

ABBREVIATIONS

ſ					
	AFF	ABOVE FINISH FLOOR	ENGR	ENGINEER	JT
	APPROX	APPROXIMATE	EQ	EQUAL	LAB
	ARCH	ARCHITECTURAL	EQUIP	EQUIPMENT	LB
	AUTO	AUTOMATIC	EWC	ELECTRIC WATER	LH
	AUX	AUXILIARY		COOLER	LHR
	AVG	AVERAGE	EXH	EXHAUST	LL
	BD	BOARD	EXIST	EXISTING	MAINT
	BLDG	BUILDING	EXP	EXPANSION	MAX
	BOT	BOTTOM	EXP JT	EXPANSION JOINT	MECH
	BRG	BEARING	F	FAHRENHEIT	MEMO
	BTU	BRITISH THERMAL	FAB	FABRICATE	MEZZ
			FD	FLOOR DRAIN	MFG
	C	CELSIUS	FE	FIRE EXTINGUISHER	MH
	CB		FEC		MIN
	CJ				MISC
					MO
	CL TO CL		FFJ		MTL
					NA
					NEG
					NIC
	CIVIO	UNIT			NO
	CO2	CARBON DIOXIDE	FIR	FLOOR	NTS
	COL	COLUMN	FDM		OC
	CONC	CONCRETE	FPS	FEET PER SECOND	OD
	CONST	CONSTRUCTION	FR		OFCI
	CONT	CONTINUOUS	FT	FEET	
	CST	CONCRETE STAIN	GA	GAUGE	OFOL
	CTR	CENTER	GAI	GALLON	01 01
	CU FT	CUBIC FEET	GALV		ОН
	CU IN	CUBIC INCH	GEN	GENERAL	OPP
	CU YD	CUBIC YARD	GOVT	GOVERNMENT	PA
	DBL	DOUBLE	GPH	GALLONS PER HOUR	PL
	DEPT	DEPARTMENT	GPM	GALLONS PER MINUTE	PREFAB
	DF	DRINKING FOUNTAIN	GWB	GYPSUM WALL BOARD	PREFIN
	DIA	DIAMETER	GYP	GYPSUM	PRELIM
	DIM	DIMENSION	GYP BD	GYPSUM BOARD	PROJ
	DS	DOWN SPOUT	HDW	HARDWARE	PSF
	DWG	DRAWING	HGT	HEIGHT	
	EA	EACH	HORIZ	HORIZONTAL	PSI
	ED	EQUIPMENT DRAIN	HR	HOUR	
	EEJ	EXTERIOR EXPANSION	HVAC	HEATING,	PT
		JOINT		VENTILATION, A/C	R (RAD)
	EF	EXHAUST FAN	IN	INCH	RA
	EL	ELEVATION	INFO	INFORMATION	RD
	ELEC	ELECTRICAL	INSUL	INSULATION	REFRIG
	ELEM	ELEMENTARY	INV	INVERT	REINF
	ELEV	ELEVATOR			REQD

	JOINT
	LABORATORY
	POUND
	LEFT HAND
	LEFT HAND REVERSE
	LIVE LOAD
	MAINTENANCE
	MAXIMUM
	MECHANICAL
	MEMORANDUM
	MEZZANINE
	MANUFACTURE(R)
	MAN HOLE
	MINIMUM
	MISCELLANEOUS
	MASONRY OPENING
	METAL
	NOT APPLICABLE
	NEGATIVE
	NOT IN CONTRACT
	NUMBER
	NOT TO SCALE
	ON CENTER
	OUTSIDE DIAMETER
	OWNER FURNISHED
	OWNER FURNISHED
	OPPOSITE HAND
	OPPOSITE
	PLATE
В	PREFABRICATED
	PREFINISHED
1	PRELIMINARY
	PROJECT
	POUNDS PER SQUARE
	FOOT
	POUNDS PER SQUARE
	INCH
	PRESSURE TREATED
)	RADIUS
	RETURN AIR
3	REFRIGERATOR

REINFORCE REQUIRED

RH	RIGHT HAND
RHR	RIGHT HAND REVERSE
SD	STORM DRAIN
SHT	SHEET
SIM	SIMILAR
SPEC	SPECIFICATION
SQ	SQUARE
SQ FT	SQUARE FEET
SQ IN	SQUARE INCHES
ST	STREET
STD	STANDARD
STL	STEEL
STRUCT	STRUCTURAL
SYM	SYMBOL
T&G	TONGUE & GROOVE
TEL	TELEPHONE
TV	TELEVISION
TYP	TYPICAL
UNO	UNLESS NOTED
	OTHERWISE
VCT	
VEDT	
VERI	
VOC	COMPOUND
VOL	VOLUME
WC	WATER CLOSET

HENDERSONVILLE CITY HALL **FIRST FLOOR ALTERATIONS** Hendersonville, NC



DETAIL NUMBERING SYSTEM

20	16	12	08	04	
19	15	11	07	03	
18	14	10	06	02	
17	13	09	05	01	

ALTERNATES

1. LEVEL III BULLET RESISTANT CUSTOMER SERVICE WINDOWS.

STRUCTURAL ENGINEER:

STEWART ENGINEERING 101 N. Tryon St. Suite 1400 Charlotte, NC 28202 704.334.7925

PLUMBING, MECHANICAL, ELECTRICAL, & FIRE PROTECTION:

RN&M ENGINEERS 390 Main St. Canton, NC 28716 828.492.0677

SHEET NO.	SHEET TITLE	REVISION
GENERAI		
A000	COVER SHEET	
A001	CODE INFORMATION - APPENDIX B	1
A002	LIFE SAFETY PLAN	
		I
	A1	
ARCHITECTUR		1
ARCHITECTUR/ A100 A101	AL FIRST FLOOR PLAN FIRST FLOOR DIMENSIONING & WALL TYPE PLAN	1
ARCHITECTURA A100 A101 A600	AL FIRST FLOOR PLAN FIRST FLOOR DIMENSIONING & WALL TYPE PLAN SCHEDULES (DOORS & WINDOWS)	1 1 1
ARCHITECTUR/ A100 A101 A600 A700	AL FIRST FLOOR PLAN FIRST FLOOR DIMENSIONING & WALL TYPE PLAN SCHEDULES (DOORS & WINDOWS) FINISH LEGEND, SCHEDULE, NOTES & CODES	1 1 1 1
ARCHITECTUR/ A100 A101 A600 A700 A701	AL FIRST FLOOR PLAN FIRST FLOOR DIMENSIONING & WALL TYPE PLAN SCHEDULES (DOORS & WINDOWS) FINISH LEGEND, SCHEDULE, NOTES & CODES FIRST FLOOR FINISH PLAN	1 1 1 1
ARCHITECTUR/ A100 A101 A600 A700 A701 A800	AL FIRST FLOOR PLAN FIRST FLOOR DIMENSIONING & WALL TYPE PLAN SCHEDULES (DOORS & WINDOWS) FINISH LEGEND, SCHEDULE, NOTES & CODES FIRST FLOOR FINISH PLAN REFLECTED CEILING PLAN	1 1 1 1 1 1

HEET	INDEX	
	SHEET NO.	SHEET TITLE
]	STRUCTURAL	
	S001	GENERAL NOTES, ABBREVIATIONS, AND SYMBOL
	S011	STATEMENT OF SPECIAL INSPECTION
	S100	FOUNDATION PLAN
	S200	NEW HEADER PLAN
	S300	SLAB ON GRADE DETAILS
]	S301	STRUCTURAL DETAILS
-	PLUMBING P100 P101	CITY HALL LEVEL 1 PLUMBING DEMOLITION PLAN CITY HALL LEVEL 1 PLUMBING PLAN
-	MECHANICAL	
_	M-001	MECHANICAL NOTES AND LEGENDS
_	M-002	MECHANICAL DETAILS
	M-100	CITY HALL LEVEL 1 DEMOLITION PLAN
	M-101	CITY HALL LEVEL 1 MECHANICAL PLAN
	ELECTRICAL	
	E-001	ELECTRICAL NOTES, SYMBOLS & SCHEDULES
	E-100	CITY HALL LEVEL 1 ELECTRICAL DEMOLITION PLA
	E-200	CITY HALL LEVEL 1 ELECTRICAL LIGHTING PLAN
	E-300	CITY HALL LEVEL 1 ELECTRICAL POWER & RECEP
	E-400	ELECTRICAL PANEL SCHEDULE



Name of Project: First Floor Alterations to Hendersonville City Hall Address: 160 6th Ave East, Hendersonville, NC Zip Code _28792 Owner(Authorized Agent City of HendersonvillePhage # (
When Au Owned By Code Enfo	: cement Jurisdictior	X City/Count	y 	Private X County <u>He</u>	State	<u>jov</u>	
C ONTAC Designer	T: atorres@adwa	architects.com	LICENS	E# TELEPHO	DNE# E-MAIL		
Architectura	ADW Architects	Keith Car	lyon 7463		79-1919 kcarlyon@adward		
fire Afarther lumbing	RNM, Inc. RNM, Inc.	Jason S. Jason S. Mark R. N	Denton 035223 Denton 035223 Acdowell 024539		92-0677 sdenton@rnm-en 92-0677 sdenton@mm-en 92-0677 rmcdowell@rnm-e	gineers.com gineers.com engineers.com	
Mechanical Sprinkler-St	<u>RNM, Inc.</u> tandpipe <u>N/A</u>	Jason L.	Moody <u>32224</u>	(<u></u>)	92-0677 Imoody@rnm-eng	gineers.com	
Actaining W Other	$\frac{\text{Stewart, Inc.}}{\text{Valls} > 5' \text{ High } \underline{N/A}}$	James V.			<u></u>	<u>atin</u> c.com 	
2018 NC C	CODE FOR:	New Constr New Constr Shell/Core Phased Con Panevation	uction Ac erior Completion struction – Shel	dition X Ren n 1/Core	ovation		
2018 NC F C(RI	EXISTING BUILD	ING CODE: X Alteration: Alteration: Altera	Prescriptive Level I Historic Proper DRIGINAL OC CURRENT OC	Repair Level II ty CCUPANCY(S) (CUPANCY(S) (Chapter 14 Chapter 14 Change of Use Ch. 3): Business Ch. 3): Business	-	
RISK CA	FEGORY (table 16	604.5) Curre Propos	ent: 🛄 I sed: 🛄 I	X II X II			
3ASIC BU Construct check all t Sprinklers Standpipe Fire Distri	JILDING DATA ion Type: I-A that apply) I-E s: X No Pa s: X No Ye ict: No X Ye spections Required:	A II-A B X II-B rtial Yes es Class I Es (Primary) X No Y	III III NFPA 13 II III Flood es	A B NFPA 13R Wet Dry Hazard Area:	□ IV □ V- □ V- □ NFPA 13D	A B	
Floor	Existing (Gr sq New (oss Building A (SQ FT)	rea: RENO/ALTER	Sub-Total		
6 th Floor	FT)		Ξ	(SQ.FT)			
3 rd Floor 4 th Floor 3 rd Floor 2 nd Floor	4,379 6,730	STAIR TO ROOM	-)				
Mezzanine 1 st Floor	7,555			6,460			
TOT	AL 26,516			6,460			
Primary C Assem Busine Educat Factor Hazarc Institut Mercar Reside Storage Utility Accessory C Incidental I Special Use Special Prov Mixed Occ I Nor The for c dete See ratio	Decupancy Classifie bly A-1 bly F-1 Signal F-1 y F-1 dous H-1 dous Sondia dous Sondia dous Sondia dous Sondia dous Gous dous Chapter 5 – I upancy: X visions: (Chapter 5 – I upancy: X upancy: <td><td a="" constraint="" in="" sec<="" second="" td="" the="" to=""><td>ONE A-5 F-2 Low lagrate H-3 2 2 2 2 3 Separation: ding shall be dete entire building. A , the area of the ded by the allow Cetual Area of Oc bowable Area of Oc</td><td>Combust \square H- \square 4 \square 5 \square High-piled \square Repair Gara \square Hr. Exception The most restrictive able floor area for construction \square Compancy B \leq \square Hr. Hr. Hr. Here, Here,</td><td>4 Health \square H-5 HPM ge ge ge</td><td>ations</td></td></td>	<td a="" constraint="" in="" sec<="" second="" td="" the="" to=""><td>ONE A-5 F-2 Low lagrate H-3 2 2 2 2 3 Separation: ding shall be dete entire building. A , the area of the ded by the allow Cetual Area of Oc bowable Area of Oc</td><td>Combust \square H- \square 4 \square 5 \square High-piled \square Repair Gara \square Hr. Exception The most restrictive able floor area for construction \square Compancy B \leq \square Hr. Hr. Hr. Here, Here,</td><td>4 Health \square H-5 HPM ge ge ge</td><td>ations</td></td>	<td>ONE A-5 F-2 Low lagrate H-3 2 2 2 2 3 Separation: ding shall be dete entire building. A , the area of the ded by the allow Cetual Area of Oc bowable Area of Oc</td> <td>Combust \square H- \square 4 \square 5 \square High-piled \square Repair Gara \square Hr. Exception The most restrictive able floor area for construction \square Compancy B \leq \square Hr. Hr. Hr. Here, Here,</td> <td>4 Health \square H-5 HPM ge ge ge</td> <td>ations</td>	ONE A-5 F-2 Low lagrate H-3 2 2 2 2 3 Separation: ding shall be dete entire building. A , the area of the ded by the allow Cetual Area of Oc bowable Area of Oc	Combust \square H- \square 4 \square 5 \square High-piled \square Repair Gara \square Hr. Exception The most restrictive able floor area for construction \square Compancy B \leq \square Hr. Hr. Hr. Here,	4 Health \square H-5 HPM ge ge	ations
	DESCRIPTION AND	(A)	(B)	(C)	(D)	_	
STORY		BLDG AREA PER STORY (ACTUAL)	TABLE 506.2 ⁴ AREA	AREA FOR FRONT. INCREASE ^{1,5}	GE ALLOWABLE AREA F STORY OR UNLIMITE	PER D ^{2,3}	
STORY NO.	USE		23,000	-	23,000 23,000		
STORY NO. B 1	USE Business (B) Business (B)	940 7,555	23,000	1			
STORY NO. B 1 2 3	USE Business (B) Business (B) Business (B)	940 7,555 6,730 6,730	23,000 23,000	-	23,000		
STORY NO. B 1 2 3 4	USE Business (B) Business (B) Business (B) Business (B) Business (B)	940 7,555 6,730 6,730 4,379	23,000 23,000 23,000 23,000	-	23,000 23,000 23,000		
STORY NO. B 1 2 3 4 Frontage a a. Per b. To c. Rai d. W e. Per Unlimited Maximum The maxin Frontage	USE Business (B) Business (B) Business (B) Business (B) Business (B) Business (B) Business (B) area increases from Sectimeter which fronts a tal Building Perimeter tio (F/P) = = Minimum width of recent of frontage increase a applicable under a Building Area = tota mum area of open par increase is based on the	940 7,555 6,730 6,730 4,379 ection 506.3 are compublic way or oper (F/P) public way = (F/P) public way = r conditions of Sect 1 number of stories king garages must on the unsprinklered are	23,000 23,000 23,000 23,000 nputed thus: a space having 20 (P) (W) - 0.25] x W/30 ion 507. in the building x comply with Table a value in Table		$ \begin{array}{c c} 23,000 \\ 23,000 \\ \hline 23,000 \\ \hline \text{th} = _ (F) \\ \text{tries}) (506.2). \end{array} $		
STORY NO. B 1 2 3 4 Frontage a a. Per b. To c. Ra d. W e. Per Unlimited Maximum The maxin Frontage	USE Business (B) Business (B) Business (B) Business (B) Business (B) Business (B) Business (B) area increases from Sec rimeter which fronts a tal Building Perimeter tio (F/P) = = Minimum width of recent of frontage increa tarea applicable under a Building Area = tota mum area of open par increase is based on the	9407,5556,7306,7304,379ection 506.3 are compublic way or oper $=$	23,000 23,000 23,000 23,000 nputed thus: a space having 20 (P) (W) - 0.25] x W/30 ion 507. in the building x comply with Table		23,000 23,000 23,000 th =(F) ries) (506.2).		
STORY NO. B 1 2 3 4 Frontage a a. Per b. To c. Rai d. W e. Per Unlimited Maximum The maxin Frontage	USE Business (B) Business (B) Business (B) Business (B) Business (B) Business (B) Business (B) area increases from Sectimeter which fronts a tal Building Perimeter tio (F/P) = = Minimum width of recent of frontage increa a applicable under a Building Area = tota mum area of open par increase is based on the	940 7,555 6,730 6,730 4,379 ection 506.3 are compublic way or oper	23,000 23,000 23,000 23,000 nputed thus: a space having 20 (P) (W) - 0.25] x W/30 ion 507. in the building x comply with Table comply with Table cowABLE HEI		23,000 23,000 23,000 th =(F) ries) (506.2).		
STORY NO. B 1 2 3 4 Frontage a a. Per b. To c. Ra d. W e. Per Unlimited Maximum The maxin Frontage	USE Business (B) Business (B) Business (B) Business (B) Business (B) Business (B) Business (B) area increases from Sectimeter which fronts a tal Building Perimeter tio (F/P) = = Minimum width of recent of frontage increase area applicable under n Building Area = tota mum area of open par increase is based on the Height in Feet (Table 50)	940 7,555 6,730 6,730 4,379 ection 506.3 are compublic way or oper	23,000 23,000 23,000 23,000 23,000 nputed thus: a space having 20 (P) (W) - 0.25] x W/30 ion 507. in the building x comply with Table COWABLE HEI OWABLE BLE 503) 55'		23,000 23,000 23,000 th =(F) ries) (506.2).		

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

FIRE PROTECTION REQUIREMENTS

BUILDING ELE

BUILDING ELEMENT	FIRE	RATING		DETAIL #	DESIGN #	DESIGN # FOR	DESIGN #	
	SEPARATION	REQ'D	PROVIDED	AND SHEFT #	FOR	RATED	FOR	
	(FEET)		REDUCTION)	SHEET #	ASSEMBLY	TENEIRAHON	JOINT	
Structural Frame,								
including columns, girders, trusses		0	0	N/A	N/A	N/A	N/A	
Bearing Walls		0	0	N/A	N/A	N/A	N/A	
Exterior		0	0	N/A	N/A	N/A	N/A	
North	> 30	0	0	N/A	N/A	N/A	N/A	
East	> 30	0	0	N/A	N/A	N/A	N/A	
West	> 15	1	1	N/A	N/A	N/A	N/A	
South	> 30	0	0	N/A	N/A	N/A	N/A	
Interior		0	0	N/A	N/A	N/A	N/A	
Nonbearing Walls and Partitions		0	0	N/A	N/A	N/A	N/A	
Exterior walls								
North	> 30	0	0	N/A	N/A	N/A	N/#	
East	> 30	0	0	N/A	N/A	N/A	N//	
West	> 30	0	0	N/A	N/A	N/A	N//	
South	> 30	0	0	N/A	N/A	N/A	N//	
Interior walls and partitions		0	0	N/A	N/A	N/A	N/#	
Floor Construction Including supporting beams and joists		0	0	N/A	N/A	N/A	N/#	
Floor Ceiling Assembly		0	0	N/A	N/A	N/A	N/A	
Column Supporting Floors		0	0	N/A	N/A	N/A	N/A	
Roof Construction, including supporting beams and joists		0	0	N/A	N/A	N/A	N/A	
Roof Ceiling Assembly		0	0	N/A	N/A	N/A	N/A	
Column Supporting Roof		0	0	N/A	N/A	N/A	N/A	
Shaft Enclosures - Exit		1	1* EXISTING	EXISTING	EXISTING	N/A	N/A	
Shaft Enclosures - Other		0	0	N/A	N/A	N/A	N/A	
Corridor Separation		0	0	N/A	N/A	N/A	N//	
Occupancy/Fire Barrier Separation		0	0	N/A	N/A	N/A	N//	
Party/Fire Wall Separation		0	0	N/A	N/A	N/A	N/A	
Smoke Barrier Separation		0	0	N/A	N/A	N/A	N/#	
Smoke Partition		0	0	N/A	N/A	N/A	N/#	
Tenant/Dwelling Unit/ Sleeping Unit Separation		0	0	N/A	N/A	N/A	N/#	
Incidental Use Separation		N/A	0	N/A	N/A	N/A	N/A	

	PERCENTAGE OF WALL	OPENING CALCULATIO	DNS
FIRE SEPARATION DISTANCE (FEET FROM PERPERTY LINES	DEGREES OF OPENINGS PROTECTION (TABLE 705.8)	ALLOWABLE AREA (%)	ACTUAL SHOWN ON PLANS (%)
19.3' (West & East)	UP, NS	25%	7%
>30' (North & South)	UP, NS	No Limit	-

LIFE SAFETY SYSTEM REQUIREMENTS

Emergency Lighting: Exit Signs: Fire Alarm: Smoke Detection Systems: No X Yes **EXISTING** No X Yes No X Yes 🗌 No 🗶 Yes 🗌 Partial _____

Carbon Monoxide Detection: 🗌 No 🗌 Yes

LIFE SAFETY PLAN REQUIREMENTS

Life Safety Plan Sheet #: ______A002____ X 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) Occupancy types for each area as it relates to occupant load calculation (Table 1004.1.2)

Occupant loads for each area Exit access travel distances (1017)

Common path of travel distances (1006.2.1 & 2006.3.2(1)) Dead end lengths (1020.4)

Clear exit widths for each exit door

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

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

A separate benchade plan indecading where the indea indea compare the particulate is provide occupancy separation and supporting construction for a fire barrier/fire partition/smoke barrier.
 X Location of doors with panic hardware (1010.1.10) *SEE A600 /1
 Location of doors with delayed egress locks and the amount of delay (1010.1.9.7)

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

Location of emergency escape windows (1030) The square footage of each fire area (202)

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

Section/Table/Note

LOT OR PARKI

AREA

ACCESSIBLE DWELLING UNITS (SECTION 1107) TOTALACCESSIBLEACCESSIBLEUNITSUNITSUNITSREQUIREDPROVIDED
 TYPE A
 TYPE B
 TYPE B
 TOTAL

 UNITS
 UNITS
 UNITS
 ACCESSIBLE UNITS
 PROVIDED PROVIDED PROVIDED

> ACCESSIBLE PARKING (SECTION 1106)

	(SECTION 1106)									
1G	TOTAL # REQUIRI	OF PARKI	NG SPACES PROVIDED	# REGULAR V 5' ACCES A ISLE	OF ACCE VITH SS	SSIBLE SPAC VAN 132" ACCE AISLE	ES PROVIDE SPACES W	ED FFH S' ACCESS AISLE	TOTAL ; ACCESSIB PROVIDE	# SLE SD
	PLUMBING FIXTURE REQUIREMENTS (TABLE 2902.1) **EXISTING**									
	W	ATERCLO	SETS	URINALS		LAVATORIE	S	SHOWERS	DRINKING	FOUNTAINS
	MALE	FEMALE	UNISEX		MALE	FEMALE	UNISEX	/ 1085	REGULAR	ACCESSIBLE

- 2 3 3 - -

SPECIAL APPROVALS

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

ENERGY SUMMAR ENERGY REQUIREMENTS: The following data shall be considered minimum and any special attribut Conservation Code shall also be provided. Each Designer shall furnish the plan data sheet. If performance method, state the annual energy cost for cost for the proposed design. Existing building envelope complies with code: 🗌 No 🗌 Yes Exempt Building: No Yes (Provide Code or Statutory reference) Climate Zone: 3A 4A 5A Method of Compliance: Energy Code Derformance ASHRAE 90.1 🗌 Performance (If "Other" specify source here) _ THERMAL ENVELOPE (Prescriptive method only) **Roof/ceiling Assembly** (each assembly) Description of assembly: _____ U-Value of total assembly: R-Value of insulation: Skylights in each assembly: U-Value of skylight: _____ Total square footage of skylights in each assembly: Exterior Walls (each assembly) Description of assembly: _____ U-Value of total assembly: R-Value of insulation: Openings (windows or doors with glazing) U-Value of assembly: _____ Solar heat gain coefficient: Projection factor: _____ Door R-Values: _____ Walls below grade (each assembly) Description of assembly: U-Value of total assembly: R-Value of insulation: Floors over unconditioned space (each assembly) Description of assembly: _____ U-Value of total assembly: R-Value of insulation: Floors slab on grade Description of assembly:

U-Value of total assembly: R-Value of insulation: Horizontal/Vertical requirement: Slab Heated: _____

BUILDING CODE (PROVI	2018 APPENDIX B C SUMMARY FOR ALL COMMERCIA STRUCTURAL DESIGN DE ON THE STRUCTURAL SHEETS IF APPLICAB
DESIGN LOADS:	**EXIS
Importance Factors:	Snow (Is) Seismic (IE)
Live Loads:	RoofpsfMezzaninepsfFloorpsf
Ground Snow Load:	psf
Wind Load: Ult Exp	imate Wind Speed mph (ASCE-7)
SEISMIC DESIGN CATEGORY	<i>C</i> : □ A □ B □ C □ D
Provide the following Seismic Des	ign Parameters:
Risk Category (Table 16	$(14.5) \qquad \square I \qquad \square II \qquad \square III \qquad \square IV$
Spectral Response Accel	eration S_8 %g S_1 %g
Site Classification (ASCI	$(E 7) \qquad \square A \square B \square C \square D \square E \square$
Data 3 Basic structural system	Source: I Field Test I Presumptive I Historic Bearing Wall I Dual w/Special Mome Building Frame Dual w/Intermediate R Moment Frame Inverted Pendulum
Analysis Procedure:	Simplified X Equivalent Lateral For
Architectural, Mechanic	al, Components anchored? X Yes 🗌 No
LATERAL DESIGN CONTROL	Earthquake X Wind \Box *2002 CODE
SOIL BEARING CAPACITIES: Field Test (provide copy of Presumptive Bearing capa Pile size, type, and capaci	of test report) psf *2002 CODE city psf ty

	2018 APPENDIX
BUILDI	NG CODE SUMMARY FOR ALL
	MECHANICAL DESI
	(PROVIDE ON THE MECHANICL SHE
	MECHANICAL SUMM
MECHANICAL S	SYSTEMS, SERVICE SYSTEMS AND EQUIPME
Thermal	Zone
v	vinter dry bulb:
s	ummer dry bulb:
Interior d	lesign conditions
v s r	vinter dry bulb: ummer dry bulb: elative humidity:

Building heating load:	
Building cooling load:	
Mechanical Spacing Conditionin Unitary description of unit: heating efficiency: cooling efficiency: size external of unit:	g System
Boiler	



List equipment efficiencies:

