					_			1		70	
72		1		-										74	
75		1		-										74	
77		1									SPACE ONLY	1		78	
79		1	SPACE ONLY	F							SPACE ONLY	1	<u>├</u>	80	
81		1	SPACE ONLY								SPACE ONLY	1		82	
83		1	SPACE ONLY	_							SPACE ONLY	1		84	
					13 k\	/A	12	κVΑ	11	κVΑ					
GE) = GP) = L) = P LC) = ML) =	IS NA       12 NA       11 NA         106 A       97 A       95 A         GE) = PROVIDE GFCI BREAKER FOR EQUIPMENT, 6-50mA PER NEC 427.22 DED. NEUTRAL.       GP) = PROVIDE GFCI BREAKER FOR PERSONNEL, 4-6mA PER NEC 210.8. DED. NEUTRAL.         L) = PROVIDE LOCKOUT BREAKER TO PREVENT UNAUTHORIZED SWITCHING.       LC) = ROUTE TO LOAD VIA LIGHTING CONTACTOR, REF DETAIL ON DWG E4.X.         ML) = PROVIDE BREAKER WITH MAINTENANCE LOCKOUT. LOCKABLE OFF.       OFF.														
ood (	lacoifi	nation		Connecto	dlaad		mand Fr	and Eastern Fatimeted Deres		d Domo	nd Danal Tatala				
					α <b>μυαύ</b> Δ							13		{	
		GHTING	<u> </u>		Δ	+	0.00%		0						
		-s	,	35600	VΔ		64 04%		2281		Total Fet Demand: 22.0	k\/Δ			
				0.11	Δ		04.04%	,	220		Total Conn. Current: 00 A	- I otal Est. Demand: 23.0 kVA			
		ΔT			Δ		0.00%		0		Total Est Domand 64 A				
		-71			Δ		0.00%		0			L .			
		0110			Δ		0.00%		0		-1				
		000		0 0	1		0.00 /0		0	vл					

Load Classification	Connected Load	Demand Factor	Estimated Demand	
INTERIOR LIGHTING	0 VA	0.00%	0 VA	
EXTERIOR LIGHTING	0 VA	0.00%	0 VA	Total
RECEPTACLES	35600 VA	64.04%	22800 VA	Total E
AC / HEAT PUMP	0 VA	0.00%	0 VA	Total Co
ELECTRIC HEAT	0 VA	0.00%	0 VA	Total Es
KITCHEN	0 VA	0.00%	0 VA	
MISCELLANEOUS	0 VA	0.00%	0 VA	

EX	STI	NG	PANELBOARD	4	MDP	)	LOCAT	ION: ME	CH 151	FED																		
400 AN		3	480/277 Wye	3 P	H 4 W		MOL	JNT: SU	RFACE	PANEL ASSEMBLY RATED (																		
CKT BRKR POLE		POLE	LOAD	A		В		с		LOAD																		
1				0.0	0.0																							
3	100 A	3	PANEL 4LP1 (EB)			0.0	0.0			AHU (EB)																		
5								0.0	0.0																			
7				0.0	0.0																							
9	15 A	3	COMP (EB)			0.0	0.0			UH-4 (EB)																		
11								0.0	0.0																			
13				0.0	0.0																							
15	30 A	3	3 EWH-2 (EB)			0.0	0.0			PANEL 2PP1 XFRMR (EB)																		
17								0.0	0.0																			
19				0.0	0.0																							
21	30 A	3	BECOMES SPARE			0.0	0.0	0.0	0.0	AC-2 (EB)																		
23				0.0	0.0			0.0	0.0																			
25	20.4	2		0.0	0.0	0.0	0.0																					
21	30 A	3	3	3	3 A	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	AC -3 (EB)			0.0	0.0	0.0	0.0	АС-4 (ЕВ)
29				0.0	0.0			0.0	0.0																			
33	30 4	3	EW/H_2 (EB)	0.0	0.0	0.0	0.0			PANEL 2003 YERMR (EB)																		
35	50 A	0				0.0	0.0	0.0	0.0																			
37				16.4	12.7			0.0	0.0																			
39	30 A	3	AC-1 (PB)	10.7	12.7	16.4	11.6			PANEL A XERMR (PB)																		
41	0071 0		/ (° ±)			10.1	11.0	16.4	11.4																			
				29	kVA	28	kVA	28	kVA																			
				10	5 A	10	1 A	10	0 A	-																		

(GE) = PROVIDE GFCI BREAKER FOR EQUIPMENT, 6-50mA PER 2008 NEC 427.22. DED. NEUTRAL.
(GP) = PROVIDE GFCI BREAKER FOR PERSONNEL, 4-6mA PER 2008 NEC 210.8. DED. NEUTRAL.
(L) = PROVIDE LOCKOUT BREAKER TO PREVENT UNAUTHORIZED SWITCHING.
(LC) = ROUTE TO LOAD VIA LIGHTING CONTACTOR, REF DETAIL ON DWG E4.X.
(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: 84.9 kVA
RECEPTACLES	35600 VA	64.04%	22800 VA	Total Est. Demand: 72.1 kVA
AC / HEAT PUMP	49050 VA	100.00%	49050 VA	Total Conn. Current: 102 A
ELECTRIC HEAT	0 VA	0.00%	0 VA	Total Est. Demand 87 A
KITCHEN	0 VA	0.00%	0 VA	
MISCELLANEOUS	0 VA	0.00%	0 VA	

EXISTING BREAKERS AND DESCRIPTIONS DERIVED FROM RECORD DRAWINGS AND FIELD VISITS. EC SHALL UPDATE PANEL SCHEDULE AND NOTIFY ENGINEER OF ANY DESCREPANCY.

EXISTING LOAD DERIVED FROM POWER BILLS. HIGHEST RECORDED PEAK LOAD FROM PAST YEAR WAS 61.44KVA.

<u>PER ART 220.87</u> EXISTING PEAK DEMAND = 61.44KVA (X1.25) = 76.8KVA (92AMPS) ADDITIONAL LOAD = 72.2KVA(87AMPS) TOTAL LOAD = 149KVA(179 AMPS)

<u>NOTE</u>: EXISTING AHU AC-1 IS BEING REPLACED WITH LARGER UNIT(15A VS 30A). THE FULL LOAD IS IN THE CALC ABOVE AND THE SYSTEM IS STILL WITHIN CAPACITY.

COPPER FEEDER SCHEDULE									
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 SIZE	
30	1	3#10,#10 G	3/4"		30Y	1	4#10,#10 G	3/4"	
100	1	3#1,#8 G	1 1/4"		(100Y)	1	4#1,#8 G	1 1/4"	

NOTES: 1. ELECTRICAL CONTRACTOR TO VERIFY CONDUIT SIZE REQUIRED IF WIRE TYPES OTHER THAN THOSE LISTED ABOVE ARE USED.

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

3. SIZES ADJUSTED PER NEC 110.14.

TRANSFORMER SCHEDULE								
kVA	TYPE	PRIMARY	SECONDARY	COPPER PRIMARY FEEDER	COPPER SECONDARY FEEDER	BONDING CONDUCTOR		
75 kVA	LINEAR	480V-3Ø	208Y/120V	3#1, #6 G, 1-1/2" C.	4-250kCM, #2 G, 2-1/2" C.	#2		

![](_page_20_Figure_19.jpeg)

![](_page_20_Figure_20.jpeg)

![](_page_20_Figure_21.jpeg)

otals

72.1 kVA 102 A 87 A

![](_page_20_Picture_30.jpeg)