2018 NC Administrative Code and Policies

		2018 APPENDIX B	
RY	**EXISTING**	BUILDING CODE SUMMARY FOR ALL COMMER	CIAL PROJECTS
		ELECTRICAL DESIGN	
ite requi	red to meet the North Carolina Energy	(PROVIDE ON THE ELECTRICAL SHEETS IF APPLIC	ABLE)
for the s	standard reference design vs annual energy	ELECTRICAL SUMMARY	**EXISTING**
		ELECTRICAL SYSTEM AND EQUIPMENT	
(The rema):	ainder of this section is not applicable)	Method of Compliance: Energy Code:PrescriptivePerformanceASHRAE 90.1:PrescriptivePerformance	
		Lighting schedule (each fixture type)	
	Prescriptive Prescriptive	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 s total exterior wattage specified vs. allowed	space)
		Additional Efficiency Package Options (When using the 2018 NCECC: not required for ASHPAE 90.1)	
		\Box C406.2 More Efficient Mechanical Equipment	
		C406.3 Reduced Lighting Power Density	
		\Box C406.5 On-Site Renewable Energy	
		C406.6 Dedicated Outdoor Air System	
		C406.7 Reduced Energy Use in Service Water Heating	

2018 NC Administrative Code and Policies

Appendix B for Building

IX B

L COMMERCIAL PROJECTS SIGN

HEETS IF APPLICABLE) **EXISTING**

□ C □ D 🗌 IV **X** D **E F** *2002 CODE Presumptive 🗌 Historical Data Dual w/Special Moment Frame Dual w/Intermediate R/C or Special Steel Inverted Pendulum] Equivalent Lateral Force 🔲 Dynamic *2002 CODE X Yes 🗌 No

_ psf *2002 CODE

IX B L COMMERCIAL PROJECTS SIGN

IEETS IF APPLICABLE) IMARY MENT

EXISTING

Appendix B for Building



PLUMBING FIXTURE COUNT:	REQUIRED
TOTAL OCCUPANTS: 76 M: 38 W: 38	WC (MALES) = $1.52 = 2$ WC (FEMALES) = $.1.52 = 2$ WC (UNISEX) = 0 TOTAL WC REQUIRED: 4
PER NC STATE BUILDING CODE TABLE 2902.1 B OCCUPANCY	LAV (MALES) = .95 = 1 LAV (FEMALES) = .95 = 1 LAV (UNISEX) = 0
B BUSINESS: 76 TOTAL (38 MALE/ 38 FEMALE) MALES = WC: 1 PER 25 1ST 50 (1.52) FEMALES = WC: 1 PER 25 1ST 50 (1.52) MALES = LAV: 1 PER 40 1ST 80 (.95) FEMALES = LAV: 1 PER 40 1ST 80 (.95) DRINKING FOUNTAIN = 1 PER 100 (0.76) 1 SERVICE SINK	SHOWERS = 0 DRINKING FOUNTAINS = .76 = 1 SERVICE SINK = 1
	PROVIDED: WC (MALES) = 2 URINALS (MALES) = 2 WC (FEMALES) = 4 WC (UNISEX) = 0
	LAV (MALES) = 3 LAV (FEMALES) = 3 LAV (UNISEX) = 0
	SHOWERS/TUBS = 0 DRINKING FOUNTAINS = 2 SERVICE SINK = 1







	GENERAL DEMOLITION NOTES
1.	REFER TO, STRUCTURAL, PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS FOR FULL SCOPE OF DEMOLITION WORK. COORDINATE ALL DEMOLITION WITH FINAL DESIGN. THE CONTRACTOR WILL BE RESPONSIBLE TO DETERMINE IF OTHER ITEMS WILL NEED TO BE REMOVED OR MODIFIED TO COMPLETE THE NEW WORK.
2.	DASHED LINES & HATCHED AREAS ON DEMOLITION DRAWINGS INDICATE ITEMS TO BE REMOVED.
3.	OWNER RESERVES THE RIGHT OF REFUSAL ON ALL PRODUCTS BEING REMOVED. CONTRACTOR TO DISPOSE OF ALL PRODUCTS REFUSED.
4.	ITEMS INDICATED TO BE REMOVED (AND NOT SAVED) SHALL BE RECYCLED TO THE GREATEST EXTENT POSSIBLE. ITEMS THAT CANNOT BE RECYCLED SHALL BE DISPOSED OF OFF SITE AS REQUIRED BY LOCAL, STATE, AND FEDERAL LAWS. ALL MATERIAL REMOVED SHALL BE DOCUMENTED.
5.	THE CONTRACTOR SHALL OBTAIN NECESSARY DEMOLITION PERMITS PRIOR TO ANY DEMOLITION.
6.	THE CONTRACTOR SHALL NOTIFY ALL PERTINENT UTILITY COMPANIES NO LESS THAN 72 HOURS PRIOR TO ANY DEMOLITION WORK.
7.	NO HAZARDOUS MATERIAL IS KNOWN TO BE PRESENT IN THE JOB SITE. IF HAZARDOUS MATERIAL IS ENCOUNTERED, CONTRACTOR SHALL IMMEDIATELY CEASE THE WORK IN THE AREA, SECURE THE INVOLVED AREA TO PREVENT INADVERTENT CONTAMINATION OR EXPOSURE AND NOTIFY THE DESIGNER AND OWNER.
8.	OTHER THAN WITHIN ALTERATION AREAS, CONTRACTOR TO PERFORM ANY AND ALL WORK AFFECTING EGRESS FOR THE BUILDING AFTER OCCUPIABLE HOURS. CONTRACTOR SHALL COORDINATE SCHEDULING OF SUCH WORK WITH OWNER.
9.	CONTRACTOR SHALL PROTECT EXISTING CONSTRUCTION WHICH IS TO REMAIN OR INDICATED TO BE SALVAGED. ANY DAMAGE WITHIN THE LIMITS OF CONSTRUCTION MUST BE REPAIRED AS DESCRIBED IN THE DOCUMENTS. NOTIFY ARCHITECT IMMEDIATELY OF ANY SIGNIFICANT EXISTING DAMAGE.
10.	CONTRACTOR IS RESPONSIBLE FOR DUST CONTROL OF THE DEMOLITION AREA.
11.	CONTRACTOR TO DISCONNECT ANY EQUIPMENT REMAINING IN DEMOLITION AREA & TURN OVER TO OWNER.
12.	PROVIDE INTERIOR AND EXTERIOR SHORING, BRACING, OR SUPPORT AS NECESSARY TO PREVENT MOVEMENT, SETTLEMENT, OR DAMAGE TO STRUCTURES TO BE DEMOLISHED AND ADJACENT FACILITIES TO REMAIN. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL METHODS OF STABILIZATION OF THE EXISTING AND ADJACENT STRUCTURES DURING AND AFTER DEMOLITION OF THE BUILDING, INCLUDING ANY ADDITIONAL BRACING NOT SPECIFICALLY INDICATED ON THE DRAWINGS, AS REQUIRED BY CONDITIONS IN THE FIELD.
13.	EXISTING WALLS AND CONSTRUCTION SHALL BE REMOVED IN THEIR ENTIRETY TO EXTENT INDICATED ON THE DRAWINGS AND AS REQUIRED TO ACCOMMODATE NEW CONSTRUCTION. WHERE WALLS AND PARTITIONS ARE INDICATED TO BE DEMOLISHED, REMOVE ALL FRAMING, SUB-FRAMING, INSULATION, SUBSTRATE, WALL BOARD, PANELING AND TRIM AS APPLICABLE. EXISTING WALLS (OR PORTIONS OF WALLS) TO BE REMOVED SHALL BE CUT FLUSH WHERE INTERSECTED WITH WALLS TO REMAIN. REMAINING WALLS TO BE PATCHED AND FINISHED SMOOTH. NEW OPENINGS TO BE CUT IN EXISTING WALLS SHALL BE SAW-CUT AT LOCATIONS INDICATED, TO THE HEIGHT AND WIDTH INDICATED, AND SMOOTHED/PATCHED AS NECESSARY FOR INSTALLATION OF FRAMES. NEW LINTELS SHALL BE INSTALLED TO SUPPORT EXISTING WALL CONSTRUCTION ABOVE AS INDICATED ON THE DRAWINGS, OR IF NOT INDICATED, AS REQUIRED FOR NEW WALL CONSTRUCTION PER STRUCTURAL DRAWINGS.
14.	CONTRACTOR TO DISCONNECT ANY EQUIPMENT REMAINING IN DEMOLITION AREA & TURN OVER TO OWNER.
15.	REMOVE MECHANICAL, ELECTRICAL, AND PLUMBING FIXTURES, EQUIPMENT, AND DISTRIBUTION SYSTEMS TO THE EXTENT INDICATED AND AS REQUIRED TO ACCOMMODATE NEW CONSTRUCTION. CAP AND/OR RECONNECT ANY UTILITIES SERVING OTHER PORTIONS OF THE BUILDING OR ADJACENT PROPERTIES ACCORDING TO THE METHODS REQUIRED BY THE APPROPRIATE UTILITY AUTHORITY AND/OR AS INDICATED ON THE DRAWINGS.
16.	PATCHING IS REQUIRED WHERE DEMOLITION OF ARCHITECTURAL, PLUMBING, MECHANICAL, ELECTRICAL, AND STRUCTURAL SYSTEMS LEAVES HOLES, VOIDS, OR UNFINISHED CONDITIONS AT FINISHED WALLS, FLOORS, AND CEILINGS. FILL ALL EXISTING CONCRETE FLOOR AND CONCRETE WALL PENETRATIONS RESULTING FROM PIPING AND CONDUIT REMOVAL WITH NON-SHRINK GROUT, READY TO RECEIVE FINAL FLOOR OR WALL FINISH.
17.	REPAIR EXISTING CONCRETE FLOOR SLABS AND PATCH, LEVEL AND REPAIR FLOOR SLABS AS REQUIRED FOR INSTALLATION OF NEW FLOORING. WHERE EXISTING CMU WALLS HAVE BEEN REMOVED, GRIND EDGES OF DEPRESSIONS AS NECESSARY TO PRODUCE A SMOOTH TRANSITION BETWEEN EXISTING SLABS AND NEW INFILL.
18.	PATCH AND REPAIR EXISTING SLAB. FOR CRACKS OTHER THAN THOSE DETERMINED TO BE HAIRLINE CRACKS (0.01 INCH), SAW CUT THE FULL LENGTH TO RECEIVE CAULK. FILL W/BACKER ROD & SILICONE SEALANT.
19.	CLEAN AND PATCH ALL REMAINING WALL, FLOOR AND CEILING SURFACES DAMAGED BY DEMOLITION TO A CONDITION REQUIRED TO RECEIVE NEW CONSTRUCTION, OR IF TO REMAIN EXPOSED, TO A CONDITION COMPARABLE TO NEW CONSTRUCTION. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO: TOOTHING IN NEW CONCRETE MASONRY TO REPLACE EXPOSED UNITS DAMAGED BEYOND REPAIR BY DEMOLITION; LEVELING (OR TAPERING) FLOOR SURFACE BETWEEN EXISTING FLOOR FINISH AT LOCATIONS WALLS ARE REMOVED; AND PATCHING SMOOTH AREAS OF EXPOSED CONCRETE MASONRY STRUCTURE DAMAGED BY REMOVAL OF ADJACENT CONSTRUCTION.
20.	CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF ALL EXTRANEOUS HANGERS, CONDUITS, AND OTHER ITEMS THAT HAVE BEEN ABANDONED.
21.	REMOVE AND SALVAGE ANY EXISTING WALL MOUNTED LETTERING AND SIGNAGE UNLESS NOTED OTHERWISE. RETURN TO OWNER.
22.	CONTRACTOR TO USE GROUND PENETRATING RADAR PRIOR TO CUTTING THE FLOOR SLAB TO IDENTIFY POTENTIAL HAZARDS OR UNFORESEEN UTILITIES
23	REMOVE EXISTING CEILING PANELS, CEILING GRIDS & SOFFITS IN ALL AREAS EXCEPT WHERE NO DEMOLITION
24	REMOVE EXISTING FLOOR FINISHES IN ALL AREAS EXCEPT WHERE NO DEMOLITION OCCURS & WHERE INDICATED
	TO REMAIN.
	KEYED DEMO NOTES:
	1 REMOVE EXISTING SIGNAGE & TURN OVER TO OWNER. REPAIR WALLS AS REQUIRED FOR NEW PAINT.
	2 REMOVE LIMESTONE PANEL & 8" CMU BACKUP INFILL AT EXISTING EXTERIOR OPENING FOR INSTALLATION OF NEW WINDOWS. REMOVE RUST FROM EXISTING LINTELS & RE-PAINT TO MATCH MATERIAL ABOVE.
	3 REMOVE EXISTING FIXTURES & PLUMBING.

- REMOVE EXISTING DOOR & FRAME; SAVE FOR RE-USE. TURN OVER ANY UNUSED DOORS TO OWNER. 4
- REMOVE EXISTING DOOR & FRAME; SAVE DOOR FOR RE-USE. TURN OVER ANY UNUSED DOORS & FRAMES TO (5) OWNER.
- REMOVE WINDOW & WALL BELOW TO FLOOR. (6)
- REMOVE EXISTING CABINETS & COUNTERTOPS.
- REMOVE LOCKERS & TURN OVER TO OWNER. (8)
- REMOVE PORTION OF WALL FOR NEW OPENING. SEE STRUCTURAL DRAWINGS FOR NEW LINTEL. (9)





TRUE NORTH



GENERAL SHEET NOTES

- 1. ALL ARCHITECTURAL COMPONENTS ARE TO BE ATTACHED AS REQUIRED BY ASCE 7-05 CHAPTER 13 SEISMIC DESIGN FOR NONSTRUCTURAL COMPONENTS. EACH INDIVIDUAL CONTRACTOR RESPONSIBLE FOR THE COMPONENT MUST PROVIDE PROJECT SPECIFIC DESIGN AND DOCUMENTATION PREPARED BY A LICENSED ENGINEER. CHAPTER 13 DEFINES THE FORCE REQUIRED TO SUPPORT THE COMPONENT FOR THE ANCHORAGE AND BRACING. THE COST OF PREPARING THIS INFORMATION AND DESIGN SHALL BE INCLUDED IN EACH CONTRACTOR'S BID PROVIDING THE COMPONENT.
- 2. FIELD VERIFY ALL CONDITIONS. GENERAL CONTRACTOR MUST NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO START OF WORK AFFECTED BY SUCH DISCREPANCY.
- 3. DO NOT SCALE DRAWINGS. IF DIMENSIONS ARE IN QUESTION, OBTAIN CLARIFICATION FROM ARCHITECT.
- 4. PROVIDE BLOCKING WITHIN STUD WALLS AS REQUIRED FOR SUPPORT OF CABINETS, SHELVING, WALL STOPS, COUNTERTOPS, MARKERBOARDS, TACKBOARDS, AV EQUIPMENT AND SIMILAR.
- 5. ALL INTERIOR DIMENSIONS ARE TO FACE OF STUD OR CENTER OF COLUMN U.N.O. CLEAR DIMENSIONS ARE FROM FINISH FACE TO FINISH FACE.
- 6. SEE A600 FOR WINDOW TYPES AND OTHER DETAILS.
- 7 SEE A101 FOR WALL TYPES, INTERIOR DIMENSIONS, AND OTHER INFORMATION NOT SHOWN ON THIS PLAN.
- 8 CAREFULLY REVIEW PLANS AND COORDINATE ALL ELECTRICAL AND PLUMBING WORK WITHIN CMU WALLS. ALL CONDUIT WHERE CMU IS VISIBLE SHALL BE WITHIN THE CMU WALLS. SURFACE MOUNTED CONDUIT WILL BE ACCEPTED ONLY WHERE NOT VISIBLE AND COVERED UP BY OTHER FINISHES.
- 9 COORDINATE AND ALIGN ALL FINISH FACES OF WALLS SO THAT THEY CAN ALIGN CONTRACTOR SHOULD ACCOUNT FOR EXTRA LAYERS OF GWB, STUD SIZE, & FURRING
- 10 DURING CONSTRUCTION ALL REQUIREMENTS OF CHAPTER 14 OF THE NCFPC MUST BE MET.
- 11 PORTABLE FIRE EXTINGUISHERS ARE REQUIRED ON SITE DURING CONSTRUCTION.
- 12 ALL FIRE RATED CONSTRUCTION SHALL COMPLY WITH THE NCSBC & CHAPTER 7 OF THE NCFPC.
- 13 WRAP ALL COLUMNS WITH 1/2" GWB WHERE VISIBLE. WRAP METAL FURRING/FRAMING AND GWB AROUND COLUMN AS TIGHT AS POSSIBLE.
- 14 FEC= FIRE EXTINGUISHER CABINET. SEE SPECIFICATIONS. INSTALL SO HANDLE IS 40" 48" AFF BUT TOP OF CABINET DOES NOT EXCEED 60" AFF. COORDINATE / VERIFY WITH AUTHORITY HAVING JURISDICTION.
- 15 AC= ACCESS CONTROL LOCATION SEE A600 & ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION
- 16 ALL NOTES ARE TYPICAL UNLESS NOTED OTHERWISE.
- 17 GC TO INSTALL 18" VERTICAL GRAB BAR EQUAL TO BOBRICK B6806-18 @ 48" AFF TO CENTERLINE. FINISH TO MATCH EXISTING GRAB BARS.
- 18 VERIFY FINAL LOCATIONS OF ITEMS NOT IN CONTRACT(NIC) & OWNER FURNISHED (OFCI) WITH OWNER.
- 19 FREE-STANDING ACOUSTICAL PANEL PARTITION- SEE A700 SERIES FOR ADDITIONAL INFORMATION.
- 20 NEW DIGITAL SIGNS ABOVE EACH CUSTOMER SERVICE WINDOW -SEE ELECTRICAL DRAWINGS.









1.	ALL THRESHOLDS TO BE ADA COMPLIANT: THE FINISHED FLOOR ELEVATION ON BOTH SIDES OF A DOOR SHALL NOT BE MORE THAN 1/2" LOWER THAN THE THRESHOLD OF THE DOORWAY.
2.	SEE STRUCTURAL DRAWINGS FOR REINFORCING AT DOOR HEADS.
3.	FILL JAMB AND HEADER STUDS W/ INSULATION (TYP. IN WALLS SCHEDULED TO RECEIVE INSULATION).

4.	MAXIMUM DOOR OPENING EFFORTS (2018 NCSBC SECTION 1010.1.3)
	1. A 5 LB. FORCE SHALL OPEN INTERIOR SWINGING EGRESS DOORS (OTHER THAN FIRE DOORS)
	2. A 15 LB. FORCE SHALL RELEASE A LATCH
	3. A 30 LB. FORCE SHALL SET DOOR IN MOTION
	4. A 15 LB. FORCE SHALL SWING DOOR FULLY OPEN

$ \frac{1}{105} \text{ACCOUNTANT} 1 2 3 0 7 0 1 3 0 7 0 1 3 0 7 0 1 3 0 7 0 1 3 0 7 0 1 3 0 0 0 0 0 0 0 0 0$	# 2000 102 105 106 107
$ \frac{1}{105} \text{ ACCOUNTANT} + \frac{1}{2} $ 2 $ $ 3 $ 0 $ $ $ $ $ $ $ $ $ $ $ $ $ $ $$	# 2000 102 105 106 107
# # NO Image: No Ima	# 2000 102 105 106 107
# WOOSOLEIII </th <th># 2000 102 105 106 107</th>	# 2000 102 105 106 107
102 STOR. - 1 3' - 0" 7' - 0" 1 3/4" STAINED S.C. WOOD A HM P-1 H1 J1 - No No No 4.0 1,2 105 ACCOUNTANT - 2 3' - 0" 7' - 0" 1 3/4" PRE-FINISHED ALUM./GLASS * * SEE A700 - - No No No 7.0 *3	102 105 106
105 ACCOUNTANT - 2 3'-0" 7'-0" 13/4" PRE-FINISHED ALUM./GLASS * * SEE A700 No No No 7.0 *3	105 106
	106
106 ACCOUNTANT - 2 3'-0" 7'-0" 13/4" PRE-FINISHED ALUM./GLASS * * SEE A700 No No No 7.0 *3	107
107 ACCOUNTANT - 2 3'-0" 7'-0" 13/4" PRE-FINISHED ALUM./GLASS * * SEE A700 No No No No 7.0 *3	107
108 ASSISTANT FINANCIAL DIRECTOR - 2 3'-0" 7'-0" 13/4" PRE-FINISHED ALUM./GLASS * * SEE A700 No No No No 7.0 *3	108
111 JANITOR - 1 3'-0" 7'-0" 13/4" STAINED S.C. WOOD A HM P-1 H1 J1 YES Yes No No 6.0 1,2,5	111
112 CORRIDOR - 1 3'-0" 7'-0" 13/4" STAINED S.C. WOOD A HM P-1 H1 J1 - Yes Yes No 2.0 1, 2, 4, 5	112
117 SECURE COUNTING & STORAGE - 1 3'-0" 7'-0" 13/4" STAINED S.C. WOOD A HM P-1 H1 J1 - Yes No No 5.0 1, 2, 6	117
118 ACCOUNTANT - 2 3'-0" 7'-0" 13/4" PRE-FINISHED ALUM./GLASS * * SEE A700 No No No 7.0 *3	118
119 ACCOUNTANT - 2 3'-0" 7'-0" 13/4" PRE-FINISHED ALUM./GLASS * * SEE A700 No No No No 7.0 *3	119
120 OFFICE - 2 3'-0" 7'-0" 13/4" PRE-FINISHED ALUM./GLASS * * SEE A700 No No No 7.0 *3	120
121 BILLING OFFICE - 2 3'-0" 7'-0" 13/4" PRE-FINISHED ALUM./GLASS * * SEE A700 No No No No 7.0 *3	121
122 BREAK ROOM - 2 3'-0" 7'-0" 13/4" PRE-FINISHED ALUM./GLASS * * SEE A700 No No No No 7.0 *3	122
123 STORAGE - 1 3'-0" 7'-0" 13/4" STAINED S.C. WOOD A HM P-1 H1 J1 - No No No 4.0 1, 2	123
124 FINANCIAL DIRECTOR - 2 3'-0" 7'-0" 13/4" PRE-FINISHED ALUM./GLASS * * SEE A700 No No No 7.0 *3	124
125 CUSTOMER SERVICE SUPERVISOR - 2 3'-0" 7'-0" 13/4" PRE-FINISHED ALUM./GLASS * * SEE A700 No No No No 7.0 *3	125
126 ANALYST - 2 3'-0" 7'-0" 13/4" PRE-FINISHED ALUM./GLASS * * SEE A700 No No No 7.0 *3	126
127 ANALYST - 2 3'-0" 7'-0" 13/4" PRE-FINISHED ALUM./GLASS * * SEE A700 No No No 7.0 *3	127
128 CUSTOMER SERVICE - 2 3'-0" 7'-0" 13/4" PRE-FINISHED ALUM./GLASS * * SEE A700 Yes Yes No 7.0 *3,4,5	128
129 CORRIDOR - 1 3'-0" 7'-0" 13/4" STAINED S.C. WOOD A HM P-1 H1 J1 - Yes Yes No 2.0 1,2,4,5	129
130 CONFERENCE ROOM - 2 3'-0" 7'-0" 13/4" PRE-FINISHED ALUM./GLASS * * SEE A700 No No No No 7.0 *3	130
134 OFFICE - 1 3'-0" 7'-0" 13/4" STAINED S.C. WOOD A HM P-1 Yes No No 3.0 1, 2, 4, 6	134
EX 125 CUSTOMER SERVICE SUPERVISOR - 1A - P-1 INTERIOR ONLY - A1 - P-1 - P	EX 125
EX 132 IT - 1A - STAINED - A1 - P-1 8.0 4, EXISTING DOOR & FRAME	EX 132
EX SB STAIR B - 1A - STAINED - A1 - P-1 - - - 8.0 4, EXISTING DOOR & FRAME	EX SB

FINISH							
CODE	MANUFACTURER	PRODUCT NAME	PRODUCT NUMBER	COLOR	SIZE / WIDTH	DESCRIPTION	REMARKS
BASE		1					
B-1	TARKETT	TRADITIONAL RUBBER BASE	TSB 63 4 TOE	63 BURNT UMBER	4" H	COVED	
B-2	TARKETT	MILLWORK-REVEAL	MW 63 F	63 BURNT UMBER	4 1/4" H	PROFILE RUBBER BASE	MITER ALL CORERS
B-3	FLORIDA TILE	SEQUENCE	P43N9	BREEZE	3"H x 24"L, 9MM	PORCELAIN TILE BULLNOSE BASE	GR-1, USE WITH TR-5 & TR-6, 1/8" GROUT JOINT, 1/A700
FLOORI	NG						
CPT-1	MANNINGTON	RIDGELINE	10901	CREST	12"W X 48"L	CARPET - TILE	1/3 OFFSET BRICK, 3 STEP ASHLAR
LV-1	JJ CONTRACT	TATAMI V5003	1018	КҮОТО	18"W X 36"L, 5MM	LUXURY VINYL - TILE, 20 MIL ENHANCED UV URETHANE W/CERAMIC BEAD, ZPT ZINC COATING	1/3 OFFSET BRICK
PT-1	FLORIDA TILE	SEQUENCE	34901	BREEZE	24"W x 48"L, 9MM	PORCELAIN TILE	1/3 OFFSET BRICK, GR-1, 3/16" JOINT
SC-1	-	SEALED CONCRETE	CONTRACTOR'S CHOICE	CLEAR			
WALLS		- [1	1		1
P-1	SHERWIN WILLIAMS		SW 6991	BLACK MAGIC	SEMI-GLOSS	TRIM AND HANDRAIL PAINT	-
P-2	SHERWIN WILLIAMS	STANDARD PAINT	SW 7636	ORIGAMI WHITE	EG SHEL	STANDARD WALL PAINT	SEE FINISH SCHEDULE FOR EPOXY LOCATIONS
P-3	SHERWIN WILLIAMS	ACCENT PAINT	SW 0068	COPEN BLUE	EG SHEL	ACCENT WALL & CEILING PAINT	SEE FINISH SCHEDULE FOR EPOXY LOCATIONS CEILING PAINT & SOFFIT TO BE FLAT PAINT FINISH
P-4	SHERWIN WILLIAMS	ACCENT PAINT	SW 6219	RAIN	EG SHEL	ACCENT WALL & CEILING PAINT	
P-5	SHERWIN WILLIAMS	STANDARD PAINT	SW 7006	EXTRA WHITE	FLAT	ACCENT WALL & CEILING PAINT	-
WT-1	FLORIDA TILE	EMOTIVE - LISTELLO	FTIEMV1GL3X12	ASTONISHED WHITE GLOSSY	3"H x 12"L, TEXTURED, 8.5MM	WALL TILE	GR-2, 3/16" GROUT JOINT
SURFAC	ES						
PL-1	WILSONART	PLASTIC LAMINATE	4942-98	CRISP LINEN	FINE VELVET FINISH	COUNTER TOPS	-
PL-2	WILSONART	PLASTIC LAMINATE	7965K-12	WALNUT HEIGHTS	SOFT GRAIN FINISH	CABINET VERTICAL SURFACES	-
PL-3	WILSONART	PLASTIC LAMINATE	D92-60	DOVE GREY	MATTE FINISH	UPPER CABINET VERTICAL SURFACES	BREAK ROOM ONLY
QTZ-1	SILESTONE	QUARTZ	825 1110203	LYRA	GLOSS	COUNTER TOPS	-
SSF-1	WILSONART	SOLID SURFACE	9204CE	MORNING ICE	MATTE, 1/2" THICK	COUNTER TOPS	-
SSF-2	CORIAN	SOLID SURFACE	-	DEEP NOCTURNE	MATTE, 1/2"-3/4"	WINDOW SILLS	
MISCEL	LANEOUS						
AP-1	HAWORTH-BUZZIFALLS	ACOUSTICAL FREESTANDING PANEL DIVIDER	SINGLE SCREEN	PATTERN-RAIN BLACK FRAME-BTR	LIGHTBLUE -BFE-60,	ACOUSTICAL ROOM DIVIDER SCREEN WITH FRAME AND FELT PANEL	SEE A100, A101 & A900 FOR LOCATIONS
D-1	MASONITE	PREFINISHED DOOR W/STAIN	SPECIES MATCH EXISTING	SPECIES MATCH EXISTING	-		-
FLM-1	3M	BORDER - HORIZONTAL	SH2FGLS	LEISE	-	TRANSLUCENT FILM PRODUCT	SEE DEMOUNTABLE WALL PARTITION ELEVATIONS - 2/A
FRP-1	CRANE COMPOSITES	FRP PANELS SANITARY WALL	- 85	WHITE	0.090' THICK, 4'X8'	CLASS A, WITH MATCHING CAULK VERTICAL	AT ALL JANITOR SINKS, INSTALL HORIZONTALLY,
GR-1	MAPEI	KERAPOXY	09	GRAY	-	FLOOR GROUT - SANDED EPOXY	UNLESS CALLED OUT IN REMARKS OR ON FINISH PLANS
GR-2	MAPEI	KERACOLOR S	02	PEWTER	-	WALL GROUT - SANDED	-
MB-1	DEMOUNTABLE WALL	MARKER BOARD	-		-		-
MB-2	CLARIDGE	MARKER BOARD			-	-	-
TB-1	DEMOUNTABLE WALL	TACK BOARD	-	TO MATCH WALL	-	-	-
TB-2	CLARIDGE	TACK BOARD		GRAY OR FAWN			
TR-1	TARKETT	METALEDGE	178	IRONSTONE	-	TRANSITION - CARPET TO RESILIENT FLOORING	
TR-2	TARKETT	TRANSITION	EG-29-H	MOON ROCK	-	TRANSITION - CARPET/RESILENT TO CONCRETE	
TR-3	SCHLUTER	SCHIENE	E	STAINLESS STEEL 304	L-SHAPED	TRANSITION - CARPET TO TILE, TILE TO TILE	
TR-4	SCHLUTER	RENO-U	E	STAINLESS STEEL 304		TRANSITION - SLOPED EDGE, TILE TO RESILENT	
TR-5	SCHLUTER	DILEX-AHK	AE	SATIN ANODIZED ALUMINUM		TRANSITION - COVE SHAPE, FLOOR TO WALL TILE	
TR-6	SCHLUTER	SCHIENE OR JOLLY	E	STAINLESS STEEL 304	L-SHAPED	TRANSITION - CARPET TO TILE, TILE TO TILE	-
WC-1	SWF CONTRACT	TRUE PERFORMANCE	CROSSHATCH R300 SERIES	LINEN/FOG	3% OPACITY	WINDOWCOVERING - MANUAL SOLAR SHADES	SINGLE ROLLER

١N	ITERIOR FINISH GENERAL NOTES
1.	REFER TO OR REFERENCE INTERIOR SECTIONS, ELEVATIONS, DETAILS AND REFLECTED CEILING PLANS FOR ADDITIONAL INFORMATION .
2.	VERIFY LOCATION OF CONTROL JOINTS IN ROOMS RECEIVING TILE FLOORS. SEE WRITTEN SPECIFICATIONS SECTION # 09 30 00.
3.	ALL INTERIOR WALL & CEILING FINISHES SHALL COMPLY WITH <u>NCSBC CHAPTER 8, SECTION 803, TABLE 803.11</u> <u>SPRINKLERED:</u> A. INTERIOR EXIT STAIRWAYS, RAMPS AND EXIT PASSAGEWAYS: <u>CLASS B</u> B. CORRIDORS & ENCLOSURES FOR EXIT ACCESS STAIRWAYS AND RAMPS: <u>CLASS B</u> C. ROOM AND ENCLOSED SPACES <u>CLASS C</u> <u>NONSPRINKLERED:</u> A. INTERIOR EXIT STAIRWAYS, RAMPS AND EXIT PASSAGEWAYS: <u>CLASS A</u> B. CORRIDORS & ENCLOSURES FOR EXIT ACCESS STAIRWAYS AND RAMPS: <u>CLASS A</u> C. ROOM AND ENCLOSED SPACES <u>CLASS C</u>
4.	INTERIOR FLOOR FINISHES COMPLY WITH <u>NCSBC CHAPTER 8</u> , <u>SECTION 804</u>
5.	ALL INTERIOR FINISHES IN TOILET AND BATHROOMS SHALL COMPLY WITH <u>NCSBC CHAPTER 12, SECTION 1210.2, 1210.2.1</u> THROUGH 1210.2.4.
6.	REFER TO DOOR SCHEDULE (A600 SERIES) FOR DOOR & FRAME FINISHES.
7.	FOR MISCELLANEOUS INTERIOR TRIM FINISHES (WALL CAPS, RAILINGS, SILLS, ETC. SEE REMARKS COLUMN IN ROOM FINISH SCHEDULE.

ELEMENTS SUCH AS GRILLE AND LOUVER COLORS TO MATCH ADJACENT WALL OR CEILING PAINT COLOR UNLESS OTHERWISE NOTED.

					WALLS		MIL	LWORK			
					CHAI	R RAIL		CABIN	IETS		
RM NO.	NAME	FLOOR	BASE	STANDARD WALL	ACCENT WALL ABOVE	BELOW	COUNTERTOP	FRONT	TOE KICK	COMMENTS	RM NO.
100	LOBBY	PT_1	B-3	P-2			OT7-1	PI _2	B-3	WC-1 SEE A701 FOR LOCATIONS SEE A900 FOR CASEWORK ELEVATIONS AP-1 DIVIDERS	100
100	VESTIBULE	PT-1	B-3	P-2			0T7-1	PL-2	B-3	SEE CASEWORK ELEVATIONS A900	100
107	SUBLOBBY	PT-1	B-3	P-2							101
1024	STOR	PT-1	B-3	P-2							102
102/1	WOMEN	FXIS	EXIS	FXIS						CLEAN EXISTING FLOOR AND WALL THE WITH SANIGLAZE	102/(
100	MEN	EXIS.	EXIS.	EXIS						CLEAN EXISTING FLOOR AND WALL THE WITH SANIGLAZE	100
105		CPT-1	B-2	P-2	P_4					WC-1 SEE A701 FOR LOCATIONS	105
106	ACCOUNTANT	CPT-1	B-2	P-2	P-4					WC-1 SEE A701 FOR LOCATIONS	106
107		CPT-1	B-2	P-2	P-4					WC-1 SEE A701 FOR LOCATIONS	100
107	ASSISTANT FINANCIAL DIRECTOR	CPT-1	B-2	P-2	P-4					WC-1 SEE A701 FOR LOCATIONS	107
109	PRIVATE ROOM	LV-1	B-2	P-4						WC-1 SEE A701 FOR LOCATIONS	109
110	WOMEN	EXIS.	EXIS.	EXIS.						CLEAN EXISTING FLOOR AND WALL TILE WITH SANIGLAZE	110
111	JANITOR	SC-1	B-1	P-2	FRP-1					FRP-1 INSTALLED VERTICALLY ABOVE THE JANITOR SINK SEE A701	111
112	CORRIDOR	CPT-1	B-2	P-2						WC-2 SEE A701 FOR LOCATIONS	112
113	PRIVATE ROOM	LV-1	B-2	P-4							113
114	MEN	EXIS.	EXIS.	EXIS.						CLEAN EXISTING FLOOR AND WALL TILE WITH SANIGLAZE	114
115	CORRIDOR	CPT-1	B-2	P-2							115
116	SUPPLIES	CPT-1	B-1	P-2							116
117	WORKROOM	LV-1	B-2	P-2			PL-1	PL-2 / PL-3	PL-2	SEE CASEWORK ELEVATIONS A900	117
118	ACCOUNTANT	CPT-1	B-2	P-2	P-4						118
119	ACCOUNTANT	CPT-1	B-2	P-2	P-4						119
120	OFFICE	CPT-1	B-2	P-2	P-4						120
121	BILLING OFFICE	CPT-1	B-2	P-2	P-4						121
122	BREAK ROOM	LV-1	B-2	P-2	P-4, WT-1		SSF-1	PL-2 / PL-3	PL-2	ACCENT PAINT SEE A701, WT-1 BACKSPLASH SEE CASEWORK ELEVATIONS A900	122
123	STORAGE	CPT-1	B-1	P-2							123
124	FINANCIAL DIRECTOR	CPT-1	B-2	P-2	P-4					WC-1 SEE A701 FOR LOCATIONS, SSF-2 WINDOW SILLS SEE A600 WINDOW SECTIONS	124
125	CUSTOMER SERVICE SUPERVISOR	CPT-1	B-2	P-2	P-4					WC-1 SEE A701 FOR LOCATIONS	125
126	ANALYST	CPT-1	B-2	P-2	P-4						126
127	ANALYST	CPT-1	B-2	P-2	P-4						127
128	CUSTOMER SERVICE	CPT-1	B-2	P-2	P-4		QTZ-1			WC-1 SEE A701 FOR LOCATIONS	128
129	CORRIDOR	CPT-1	B-2	P-2							129
130	CONFERENCE ROOM	CPT-1	B-2	P-2	P-4						130
131	CORRIDOR	CPT-1	B-2	P-2							131
132	IT	EXIS.	EXIS.	EXIS.							132
133	BILLING SUPERVISOR	CPT-1	B-2	P-2	P-4					WC-1 SEE A701 FOR LOCATIONS	133
134	OFFICE	CPT-1	B-2	P-2	P-4					WC-1 SEE A701 FOR LOCATIONS	134
135	SECURE COUNTING & STORAGE	LV-1	B-1	P-2							135

TERIOR FINISH CODES ACOUSTICAL CEILING TILE QT QUARRY TILE ACOUSTICAL WALL CARPET QTZ QUARTZ ACOUSTICAL WALL PANEL FINISH RESINOUS COUNTER RC RUBBER FLOOR BASE RF BRICK VENEER RESIN PANEL RP COLUMN COVER SEALED CONCRETE SC CORNER GUARD SOLID SURFACE SSF CHAIR RAIL STAINLESS STEEL SS CARPET (TILES, BROADLOOM, WALKOFF) ST STAIN CURTAIN (SHOWER, STAGE) STC STAINED CONCRETE CAST STONE MASONRY SDT STATIC DISSIPATIVE TILE STR STAIR TREAD DOOR ELEVATOR FINISHES TACK BOARD ΤВ EPOXY FLOOR SYSTEM FINISH TP TOILET PARTITION TRANSITIONS (FLOOR/WALL) EPOXY WALL SYSTEM FINISH TR FIBERGLASS REINFORCED PANEL ΤZ TERRAZZO FILM PRODUCT VCT VINYL COMPOSITION TILE VET VINYL ENHANCED TILE GLASS GROUT VINYL SHEET FLOORING VS LOCKERS VINYL WALLCOVERING VWC WP LUXURY VINYL (TILE, PLANK) WALL PROTECTION MARKER BOARD/ GLASS BOARD WC WINDOW COVERING (BLINDS, SOLAR ROLLER SHADE, DRAPES) NOSING (WOOD, RUBBER, METAL) OPERABLE WALL PARTITION WT WALL TILE WPS WALL PANEL SYSTEM WFS WOOD FLOOR SYSTEM PAINT POLISHED CONCRETE PLASTIC LAMINATE

PORCELAIN TILE

- WHERE INDICATED.

adwa environments for life architecture interiors planning 2815 COLISEUM CENTRE DRIVE SUITE 500 CHARLOTTE, NORTH CAROLINA 28217 P704.379.1919 F704.379.1920 www.adwarchitects.com FIRST FLOOR **ALTERATIONS TO:** HENDERSONVILLE **CITY HALL** HENDERSONVILLE, NC FIRST FLOOR FINISH PLAN 11.21.22 DATE: 22029 PROJECT NO: REVISIONS NO: DATE: DESCRIPTION: THIS DRAWING IS THE PROPERTY OF ADW ARCHITECTS, P.A. AND SHALL NOT BE REPRODUCED OR COPIED IN WHOLE OR PART. IT SHALL NOT BE USED ON ANY OTHER PROJECT OR GIVEN TO ANY OTHER COMPANY OR AGENCY WITHOUT THE CONSENT OF ADW ARCHITECTS, P.A. SHEET NUMBER

REFLEC	TED CEILING PLAN SYMBOL LEGEND:	GENERAL NOTES:
1 9'-4"	CEILING TYPE CEILING HEIGHT-FROM FINISH FLOOR (UNO)	 1.) ALL CEILING HEIGHTS ARE RELATIVE TO FINISH FLOOR ELEVATION IN THAT ROOM U.N.O. 2.) SEE ELECTRICAL DRAWINGS FOR LOCATION OF
	2' x 4' LIGHT FIXTURE	ALL EMERGENCY LIGHTS, NIGHT LIGHTS, EXIT SIGNS, HORNS, STROBES, & PULL STATIONS 3.) ALL LIGHT FIXTURES, SPEAKERS, ECT. IN CEILING
	2' X 2' LIGHT FIXTURE	TYPES ARE TO MATCH CEILING FINISH COLOR U.N.O. 4.) ALL GYPSUM BOARD BULKHEADS TO BE AT 6"
	4' STRIP LIGHT FIXTURE	BÉLOW LOWEST ADJACENT CEILING U.N.O. 5.) ALL CEILINGS ARE TO BE CONSTRUCTED AS
\odot	CEILING MOUNTED PENDANT	RÉQUIRED BY ASCE 7 CHAPTER 13 AND ANCHORED PER NCSBC SECTION 1613
0	RECESSED LIGHT FIXTURE	
-0	WALL MOUNTED SCONCE	
	EXIT LIGHT-WALL MOUNTED	
\otimes	EXIT LIGHT-CEILING MOUNTED	
\boxtimes	HVAC SUPPLY DIFFUSER	CEILING TYPES:
	HVAC RETURN / EXHAUST DIFFUSER HVAC LINEAR DIFFUSER	TYPE #1: 24"x24"x5/8" LAY-IN ACOUSTICAL CEILING - WHITE w/ WHITE ALUM GRID
	DIRECT/INDIRECT LIGHT FIXTURE - SEE ELEC. DWGS. FOR LENGTH	LAY-IN ACOUSTICAL CEILING, WHITE W/ WHITE ALUM. GRID. CONTRACTOR TO PROVIDE 3 1/2" SOUND BATTS ABOVE CLG. THIS AREA
		TYPE #3: GYPSUM BOARD CEILING/SOFFIT - PAINTED (PROVIDE MOIST. RESIST. GYP. BD AND EPOXY PAINT AT ALL WET LOCATIONS U.N.O) P-5
		<u>TYPE #4:</u> OPEN TO STRUCTURE - NOT PAINTED

adwar tects environments for life architecture interiors planning 2815 COLISEUM CENTRE DRIVE SUITE 500 CHARLOTTE, NORTH CAROLINA 28217 P704.379.1919 F704.379.1920 www.adwarchitects.com FIRST FLOOR ALTERATIONS TO: HENDERSONVILLE CITY HALL HENDERSONVILLE, NC MINOR REVISIONS & COORDINATION THIS SHEET REFLECTED CEILING PLAN 11.21.22 22029 DATE: PROJECT NO: REVISIONS NO: DATE: DESCRIPTION: 12.22.22 **REVISION 1** 1 THIS DRAWING IS THE PROPERTY OF ADW ARCHITECTS, P.A. AND SHALL NOT BE REPRODUCED OR COPIED IN WHOLE OR PART. IT SHALL NOT BE USED ON ANY OTHER PROJECT OR GIVEN TO ANY OTHER COMPANY OR AGENCY WITHOUT THE CONSENT OF ADW ARCHITECTS, P.A. SHEET NUMBER 800

GE	NERAL
1.	THESE GENERAL NOTES ARE NOT INTENDED TO REPLACE SPECIFICATION
2	THE GENERAL NOTES.
2.	DU NUT SCALE DIMENSIONS FROM DRAWINGS. THE CONTRACTOR SHA
3.	WHERE A DETAIL IS SHOWN FOR ONE CONDITION, IT SHALL APPLY FOR
л	REFERENCED ON THE DRAWINGS.
4. 5	TE ANY RIDDED IS IN DOUBT AS TO THE INTENT OF THE DOAWINGS OD
5.	TO THE SCHEDILLED BID DATE
6	THE CONTRACTOR SHALL CHECK AND VERIEY ALL DIMENSIONS AND GE
0.	TO THE ENGINEER OF RECORD PRIOR TO FABRICATION OR PROCEEDIN
7.	THE CONTRACTOR SHALL COMPARE THE STRUCTURAL DRAWINGS WITH
	ENGINEER OF RECORD PRIOR TO FABRICATION OR PROCEEDING WITH
8.	SEE ARCHITECTURAL DRAWINGS FOR FLOOR ELEVATIONS, FLOOR SLOP
СО	NTRACTOR RESPONSIBILITY
1.	THE STRUCTURAL DRAWINGS AND SPECIFICATIONS (IF PROVIDED) REF
	DO NOT INDICATE THE METHOD OR MEANS OF CONSTRUCTION. THE CO
	RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, PROCEDURE
	FOLLOWED STRICTLY.
2.	THE STRUCTURE HAS BEEN DESIGNED TO RESIST DESIGN LOADS ONLY
	PARTIALLY COMPLETED STRUCTURE SHALL BE CONSIDERED BY THE CO
	FORMWORK, AND ANY OTHER SUPPORTING ELEMENTS PROVIDED FOR
	PERMANENT CONNECTIONS ARE MADE, THE CONTRACTOR MUST PROVI
_	STRUCTURAL WORK IS COMPLETE.
3.	ALL INTERIOR HANGING COMPONENTS (CEILING, DUCTWORK, PIPING,
	LUADS APPLIED TO THE STRUCTURE DO NOT EXCEED THE LIMITS SHOW
	CUNTRACTOR SHALL BE RESPONSIBLE FOR THE ADEQUACY OF THE CON
1	
4.	ALL ARCHITECTURAL, ELECTRICAL, MECHANICAL, AND PLUMDING COMP INDEDCIDE OF CTURCTURE ABOVE CHAIL BE DETAILED AND EDAMED
	SEE THE DESIGN COTTEDIA FOR THE LIMITS LISED IN THE DESIGN
5	PRINCIPAL OPENINGS IN THE STRUCTURE ARE SHOWN ON THESE DRAV
5.	FLECTRICAL AND PLUMBING DRAWINGS FOR ALL REQUIRED OPENINGS
	TYPICAL DETAILS HEREIN WHETHER SHOWN ON THESE DRAWINGS OR
	WITH ALL SUBCONTRACTORS AND THEIR APPROVED SHOP DRAWINGS
6.	ALL EXTERIOR WALL AND ROOF COMPONENTS AND CLADDING ENGINE
	MANUFACTURER'S ENGINEER FOR COMPONENTS AND CLADDING WIND
7.	ALL ARCHITECTURAL, ELECTRICAL, MECHANICAL, AND PLUMBING COMF
	"SEISMIC DESIGN REQUIREMENTS FOR NONSTRUCTURAL COMPONENTS
	PROVIDE PROJECT SPECIFIC DESIGN AND DOCUMENTATION PREPARED
	CHAPTER 13 DEFINES THE FORCE REQUIRED TO SUPPORT THE COMPON
	INFORMATION AND DESIGN SHALL BE INCLUDED IN EACH CONTRACTO
8.	SEVERAL ITEMS NOTED HEREIN (WHERE CHECKED) AND IN THE SPECIF
	LICENSED IN THE STATE IN WHICH THE PROJECT IS LOCATED, TO PROV
	NOTES AND SPECIFICATION SECTIONS FOR ADDITIONAL INFORMATION
	LIMITED TO:
	SPECIALTY FOUNDATION SYSTEM
	POST-TENSIONED CONCRETE
	STRUCTURAL STEEL (CONNECTIONS)

□ LIGHT GAUGE COLD-FORMED STEEL TRUSSES

□ PREFABRICATED WOOD TRUSSES

DESIGN CRITERIA

1.	PROJECT LOCATION: HENDERSONVILLE CITY HALL, 160 6TH AVE HENDERSONVILLE,							
2.	APPL		E CODES:					
		2018		LINA BUILDI	NG CODE (20			
			IUM DESIGN		SUILDINGS A			(ASCE/SEI)
		BUILD				TIONS FOR M	1ASONRY STI	
		SPECI	FICATION FO	R STRUCTUR	AL STEEL BU	ILDINGS (AIS	SC 360-10)	
		NORTI	H AMERICAN	SPECIFICATI	ON FOR THE	DESIGN OF C	COLD-FORME	D STEEL S
3.	RISK	CATE	GORY:		II			
4.	DEFL	ECTIO	N:					
	FL00	R FRA	MING		L/240 FOR TO	OTAL LOADIN	IG (1.50" FOI	R 30' SPAN
	ROOF	FRAM	IING		L/180 FOR TO	OTAL LOADIN	IG (2.00" FOI	R 30' SPAN
F	MEME	BERS S	SUPPORTING	BRICK	L/600 FOR LI	VE LOADING	(0.60" FOR	30' SPAN)
5.	LIVE	LUADS	5:		LIN			
	CORR			ABOVE)	<u>80</u>	<u>11 01(11</u> (1 01)	2 000	
	CORR	RIDOR	S (GROUND)	(2012)	10	0	2,000	
	MECH	IANIC	AL Í		15	0	ŇÁ	
	OFFIC	CE			65	*	2,000	
	PUBL	ic are	EAS, LOBBIES	5	10	0	2,000	
	ROOF	:			20		300	
	SIAL	≺S			10		300	
	310K *ADD		IAI 15 PSF PA)	NA	
6.	SNOV	V LOAI	D:			•		
	GROU	JND SI	Now Load		pa	= 15 PSF		
	IMPO	RTAN	CE FACTOR		Is	= 1.00		
	SNOV	V EXPO	OSURE FACTO	OR	Ce	= 1.00		
	THER	MAL F	ACTOR		Ct	= 1.00		
7		SNOW	ו KUUF LOAD יי		p _f	= 11 PSF		
/.		ΛΔΤΕ Ι). DESIGN WINI		V	. = 115 MPH	(ΝΟΜΙΝΔΙ Γ	FSIGN WI
	SERV	ICEAB	SILITY WIND S	SPEED	Vu	= 76 MPH (M	EAN RECURR	ENCE INTE
	EXPO	SURE	CATEGORY		В			
	INTE	RNAL F	PRESSURE CO	DEFFICIENTS	±().18		
	BASE	SHEA	R (1.0xW)		NA	A - INTERIOR	WORK	
	COMF		ITS AND CLAE	DDING -				
				l and roof				
		ULTIM	ATE DESIGN	WIND SPFF) AND EXPOS	URE CATEGO	RY LISTED A	BOVE. AIT
		LARGE	R OF THE 16	PSF MINIMU	JM (PER ASCE	/SEI 7 30.2.2	2) AND THE	WORST-CA
				F		ND ARFA (CF	;)	1
			ZONE	10	50		500	-
			4	+5	+5	+5	+5	1
			1	-41	-36	-33	-28	
		Ŋ Р	2	+5	+5	+5	+5	1
		ا لا		-64	-57	-54	-46	4
			3	+5	+5	+5	+5	
				-88	-//	-/5	-64	4
		_	4	+20 -78	-27	+24	+20 -23	
		MAL		+28	+25	+24	+20	1
			5	-51	-46	-41	-31	
8.	SEIS	MICIC	DAD:					_
2.	DESI	GN ME	THOD - EQUI	VALENT LAT	ERAL FORCE	PROCEDURE		
	Ss	_			29	.0 %g		
	S_1				10	.7 %g		
	S _{DS}				30	.3 %g		
	S _{D1}				16	.9 %g		
			LE FACTUR					
	SLIE	2017 UI	SIGN CATEG	ORY	U C	(ASSUMED)		
	SEIS		RCE-RESIST	ING SYSTEM	- U			
	22101	NA - S	SFRS WILL NO	DT BE MODIF	IED			
9.	FUTU	RE LO	ADS:					
	UNLE	SS SP	ECIFICALLY N	NOTED, THER	e are no pr	OVISIONS M	ADE FOR FUT	URE FLOO
FOI	ΙΝΠΔΤ	IONS						
		10110						

SUBMIT DETAILED DRAWINGS OF ALL SUCH CONDITIONS PRIOR TO CONSTRUCTION.

- 1. FOUNDATION DESIGN IS BASED ON A PRESUMPTIVE NET ALLOWABLE SOIL BEARING PRESSURE OF 2,000 PSF, ACCORDING TO TABLE 1806,2 OF THE INTERNATIONAL BUILDING CODE. THIS PRESUMPTIVE BEARING PRESSURE MUST BE FIELD VERIFIED BY A GEOTECHNICAL ENGINEER PRIOR TO FOUNDATION CONCRETE PLACEMENT. THE STRUCTURE AND SITE SATISFY THE FOLLOWING CRITERIA FOR THE USE OF TABLE 1806.2: COLUMN LOADS ARE LESS THAN 50 KIPS, WALL LOADS ARE LESS THAN 3 KLF, AND FINISHED GRADES DO NOT DIFFER FROM NATURAL GRADE BY MORE THAN 5 FEET. FOOTINGS SHALL BE CARRIED TO LOWER ELEVATIONS THAN THOSE SHOWN ON THE DRAWINGS IF REQUIRED BY THE GEOTECHNICAL ENGINEER OR TESTING LAB TO REACH SOIL CAPABLE OF PROVIDING THE DESIGN NET ALLOWABLE SOIL BEARING PRESSURE. ALL EXPANSIVE AND/OR LOOSE SOILS BELOW STRUCTURAL FOUNDATIONS SHALL BE REMOVED AND REPLACED AS DIRECTED HEREIN.
- MINIMUM SUBGRADE PREPARATION REOUIREMENTS ARE AS FOLLOWS: 1. PREPARE SUBGRADE AND UNDERFLOOR FILL TO A POINT THAT EXTENDS 1'-0" (MINIMUM) BEYOND THE LIMITS OF THE FOUNDATIONS. 2. COMPACT ALL FILL UNDER BUILDING TO 98% MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D698. 3. PLACE IN LIFTS OF 8" (MAXIMUM) LOOSE THICKNESS WHEN USING LARGE RIDING COMPACTORS (REDUCE THICKNESS AS NECESSARY FOR SMALLER
- EQUIPMENT). 4. SLABS ON GRADE SHALL BE SUPPORTED ON A BASE LAYER OF POROUS FILL (WASHED STONE OR CLEAN SAND) WITH A MINIMUM THICKNESS OF 4". FIELD COMPACTION SHALL BE VERIFIED WITH AT LEAST ONE TEST PER 2,000 SQUARE FEET PER LIFT (AT LEAST ONE PER LIFT), IN ACCORDANCE WITH ASTM D1556 (SAND-CONE METHOD), ASTM D6938 (NUCLEAR METHODS, SHALLOW DEPTH), ASTM D2167 (RUBBER BALLOON METHOD), AND/OR ASTM D2937 (DRIVE-CYLINDER METHOD). SEE SPECIFICATIONS FOR OTHER TESTING REQUIREMENTS. UTILITY LINES SHALL NOT BE PLACED THROUGH OR BELOW FOUNDATIONS WITHOUT APPROVAL OF THE STRUCTURAL ENGINEER. CONTRACTOR SHALL

ONS (IF PROVIDED). SEE SPECIFICATIONS FOR REQUIREMENTS IN ADDITION TO	1.	ALL CONCRETE D
ALL REQUEST NECESSARY DIMENSIONS NOT SHOWN ON THE DRAWINGS. R ALL LIKE OR SIMILAR CONDITIONS EVEN THOUGH NOT SPECIFICALLY	2.	CONCRETE MIXTO CLASS A - FOOTI CLASS B - FOUND
RS THE MORE STRINGENT REQUIREMENT SHALL APPLY. R SPECIFICATIONS, THEY SHALL REQUEST AN INTERPRETATION IN WRITING PRIOR	3.	CLASS C - INTER REINFORCING:
RADE CONDITIONS (BOTH NEW AND EXISTING), REPORTING ANY DISCREPANCIES		DEFORMED BAR
H THE ARCHITECTURAL DRAWINGS, AND REPORT ANY DISCREPANCIES TO THE STRUCTURAL WORK. PES, AND THE LOCATION OF DEPRESSED FLOOR AREAS.	4. 5. 6.	GROUT UNDER BAREFER TO THE DI LAP WELDED WIF
	7.	CLEAR COVER FR

-) REPRESENT THE FINISHED STRUCTURE, AND, EXCEPT WHERE SPECIFICALLY SHOWN, THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY DURES, TECHNIQUES, AND SEQUENCE. ALL APPLICABLE SAFETY REGULATIONS TO BE S ONLY AS A COMPLETED STRUCTURE. APPLICATIONS OF CONSTRUCTION LOADS TO THE HE CONTRACTOR AND SO INCLUDED IN THE DESIGN OF SHORING, BRACING, FOR CONSTRUCTION OF THE STRUCTURE. DURING ERECTION AND UNTIL ALL PROVIDE TEMPORARY BRACING FOR THE STRUCTURE IN ALL DIRECTIONS UNTIL THE
- PING, EQUIPMENT, ETC.) SHALL BE COORDINATED BY THE CONTRACTOR TO ENSURE SHOWN IN THE DESIGN CRITERIA OR ELSEWHERE IN THE DRAWINGS. THE E CONNECTIONS TO THE SUPPORTING STRUCTURAL ELEMENTS AND THE ADEQUACY OF COMPONENTS NOT SHOWN ON THE STRUCTURAL DRAWINGS, THAT FRAME TO THE
- AMED BY THE CONTRACTOR TO ALLOW FOR DEFLECTION OF THE STRUCTURAL FRAMING. DRAWINGS. THE CONTRACTOR SHALL EXAMINE THE ARCHITECTURAL, MECHANICAL, NINGS. SUPPORT FRAMING FOR ALL OPENINGS SHALL BE PROVIDED AND INSTALLED PER S OR NOT. THE CONTRACTOR SHALL VERIFY SIZE AND LOCATION OF ALL OPENINGS
- INGS PRIOR TO CONSTRUCTION. IGINEERED BY THE COMPONENT MANUFACTURER ARE TO BE DESIGNED BY THE WIND LOADS NOTED IN THE DESIGN CRITERIA. COMPONENTS ARE TO BE ATTACHED AS REQUIRED BY ASCE/SEI 7 CHAPTER 13, NENTS". EACH INDIVIDUAL CONTRACTOR RESPONSIBLE FOR THE COMPONENT MUST PARED BY AN ENGINEER LICENSED IN THE STATE IN WHICH THE PROJECT IS LOCATED. DMPONENT FOR THE ANCHORAGE AND BRACING. THE COST OF PREPARING THIS RACTOR'S BID THAT IS PROVIDING THE COMPONENT.
- SPECIFICATIONS REQUIRE THE CONTRACTOR TO ENGAGE A PROFESSIONAL ENGINEER) PROVIDE DESIGN AND/OR DETAILING OF STRUCTURAL ELEMENTS. SEE INDIVIDUAL 1ATION AND REQUIREMENTS. DELEGATED DESIGN ELEMENTS INCLUDE, BUT ARE NOT

- ENDERSONVILLE, NC 28792 NAL BUILDING CODE WITH REVISIONS)
- CTURES (ASCE/SEI 7-10) FE (ACI 318-14)
- ONRY STRUCTURES (ACI 530|530.1-13) 60-10) O-FORMED STEEL STRUCTURAL MEMBERS (AISI S100-12)

1.50" FOR 30' SPAN), L/360 FOR LIVE LOADING (1.00" FOR 30' SPAN) 2.00" FOR 30' SPAN), L/240 FOR LIVE LOADING (1.50" FOR 30' SPAN)

CONCENTRATED (LB)

2,000 2,000 300 300

MINAL DESIGN WIND SPEED, (V_{asd} = 89 MPH) RECURRENCE INTERVAL OF 10 YEARS)

G ENGINEERED BY THE COMPONENT MANUFACTURER ARE TO BE DESIGNED BY THE DING WIND LOADS AS DETERMINED PER THE GOVERNING BUILDING CODE FOR THE LISTED ABOVE. ALTERNATIVELY, THE COMPONENT MANUFACTURER MAY USE THE AND THE WORST-CASE PRESSURES (PSF) BELOW:

FOR FUTURE FLOORS, ROOFS, OR OTHER LOADS.

CONCRETE | REINFORCING STEEL

DESIGN AND CONSTRUCTION SHALL CONFORM TO THE REFERENCED EDITION OF THE BUILDING

NWC 3,000 PSI

NWC 3,000 PSI

- TURES AS REQUIRED (BASED ON CLASS DESIGNATION): INGS, GRADE/TIE BEAMS IDATION WALLS, BEARING PAD FOR NEW STEEL HEADERS NWC 4,500 PSI
- RIOR SLABS ON GRADE I A615, GRADE 60
- ANCHORS ASTM A496 FABRIC - ASTM A1064 (FLAT SHEETS ONLY)
- BASE PLATES TO BE HIGH STRENGTH (5,000 PSI), NON-SHRINK. DRAWINGS FOR REINFORCING LAP REQUIREMENTS. WHERE LAP SPLICES ARE NOT SHOWN, LAP F IRE FABRIC SHEETS 8" MINIMUM.
- ROM FACE OF CONCRETE: CAST IN PLACE CONCRETE (MEASURE TO OUTERMOST REINFORCING)
- CONCRETE CAST AGAINST AND EXPOSED TO EARTH 3 CONCRETE EXPOSED TO EARTH/WEATHER 2" FOR #6 BARS AND LARGER, 1 1/2" ELSE CONCRETE NOT EXPOSED TO EARTH/WEATHER 3/4" FOR SLABS AND WALLS, 1 1/2" (TO TIES) FO
- PROVIDE REINFORCING IN SLABS ON GRADE, 1-1/2" FROM TOP OF SLAB: 4" SLABS 6x6-W2.1xW2.1 WHERE SCHEDULED BARS ARE NOT PRESENT, PROVIDE CONTINUOUS #5 TOP AND BOTTOM BARS TO SUPPORT S
- OF THE STIRRUP SPACING IN ALL BEAMS. WALL FOOTING REINFORCING SHALL BE CONTINUOUS THROUGH ADJACENT COLUMN FOOTINGS. BAR SUPPORTS FOR CONCRETE EXPOSED TO VIEW SHALL HAVE PLASTIC COATED LEGS OR BE HOT-DIP GALVANI MECHANICAL AND ELECTRICAL CONDUIT IN SLABS ON GRADE AND ELEVATED SLABS SHALL RUN UNDER TOP LA
- MINIMUM OF 1-1/2" CLEAR BETWEEN CONDUITS AND BETWEEN REINFORCING AND ADJACENT CONDUITS PARAL OF CONDUIT EXCEEDS ONE THIRD OF THE SLAB DEPTH, ADDITIONAL FRAMING OR REINFORCING MAY BE NECES EMBED PLATES MUST BE SET IN THE FORM BEFORE POURING CONCRETE, NOT PLACED INTO TOP OF WET CONCR
- THE ENGINEER FOR CORRECTIVE DETAILS FOR ANY EMBED PLATES LEFT OUT OF CONCRETE POURS. FOR SLABS ON GRADE, SLAB AND FOOTING REINFORCING SHALL BE HELD IN PLACE BY BAR SUPPORTS WITH SA
- SUPPORTS AS DESCRIBED IN CHAPTER 3 OF THE CRSI MANUAL OF STANDARD PRACTICE. BAR SUPPORTS SHALL BOTH WAYS. ROCKS, CMU, OR CLAY BRICK WILL NOT BE USED AS SUPPORTS. REBAR SHALL NOT BE HEATED WITH A TORCH IN THE FIELD.
- THE CONTRACTOR SHALL NOTIFY THE ENGINEER FAR ENOUGH IN ADVANCE (48 HOURS) OF EACH CONCRETE PC LAYOUT OF THE STEEL BEFORE THE BEGINNING OF THE ACTUAL POUR, BUT NOT PRIOR TO 90% OF THE STEEL

STRUCTURAL MASONRY

- ALL MASONRY DESIGN AND CONSTRUCTION SHALL CONFORM TO THE REFERENCED EDITION OF THE BUILDING FOR MASONRY STRUCTURES (ACI 530|530.1). LOAD BEARING MASONRY WALLS, PILASTERS, PIERS, RETAINING WALLS, FOUNDATION WALLS AND ANY OTHER DRAWINGS IS CONSIDERED HERE TO BE STRUCTURAL MASONRY.
- REQUIRED COMPRESSIVE STRENGTH OF MASONRY UNITS: SOLID CLAY UNITS - 6,200 PSI
- CONCRETE UNITS 2,000 PSI ON NET AREA CONCRETE MASONRY UNITS (CMU) SHALL BE LIGHT WEIGHT (105 PCF) CONFORMING TO ASTM C90. REFER TO A SPECIFICATIONS FOR UNIT SIZE, FACE, COLOR, JOINTING, ETC.
- MORTAR SHALL BE TYPE S, ASTM C270. GROUT FOR REINFORCED MASONRY SHALL BE FINE GROUT, ASTM C476. MINIMUM 28-DAY COMPRESSIVE STREN MINIMUM 28-DAY COMPRESSIVE STRENGTH (f'm) OF THE MASONRY WALLS SHALL BE 2,000 PSI. MASONRY STRE UNIT STRENGTH METHOD OR THE PRISM TEST METHOD AS DESCRIBED BY ACI 530.
- REINFORCING: TYPICAL - ASTM A615, GRADE 60
- REFER TO THE DRAWINGS FOR REINFORCING LAP TYPICAL DETAIL AND SCHEDULE REQUIREMENTS. MAXIMUM HEIGHT TO WHICH MASONRY SHALL BE LAID BEFORE GROUTING IS 5 FEET ABOVE CONSTRUCTION SU MASONRY. IF GROUT POUR HEIGHT EXCEEDS 5 FEET, THEN "HIGH LIFT" GROUTING PROCEDURE MUST BE FOLLO THE BOTTOM OF EACH GROUT POUR HEIGHT. CLEANOUT OPENINGS SHALL BE PROVIDED AT EACH CELL TO BE F
- ALL GROUT PLACED OVER 12" IN HEIGHT SHALL BE MECHANICALLY CONSOLIDATED DURING GROUTING. GROUT MECHANICAL VIBRATION AFTER INITIAL WATER LOSS AND SETTLEMENT HAS OCCURRED. MAXIMUM GROUT LIFT (GROUT POURED IN ONE CONTINUOUS OPERATION) IS 5 FEET. THIS LIMIT ALSO APPLIES
- REINFORCE MASONRY WHERE SHOWN ON STRUCTURAL DRAWINGS. TIE REINFORCING IN POSITION AND PLACE PUSH REINFORCING DOWN INTO PREVIOUSLY PLACED GROUT FILL. SET BOLTS SIMILARLY. TIE MASONRY WYTHES WITH HORIZONTAL REINFORCING AS SPECIFIED.
- PROVIDE VERTICAL BARS, SIZE MATCHING WALL REINFORCING, AT ALL CORNERS, ENDS OF WALLS, EACH SIDE WALL OPENINGS. TIE EACH BAR TO THE FOUNDATION WITH A MATCHING DOWEL. ALL CORNERS OF STRUCTURAL MASONRY WALLS SHALL BE CONSTRUCTED BY INTERLOCKING COURSES. AT INTI
- BLOCK COURSING PROHIBITS INTERLOCKED CONSTRUCTION SEE ALTERNATE DETAILS HEREIN. 17. ALL LINTELS TO BEAR 8" MINIMUM EACH SIDE OF OPENING, UNLESS NOTED OTHERWISE. 18. GROUT ALL MASONRY WALLS AND CAVITY BELOW GRADE SOLID. GROUT ALL WALLS ABOVE GRADE AT THE REIN
- INDICATED IN SPECIFIC SECTIONS. 19. ONE 3/4"Ø (MAXIMUM) VERTICAL CONDUIT ALLOWED IN ANY REINFORCED CELL PROVIDED 1" CLEAR IS MAINTA CONDUIT, NO OTHER VERTICAL OR HORIZONTAL CONDUITS, PIPES, OR SLEEVES SHALL BE LOCATED IN REINFO APPROVED BY THE STRUCTURAL ENGINEER. CONTRACTOR SHALL COORDINATE LAYOUT TO AVOID REINFORCED

STRUCTURAL STEEL

- DESIGN, FABRICATION, AND ERECTION SHALL BE PER THE SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS STRUCTURAL STEEL: WIDE FLANGE SHAPES (W SECTIONS) - ASTM A992, GRADE 50 (FY=50 KSI)
- CHANNELS, ANGLES, RODS, AND BARS A36 (FY=36 KSI) PLATES - ASTM A36 (FY=36 KSI) OR ASTM A572, GRADE 50 (FY=50 KSI)
- SQUARE AND RECTANGULAR TUBES ASTM A500, GRADE B (FY=46 KSI) PIPES OR ROUND TUBES - ASTM A53, GRADE B (FY=35 KSI) OR ASTM A500, GRADE B (FY=42 KSI)
- ANCHOR BOLTS AND THREADED RODS SHALL CONFORM TO ASTM F1554, GRADE 36, UNO. WHERE STEEL MEMBERS ARE WELDED AND NO SIZE IS SPECIFIED, PROVIDE FULL LENGTH FILLET WELDS BOTH BE AS FOLLOWS UNLESS NOTED OTHERWISE:
- MEMBER THICKNESS WELD SIZE 3/16" - 5/16" 3/16" 1/4"
- 3/8" 7/16" 1/2"
- 9/16" 3/8" 5/8" 7/16

5/16"

- SPLICING OF STRUCTURAL STEEL MEMBERS IS PROHIBITED WITHOUT PRIOR APPROVAL OF THE ENGINEER AS T MADE. ANY MEMBER HAVING A SPLICE NOT SHOWN AND DETAILED ON SHOP DRAWINGS WILL BE REJECTED. ALL WELDING SHALL CONFORM TO THE AMERICAN WELDING SOCIETY CODE. USE E70 SERIES ELECTRODES FOR SEE THE ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR ALL ITEMS REQUIRED TO BE HOT-DIP GALVANIZED
- UNLESS SPECIFICALLY NOTED OTHERWISE, CAP ALL OPEN HSS OR PIPE MEMBERS OUTSIDE THE BUILDING ENVE PLATE.
- ULTRASONIC INSPECTION BY THE TESTING LABORATORY SHALL BE PROVIDED FOR ALL WELDS CALLED FOR ON DRAWINGS AS FULL PENETRATION WELDS. ALL STEEL EXPOSED TO VIEW SHALL BE CLASSIFIED AS ARCHITECTURALLY EXPOSED STRUCTURAL STEEL (AESS STANDARD PRACTICE AND SHALL BE TREATED AS SUCH.

NON-LOAD BEARING COLD-FORMED STEEL (METAL STUDS)

- ALL STRUCTURAL MEMBERS SHALL BE MANUFACTURED IN ACCORDANCE WITH THE REFERENCED EDITION OF TH THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS BY THE AMERICAN IRON AND STEEL INSTITUTE.
- ALL COLD-FORMED LIGHT GAUGE METAL FRAMING AND CONNECTIONS SHALL BE DESIGNED BY THE SUPPLIER'S ENGINEER'S REQUEST CONTRACTOR SHALL SUBMIT CALCULATIONS FOR ALL COLD-FORMED METAL FRAMING US CLADDING.
- ALL MEMBERS SHALL HAVE A MINIMUM YIELD STRENGTH OF 33 KSI AND BE FORMED FROM STEEL HAVING A G-6 REQUIREMENTS OF ASTM A653 AND C955.
- ALL THE COLD-FORMED STEEL STRUCTURAL MEMBERS SHALL COME FROM A SINGLE SOURCE MANUFACTURER. (MEMBERS OF THE STEEL STUD MANUFACTURERS ASSOCIATION (SSMA) OR THE STEEL FRAMING INDUSTRY ASSO INSTALLATION SHALL COMPLY WITH THE MANUFACTURER'S RECOMMENDATIONS.
- SUBMIT SHOP DRAWINGS FOR ALL COLD-FORMED METAL FRAMING USED TO SUPPORT CEILINGS AND EXTERIOR INDICATE PLACING OF ALL FRAMING MEMBERS SHOWING TYPE, SIZE, GAUGE, NUMBER, LOCATION AND SPACIN SUPPLEMENTAL STRAPPING, BRACING, SPLICES, BRIDGING, ACCESSORIES AND DETAILS REQUIRED FOR PROPER
- SHOP DRAWINGS SHALL SHOW SIZE AND LENGTH OF WELDS FOR ALL WELDED CONNECTIONS AND TYPE, SIZE / SCREWED CONNECTIONS. SUBMIT MANUFACTURER'S DATA GIVING STRENGTH VALUES FOR SCREWS USED. SHOP DRAWINGS SUBMITTED MUST BE PREPARED UNDER THE SUPERVISION OF AND SEALED BY A REGISTERED
- THE STATE IN WHICH THE PROJECT IS LOCATED. ALL STRUCTURAL FRAMING ACCESSORIES SHALL BE FORMED FROM STRUCTURAL QUALITY STEEL WITH A MINIM HAVE MINIMUM PROTECTIVE COATING EQUAL TO ASTM A653 G-60 GALVANIZED COATING.
- VERTICAL DEFLECTION CLIPS ARE REQUIRED TO BE CAPABLE OF ACCOMMODATING UPWARD AND DOWNWARD STRUCTURE THROUGH POSITIVE MECHANICAL ATTACHMENT TO STUD WEB. MECHANICAL ATTACHMENT TO STRU STUD WEB USING STEP-BUSHINGS TO PERMIT FRICTIONLESS VERTICAL MOVEMENT. CONNECTORS MUST BE TES CRITERIA AND HOLD A VALID ICC-ES EVALUATION SERVICE REPORT TO BE ACCEPTABLE.

			MEQUANIZAL BOCT INCTALLED ANOUODO		
G CODE REQUIREMENTS FOR STRUCTURAL	1. ANC	CHOR B	OMECHANICAL POSI-INSTALLED ANCHORS	ILS, AND OTH	IER EMBEDDED STEEL ITEMS SHALL BE SET INTO HARDENED
	CON ENG	NCRETE	WITH ADHESIVE OR MECHANICAL POST-INSTALLED ANCHORS OF RECORD.	S ONLY WHER	E DETAILED ON THE DRAWINGS OR WHERE APPROVED BY THE
	2. PRE POS	-APPRO	OVED MANUFACTURERS ARE HILTI, SIMPSON STRONG-TIE, AND ALLED ANCHORS, IT IS ACCEPTABLE AT THE CONTRACTOR'S O	DEWALT. WH	HERE DETAILS INDICATE SPECIFIC ADHESIVE OR MECHANICAL BMIT AN ALTERNATE SIMILAR PRODUCT PROVIDED BY A DIFFERENT
	PRO SPE	VIDE S	URER AS LONG AS THE MANUFACTURER'S DATA PROVIDES EQU SIGNED AND SEALED CALCULATIONS THAT DEMONSTRATE THE	ALTERNATE F	AD CAPACITY TO THE ANCHOR SPECIFIED. THE CONTRACTOR SHALL PRODUCT IS CAPABLE OF MEETING THE PERFORMANCE OF THE ESR SHOWING COMPLIANCE WITH THE GOVERNING BUILDING CODE
	FOR	SEISN CHOR E	IIC USE, LOAD RESISTANCE, INSTALLATION CATEGORY, AND T VALUATION WILL ALSO CONSIDER CREEP, IN-SERVICE TEMPER	HE AVAILABIL ATURE, INST	LITY OF COMPREHENSIVE INSTALLATION INSTRUCTIONS. ADHESIVE ALLATION TEMPERATURE, MOISTURE CONDITION OF CONCRETE,
PER ACI 318 OR CRSI STANDARDS.	AND 3. BAS) DRILL	ING METHODS. DESIGN FOR ADHESIVE ANCHORS DETAILED ON THE DRAWING	S INCLUDES	THE FOLLOWING PARAMETERS: CRACKED CONCRETE; WATER-
	SAT SYS	URATE TEM, C	D CONCRETE; BASE MATERIAL BETWEEN 25 AND 100 DEGREES R CORE-DRILLING.	S FAHRENHEIT	T; AND HOLES MADE BY HAMMER DRILL, HOLLOW DRILL BIT
	4. INS WAF	TALL A RNINGS	S. INSTALL IN ACCORDANCE WITH APPLICABLE SAFETY LAWS. /	ALL HOLES SHALL	S, AS INCLUDED IN THE ANCHOR PACKAGING. HEED ALL LABEL HALL BE DRILLED WITH A DIAMETER NO LARGER THAN 1/8" BE CLEANED WITH COMPRESSED AIR AND SHALL BE DRY PRIOR TO
DR BEAMS AND COLUMNS	INS 5. ANC	TALLAT	ION OF ADHESIVE. HOLES SHALL BE FREE OF ALL DELETERIOU APACITY IS DEPENDENT UPON SPACING BETWEEN ADJACENT A	JS MATERIAL	SUCH AS LAITANCE, DUST, DIRT, AND OIL. PROXIMITY OF ANCHORS TO EDGE OF CONCRETE. INSTALL
STIRRUPS AS REQUIRED FOR THE LENGTH	ANC 6. WHE	CHORS ERE AD	IN ACCORDANCE WITH SPACING AND EDGE CLEARANCES INDI HESIVE ANCHORS ARE TO BE INSTALLED IN HOLLOW MATERIA	CATED ON TH	IE DRAWINGS. NOWN CAPACITY, THE CONTRACTOR SHALL INSTALL THE ANCHOR IN
	STR TUB	ICT AC	CORDANCE WITH MANUFACTURER'S INSTRUCTIONS. THE ADH PPLIED BY THE MANUFACTURER. THE ADHESIVE SHALL BE CAPA	ESIVE SHALL ABLE OF SUST	BE INSTALLED IN THE HOLLOW BASE MATERIAL USING SCREEN FAINING MINIMUM TENSION AND SHEAR LOAD CAPACITIES NOTED
IZED AFTER FABRICATION. AYER OF SLAB REINFORCING. PROVIDE A	7. CON	THE DI	RAWINGS MULTIPLIED BY A FACTOR OF SAFETY OF 4. ALL HARE OR PERFORMING ADHESIVE WORK SHALL BE AN APPROVED CO	DWARE AND M DNTRACTOR B	MATERIAL SHALL BE SUPPLIED BY THE ANCHOR MANUFACTURER. BY THE MANUFACTURER FURNISHING THE ADHESIVE MATERIALS,
SSARY AT ENGINEER'S DISCRETION.	ANL ALT TRA		L HAVE NO LESS THAN FIVE YEARS EXPERIENCE IN THE VARIOU VELY, THE CONTRACTOR SHALL ARRANGE FOR A REPRESENTATION THE	US TYPES OF TIVE OF THE A NAT ALL DERSO	ADHESIVE RELATED WORK REQUIRED IN THIS PROJECT. ANCHOR MANUFACTURER TO PROVIDE ONSITE INSTALLATION
AND PLATES, OR PRECAST CONCRETE BAR	TO	THE EN	GINEER OR RECORD PRIOR TO THE COMMENCEMENT OF ANCH	OR INSTALLA	TION.
BE SPACED AT A MAXIMUM OF 4'-0"OC	DEMOLT				
OUR TO ALLOW AMPLE TIME TO CHECK THE	1 THE				SHALL OBTAIN ALL NECESSARY PERMITS REQUIRED FOR THE
HAVING BLEN FLACED.	2. CON	IOLITI(ON AND REMOVAL OF THE DEBRIS RESULTING FROM THE DEMO OR SHALL BE SOLELY RESPONSIBLE FOR THE PROTECTION AN	DLITION. D STABILITY	OF EXISTING AND NEW STRUCTURES DURING CONSTRUCTION.
	3. PRO STR	VIDE A	ND MAINTAIN BRACING AND SHORING AS NEEDED. KEEP SUP E IS COMPLETED.	PORTING STR	UCTURE IN PLACE DURING NEW CONSTRUCTION AND UNTIL NEW
CODE REQUIREMENTS SPECIFICATIONS	4. STO 5. IF S	RE AN	D PROTECT ALL MATERIAL TO BE REMOVED AND REUSED. OR INTEGRITY OF STRUCTURAL SYSTEM APPEARS TO BE COMP	ROMISED, CE	ASE OPERATIONS IMMEDIATELY AND NOTIFY THE OWNER AND THE
MASONRY SO DESIGNATED ON	6. ANY	DAMA	GE OCCURRING TO THE EXISTING STRUCTURE BEFORE RESUMI GE OCCURRING TO THE EXISTING STRUCTURE, ADJACENT STR PODERTIES SHALL BE REINSTALLED TO THE ORIGINAL CONDITION	UCTURES, ST	DNS. REETS, SIDEWALKS, UTILITY LINES OR ANY OTHER PUBLIC OR CONTRACTOR AT NO COST TO THE OWNER OR THE ENGINEER
	7. ALL 8. ALL	OPENI	NGS IN EXISTING CONSTRUCTION SHALL BE SAW CUT OR DRII ING INFORMATION SHOWN IS REFERENCED FROM EXISTING DR	LLED. RAWINGS PRE	EPARED BY:
ARCHITECTURAL DRAWINGS AND	CJM	W ARC	HITECTS AND ENGINEERS, DATED FEBRUARY 10, 2003.		
NGTH SHALL BE 2,000 PSI. ENGTH SHALL BE DETERMINED BY THE			FRAMING INFORMATION SHOWN ON THE STRUCTURAL DRAWIN		N PREPARED BASED ON SITE VISITS AND/OR EXISTING DRAWINGS
	IN L	OCATI	ONS WHERE NEW FRAMING IS CONNECTING TO EXISTING FRAMING IS CONNECTING TO EXISTING FRAMING PRAMING CREATION, MATERIAL FABRICATION, OR WORK BEING PRAMING PRAMING CREATION, MATERIAL FABRICATION, OR WORK BEING PRAMING PRAM	MING, THE CO	N PREPARED BASED ON SITE VISITS AND/OR EXISTING DRAWINGS. ONTRACTOR SHALL VERIFY THE EXISTING CONDITION PRIOR TO FLECTIVE DEMOLITION SHALL BE INCLUDED IF REQUIRED TO
	VER 2. DET	IFY EX	ISTING CONDITIONS. OTED ON THE STRUCTURAL DRAWINGS ARE DERIVED FROM TH	HE INFORMAT	ION NOTED HEREIN. IT IS THE RESPONSIBILITY OF THE
OWED. PROVIDE CLEANOUT OPENINGS AT FILLED WITH GROUT.	CON MAT	NTRACT	OR TO FIELD MEASURE EXISTING MEMBERS AT POINT OF CON DETAILS PROVIDED IN THE STRUCTURAL DRAWINGS.	NECTION, EL	EVATIONS, AND LOCATIONS TO ENSURE EXISTING CONSTRUCTION
T SHALL BE RECONSOLIDATED BY	3. ANY REL	DIME	NSIONS SHOWN FROM NEW FRAMING TO EXISTING FRAMING A MEMBER DIMENSIONS SHALL BE FIELD VERIFIED PRIOR TO TO	RE APPROXIM HE COMMENC	1ATED AND MUST BE FIELD VERIFIED. ALL DIMENSIONS THAT EMENT OF CONSTRUCTION.
S TO "HIGH LIFT" GROUTING. E GROUT AROUND REINFORCING. DO NOT	4. SIE TO		INECTION DESIGN OF NEW FRAMING, UNLESS SPECIFICALLY S ISTING STEEL. DESIGN AND DETAILING OF THE STEEL CONNEC IN THE STRUCTURAL STEEL SECTION OF THESE CEMERAL NOTE	HOWN, IS AS CTIONS ARE 1	SUMED TO BE SIMPLE SHEAR CONNECTIONS AND TO BE WELDED THE RESPONSIBILITY OF THE FABRICATOR, AND ARE COVERED MEMBEDS SUDDOPTING NEW EDAMING HAVE BEEN DEVIEWED BY
	THE	ENGI	IEER OF RECORD AND ARE CAPABLE (WITH ADDED REINFORCI	NG WHERE DE	ETAILED) OF SUPPORTING THE NEW FRAMING.
ERSECTIONS WHERE SEQUENCING OR					
	REPROD	UCTIC	N		
NFORCED CELLS (MINIMUM) OR AS	1. THE IN L	USE C	F REPRODUCTIONS OF THESE CONTRACT DRAWINGS BY ANY C PREPARATION OF SHOP DRAWINGS SIGNIFIES HIS ACCEPTAN	CONTRACTOR,	SUBCONTRACTOR, ERECTOR, FABRICATOR, OR MATERIAL SUPPLIE FORMATION SHOWN HEREIN AS CORRECT, AND OBLIGATES
AINED BETWEEN REINFORCING AND DRCED CELLS UNLESS OTHERWISE	HIM	ISELF I	O ANY JOB EXPENSE, REAL OR IMPLIED, ARISING DUE TO ANY	ERRURS THA	T MAY OCCUR HERE ON.
CELLS.	SYMBOL	LEGE	ND		
	SYMB	OL	MEANING		
5 (AISC 360).	•		SPOT ELEVATION. ELEVATION RELATIVE TO REFERENCE ELEV	ATION.	
	<no:< td=""><td>> <no></no></td><td>TOP OF FOOTING, GRADE BEAM, PILE CAP, OR DRILLED PIER.</td><td>ELEVATION F</td><td>RELATIVE TO REFERENCE ELEVATION.</td></no:<>	> <no></no>	TOP OF FOOTING, GRADE BEAM, PILE CAP, OR DRILLED PIER.	ELEVATION F	RELATIVE TO REFERENCE ELEVATION.
			DEPRESSED OR RAISED SLAB ELEVATION, SEE "TYPICAL STEP IN	P IN SLAB ON	GRADE" DETAIL. ELEVATION RELATIVE TO REFERENCE ELEVATION.
	F#	<u> </u>	SPREAD FOOTING TYPE, SEE SCHEDULE.		
SIDES OF MEMBER. WELD SIZES SHALL					
	ABBREV	IATIO	NS		
	@ &	AT AN	D	HD HI	HEADED HIGH
O LOCATION AND TYPE OF SPLICE TO BE	Ø AB	DI/ AN	AMETER CHOR BOLTS	HORIZ HSS	HORIZONTAL HOLLOW STRUCTURAL SECTION
R ALL STRUCTURAL STEEL WELDS.	ACI ADDL	AM AD	ERICAN CONCRETE INSTITUTE DITIONAL	INT JT	INTERIOR JOINT
D AFTER FABRICATION. ELOPE WITH A 1/4" (MINIMUM) FITTED	AFF	AD AB AM	RESIVE OVE FINISHED FLOOR FRICAN INSTITUTE OF STEEL CONSTRUCTION	K KB KSI	KIP(S) KNEE BRACE KIPS PER SOLIARE INCH
THE STRUCTURAL DRAWINGS OR SHOP	AISI	AM AL	ERICAN IRON AND STEEL INSTITUTE	LB	LONG BAR POUNDS
5) AS DEFINED BY THE AISC CODE OF	ARCH ASTM	AR AM	CHITECT'S / ARCHITECTURAL ERICAN SOCIETY FOR TESTING AND MATERIALS	LLH LLV	LONG LEG HORIZONTAL LONG LEG VERTICAL
	AWS B/ or BOT	AM F BO	ERICAN WELDING SOCIETY TTOM	LO LOC	LOW LOCATION
	BEB	BO BO BE	TTOM CHORD EXTENSION TTOM FLANGE BRACE OW FINISHED FLOOR	LSH LSV	LONG SIDE HORIZONTAL LONG SIDE VERTICAL LIGHT WEIGHT CONCRETE
HE NORTH AMERICAN SPECIFICATION FOR	BLDG BM	BU BE	ILDING AM	MAX	MAXIMUM MOMENT CONNECTION
S ENGINEER. AT ARCHITECT'S OR SED TO SUPPORT CEILINGS AND EXTERIOR	BOS BRG	BO BE	ARING	MCJ MECH	MASONRY CONTROL JOINT MECHANICAL
60 GALVANIZED COATING MEETING THE	BTWN CANT	BE CA	TWEEN NTILEVER	MFR MID	MANUFACTURER MIDDLE
ONLY MANUFACTURERS WHO ARE	CJ CL	CO CE	NTROL JOINT NTERLINE	MIN MISC	MINIMUM MISCELLANEOUS MIDDLE OF WAL
OCIATION (SFIA) WILL BE ACCEPTED. THE	CLR CMU	CO	-AR NCRETE MASONRY UNIT	MOW MP No.or.#	MIDDLE OF WALL MASONRY PILASTER NUMBER
IG. THEY SHALL ALSO INDICATE	CONC	CO CO	NCRETE NNECTION	NS NTS	NEAR SIDE NOT TO SCALE
AND NUMBER OF SCREWS FOR ALL	CONST JT CONT	r co co	NSTRUCTION JOINT NTINUOUS	NWC OC	NORMAL WEIGHT CONCRETE ON CENTER
PROFESSIONAL ENGINEER LICENSED IN	CONTR COORD	CO CO	NTRACTOR ORDINATE	OPNG OPP	OPENING OPPOSITE HAND
10M YIELD STRENGTH OF 50 KSI AND	CTRD d	CE NA	NTERED ILS (PENNY)	PAF PED	POWDER ACTUATED FASTENER PEDESTAL
VERTICAL DISPLACEMENT OF THE UCTURE AND SCREW ATTACHMENT TO	DBA	DE	FORMED BAR ANCHOR FLECTION	PL PSF	PLATE POUNDS PER SQUARE FOOT POUNDS PER SQUARE INCH
STED IN ACCORDANCE TO ICC AC261			TAIL	PT	PRESSURE TREATED
	DEPR DET DIAG		AGONAL	P-T	
	DEPR DET DIAG DIM DIST	DI DI DI DI	AGONAL MENSION STANCE	P-T REF REINF	REFERENCE REINFORCING
	DEPR DET DIAG DIM DIST DWG(S) DWL(S)	DI DI DI DI DR DC	AGONAL MENSION STANCE AWING(S) WEL(S)	P-T REF REINF REQD SB	REFERENCE REINFORCING REQUIRED SHORT BAR
	DEPR DET DIAG DIM DIST DWG(S) DWL(S) EA EE	DI DI DI DI DI DI DI DI DI DI DI EA	AGONAL MENSION STANCE AWING(S) WEL(S) CH CH END	P-T REF REINF REQD SB SCHD SIM	REFERENCE REINFORCING REQUIRED SHORT BAR SCHEDULE SIMILAR
	DEPR DET DIAG DIM DIST DWG(S) DWL(S) EA EE EF EJ	DI DI DI DI DI EA EA EA EA	AGONAL MENSION STANCE AWING(S) WEL(S) CH CH END CH FACE PANSION JOINT	P-T REF REINF REQD SB SCHD SIM SOG SPEC(S)	REFERENCE REINFORCING REQUIRED SHORT BAR SCHEDULE SIMILAR SLAB ON GRADE SPECIFICATION(S)
	DEPR DET DIAG DIM DIST DWG(S) DWL(S) EA EE EF EJ ELEV EMBED FNGP	DI DI DI DI DI DI EA EA EA EA EA EA	Agonal Mension Stance Awing(S) Wel(S) CH CH END CH FACE PANSION JOINT EVATION BEDDED / EMBEDMENT GINEER	P-T REF REINF REQD SB SCHD SIM SOG SPEC(S) SQ STD STIFF	REFERENCE REINFORCING REQUIRED SHORT BAR SCHEDULE SIMILAR SLAB ON GRADE SPECIFICATION(S) SQUARE STANDARD STIFFENFR
	DEPR DET DIAG DIM DIST DWG(S) DWL(S) EA EE EF EJ ELEV EMBED ENGR EOD EOS	DI DI DI DI DI DI DI DI DI EA EA EA EA EA EA EA EA EA EA EA EA EA	Agonal Mension Stance Awing(S) Wel(S) CH CH END CH FACE PANSION JOINT EVATION BEDDED / EMBEDMENT GINEER GE OF DECK GE OF SLAB	P-T REF REINF REQD SB SCHD SIM SOG SPEC(S) SQ STD STIFF STIRR STL	REFERENCE REINFORCING REQUIRED SHORT BAR SCHEDULE SIMILAR SLAB ON GRADE SPECIFICATION(S) SQUARE STANDARD STIFFENER STIRRUP(S) STEEL
	DEPR DET DIAG DIM DIST DWG(S) DWL(S) EA EE EF EJ ELEV EMBED ENGR EOD EOS EQ EQUIP	DI DI DI DI DI DI DI DI DI DI DI DI DI D	Agonal Mension Stance Awing(S) Wel(S) CH CH END CH FACE PANSION JOINT EVATION BEDDED / EMBEDMENT GINEER GE OF DECK GE OF SLAB UAL UIPMENT	P-T REF REINF REQD SB SCHD SIM SOG SPEC(S) SQ STD STIFF STIRR STL STR T/	REFERENCE REINFORCING REQUIRED SHORT BAR SCHEDULE SIMILAR SLAB ON GRADE SPECIFICATION(S) SQUARE STANDARD STIFFENER STIRRUP(S) STEEL STRUCTURAL TOP
	DEPR DET DIAG DIM DIST DWG(S) DWL(S) EA EE EF EJ ELEV EMBED ENGR EOD EOS EQ EQUIP EW EW EXIST	DI DI DI DI DI DI DI DI DI DI DI DI DI D	AGONAL MENSION STANCE AWING(S) WEL(S) CH CH END CH FACE PANSION JOINT EVATION BEDDED / EMBEDMENT GINEER GE OF DECK GE OF DECK GE OF SLAB UAL UIPMENT CH WAY	P-T REF REINF REQD SB SCHD SIM SOG SPEC(S) SQ STD STIFF STIRR STL STR T/ TCX TOC	REFERENCE REINFORCING REQUIRED SHORT BAR SCHEDULE SIMILAR SLAB ON GRADE SPECIFICATION(S) SQUARE STANDARD STIFFENER STIRRUP(S) STEEL STRUCTURAL TOP TOP CHORD EXTENSION TOP CHORD CONCRETE
	DEPR DET DIAG DIM DIST DWG(S) DWL(S) EA EE EF EJ ELEV EMBED ENGR EOD EOS EQ EQUIP EW EXIST EXP EXT	DI DI DI DI DI DI DI DI DI DI DI DI DI D	AGONAL MENSION STANCE AWING(S) WEL(S) CH CH END CH FACE PANSION JOINT EVATION BEDDED / EMBEDMENT GINEER GE OF DECK GE OF SLAB UAL UIPMENT CH WAY STING PANSION FERIOR	P-T REF REINF REQD SB SCHD SIM SOG SPEC(S) SQ STD STIFF STIRR STL STR T/ TCX TOC TOF TOS TOW	REFERENCE REINFORCING REQUIRED SHORT BAR SCHEDULE SIMILAR SLAB ON GRADE SPECIFICATION(S) SQUARE STANDARD STIFFENER STIRRUP(S) STEEL STRUCTURAL TOP TOP CHORD EXTENSION TOP CHORD EXTENSION TOP CHORD CONCRETE TOP OF FOOTING TOP OF STEEL

FACE OF WALL

FAR SIDE

FOOTING

GALVANIZED GIRDER TRUSS

GAUGE

FOW

FTG

GALV

GA

VERT

VIF

WWF

I W/

WP

VERTICAL

WORK POINT

WITH

VERIFY IN FIELD

WELDED WIRE FABRIC

STATEMENT OF SPECIAL INSPECTIONS

THIS STATEMENT OF SPECIAL INSPECTIONS IS SUBMITTED AS A CONDITION FOR PERMIT ISSUANCE IN ACCORDANCE WITH THE SPECIAL INSPECTION REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE. IT INCLUDES A SCHEDULE OF SPECIAL INSPECTION SERVICES APPLICABLE TO THIS PROJECT, THE NAME OF THE SPECIAL INSPECTOR, THE IDENTITY OF OTHER APPROVED AGENCIES RETAINED FOR CONDUCTING SPECIAL INSPECTIONS, AND THE REQUIRED INSPECTOR QUALIFICATIONS. THIS STATEMENT OF SPECIAL INSPECTIONS WAS PREPARED BY THE DESIGNERS OF RECORD.

THE SPECIAL INSPECTOR SHALL KEEP RECORDS OF ALL SPECIAL INSPECTIONS AND TESTS AND SHALL FURNISH REPORTS TO THE CONTRACTOR, OWNER, AND THE DESIGNERS OF RECORD. REPORTS SHALL INDICATE IF THE WORK INSPECTED OR TESTED WAS OR WAS NOT COMPLETED IN CONFORMANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS. DISCOVERED DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF SUCH DISCREPANCIES ARE NOT CORRECTED, THE DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER AND THE DESIGNERS OF RECORD. THE SPECIAL INSPECTIONS PROGRAM DOES NOT RELIEVE THE CONTRACTOR OF HIS OR HER RESPONSIBILITIES. JOB SITE SAFETY AND MEANS AND METHODS OF CONSTRUCTION ARE SOLELY THE RESPONSIBILITY OF THE CONTRACTOR.

MONTHLY INTERIM REPORTS SHALL BE SUBMITTED TO THE CONTRACTOR, OWNER, AND THE DESIGNERS OF RECORD. A FINAL REPORT OF SPECIAL INSPECTIONS DOCUMENTING COMPLETION OF ALL REQUIRED SPECIAL INSPECTIONS, TESTING, AND CORRECTION OF ANY DISCREPANCIES SHOULD BE SUBMITTED PRIOR TO ISSUANCE OF A CERTIFICATE OF USE AND OCCUPANCY.

PROJECT INFORMATION			
CODE ENFORCEMENT PROJECT #:			
PERMIT #:			
PROJECT NAME:	RENOVATIONS TO HENDERSONVILLE CIT	ry hall	
PROJECT ADDRESS:	160 6TH AVE HENDERSONVILLE, NC 28	3792	
OWNER:	CITY OF HENDERSONVILLE, NC		
OWNER ADDRESS:	160 6TH AVE, HENDERSONVILLE, NC 23	8792	
SPECIAL INSPECTOR OF RECORD:	TBD		
SPECIAL INSPECTOR ADDRESS:	STREET ADDRESS CITY, STATE ZIP		
DESIGN TEAM			
STRUCTURAL (RDPIRC) FIRM:	STEWART	ENGINEER OF RECORD:	JAMES V WILLIAMS, PE
ARCHITECTURAL FIRM:	ADW ARCHITECTS	ARCHITECT OF RECORD:	JAMES POWELL, AIA

RN&M ENGINEERS

SCHEDULE OF SPECIAL INSPECTIONS

MECHANICAL FIRM:

THE INSPECTION AND TESTING AGENTS SHALL BE ENGAGED BY THE OWNER OR THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE ACTING AS THE OWNER'S AGENT, AND NOT BY THE CONTRACTOR OR SUBCONTRACTOR WHOSE WORK IS TO BE INSPECTED OR TESTED. ANY CONFLICT OF INTEREST MUST BE DISCLOSED TO THE OWNER, PRIOR TO COMMENCING WORK.

ENGINEER OF RECORD: MARK R MCDOWELL, PE

PRIOR TO STARTING WORK THE OWNER SHALL BE PROVIDED WITH THE NAME AND RESUME FOR THE DESIGNATED SPECIAL INSPECTOR FOR THE PROJECT. THE DESIGNATED SPECIAL INSPECTOR SHALL BE A PROFESSIONAL ENGINEER OR REGISTERED ARCHITECT LICENSED IN THE STATE IN WHICH THE PROJECT IS LOCATED AND BE APPROVED BY THE OWNER. INDIVIDUALS PROVIDING INSPECTIONS SHALL MEET THE FOLLOWING MINIMUM CRITERIA OF CERTIFICATION AND/OR DOCUMENTED EXPERIENCE. WORK EXPERIENCE MUST BE RELATED TO THE FIELD FOR WHICH THE INSPECTOR IS BEING UTILIZED. WORK EXPERIENCE MAY BE GAINED BY WORKING FOR AN INSPECTION/TESTING AGENCY, AN ENGINEERING FIRM, OR A CONTRACTOR AS A TECHNICIAN, INSPECTOR OR ENGINEER.

THE DESIGNATED SPECIAL INSPECTOR SHALL BE RESPONSIBLE FOR COLLECTING AND APPROVING DOCUMENTATION OF QUALIFICATIONS FOR ALL INSPECTORS. COPIES OF DOCUMENTATION OF QUALIFICATIONS, INCLUDING THE QUALIFICATIONS OF THE INDEPENDENT TESTING LABORATORY IF THEY ARE PROVIDING SPECIAL INSPECTION SERVICES, SHALL BE MAINTAINED BY THE SPECIAL INSPECTOR AND BE MADE AVAILABLE FOR OWNER REVIEW AS REQUESTED.

THE FOLLOWING TABLES COMPRISE THE REQUIRED SCHEDULE OF SPECIAL INSPECTIONS FOR THIS PROJECT. THE INSPECTION FREQUENCY INDICATED ON THE TABLES ARE "C" CONTINUOUS, "P" PERIODIC, AND "O" RANDOMIZED ON A DAILY BASIS. THE CONSTRUCTION DIVISIONS WHICH REQUIRE SPECIAL INSPECTIONS FOR THIS PROJECT ARE AS FOLLOWS:

<u>REQD</u>	ITEM	DIVISION	PRIMARY INSPECTOR/SUPERVISOR
×	IT-1	SPECIAL CASES AND SPECIFIC ELEMENTS ALWAYS REQUIRED	AS IDENTIFIED BY THE RDPIRC
	IT-2A	STRUCTURAL STEEL AND HIGH-STRENGTH BOLTING	ICC STRUCTURAL STEEL AND BOLTING INSPECTOR CERTIFICATE
			(PLUS ONE YEAR OF RELATED EXPERIENCE)
	IT-2B	WELDING OF STRUCTURAL STEEL	ICC STRUCTURAL WELDING SPECIAL INSPÉCTOR CERTIFICATE
_			(PLUS ONE YEAR OF RELATED EXPERIENCE), OR AWS D1.1
			CERTIFIED WEIDING INSPECTOR OR NOT LEVEL III CERTIFICATE
_			ICC STRUCTURAL STEEL AND POLITING INSPECTOR SEPTERATE
	11-2C	COLD-FORMED STEEL DECKING	ICC STRUCTURAL STEEL AND BULTING INSPECTOR CERTIFICATE
			(PLUS ONE YEAR OF RELATED EXPERIENCE), OR ICC STRUCTURAL
			WELDING SPECIAL INSPECTOR CERTIFICATE (PLUS ONE YEAR OF
			RELATED EXPERIENCE), OR ICC COMMERCIAL BUILDING
			INSPECTOR CERTIFICATE (PLUS ONE YEAR OF RELATED
			EXPERIENCE)
		OPEN-WEB STEEL JOISTS AND JOIST GIRDERS	ICC STRUCTURAL STEEL AND BOLTING INSPECTOR CERTIFICATE
	11 20		
_	TT 25	COLD FORMED STEEL FRAMING	(PLUS ONE TEAR OF RELATED EXPERIENCE)
	11-2E	COLD-FORMED STEEL FRAMING	ICC STRUCTURAL STEEL AND BULTING INSPECTOR CERTIFICATE
			(PLUS ONE YEAR OF RELATED EXPERIENCE), OR ICC STRUCTURAL
			WELDING SPECIAL INSPECTOR CERTIFICATE (PLUS ONE YEAR OF
			RELATED EXPERIENCE), OR ICC COMMERCIAL BUILDING
			INSPECTOR CERTIFICATE (PLUS ONE YEAR OF RELATED
_	TT 2		
	11-3	CONCRETE CONSTRUCTION	ICC REINFORCED CONCRETE SPECIAL INSPECTOR CERTIFICATE
			AND ACI CONCRETE FIELD TESTING TECHNICIAN CERTIFICATE,
			GRADE 1, OR ACI CONCRETE CONSTRUCTION SPECIAL
			INSPECTOR CERTIFICATE, OR NICET CONCRETE TECHNICIAN
			LEVEL III CERTIFICATE IN CONSTRUCTION MATERIALS TESTING
	IT-4	MASONRY CONSTRUCTION	ICC STRUCTURAL MASONRY SPECIAL INSPECTOR CERTIFICATE
	11 4		
_			(PLUS ONE TLAR OF RELATED EXPERIENCE)
	11-5	WOOD CONSTRUCTION	ICC COMMERCIAL BUILDING INSPECTOR CERTIFICATE (PLUS ONE
			YEAR OF RELATED EXPERIENCE)
	IT-6	SOILS	NICET SOILS TECHNICIAN LEVEL II CERTIFICATE IN
			CONSTRUCTION MATERIALS TESTING, OR NICET GEOTECHNICAL
			ENGINEERING TECHNICIAN LEVEL II CONSTRUCTION OR
			GENERALIST CERTIFICATE OR ICC SOTIS SPECIAL INSPECTOR
			CERTIFICATE (PLUS ONE TEAR OF RELATED EXPERIENCE), OR
			ENGINEER-IN-TRAINING (EIT) WITH ONE YEAR OF RELATED
			EXPERIENCE, OR GEOLOGIST-IN-TRAINING (GIT) WITH ONE YEAR
			OF RELATED EXPERIENCE
	IT-7	DRIVEN DEEP FOUNDATIONS	NICET SOILS TECHNICIAN LEVEL II CERTIFICATE IN
_			CONSTRUCTION MATERIALS TESTING OR NICET GEOTECHNICAL
			CENEDALIST CEDTIFICATE OD ENCINEED IN TRAINING (EIT)
			GENERALIST CERTIFICATE, OR ENGINEER-IN-TRAINING (EIT)
			WITH ONE YEAR OF RELATED EXPERIENCE, OR GEOLOGIST-IN-
			TRAINING (GIT) WITH ONE YEAR OF RELATED EXPERIENCE
	IT-8	CAST-IN-PLACE DEEP FOUNDATIONS	SEE IT-7
X	IT-9A	HELICAL PILE FOUNDATIONS	SEE IT-7
$\overline{\Box}$	IT-9B	RAMMED AGGREGATE PIERS AND STONE COLUMNS	SEF IT-7
	IT 10		
	11-10		
	11-11	WIND RESISTANCE	AS NOTED HEREIN FOR EACH COMPONENT TYPE
	IT-12	SEISMIC RESISTANCE	AS NOTED HEREIN FOR EACH COMPONENT TYPE
	IT-13A	SEISMIC RESISTANCE, STRUCTURAL STEEL AND HIGH-STRENGTH	AS NOTED HEREIN FOR EACH COMPONENT TYPE
		BOLTING	
П	IT-13B	SEISMIC RESISTANCE, WEIDING OF STRUCTURAL STEEL	AS NOTED HEREIN FOR EACH COMPONENT TYPE
	IT-13C	SEISMIC RESISTANCE, NON-DESTRUCTIVE TESTING OF WEIDED	
	11 150		
_	TT 100		
	11-13D	SEISMIC RESISTANCE, STEEL DRIVEN DEEP FOUNDATIONS	AS NOTED HEREIN FOR EACH COMPONENT TYPE
		(H-PILES)	
	IT-14	SPRAYED FIRE-RESISTANT MATERIALS	ICC SPRAY-APPLIED FIREPROOFING SPECIAL INSPECTOR
			CERTIFICATE, OR ICC FIRE INSPECTOR I CERTIFICATE (PLUS ONE
			YEAR OF RELATED EXPERIENCE
-	TT 15	MACTIC AND INTUMESCENT EIDE DESISTANT CONTINCS	CEE IT_ $1/$
	11-15		
	11-16	EXTERIOR INSULATION AND FINISH SYSTEMS (EIFS)	
	IT-17	FIRE-RESISTANT PENETRATIONS AND JOINTS	ICC FIRE INSPECTOR I CERTIFICATE (PLUS ONE YEAR OF
			RELATED EXPERIENCE)
	IT-18	SMOKE CONTROL	REGISTERED PROFESSIONAL ENGINEER (MECHANICAL OR FIRE
_	-		PROTECTION) AND CERTIFICATION AS AIR BALANCER OR AABC
	1	1	

IT-1: SPE	CIAL C	CASES AND SPECIFIC ELEMENTS ALWAYS REQUIRED		
	INSF	PECTION TASK	FREQ	REFERENCE
	1.	CONSTRUCTION MATERIALS AND SYSTEMS THAT ARE ALTERNATIVES TO MATERIALS	Р	IBC 1705.1.1.1
	2.	UNUSUAL DESIGN APPLICATIONS OF MATERIALS DESCRIBED IN THE IBC.	Р	IBC 1705.1.1.2
	3.	MATERIALS AND SYSTEMS REQUIRED TO BE INSTALLED IN ACCORDANCE WITH	Р	IBC 1705.1.1.3
		ADDITIONAL MANUFACTURER'S INSTRUCTIONS THAT PRESCRIBE REQUIREMENTS NOT		
X	4.	PILES, PIERS, AND SPECIAL FOUNDATIONS	Р	IBC 1705.1.2.1
	5.	SPRAYED FIRE-RESISTANT MATERIALS	P	IBC 1705.1.2.2
	6.	MASTIC AND INTUMESCENT FIRE-RESISTANT COATINGS	P	IBC 1705.1.2.3
	7.	SMOKE CONTROL AND SMOKE EXHAUST SYSTEMS	Р	IBC 1705.1.2.4
	8.	RETAINING WALLS (>5' IN HEIGHT OF UNBALANCED BACKFILL)		IBC 1705.1.2.5
		A. VERIFY FOUNDATION SUPPORT SYSTEM IS ADEQUATE FOR THE INTENDED SITE CONDITIONS.	Р	IBC 1807.2.5.1
		B. VERIFY THAT RETAINING WALL MATERIALS AND INSTALLATIONS ARE IN COMPLIANCE WITH THE CONTRACT DOCUMENTS.	Р	IBC 1807.2.5.2
		C. VERIFY THAT ACTUAL SOIL CONDITIONS ARE SIMILAR TO THOSE ANTICIPATED BY THE APPROVED ENGINEERED DESIGN.	Р	IBC 1807.2.5.3
		D. EXAMINE BACKFILL MATERIALS FOR COMPLIANCE WITH THE CONTRACT DOCUMENTS.	Р	IBC 1807.2.5.4
		E. CONFIRM THAT ALL SUBSOIL DRAINAGE PIPING IS UNDAMAGED, DRAINS FREELY TO THE DESIGNATED OUTLET OR STRUCTURE, AND HAS BEEN INSTALLED PER THE APPROVED ENGINEERED DESIGN.	Р	IBC 1807.2.5.4
		FOR SOILS PERFORM ADDITIONAL TESTS AND INSPECTIONS PER IBC 1705.6 AND THE APPLICABLE SCHEDULES HEREIN. FOR CONCRETE WALLS AND FOOTINGS PERFORM ADDITIONAL TESTS AND INSPECTIONS PER IBC 1705.3 AND THE APPLICABLE SCHEDULES HEREIN. FOR MASONRY WALLS PERFORM ADDITIONAL TESTS AND INSPECTIONS PER IBC 1705.4 AND THE APPLICABLE SCHEDULES HEREIN.		
IT-9A: HE	LICAL	PILE FOUNDATIONS		

 <u>INSPECTION TASK</u> OBSERVE INSTALLATION AND RECORD EQUIPMENT USED, PILE DIMENSIONS, LOCATION, AND FINAL DEPTH, TIP ELEVATIONS, FINAL INSTALLATION TORQUE, AND DOCUMENT ANY DAMAGE OR ANOMALIES. 	<u>FREQ</u> C	REFERENCE IBC 1705.9

SLAB F	
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(2)#3	
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<u>S300</u> 3/4" =	

	EXISITING SOLID MASONRY WALL TOS +10'-8" BRILL 5" INTO EXISTING BRICK AND EPOXY IN PLACE WITH SIMPSON ET-HP EPOXY I I I I I I I I I I I I I I I I I I

PLUMBING SPECIFICATIONS
IT IS THE INTENT OF THESE SPECIFICATIONS TO FURNISH A COMPLETE PLUMBING SYSTEM, FULLY ADJUSTED, AND READY FOR USE.
ALL WORK SHALL BE DONE IN COMPLIANCE WITH NORTH CAROLINA BUILDING CODE AND ALL LOCAL CODES.
THIS CONTRACTOR SHALL GIVE ALL NECESSARY NOTICES, OBTAIN ALL PERMITS AND PAY ALL SALES TAXES, TAP AND METER FEES, AND OTHER COSTS, IN CONNECTION WITH HIS WORK.
ALL MATERIAL AND EQUIPMENT HAS BEEN CAREFULLY SELECTED FOR THIS PROJECT AND THE CONTRACTOR IS EXPECTED TO PROVIDE ALL ITEMS AS CLOSELY AS POSSIBLE TO THE SPECIFICATIONS AND AS CALLED FOR ON THE DRAWINGS.
ALL INCIDENTAL CONSTRUCTION WORK TO BE INCLUDED BY THIS CONTRACTOR.
SUBMIT ELECTRONIC FILE OF EQUIPMENT DATA SHOP DRAWINGS TO ENGINEER FOR ALL ITEMS TO BE FURNISHED AND INSTALLED FOR APPROVAL.
THIS CONTRACTOR SHALL INCLUDE IN THE WORK, WITHOUT EXTRA COST TO THE OWNER, ANY LABOR, MATERIALS, SERVICES, APPARATUS, DRAWINGS IN ORDER TO COMPLY WITH ALL APPLICABLE LAWS, ORDINANCES, RULES AND REGULATIONS, WHETHER OR NOT SHOWN ON DRAWINGS AND/OR SPECIFIED. NO CLAIM FOR EXTRA WILL BE APPROVED WITHOUT PRIOR COORDINATION FOR CONFLICTS BY CONTRACTOR, AND WRITTEN REQUEST AND APPROVAL PRIOR TO PERFORMING WORK.
ALL WORK AND EQUIPMENT TO BE GUARANTEED BY CONTRACTOR FOR ONE (1) YEAR.
UPON COMPLETION OF ALL WORK AND ALL TESTS, INSTRUCT THE OWNER OR HIS REPRESENTATIVE FULLY IN THE OPERATIONS, ADJUSTMENTS, AND MAINTENANCE OF ALL EQUIPMENT FURNISHED. PROVIDE OWNER MAINTENANCE SCHEDULE FOR THE PRINCIPAL ITEMS OF EQUIPMENT FURNISHED. MANUFACTURER'S ADVERTISING LITERATURE OR CATALOGS WILL NOT BE ACCEPTABLE.
ALL MATERIALS AND EQUIPMENT TO BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS AND GOOD RECOMMENDED PRACTICES.
ALL WORK AND MATERIALS SHALL MEET APPROVAL OF ARCHITECT/ENGINEER.
THIS CONTRACTOR SHALL GIVE FULL COOPERATION TO OTHER TRADES. WHERE THE WORK OF THIS CONTRACTOR WILL BE INSTALLED IN CLOSE PROXIMITY TO, OR WILL INTERFERE WITH WORK OF OTHER TRADES, HE SHALL ASSIST IN WORKING OUT SPACE CONDITIONS TO MAKE SATISFACTORY ADJUSTMENTS, IF THIS CONTRACTOR INSTALLS HIS WORK BEFORE COORDINATING WITH OTHER TRADES, HE SHALL MAKE THE NECESSARY CHANGES IN HIS WORK TO CORRECT THE CONDITION WITHOUT EXTRA CHARGE.
DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENTS OF SYSTEMS AND WORK INCLUDED IN THE CONTRACT. DRAWINGS ARE NOT TO BE SCALED.
SOIL, WASTE AND VENT PIPING UNDERGROUND INSIDE BUILDING TO BE CAST IRON HUB AND SPIGOT SOIL PIPE WITH COMPRESSION JOINTS. ABOVE FLOOR CAST IRON NO HUB SOIL PIPE WITH COUPLING ASSEMBLY. PIPE UNDER PAVED AREA TO BE CAST IRON.
DOMESTIC WATER PIPE UNDERGROUND TYPE "K" COPPER. ABOVE GROUND, TYPE "L" HARD DRAWN COPPER.
ALL HOT AND COLD WATER PIPING ABOVE GRADE WITHIN BUILDING SHALL BE INSULATED. HOT WATER PIPE INSULATION SHALL BE 1" THICK, AND COLD WATER INSULATION SHALL BE 1/2" THICK SECTIONAL TYPE, FIBROUS GLASS OR CELLULAR TYPE INSULATION (ARMAFLEX).
ALL LINES TO BE INSULATED CONTINUOUSLY AND SUFFICIENTLY TO PREVENT FREEZING IN EXTREME CONDITIONS. WHERE PIPES ARE INSTALLED IN CEILING PLENUM ABOVE BATT INSULATION, THE BATT INSULATION SHALL BE LOOPED UP OVER THE WATER PIPES. IF IN WALL CHASE, CHASE TO BE LINED WITH STYROFOAM OR FIBERGLASS INSULATION. IF IN CONCRETE BLOCK CELLS, PIPE TO BE INSULATED WITH 3/4" ARMAFLEX AND BLOCKS FILLED WITH GRANULAR STYROFOAM PELLETS.
CONTROL VALVES FOR HOT AND COLD WATER LINES SHALL BE BALL VALVES, SWEAT TYPE.
PROVIDE ALL PLUMBING PIPING AND EQUIPMENT IN CONNECTION WITH THE SYSTEM.
PROVIDE ALL HANGERS AND SUPPORTS TO SUPPORT PIPING AND EQUIPMENT. HANGERS AND SUPPORTS IN CONTACT WITH COPPER PIPE SHALL BE COPPER PLATES OR BRASS.
CONTROL VALVES TO BE ON WATER CONNECTIONS TO ALL FIXTURES AND EQUIPMENT.
INSULATE HOT WATER SUPPLY PIPE AND DRAIN PIPE ON LAVATORY FOR HANDICAPPED.
CEILING FIBERGLASS INSULATION SHALL BE LAPPED OVER HOT AND COLD WATER PIPING IN CEILING SPACE IN ADDITION TO PIPE INSULATION SPECIFIED TO PREVENT FREEZING WHERE APPLICABLE.
THIS CONTRACTOR TO PERFORM ALL ADJUSTMENTS AND DISINFECTION OF SYSTEMS, EQUIPMENT, CONTROLS, ETC., NECESSARY FOR THE SYSTEM TO PROVIDE THE REQUIRED PERFORMANCE AND TO OPERATE SAFELY. SUBMIT "AS-BUILT" DRAWINGS TO ENGINEER SHOWING ACTUAL INVERTS AND LOCATIONS OF UNDERGROUND LINES, AND ALL CHANGES.
ALL PIPING SHALL BE THOROUGHLY FLUSHED OUT BEFORE USE.
THE WATER SYSTEM, AFTER IT HAS BEEN COMPLETED, TESTED AND THOROUGHLY FLUSHED TO REMOVE MUD AND DEBRIS, SHALL BE DISINFECTED BY CHLORINATION.
PROVIDE CLEAN OUTS LOCATED NOT MORE THAN 100' APART IN HORIZONTAL DRAINAGE LINES OR 4" NOMINAL DIAMETER OR LESS. CLEAN OUTS MUST BE INSTALLED FOR EVERY FOUR HORIZONTAL 45° CHANGES LOCATED IN SERIES AND AT THE BASE OF EACH STACK.
SUSPENDED WATER LINES TO BE BRACED TO PREVENT SWAYING DURING THE OPERATION OF VALVES/EQUIPMENT.
GENERAL PLUMBING NOTES
1. THIS CONTRACTOR SHALL VERIFY THE EXACT LOCATIONS AND PLACEMENTS OF PLUMBING FIXTURES AND EQUIPMENT WITH THE SITE AND ARCHITECTURAL DRAWINGS, INCLUDING REFLECTED CEILING PLANS, INTERIOR ELEVATIONS, DETAILS, AND SECTIONS PRIOR TO ROUGH-IN; OR RELOCATE AS DIRECTED BY THE DESIGNER/ENGINEER AT NO ADDITIONAL COST TO THE OWNER.
2. ALL PIPING, FIXTURES, EQUIPMENT, ETC. SHOWN ON THESE DRAWINGS SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE STATE AND LOCAL CODE REQUIREMENTS.
3. ALL PIPING, SLEEVES, INSERTS, AND OTHER ROUGH-IN MATERIALS SHALL BE INSTALLED AS BUILDING CONSTRUCTION PROGRESSES.
4. PIPE HANGERS SHALL BE SIZED SO THAT INSULATION IS CONTINUOUS AT ALL HANGERS.
5. THIS CONTRACTOR SHALL COORDINATE WITH ALL OTHER CONTRACTORS AND TRADES TO LOCATE HIS WORK TO AVOID CONFLICTS.
6. EXISTING SERVICES INDICATED ON THESE DRAWINGS WERE REPRODUCED FROM EXISTING DRAWINGS AND LIMITED SITE OBSERVATIONS/VERIFICATION. THESE DRAWINGS MAY NOT BE ALL INCLUSIVE OF SERVICES THAT EXIST IN THE AREA OF WORK. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS AND LOCATIONS PRIOR TO CONSTRUCTION. ANY DIFFERENCE THAT IMPACT WORK SHOWN ON THESE DRAWINGS SHALL BE REPORTED TO THE ARCHITECT/ENGINEER FOR COORDINATION PRIOR TO CONSTRUCTION.

7. CLEAN OUTS SHALL BE INSTALLED WHERE SHOWN AND WHERE REQUIRED BY CODE.

8. THIS CONTRACTOR SHALL PROVIDE AND INSTALL ALL OFFSETS, FITTINGS, VALVES, AND ACCESSORIES THAT MAY BE REQUIRED FOR A COMPLETE AND PROPER INSTALLATION, OR RECOMMENDED BY THE EQUIPMENT MANUFACTURER, WHETHER OR NOT THEY ARE SPECIFICALLY SHOWN OR SPECIFIED.

9. INSTALL ALL PIPING INSIDE OF THERMAL ENVELOPE. SEE ARCHITECTURAL DRAWINGS.

10. INSTALL BALL VALVE STOPS ON ALL FIXTURE HOT WATER AND COLD WATER SUPPLIES.

11. ALL EQUIPMENT CONNECTIONS SHALL BE COORDINATED WITH EQUIPMENT DRAWINGS AND EQUIPMENT VENDOR. INSTALL ALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS. PROVIDE ALL NECESSARY PIPING, SHUT-OFF VALVES, P-TRAPS, PRVS, ETC. REQUIRED TO INSTALL EQUIPMENT AND MAKE

FINAL CONNECTIONS. 12. EXISTING FIXTURES, SERVICES, EQUIPMENT, ETC. TO REMAIN OR TO BE RELOCATED SHALL BE REPAIRED TO ORIGINAL OPERATION/CONDITION OR REPLACED, SHOULD THEY BE DAMAGED DURING CONSTRUCTION.

13. ALL DOMESTIC WATER PIPE, TRIM, AND FITTINGS TO BE LEAD FREE.

14. ALL VENTS THROUGH THE ROOF SHALL BE COMBINED AS PRACTICAL AND ALLOWED BY CODE, AND PENETRATE THE ROOF ON THE BACK SIDE OF THE BUILDING WHERE PRACTICAL. THIS CONTRACTOR SHALL COORDINATE DETAILS OF VENT PENETRATIONS AND FLASHING WITH THE ROOFING INSTALLER. ALL VENTS THROUGH THE ROOF SHALL BE LOCATED AT LEAST THE MINIMUM DISTANCE AWAY FROM AIR INTAKES AS REQUIRED BY CODE.

KEYED PLUMBING DEMOLITION NOTES NOTES APPLY TO THIS SHEET ONLY

	EXISTING PLUMBING FIXTURE TO BE REMOVED AND DISPOSED OF AS DIRECTED BY OWNER. REMOVE EXISTING FIXTURE WATER PIPING AND VENT BACK TO NEXT INTERSECTION AND CAP. REMOVE EXISTING FIXTURE WASTE BACK TO THE NEXT INTERSECTION AND CAP / OR PROVIDE NEW CLEAN OUT. NO DEAD END PIPING PERMITTED. PATCH FLOOR AND WALLS AS NEEDED TO MATCH EXISTING CONDITIONS AND THICKNESS. FIELD VERIFY EXACT LOCATIONS AND CONDITIONS.
2	EXISTING PLUMBING FIXTURE TO REMAIN IN PLACE AND PROTECTED DURING CONSTRUCTION.
3	EXISTING PLUMBING FIXTURE TO BE REMOVED AND DISPOSED OF AS DIRECTED BY OWNER. EXISTING PLUMBING ROUGH-INS TO REMAIN IN PLACE AND BE REWORKED AS NEEDED FOR NEW FIXTURE. SEE NEW PLAN AND PLUMBING FIXTURE SCHEDULE FOR ADDITIONAL INFORMATION. FIELD VERIFY EXACT LOCATIONS.
4	EXISTING FLOOR DRAIN TO BE REMOVED AND DISPOSED OF AS DIRECTED BY OWNER. REMOVE EXISTING FIXTURE WASTE AND VENT (WHERE APPLICABLE) BACK TO THE NEXT INTERSECTION AND CAP / OR PROVIDE NEW CLEAN OUT. NO DEAD END PIPING PERMITTED. PATCH FLOOR AND WALLS AS NEEDED TO MATCH EXISTING CONDITIONS AND THICKNESS. FIELD VERIFY EXACT LOCATIONS AND CONDITION

PLUMBING CONSTRUCTION TO NOT HINDER OPERATION OF OTHER FLOORS. ANY AND ALL SHUT-DOWNS TO BE COORDINATED WITH OWNER PRIOR TO WORK

NOTE:

COMMENCEMENT.

	PLUMBING FIXTURE SCHEDULE & SPECIFICATIONS								
ITEM	FIXTURE	ACCESSORIES	WASTE	VENT	TRAP	HW	CW	SERVICE VALVE	MOUNTING HGT.
P1	SINK: DROP-IN ELKAY MODEL # LRAD221955 ONE COMPARTMENT, STAINLESS STEEL	DROP-IN MODEL # LRAD221955 OMPARTMENT, STAINLESS STEEL - DELTA FAUCET MODEL # 9113-AR-DST FAUCET SET - ELKAY MODEL # LK99 DRAIN - McGUIRE BALL VALVE STOPS AND SUPPLIES - 17 GA. CHROME PLATED P-TRAP			1 1/2"	1/2"	1/2"	3/8"	COUNTER TOP MOUNTED. 5 1/2" DEEP - DRAIN AT CENTER REAR
P2	WATER SUPPLY BOX: RECESSED MOUNTED GUY GRAY MODEL # SSIB1 STAINLESS STEEL	- FURNISH COMPLETE					1/2"		WALL RECESSED
P3 WATER CLOSET: FLUSH VALVE TYPE KOHLER MODEL # K-96053-SS-0 "WELLCOMME ULTRA" VITREOUS CHINA COORDINATE COLOR W/ARCHITECT		- SLOAN ROYAL 111-1.6 FLUSH VALVE 1.6 GPF - BEMIS # 2155SSCT TOILET SEAT	4"	2"	INT.		1"	INT.	FL. MTD 15 3/16" A.F.F. TO RIM SEE NOTE 1
P3A	ADA WATER CLOSET: FLUSH VALVE TYPE KOHLER MODEL # K-96057-SS-0 "HIGHCLIFF ULTRA" VITREOUS CHINA COORDINATE COLOR W/ARCHITECT	- SLOAN ROYAL 111-1.6 FLUSH VALVE 1.6 GPF - BEMIS # 2155SSCT TOILET SEAT	4"	2"	INT.		1"	INT.	FL. MTD 16 5/8" A.F.F. TO RIM SEE NOTE 1
P4 URINAL: WALL HUNG KOHLER MODEL # K-5016-ET "DEXTER" VITREOUS CHINA - SLOAN MODEL # 186-0.5 FLUSH VALVE 0.5 GPF - CONCEALED ARM FLOOR CARRIER 2" 2" INT. 3/4" INT SEE AR ELEVAT					WALL HUNG- SEE ARCH. ELEVATIONS				
NOT 1. F 2. E 3. E 4. A 5. A 6. C	NOTES: 1. FLUSH VALVE HANDLES SHALL BE TO THE WIDE SIDE OF TOILET STALL PER N. C. ACCESSIBILITY CODE. 2. EQUAL FIXTURES BY AMERICAN STANDARD, SLOAN, OR APPROVED EQUAL. 3. EQUAL FITTINGS BY DELTA, SYMMONS, OR APPROVED EQUAL. 4. ALL HANDICAP SINKS TO BE PROVIDED WITH OFFSET TAILPIECE. 5. ALL HANDICAP SINK/LAVATORIES TO HAVE McGUIRE # PW2125WCPRO SEAMLESS PREWRAPPED P-TRAP AND SUPPLY INSULATION KIT 6. COORDINATE ALL INSTALLATION OF SINKS WITH CASEWORK SHOP DRAWINGS PRIOR TO ORDERING.								

PLUN	PLUMBING LEGEND						
	WASTE LINE						
	VENT LINE						
	COLD WATER (CW)						
	HOT WATER (HW)						
	BALL VALVE						
-							

	KEYED PLUMBING CONSTRUCTION NOTES NOTES APPLY TO THIS SHEET ONLY
1	CONNECT NEW 1/2 CW AND 1/2" HW PIPING TO EXISTING PIPING IN THIS LOCATION ABOVE CEILING. FIELD VERIFY EXACT LOCATIONS AND CONDITIONS.
2	CONNECT NEW 2" WASTE (BELOW FLOOR) AND 1 1/2" VENT (ABOVE CEILING) PIPING TO EXISTING PIPING IN EXISTING BATHROOM. PATCH EXISTING FLOORS AS NEEDED TO MATCH EXISTING CONDITIONS. FIELD VERIFY EXACT LOCATIONS AND CONDITIONS.

3 INSTALL NEW PLUMBING IN PREVIOUS FIXTURES LOCATION. CONNECT TO EXISTING ROUGH-INS THAT WERE PREPPED DURING DEMOLITION.

SHEET NUMBER

P101

GENERAL MECHANICAL DUCTWORK NOTES

- 1. THE DRAWINGS SHOW THE LOCATION AND ARRANGEMENT OF PIPING, DUCTS, AND EQUIPMENT, TOGETHER WITH DETAILS OF CONNECTIONS OF CERTAIN PRINCIPAL ITEMS. THE LAYOUT SHOWN SHALL BE FOLLOWED AS CLOSELY AS CIRCUMSTANCES WILL PERMIT, BUT THIS CONTRACTOR SHALL REFER TO ARCHITECTURAL, STRUCTURAL, PLUMBING, AND ELECTRICAL DRAWINGS AND SHALL COOPERATE FULLY WITH OTHER CONTRACTORS AND TRADES WHILE INSTALLING DUCTS, PIPING, AND OTHER EQUIPMENT BECAUSE OF CLOSE SPACE LIMITS. IN CASE OF CONFLICT, NOTIFY DESIGNER BEFORE PROCEEDING WITH INSTALLATION. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT BUILDING DIMENSIONS AND LOCATIONS OF PARTITION WALLS, DOORS, CHASES, CASEWORK, ETC. DO NOT SCALE MECHANICAL DRAWINGS FOR SUCH DIMENSIONS.
- THIS CONTRACTOR SHALL PROVIDE AND INSTALL ALL OFFSETS, FITTINGS, AND ACCESSORIES THAT MAY BE REQUIRED FOR A COMPLETE AND PROPER INSTALLATION, OR RECOMMENDED BY THE EQUIPMENT MANUFACTURER. WHETHER OR NOT THEY ARE SPECIFICALLY SHOWN OR SPECIFIED.
- 3. DUCTWORK SIZES INDICATED ON DRAWINGS ARE FREE INSIDE DIMENSIONS.
- 4. MAXIMUM LENGTH OF FLEXIBLE DUCT IS SIX FEET (6'). UTILIZE MEDIUM PRESSURE FLEX DUCT WHERE REQUIRED FOR MEDIUM PRESSURE.
- 5. ALL VALVES, DAMPERS, CONTROLS, AND OTHER ITEMS REQUIRED FOR OPERATION OR MAINTENANCE ARE TO BE ACCESSIBLE AND PROPERLY LABELED.
- 6. ALL SLEEVES, OUTLET BOXES, AND OTHER ROUGH-INS FOR SUCH ITEMS AS FIRE DAMPERS, PIPE PENETRATIONS, LOUVERS, AND CONTROL ITEMS SHALL BE INSTALLED AS THE BUILDING CONSTRUCTION PROGRESSES.
- 7. PROVIDE AND INSTALL VOLUME CONTROL DAMPERS AT ALL SUPPLY MAIN AND BRANCH DUCT TAKE-OFFS.
- 8. PROVIDE AND INSTALL DUCT ACCESS DOORS AT ALL SMOKE DAMPERS, FIRE DAMPERS, AND DUCT SMOKE DETECTORS. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR DUCT SMOKE DETECTOR LOCATIONS.
- 9. THIS CONTRACTOR SHALL TAKE FIELD MEASUREMENTS BEFORE FABRICATING ANY DUCTS TO ENSURE THAT DUCT SIZES SHOWN WILL FIT INTO AVAILABLE SPACE. IN CASE OF CONFLICT, NOTIFY THE DESIGNER BEFORE PROCEEDING.
- 10. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- 11. COORDINATE LOCATIONS OF ALL FLOOR DRAINS WITH PLUMBING CONTRACTOR, PRIOR TO SLABS BEING POURED.
- 12. COORDINATE EXACT LOCATION FOR ALL CEILING DIFFUSERS/GRILLES WITH ARCHITECTURAL REFLECTED CEILING PLAN AND ELECTRICAL CONTRACTOR'S LIGHTING LAYOUT.
- 13. ALL EMS SENSORS AND OTHER FIELD DEVICES MOUNTED ON WALLS TO BE PROTECTED FROM DAMAGE AS REQUIRED - INSTALL LEXAN COVERS, WIRE GUARDS, OR SIMILAR AS REQUIRED. COORDINATE CONDITIONS IN THE FIELD.
- 14. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TO THE PRIME CONTRACTOR OR GENERAL CONTRACTOR (WHERE APPLICABLE) THE QUANTITY, SIZE AND LOCATIONS OF ALL ACCESS DOORS IN WALLS, DRYWALL CEILINGS, ETC. FOR ACCESS TO VALVES, BALANCE DAMPERS OR OTHER EQUIPMENT AS REQUIRED. COORDINATE THIS WORK WITH THE REFLECTED CEILING PLANS. ALL VALVES OR OTHER DEVICES LOCATED ABOVE THE CEILING SHALL BE LOCATED IN ACCESSIBLE CEILINGS WHEREVER POSSIBLE. VERIFY LOCATION OF ALL VALVES IN INACCESSIBLE CEILINGS OR CHASES WITH THE ENGINEER PRIOR TO INSTALLATION.
- 15. COORDINATE EXACT SIZE, LOCATION, APPURTENANCES, ETC. FOR ALL ROOF OPENINGS WITH GENERAL CONTRACTOR.
- 16. REFER TO STRUCTURAL DRAWINGS, DETAILS, AND EXISTING CONDITIONS FOR PERMISSIBLE LOCATIONS AND METHODS FOR HANGING DUCTWORK FROM STRUCTURE. ALL DUCTWORK HANGERS TO BE WITHIN 6" OF PANEL POINTS OF JOISTS. DO NOT WELD DUCT HANGERS/SUPPORTS TO STRUCTURE WITHOUT PRIOR APPROVAL FROM THE STRUCTURAL ENGINEER AND PRIME OR GENERAL CONTRACTOR (WHERE APPLICABLE).
- 17. COORDINATE EXACT SIZES REQUIRED FOR ALL OPENING FOR DUCTWORK AND PIPING WITH SPACE REQUIREMENTS, FIRE DAMPER INSTALLATION INSTRUCTIONS, STRUCTURAL DRAWINGS, AND THE GENERAL CONTRACTOR, PRIOR TO FRAMING FOR THE PENETRATIONS.
- 18. THE MECHANICAL CONTRACTOR SHALL THOROUGHLY COORDINATE DUCT / PIPE PENETRATIONS AT STRUCTURAL SHEAR WALLS / SHEAR BRACING WITH STRUCTURAL DRAWINGS EXISTING CONDITIONS. INSTALL LINTELS AS REQUIRED.
- 19. ALL CONTROL DEVICES (SENSORS, STATS, SWITCHES, ETC) TO GENERALLY BE LOCATED ADJACENT TO LIGHT SWITCHES IN EACH ROOM, UNLESS NOTED OTHERWISE. GENERALLY, THIS SHOULD BE AS CLOSE TO DOOR STRIKE AS POSSIBLE.
- 20. COORDINATE EXACT LOCATION FOR ALL CEILING DIFFUSERS/GRILLES WITH REFLECTED CEILING PLAN AND LIGHTING LAYOUT, AS WELL AS OTHER ITEMS IN CEILINGS.
- 21. ROOMS REQUIRING POSITIVE OR NEGATIVE PRESSURIZATION ARE NOTED AS SUCH (PLEASE SEE LEGEND). ALL OTHER ROOMS ARE NOT NOTATED, AND ARE TO BE NEUTRAL.
- 22. IN GENERAL, MEDIUM PRESSURE AND LOW PRESSURE SUPPLY DUCT IS TO BE ROUTED LOW, TIGHT TO CEILING AS POSSIBLE, BUT YET STILL ALLOW FOR REMOVAL OF LIGHTING FIXTURES, HEPA FILTERS, ETC. (COORDINATE EXACT ELEVATIONS IN FIELD AND WITH EXISTING CONDITIONS - ROUTE SIMILAR TO EXISTING). RETURN DUCTWORK TO ROUTED ABOVE SUPPLY, AND EXHAUST DUCTWORK ROUTED ABOVE RETURN. HOWEVER, ALL REQUIRED MANUAL DAMPERS IN RETURN AND EXHAUST DUCTWORK MUST REMAIN ACCESSIBLE THRU THE CEILING. THEREFORE, RETURN AND EXHAUST DUCTWORK ROUTED AT HIGHER ELEVATIONS MAY REQUIRE OFFSETS UP OR DOWN THAT ARE NOT SHOWN ON THE DRAWINGS IN ORDER TO MAINTAIN ACCESSIBILITY TO VOLUME DAMPERS AND OTHER SIMILAR EQUIPMENT.
- 23. RUN-OUT SIZES TO TERMINAL BOXES OR FILTERS MAY NOT SHOWN ON DRAWINGS. RUN-OUT SIZES TO BE SAME NOMINAL SIZE AS INLET OF TERMINAL BOX, UNLESS NOTED OTHERWISE.
- 24. ALL CEILING MTD. SMOKE DETECTORS TO BE MOUNTED AT LEAST 4' FROM ALL CEILING GRILLES / DIFFUSERS. COORDINATE LOCATIONS FOR ALL GRILLES / DIFFUSERS WITH E.C. PRIOR TO MOUNTING.
- 25. INTERNAL LINING OF DUCTWORK AND FILTER BOXES WILL NOT BE PERMITTED.
- 26. CONTRACTOR TO INSULATE ALL DUCTWORK WITH 1-1/2" 2" ARMAFLEX INSULATION. INCLUDING BACKS OF DIFFUSERS AND HEPA FILTERS.

	F 200	LINEAR SLOT DIFFUSER, TYPE AND CFM
\boxtimes	<u>A</u> 275	CEILING SUPPLY DIFFUSER, TYPE AND CFM
\square	F 450	CEILING RETURN GRILLE, TYPE AND CFM
E	<u> E </u> 95	CEILING EXHAUST GRILLE, TYPE AND CFM INDICATED
	TYPE "G"	CEILING RETURN GRILLE, TYPE INDICATED
	- <u>P</u> 605	SIDEWALL OR SIDE OF DUCT SUPPLY DIFFUSER, TYPE AND CFM
	<u> </u>	SIDEWALL OR SIDE OF DUCT RETURN GRILLE, TYPE AND CFM
24x^2	12	RECTANGULAR DUCT, WIDTH x DEPTH
12x12 (24	4x12)	RECTANGULAR DUCT, BASE BID SIZE AND (ALTERNATE SIZE), WIDTH x D
Ø8	8	ROUND OR SPIRAL DUCT, DIAMETER
====		DUCT BALANCE DAMPER
		DUCT TRANSITION
		FACTORY LINED ACOUSTICAL SPIRAL DUCT OR WRAPPED AND LINED RECTANGULAR DUCTWORK
0	F	DUCT MOUNTED STATIC PRESSURE SENSOR
		DUCT TAKEOFF AT 45 DEGREES
le l	 	DUCT SQUARE ELBOW WITH TURNING VANES
\langle	<u>Ø12</u>	FLEXIBLE DUCT, MAXIMUM 6' LENGTH

VD

AIR FLOW MONITORING STATION, BASIS OF DESIGN AIRFLOW MONITOR CORP. FAN-EVALUATOR EQUIVALENT PRODUCTS BY AFMS RUSKIN OR KELE. INSTALL PER MANUFACTURERS INST. INSTRUCTIONS.

MOTORIZED CONTROL DAMPER

CH EXISTING CHILLED WATER SUPPLY PIPING
— — — — CHR — — — — EXISTING CHILLED WATER RETURN PIPING
– – – – PCHS– – – – EXISTING PRIMARY CHILLED WATER SUPPLY PIPING
– – – – PCHR– – – – EXISTING PRIMARY CHILLED WATER RETURN PIPING
SCHS EXISTING SECONDARY CHILLED WATER SUPPLY PIPING
SCHR EXISTING SECONDARY CHILLED WATER RETURN PIPING
— — — — HW- — — — – EXISTING HOT WATER SUPPLY PIPING
— — — — HWR— — — — EXISTING HOT WATER RETURN PIPING
C EXISTING CONDENSER WATER SUPPLY PIPING
— — — — CR– — — — EXISTING CONDENSER WATER RETURN PIPING
FOF EXISTING FUEL OIL FILL PIPING
FOR EXISTING FUEL OIL RETURN PIPING
— — — — BD— — — — — EXISTING STEAM BLOW DOWN LINE
$ S_{-} EXISTING STEAM PIPING$
EXISTING PIPING TO REMAIN
EXISTING PIPING TO BE REMOVED

LEGEND

	Ο	THERMOSTAT, MOUNTED 48" A.F.F.
	3	EMS SENSOR, MOUNTED 48" A.F.F.
	SF	FAN COIL UNIT FAN SPEED SWITCH
	SM	MANUAL STARTER
	Sv	VARIABLE SPEED SWITCH
	S	SWITCHED WITH LIGHTS
	FD I	FIRE DAMPER
	O	EMS SPACE CARBON DIOXIDE SENSOR
	\bigcirc	MOTORIZED OPERATOR
	SD	DUCT SMOKE DETECTOR (FURNISHED BY E.C. AND INSTALLED BY M.C.)
	UC	UNDERCUT DOOR FOR CFM INDICATED
EPTH	TR 50	TRANSFERED AIR FOR CFM INDICATED
	ġ	TYPICAL VAV BOX (TYPE INDICATED)
		DUCT SILENCER/ATTENUATOR
	SD	U.L. RATED SMOKE DAMPER
	<u>[]</u>	DUCT MOUNTED CO2 MONITOR, BASIS OF DESIGN: VAISALA GM20 - COMPARABLE BY VARIS AND
		ව්ප්ර්ෆීMounted Humidity Sensor, Basis of Design Vaisala HMD70y - Comparable by Varis AND Setra.
	⊟	DUCT MOUNTED TEMPERATURE SENSOR
-		2 HR RATED FIRE PARTITION

							Airflow					Hot Water Heating			
Unit Tags	Quantity	Model Number	Unit model	Primary inlet	Design cooling airflow cfm	Min cooling airflow cfm	Valve heating airflow cfm	Unit heating airflow cfm	Fan airflow cfm	Main coil rows	Coil heating capacity MBh	Heating flow rate com	Heating ent fluid temp F		
VAV-1	1	VSWF0800P N0DD02BD1104L*0*0000000*0000000	VSWF (Series Fan Hot Water Heat)	8" (203mm)	550	165	165	225	225	1ROW	8.6	0.57	160		
VAV-1.5	1	VSVVF0800P N0DD02BD1104L*0*0000000*0000000	VSWF (Series Fan Hot Water Heat)	8" (203mm)	600	180	180	300	300	1ROW	9.73	0.65	160		
VAV-2	1	VSVVF0800P N0DD02BD1104L*0*0000000*0000000	VSWF (Series Fan Hot Water Heat)	8" (203mm)	875	265	265	435	435	1ROW	11.98	0.8	160		
VAV-3	1	VSVVF0500P N0DD02BD1104L*0*0000000*0000000	VSWF (Series Fan Hot Water Heat)	5" (127mm)	330	100	100	190	190	1ROW	7.5	0.5	160		
VAV-4	1	VSVVF0600P N0DD02BD1104L*0*0000000*0000000	VSWF (Series Fan Hot Water Heat)	6" (152mm)	390	120	120	195	195	1ROW	7.77	0.52	160		
VAV-5	1	VSVVF0800P N0DD02BD1104L*0*0000000*0000000	VSWF (Series Fan Hot Water Heat)	8" (203mm)	610	180	180	305	305	1ROW	9.8	0.65	160		
VAV-6	1	VSVVF0800PN0DD02BD1104L*0*0000000*0000000	VSWF (Series Fan Hot Water Heat)	8" (203mm)	760	230	230	380	380	1ROW	11.1	0.74	160		
VAV-7	1	VSWF0600PN0DD02BD1104L*0*0000000*0000000	VSWF (Series Fan Hot Water Heat)	6" (152mm)	455	135	135	225	225	1ROW	8.35	0.56	160		
VAV-8	1	VSVVF0600PN0DD02BD1104L*0*0000000*0000000	VSWF (Series Fan Hot Water Heat)	6" (152mm)	400	120	120	200	200	1ROW	7.84	0.52	160		
VAV-9	1	VSWF0600PN0DD02BD1104L*0*0000000*0000000	VSWF (Series Fan Hot Water Heat)	6" (152mm)	370	110	110	195	195	1ROW	7.67	0.51	160		
VAV-10	1	VSWF0400PN0DD02BD1104L*0*0000000*0000000	VSWF (Series Fan Hot Water Heat)	4" (102 mm)	225	68	68	225	225	1ROW	7.77	0.52	160		
VAV-11	1	VSWF1200QN0DD02BD1104L*0*0000000*0000000	VSWF (Series Fan Hot Water Heat)	12" (305mm)	1650	495	495	825	825	1ROW	23.24	1.55	160		

		al Schedule		
Ν	lark	Manufacturer	Model	Description
	А	Price Industries	SCD Series	Square Cone Diffuser
	В	Price Industries	SCD Series	Square Cone Diffuser
	С	Price Industries	SCD Series	Square Cone Diffuser
	D	Price Industries	SCD Series	Square Cone Diffuser
	E	Price Industries	PDDR Series	Perforated Diffusers Ducted Return
	G	Price Industries	710 Series	Louver Face Grille Supply

MECHANICAL SUMMARY - I	MECHANIC	AL SYSTEMS, SERVICE SYSTEMS, AND EQUIPMENT
OUTDOOR AIR DESIGN CONDITIONS	5	
ASHRAE CLIMATE ZONE	4A	
ELEVATION	2117 ft	
WINTER DRY BULB	15.4 °F	
SUMMER DRY BULB	88.0 °F	
SUMMER WET BULB	71.2 °F	
GENERAL INTERIOR DESIGN CONDI	TIONS	
WINTER DRY BULB	70.0 °F	
SUMMER DRY BULB	75.0 °F	
RELATIVE HUMIDITY	50%	
BUILDING HEATING LOAD	NO ADDED L	LOAD
BUILDING COOLING LOAD	NO ADDED L	LOAD
MECHANICAL SYSTEMS	•	
UNITARY EQUIPMENT		
DESCRIPT	ION OF UNIT	
HEATING	EFFICIENCY	
COOLING	EFFICIENCY	REFER TO EQUIPMENT SCHEDULES FOR EFFICIENCIES
SIZE CATEG	ORY OF UNIT	
BOILER		
TOT	AL BOILER OU	ITPUT, IF OVERSIZED STATE REASON N/A
CHILLER		
TOTAL	CHILLER CAP	ACITY, IF OVERSIZED STATE REASON N/A
LIST EQUIPMENT EFFICIENCIES	REFER TO	EQUIPMENT SCHEDULES FOR EFFICIENCIES
		GENERAL MECHANICAL NOTES
1. THE DRAWINGS SHOW THE LO PRINCIPAL ITEMS. THE LAYOU ARCHITECTURAL, STRUCTURA INSTALLING DUCTS, PIPING, AN INSTALLATION. REFER TO ARC ETC. DO NOT SCALE MECHAN	CATION AND A T SHOWN SHA L, PLUMBING, , ID OTHER EQU HITECTURAL E CAL DRAWING	ARRANGEMENT OF PIPING, DUCTS, AND EQUIPMENT, TOGETHER WITH D ALL BE FOLLOWED AS CLOSELY AS CIRCUMSTANCES WILL PERMIT, BUT AND ELECTRICAL DRAWINGS AND SHALL COOPERATE FULLY WITH OTHE JIPMENT BECAUSE OF CLOSE SPACE LIMITS. IN CASE OF CONFLICT, NO DRAWINGS FOR EXACT BUILDING DIMENSIONS AND LOCATIONS OF PART SS FOR SUCH DIMENSIONS.
 THIS CONTRACTOR SHALL PRO INSTALLATION, OR RECOMMEN DUCTWORK SIZES INDICATED PIPING SIZES INDICATED ARE INDICATED ARE)vide and ins Ided by the E On drawings Nominal Pipe	TALL ALL OFFSETS, FITTINGS, AND ACCESSORIES THAT MAY BE REQUIF EQUIPMENT MANUFACTURER, WHETHER OR NOT THEY ARE SPECIFICALI S ARE FREE INSIDE DIMENSIONS. SIZE.
5. MAXIMUM LENGTH OF FLEXIBL	E DUCT IS FIV	E FEET (5').
6. IN LIEU OF RIGID PIPE CONNEC	TIONS, STAIN	LESS STEEL BRAIDED FLEXIBLE HOSE CAN BE UTILIZED AT TERMINAL U
7. ALL VALVES, DAMPERS, CONTI	ROLS, AND OTI	HER ITEMS REQUIRED FOR OPERATION OR MAINTENANCE ARE TO BE A
8. ALL SLEEVES, OUTLET BOXES, INSTALLED AS THE BUILDING (AND OTHER F	ROUGH-INS FOR SUCH ITEMS AS FIRE DAMPERS, PIPE PENETRATIONS, L N PROGRESSES.
 PROVIDE AND INSTALL DUCT A DUCT ACCESSORIES REQUIRIN LOCATIONS. 	CCESS DOOR: IG ACCESS. R	S AT ALL SMOKE DAMPERS, FIRE DAMPERS, DUCT SMOKE DETECTORS, REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR DUCT SMOKE
 PROVIDE AND INSTALL VOLUM PROVIDE AND INSTALL ISOLAT THIS CONTRACTOR SHALL TAK IN CASE OF CONFLICT NOTIFY 	E CONTROL DA ION VALVES A E FIELD MEAS	AMPERS AT ALL SUPPLY, RETURN, AND EXHAUST BRANCH DUCT TAKE-C T ALL PIPING BRANCH TAKE-OFFS WITH MORE THAN ONE PIECE OF CON SUREMENTS BEFORE FABRICATING ANY DUCTS TO ENSURE THAT DUCT TR BEFORE PROCEEDING

LIGHTING LAYOUT.

CONSTRUCTION.

LOCATIONS WHERE DAMAGE MAY OCCUR.

SHOWN ON THE BUILDING ELEVATIONS.

POSSIBLE. THERE SHOULD BE NO VALVES LOCATED ABOVE INACCESSIBLE CEILINGS.

OTHERWISE. GENERALLY, THIS SHOULD BE AS CLOSE TO DOORSTRIKE AS POSSIBLE.

STRUCTURAL DRAWINGS, AND THE GENERAL CONTRACTOR, PRIOR TO FRAMING FOR THE PENETRATIONS.

23. ALL CEILING MOUNTED SMOKE DETECTORS TO BE MOUNTED AT LEAST 4' FROM ALL CEILING GRILLES / DIFFUSERS.

STRUCTURAL DRAWINGS AND BUILDING STEEL SHOP DRAWINGS. INSTALL LINTELS AS REQUIRED.

24. ALL STEAM PIPING TO BE SLOPED 1/8" PER 12" (1:100) DOWNWARDS IN THE DIRECTION OF STEAM FLOW.

PIPING LEGEND

CHWS	NEW CHILLED WATER SUPPLY PIPING
CHWR	NEW CHILLED WATER RETURN PIPING
HWS	NEW HOT WATER SUPPLY PIPING
HWR	NEW HOT WATER RETURN PIPING
CWS	NEW CONDENSER WATER SUPPLY PIPING
CWR	NEW CONDENSER WATER RETURN PIPING
FS	FILTER SUPPLY PIPING
FR	FILTER RETURN PIPING
	SHUT-OFF VALVE
——————————————————————————————————————	CONTROL VALVE
	CONTROL VALVE
Ô	BALANCING VALVE
\bigcirc	MOTORIZED OPERATOR
Ŭ	

------ 1 HR RATED FIRE PARTITION

NON-RATED SMOKE PARTITION

VAV Fan Powered Terminal Units

12"ø 10"x10"

ND EQUIPMENT	MECHANICAL SPECIFICATIONS
	IT IS THE INTENT OF THESE SPECIFICATIONS TO FURNISH A COMPLETE HEATING, VENTILATING, AND AIR CONDUSE.
	ALL MECHANICAL WORK TO BE DONE IN COMPLIANCE WITH NORTH CAROLINA BUILDING CODE AND ALL LOCAL
	THIS CONTRACTOR SHALL GIVE ALL NECESSARY NOTICES, OBTAIN ALL PERMITS AND PAY ALL SALES TAXES, A
	ALL MATERIAL AND EQUIPMENT THAT CAN BE U.L. LISTED SHALL BE FURNISHED FOR THIS PROJECT.
	MATERIAL AND EQUIPMENT HAS BEEN CAREFULLY SELECTED FOR THIS PROJECT AND THE CONTRACTOR IS EXPOSSIBLE TO THE SPECIFICATIONS AND AS CALLED FOR ON THE DRAWINGS.
	SUBMIT THREE (3) SETS OF EQUIPMENT DATA SHOP DRAWINGS TO ENGINEER FOR ALL ITEMS TO BE FURNISHE
	THIS CONTRACTOR SHALL INCLUDE IN THE WORK, WITHOUT EXTRA COST TO THE OWNER, ANY LABOR, MATER COMPLY WITH ALL APPLICABLE LAWS, ORDINANCES, RULES AND REGULATIONS, WHETHER OR NOT SHOWN ON EXTRAS WILL BE APPROVED WITHOUT PRIOR COORDINATION FOR CONFLICTS BY CONTRACTOR, AND WRITTEN PERFORMING WORK.
ICIENCIES	ALL WORK AND EQUIPMENT TO BE GUARANTEED BY CONTRACTOR FOR ONE (1) YEAR. AN ADDITIONAL FOUR (4 COMPRESSORS.
	ALL MATERIALS AND EQUIPMENT TO BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS AND GOOD RECOMM
	ALL WORK AND MATERIALS SHALL MEET APPROVAL OF ARCHITECT/ENGINEER.
	THIS CONTRACTOR SHALL GIVE FULL COOPERATION TO OTHER TRADES. WHERE THE WORK OF THIS CONTRACTOR WILL INTERFERE WITH WORK OF OTHER TRADES, HE SHALL ASSIST IN WORKING OUT SPACE CONDITIONS TO N CONTRACTOR INSTALLS HIS WORK BEFORE COORDINATING WITH OTHER TRADES, HE SHALL MAKE THE NECES
NOTES	
ENT, TOGETHER WITH DETAILS OF CONNECTIONS OF CERTAIN CES WILL PERMIT, BUT THIS CONTRACTOR SHALL REFER TO	SCALED.

ER CONTRACTORS AND TRADES WHILE OTIFY DESIGNER BEFORE PROCEEDING WITH TITION WALLS, DOORS, CHASES, CASEWORK, RED FOR A COMPLETE AND PROPER LY SHOWN OR SPECIFIED.

JNIT LOCATIONS (VAV BOXES, HEAT PUMPS, ACCESSIBLE. PROVIDE ACCESS DOORS WHEN OUVERS, AND CONTROL ITEMS SHALL BE AIR FLOW MONITORING STATIONS, AND OTHER DETECTOR AND DUCTWORK DEVICE

OFFS. NNECTED EQUIPMENT. SIZES SHOWN WILL FIT INTO AVAILABLE SPACE

13. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. 14. COORDINATE EXACT LOCATION FOR ALL CEILING DIFFUSERS/GRILLES WITH ARCHITECTURAL REFLECTED CEILING PLAN AND ELECTRICAL CONTRACTOR'S 15. ALL EMS SENSORS AND OTHER FIELD DEVICES MOUNTED ON WALLS TO BE PROTECTED FROM DAMAGE AS REQURED. PROVIDE LOCKING LEXAN COVERS IN 5. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TO THE GENERAL CONTRACTOR THE QUANTITY, SIZE AND LOCATIONS OF ALL ACCESS DOORS IN WALLS, DRYWALL CEILINGS, ETC. FOR ACCESS TO VALVES, BALANCE DAMPERS OR OTHER EQUIPMENT AS REQUIRED. COORDINATE THIS WORK WITH

THE REFLECTED CEILING PLANS. ALL VALVES OR OTHER DEVICES LOCATED ABOVE THE CEILING SHALL BE LOCATED IN ACCESSIBLE CEILINGS WHEREVER 7. COORDINATE EXACT SIZE, LOCATION, APPURTENANCES, ETC. FOR ALL ROOF OPENINGS WITH GENERAL CONTRACTOR. 18. REFER TO INTERIOR LINTEL SCHEDULE ON STRUCTURAL DRAWINGS AND COORDINATE ALL OPENINGS WITH GENERAL CONTRACTOR PRIOR TO WALL

19. COORDINATE EXACT SIZES REQUIRED FOR ALL OPENING FOR DUCTWORK AND PIPING WITH SPACE REQUIREMENTS, FIRE DAMPER INSTALLATION INSTRUCTIONS, 20. THE MECHANICAL CONTRACTOR SHALL THOROUGHLY COORDINATE DUCT / PIPE PENETRATIONS AT STRUCTURAL SHEAR WALLS / SHEAR BRACING WITH . THE MECHANICAL CONTRACTOR SHALL PROVIDE 2" RIGID INSULATION BLANK-OFF PANELS ON ALL ARCHITECTURAL LOUVERS OR PORTIONS THEREOF NOT USED

AS INTAKE OR EXHAUST AS SHOWN ON THE DRAWINGS. THE MECHANICALCONTRACTOR SHALL REVIEW THE LOCATIONS OF ALL ARCHITECTURAL LOUVERS AS 2. ALL CONTROL DEVICES (SENSORS, STATS, SWITCHES, ETC) TO GENERALLY BE LOCATED ADJACENT TO LIGHT SWITCHES IN EACH ROOM, UNLESS NOTED

DITIONING SYSTEM, FULLY ADJUSTED, AND READY FOR _ CODES.

AND OTHER COSTS, IN CONNECTION WITH HIS WORK.

EXPECTED TO PROVIDE ALL ITEMS AS CLOSELY AS

IED AND INSTALLED FOR APPROVAL. RIALS, SERVICES, APPARATUS, DRAWINGS, IN ORDER TO N DRAWINGS AND/OR SPECIFIED. NO CLAIM FOR

N REQUEST AND WRITTEN APPROVAL PRIOR TO (4) YEAR WARRANTY SHALL BE PROVIDED ON ALL

IMENDED PRACTICES.

ACTOR WILL BE INSTALLED IN CLOSE PROXIMITY TO, OR MAKE SATISFACTORY ADJUSTMENTS. IF THIS SSARY CHANGES IN HIS WORK TO CORRECT THE

UDED IN THE CONTRACT. DRAWINGS ARE NOT TO BE

ALL DUCTWORK TO BE FABRICATED FROM GALVANIZED SHEET METAL AND INSTALLED ACCORDING TO REQUIREMENTS OF NFPA 90A, SMACNA, AND ASHRAE GUIDE AND DATA BOOKS.

ALL FLEXIBLE DUCTWORK, FOR CONNECTIONS BETWEEN DIFFUSERS AND BRANCH DUCTS WHERE INDICATED, TO BE THERMAFLEX TYPE "MKE".

ALL DUCT SEAMS TO BE TAPED WITH FASSON #AFTS-100/3 SMACNA TAPE, OR EQUAL.

VOLUME CONTROL DAMPERS (BALANCING) SHALL BE INSTALLED IN EACH BRANCH OR ZONE DUCT.

DAMPERS WHICH ARE PART OF A MANUFACTURED AIR GRILL DO NOT MEET THIS REQUIREMENT.

ALL SQUARE ELBOWS SHALL HAVE TURNING VANES INSTALLED. TURNING VANES SHALL BE APPLIED EQUALLY TO THE RETURN AIR SIDE.

DUCTWORK SIZES INDICATED ON DRAWINGS ARE AS REQUIRED FOR FREE INSIDE AREAS. ALL DUCTWORK TO BE INSULATED WITH 2" BLANKET TYPE INSULATION 1 LB. DENSITY (MIN. R=6.5) WITH VAPOR BARRIER JACKET OF .002 INCH THICK ALUMINUM FOIL LAMINATED.

ALL PIPING H.W. PIPING TO BE INSULATED WITH 1" INSULATION FOR ALL PIPING LESS THAN OR EQUAL TO 1.5" DIAMETER, AND 2" INSULATION FOR ALL PIPING OF LARGER THAN 1.5" DIAMETER. INSULATION TO HAVE A CONDUCTIVITY NOT TO EXCEED K=.27. INSULATION TO BE COVERED WITH ASJ, AND LABELED WITH COLOR-CODED PIPING TAGS WITH FLOW ARROWS.

ALL PIPING AND DUCTWORK TO BE SUSPENDED WITH APPROPRIATE HANGERS, INSTALLED AND SPACED PER NC MECHANICAL CODE.

ALL SUPPLY GRILLES AND DIFFUSERS TO BE EQUIPPED WITH VOLUME CONTROLS.

TO OUTSIDE BUILDING WITH SCREEN OVER OPENING.

AIR HANDLING EQUIPMENT SHALL BE ISOLATED FROM DIRECT CONTACT WITH SUPPLY OR RETURN AIR DUCTWORK. FLEXIBLE CONNECTIONS SHALL BE INSTALLED BETWEEN THE EQUIPMENT AND DUCT. FLEXIBLE CONNECTIONS SHALL BE MADE OF APPROVED FLAMEPROOFED FABRIC OR OTHER APPROVED NON-COMBUSTIBLE MATERIAL.

OUTDOOR EQUIPMENT LOCATED IN ALLEYS, DRIVEWAYS, PARKING AREAS, ETC., SHALL BE PROTECTED FROM DAMAGE. GRADE LEVEL EQUIPMENT SHALL BE INSTALLED ON A PRE-FORMED BASE, A STRUCTURAL FRAME, OR A CONCRETE BASE, PROPERLY INSTALLED TO INSURE ITS LEVEL BEING MAINTAINED REGARDLESS OF WEATHER CONDITIONS.

REFRIGERANT PIPING UNDERGROUND SHALL BE INSTALLED IN A PIPING CHASE. THIS CHASE MAY CONSIST OF PVC, CLAY TILE, CAST IRON, OR OTHER APPROVED PIPING MATERIALS, SUITABLE FOR UNDERGROUND USE. PIPING CHASES SHALL BE OF SUCH SIZE AS TO PERMIT THE REPLACEMENT OF THE REFRIGERANT PIPING. EACH HEATING AND/OR COOLING SYSTEM SHALL HAVE A DEVICE, OR DEVICES, FOR CLEANING OR FILTERING BOTH RETURN AND OUTDOOR AIR.

LOW VOLTAGE WIRING (50 VOLTS OR LESS) WITHIN A STRUCTURE SHALL BE INSTALLED IN A MANNER TO PREVENT PHYSICAL DAMAGE. SUCH WIRING EXPOSED TO WEATHER SHALL BE INSTALLED BY A METHOD APPROVED FOR EXTERIOR USE.

THIS CONTRACTOR TO PERFORM ALL ADJUSTMENTS AND BALANCING OF SYSTEMS, EQUIPMENT, CONTROLS, ETC., NECESSARY FOR THE SYSTEM TO PROVIDE THE REQUIRED PERFORMANCE AND TO OPERATE SAFELY. SUBMIT "AS-BUILT" DRAWINGS TO ENGINEER SHOWING ACTUAL AIR FLOWS AT EACH GRILL INSTALLED UNDER THIS CONTRACT.

REFRIGERANT PIPING, VALVES, FITTINGS AND RELATED PARTS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. ALL LIQUID AND SUCTION LINES SHALL BE INSULATED WITH 3/4" ARMAFLEX TO PREVENT SWEATING AND HEAT GAIN. ALL EXTERIOR, VERTICAL PIPING TO BE CONCEALED WITH MITSUBISHI LINE HIDE SYSTEM (OR EQUAL).

CONDENSATE DRAINS FROM AIR CONDITIONING UNITS SHALL BE SIZED AND INSTALLED IN ACCORDANCE WITH THE UNIT MANUFACTURER'S RECOMMENDATIONS. CONDENSATE DRAINS SHALL BE PIPING (OR PUMPED) TO THE OUTSIDE OF BUILDING, NATURAL DRAIN, DRY WELL, LAVATORY, SERVICE SINK, ROOF DRAIN, OR STORM SEWER, CONNECTED DIRECTLY TO THE DRAINAGE PIPING BETWEEN A LAVATORY, SERVICE SINK OR LAB SINK AND ITS TRAP, OR CONNECTED INDIRECTLY (AIR GAP) TO A PROPERLY TRAPPED AND VENTED CONNECTION TO THE SANITARY DRAINAGE OR VENT SYSTEMS, IN COMPLIANCE WITH LOCAL PLUMBING CODE REQUIREMENTS.

IN ATTICS, ABOVE CEILING OR OTHER AREAS WHERE CONDENSATE DAMAGE MAY OCCUR, AN AUXILIARY DRAIN PAN SHALL BE INSTALLED UNDER THE COOLING AND / OR HEATING EQUIPMENT, WITH PAN AND EQUIPMENT HAVING SEPARATE DRAINS.

UPON COMPLETION OF ALL WORK AND ALL TESTS, INSTRUCT THE OWNER OR HIS REPRESENTATIVE FULLY IN THE OPERATIONS, ADJUSTMENTS, AND MAINTENANCE OF ALL EQUIPMENT FURNISHED. PROVIDE OWNER MAINTENANCE INSTRUCTIONS AND SCHEDULE FOR THE PRINCIPAL ITEMS OF EQUIPMENT FURNISHED. MANUFACTURER'S ADVERTISING

LITERATURE OR CATALOGS WILL NOT BE ACCEPTABLE.

GAS PIPING WITHIN THE BUILDING SHALL BE BLACK STEEL SCHEDULE 40. CONTRACTOR TO PAY UTILITY CHARGES FOR GAS SERVICE TO BUILDING. THIS CONTRACTOR TO PROVIDE GAS PRESSURE REGULATORS FOR ALL GAS FIRED EQUIPMENT AS REQUIRED FOR PROPER OPERATION. PIPE REGULATOR RELIEF

HENDERSONVILLE **CITY HALL**

160 6TH AVE HENDERSONVILLE, NC 28792

MECHANICAL NOTES AND LEGENDS

DATE: PROJECT NO: REVISIONS NO: DATE:

11.21.22 22029

DESCRIPTION:

THIS DRAWING IS THE PROPERTY OF ADW ARCHITECTS, P.A. AND SHALL NOT BE REPRODUCED OR COPIED IN WHOLE OR PART. IT SHALL NOT BE USED ON ANY OTHER PROJECT OR GIVEN TO ANY OTHER COMPANY OR AGENCY WITHOUT THE CONSENT OF ADW ARCHITECTS, P.A.

HENDERSONVILLE CITY HALL

160 6TH AVE HENDERSONVILLE, NC 28792

MECHANICAL DETAILS

DATE: PROJECT NO: REVISIONS NO: DATE: 11.21.22 22029

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	KEYED MECHANIC
$\langle 1 \rangle$	REMOVE EXISING SUPPLY DIFFUSER AN POWERED VAV BOX AS SHOWN. RE USE NEW BOX TO BE INSTALLED.
2	REMOVE EXISTING LIEBERT UNIT(ABOVE WIRING, PIPING, AND ASSOCIATED SUPF

ICAL DEMOLITION NOTES

AND ASSOCIATED SUPPLY DUCTWORK AND EXISTING FAN SE POWER/CONTROL WIRING AND PIPING AS PRACTICAL FOR

OVE CEILING) COMPLETE INCLUDING ALL POWER/CONTROL SUPPLY DUCTWORK AND GRILLES.

	KEYED MECHANICAL
1	NEW FAN POWERED VAV BOX INSTALLED AB(FACILITATE ACCESS FOR SERVICE AND MAIN CLEARANCES AND ANY EXISTING INFRASTRU REQUIRED AND RE CONNECT TO EXISTING H WIRING. BALANCE TO NEW CFM.
2	EXISTING T-STAT IN ORIGINAL LOCATION.
3	EXISTING T-STAT IN NEW LOCATION. TRIM/E)
4	RESET EXISTING GRILLE IN NEW CEILING.
5	EXTEND RETURN DUCT THROUGH WALL ABO

CONSTRUCTION NOTES

ABOVE CEILING RELOCATED AS REQUIRED SO AS TO AINTENANCE. BE PARTICURLARLY MINDFUL OF SERVICE IRUCTURE ABOVE CEILING. TRIM/EXTEND DUCT AS G HW PIPING. CONNECT TO EXISTING POWER/CONTROL

EXTEND CONTROL WIRING AS REQUIRED.

BOVE CEILING.

A

B

	ABBREVIATIONS
(X)	EXISTING
(N) (D)	NEW DEMOLISH
(E)	RELOCATE
A AC	AMPS AIR CONDITIONING UNIT
ACT	ABOVE COUNTER TOP
AD Aff	
AFG	ABOVE FINISHED GRADE
AFR	
AHU	AIR HANDLING UNIT
AIC	
ATS AV	AUTOMATIC TRANSFER SWITCH AUDIO VISUAL
В	
BAS BC	BYPASS CONTACTOR
BLDG	
с С	CONDUIT
C/B (CB	
CKT	CIRCUIT
CLG	
COMP	COMPRESSOR
CP	CONDENSATE PUMP
CPT	CRITICAL BRANCH
CY	CURRENT TRANSFORMER
CUH	COPPER CABINET UNIT HEATER
DP	
DS DWG	DRAWING
EC	ELECTRICAL CONTRACTOR
EDP EF	EXHAUST FAN
EI	
EOL	END OF LINE RESISTOR
EP	EXPLOSION PROOF
EWC	ELECTRIC WATER COOLER
EXIST	EXISTING
FDS	FUSED DISCONNECT SWITCH
FLO FI	FULL LOAD AMPS
FZ	FREEZESTAT
GC GEI	GENERAL CONTRACTOR
GFP	GROUND FAULT PROTECTION
gnd Hoa	GROUND HANDS-OFF-AUTO SELECTOR SWITCH
HP	HORSE POWER
hvac IG	ISOLATED GROUND
JB	
kk KVA	KILOVOLT AMPS
KW	
lra LRHF	LINE REACTOR/HARMONIC TRAP FILTER
LS	LIFE SAFETY BRANCH
lt LTG	LIGHTING
MAX	
MCC	MOTOR CONTROL CENTER
MCCB	MOLDED CASE CIRCUIT BREAKER
MLO	MAIN LUG ONLY
MT MTD	
MTG	MOUNTING
N NC	
NFDS	NON-FUSED DISCONNECT SWITCH
NTS	NOT TO SCALE
O/L P	OVERLOAD RELAY
PB	PUSH BUTTON
PC PHS	PLUMBING CONTRACTOR PHASE
PNL	PANEL
PWR RF	POWER RETURN AIR FAN
RTU	ROOF TOP UNIT
SF SPEC	SUPPLY AIR FAN SPECIFICATION
S/C	SOUND SYSTEM CONSULTANT
SVV TCC	TEMPERATURE CONTROL CONTRACTOR
TYP	
UH	UNIT HEATER
UL UN∩	UNDERWRITERS' LABORATORIES, INC.
V	VOLTS
VA VFD	VULT AMPS VARIABLE FREQUENCY DRIVE
W	WATTS
w/ W/O	WITH OUT

WP WEATHERPROOF XFMR TRANSFORMER

ELECTRICAL SPECIFICATIONS

IT IS THE INTENT OF THESE SPECIFICATION FOR THE ELECTRICAL CONTRACTOR TO FURNISH A COMPLETE ELECTRICAL SYSTEM, FULLY ADJUSTED, AND READY FOR USE. ALL ELECTRICAL WORK TO BE DONE IN STRICT ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE OBSERVING ALL STATE AND LOCAL CODES. ELECTRICAL CONTRACTOR SHALL GIVE ALL NECESSARY NOTICES, OBTAIN ALL PERMITS AND PAY ALL SALES TAXES, UTILITY COMPANY CHARGES FOR SERVICE, PERMITS, FEES, AND OTHER COSTS IN CONNECTION WITH HIS WORK.

ELECTRICAL CONTRACTOR TO ENSURE THAT ALL MATERIAL AND EQUIPMENT FURNISHED FOR THIS PROJECT SHALL BE U.L. LISTED. THE MATERIAL AND EQUIPMENT HAS BEEN CAREFULLY SELECTED FOR THIS PROJECT AND THE ELECTRICAL CONTRACTOR IS EXPECTED TO PROVIDE ALL ITEMS AS CLOSELY AS POSSIBLE TO THE SPECIFICATIONS AND AS CALLED FOR ON THE DRAWINGS.

ELECTRICAL CONTRACTOR SHALL SUBMIT THREE (3) SETS OF EQUIPMENT DATA SHOP DRAWINGS TO THE ENGINEER FOR ALL ITEMS TO BE FURNISHED AND INSTALLED FOR APPROVAL.

ELECTRICAL CONTRACTOR SHALL INCLUDE IN THE WORK, WITHOUT EXTRA COST TO THE OWNER, ANY LABOR, MATERIALS, SERVICES, APPARATUS, DRAWINGS, INCIDENTAL CONSTRUCTION WORK, ETC., IN ORDER TO COMPLY WITH ALL APPLICABLE LAWS, ORDINANCES, AND REGULATIONS, WHETHER OR NOT SHOWN ON DRAWINGS AND/OR SPECIFIED. NO CLAIM FOR EXTRAS WILL BE APPROVED WITHOUT PRIOR COORDINATION FOR CONFLICTS BY CONTRACTOR, AND WRITTEN REQUEST AND APPROVAL PRIOR TO PERFORMING WORK.

ALL WORK AND EQUIPMENT TO BE GUARANTEED BY CONTRACTOR FOR ONE (1) YEAR.

UPON COMPLETION OF ALL WORK AND ALL TESTS, ELECTRICAL CONTRACTOR SHALL INSTRUCT THE OWNER OR HIS REPRESENTATIVE FULLY IN THE OPERATIONS, ADJUSTMENTS, AND MAINTENANCE OF EQUIPMENT FURNISHED. ELECTRICAL CONTRACTOR SHALL PROVIDE OWNER WITH MAINTENANCE SCHEDULE FOR THE PRINCIPAL ITEMS OF EQUIPMENT FURNISHED. MANUFACTURER'S ADVERTISING LITERATURE OR CATALOGS WILL NOT BE ACCEPTABLE.

ALL MATERIALS AND EQUIPMENT TO BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS AND GOOD RECOMMENDED PRACTICES. ELECTRICAL CONTRACTOR SHALL GIVE FULL COOPERATION TO OTHER TRADES. WHERE THE WORK OF ELECTRICAL CONTRACTOR WILL BE INSTALLED IN CLOSE PROXIMITY TO, OR WILL INTERFERE WITH WORK OF

OTHER TRADES, HE SHALL ASSIST IN WORKING OUT SPACE CONDITIONS TO MAKE SATISFACTORY ADJUSTMENTS. IF ELECTRICAL CONTRACTOR INSTALLS HIS WORK BEFORE COORDINATING WITH OTHER TRADES, HE SHALL MAKE THE NECESSARY CHANGES IN HIS WORK TO CORRECT THE CONDITION WITHOUT EXTRA CHARGE. THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENTS OF SYSTEMS AND WORK INCLUDED IN THE CONTRACT. THE DRAWINGS ARE NOT TO BE SCALED. ELECTRICAL CONTRACTOR TO VERIFY EXACT LOCATION OF EQUIPMENT, ROUTING PIPE, ETC., AND WORK CLOSELY WITH OTHER TRADES TO AVOID CONFLICTS.

ELECTRICAL CONTRACTOR TO LOCATE AND INSTALL ELECTRICAL CONTROL PANELS IN SUITABLE LOCATION WITH APPROPRIATE CLEARANCES & OVERLOAD PROTECTION FOR ALL ITEMS REQUIRED. ELECTRICAL CONTRACTOR MAY COMBINE CONDUITS WHERE APPLICABLE, BUT MUST HOOK UP ITEMS TO PROPER CIRCUITS AS SHOWN. THE OWNER, ARCHITECT AND ELECTRICAL CONTRACTOR TO COORDINATE FOR PROPER CUTOUT HOLES, ALL STUB-UPS AND JUNCTION BOXES, AND TO VERIFY LOCATIONS.

ALL CONDUCTORS SHALL BE COPPER, TYPE THHN/THWN/ (XHHW-ISOLATED POWER WITH NO PULLING COMPOUND) INSULATION, 60 #12 AWG. ALUMINUM CONDUCTORS WILL NOT BE ACCEPTABLE.

WHERE ALUMINUM CONDUCTORS ARE UTILIZED THEY SHALL BE TERMINATED WITH BURNDY HY-PLUG, HYDRAULIC COMPRESSION EXTERIOR MOUNTED BOXES SHALL HAVE APPROVED WEATHERPROOF PLATES AND/OR COVERS.

ALL SURFACE INSTALLED BOXES SHALL HAVE NYLON DEVICE PLATES.

ALL DEVICE OUTLETS SHALL BE FLUSH MOUNTED UNLESS SPECIFICALLY NOTED.

BALLASTS SUPPLIED WITH RECESSED FLUORESCENT FIXTURES SHALL BE APPROVED BY UNDERWRITERS' LABORATORIES AND SHALL BE ELECTRONIC TYPE, ENERGY SAVINGS, PREMIUM GRADE, PROPERLY APPLIED TO EACH INSTALLATION. BALLASTS SUPPLIED WITH SURFACE MOUNTED FLUORESCENT FIXTURES SHALL BE ENERGY SAVINGS EXTRA LOW HEAT, SUPER PREMIUM TYPES. ALL FIXED ELECTRICAL EQUIPMENT INCLUDING RECEPTACLES SHALL BE LABELED WITH A REFERENCE TO THE CIRCUIT AND PANEL OF ORIGIN. ALL PANELS SHALL BE LABELED WITH PANEL NAME AND SOURCE OF SUPPLY. ALL PANEL DIRECTORIES SHALL USE ROOM IDENTIFICATIONS TO BE SUPPLIED BY THE OWNER, NOT THE ROOM NAMES AND NUMBERS ON THE DRAWINGS. ALL LABELS REFERRING TO EMERGENCY POWER SHALL BE PER FACILITIES CURRENT COLOR CODE.

CONDUIT, WIRING, AND ELECTRICAL EQUIPMENT AND DEVICES CAUSED TO BE ABANDONED OR RENDERED USELESS BY CONSTRUCTION SHALL BE REMOVED BACK TO THE SOURCE. IN ADDITION, CONDUIT, WIRING, ELECTRICAL EQUIPMENT AND DEVICES DISCOVERED ABANDONED WITHIN THE LIMITS OF CONSTRUCTION SHALL BE REMOVED BACK TO THE SOURCE, EVEN IF THIS SHOULD INVOLVE REMOVAL OUTSIDE THE LIMITS OF CONSTRUCTION.

ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR GROUNDING NETWORK PER NATIONAL ELECTRIC CODE ARTICLE 517-78. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TESTING PER N.F.P.A. 99.

GENERAL ELECTRICAL NO	TES
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- NOTED OR AS REQUIRED BY STATE ENERGY CODE.
- 2. THIS CONTRACTOR SHALL COORDINATE WITH ALL OTHER CONTRACTORS AND TRADES TO LOCATE HIS WORK TO AVOID CONFLICTS.
- 3. CONTRACTOR TO COORDINATE FIXTURE MOUNTING METHOD (FLANGED, GRID, SPLINE ETC.) WITH TYPE OF CEILING ACTUALLY INSTALLED IN THESE AREAS, TYPICAL.
- 4. THIS CONTRACTOR SHALL NOT UTILIZE "THRU TYPE OUTLET BOXES WHERE DEVICES ARE SHOWN BACK TO BACK IN SOUND INSULATED OR SOUND SECURE AREAS, TYPICAL.
- SMOKE DETECTORS FOR AIR HANDLING UNITS SHALL BE LOCATED IN AIR DUCTS OBSERVING ALL APPLICABLE CODES AND ORDINANCES. ELECTRICAL CONTRACTOR SHALL COORDINATE THE EXACT LOCATION AND REQUIREMENTS OF INSTALLATION WITH MECHANICAL CONTRACTOR PRIOR TO CUTTING DUCTWORK. LOCATE THE DETECTOR INDICATOR/RESET DEVICE IN AN ACCESSIBLE LOCATION AS DIRECTED BY THE ARCHITECT AND LABEL AS TO AREA AND ROOFTOP UNIT SERVED, TYPICAL."
- SMOKE DETECTORS SHOULD NOT BE LOCATED IN A DIRECT AIRFLOW OR CLOSER THAN 36" FROM AN AIR SUPPLY DIFFUSER OR RETURN AIR OPENING. SUPPLY OR RETURN SOURCES LARGER THAN THOSE COMMONLY FOUND IN RESIDENTIAL AND SMALL COMMERCIAL ESTABLISHMENTS CAN REQUIRE GREATER CLEARANCE TO SMOKE DETECTORS. SIMILARLY, SMOKE DETECTORS SHOULD BE LOCATED FARTHER AWAY FROM HIGH VELOCITY AIR SUPPLIES.
- THIS CONTRACTOR SHALL VERIFY THE EXACT LOCATIONS AND PLACEMENT OF LIGHT FIXTURES, OUTLET BOXES, DEVICES, AND EQUIPMENT WITH SITE AND ARCHITECTURAL DRAWINGS, INCLUDING REFLECTED CEILING PLANS, INTERIOR AND EXTERIOR ELEVATIONS, DETAILS, AND SECTIONS, PRIOR TO ROUGH-IN; OR RELOCATE AS DIRECTED BY THE DESIGNER AT NO ADDITIONAL COST TO THE OWNER. ELECTRICAL DRAWINGS ARE NOT TO BE SCALED FOR SUCH LOCATIONS.
- MOUNTING HEIGHTS GIVEN ARE TO TOP OF OUTLET BOX, UNLESS OTHERWISE NOTED. HEIGHTS MAY BE ADJUSTED TO MATCH MASONRY JOINTS, AND MUST COMPLY WITH NORTH CAROLINA STATE BUILDING CODF
- 9. LIGHT FIXTURE WHIPS SHALL NOT EXCEED 6' IN LENGTH.
- 10. ALL CONDUITS AND RACEWAYS ARE TO BE CONCEALED UNLESS OTHERWISE NOTED OR APPROVED BY THE DESIGNER.
- 11. ALL CONDUITS, SLEEVES, INSERTS, OUTLET BOXES, AND OTHER ROUGH-IN MATERIALS SHALL BE INSTALLED AS BUILDING CONSTRUCTION PROGRESSES.
- 12. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- 13. IN MECHANICAL ROOMS AND OTHER AREAS WHERE LIGHT FIXTURES ARE SPECIFIED, AND DUCT WORK AND PIPING IS INSTALLED, ELECTRICAL CONTRACTOR SHALL INSTALL LIGHT FIXTURES AFTER INSTALLATION OF MECHANICAL CONTRACTORS DUCT WORK AND PIPING.
- 14. PROVIDE POWER FOR VAV BOXES FROM NEAREST RECEPTACLE CIRCUIT. COORDINATE QUANTITIES AND LOCATIONS WITH MECHANICAL CONTRACTOR.
- 15. ARC FLASH LABELING TO BE PROVIDED IN ACCORDANCE WITH NEC 110.16A AND NEC 110.16B.

16. ELECTRICAL CONTRACTOR TO MAKE ALL PROVISIONS TO PROVIDE A COORDINATION STUDY (SELECTIVE) OF THE EMERGENCY POWER SYSTEMS AS IT RELATES TO THE NATIONAL ELECTRICAL CODE EXPRESSLY, ARTICLE 700.1&2 FPN, ARTICLE 700.27, ARTICLE 620.62, ARTICLE 517.26, AND THE EQUIPMENT SUPPLIER, OF THIS EMERGENCY SYSTEM GEAR AND BREAKERS. ALL BREAKER TRIP SETTINGS SHALL BE ADJUSTED IN ACCORDANCE WITH THIS STUDY.

- 17. THERE SHALL BE NO CONDUIT RUNS INSTALLED HORIZONTALLY IN SLABS.
- 18. ALL CONDUIT TO BE INSTALLED WITH J-BOXES/PULL BOXES LOCATED IN AREAS WITH LAY CEILING. SEE ARCHITECTURAL DRAWINGS FOR CEILING CONSTRUCTION.
- 19. ALL FLOOR/ROOF/PLATFORM/WALL PENETRATIONS TO BE MADE/INSTALLED PER STRUCTURAL DRAWINGS.

20. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH MANUFACTURER TO DETERMINE ALL BREAKER TRIP SETTINGS.

21. WHERE DEVICES (RECEPTACLES, SWITCHES, DATA OUTLETS, ETC.) ARE LOCATED ABOVE COUNTER, IT IS INTENT THAT ALL DEVICES BE MOUNTED AT THE SAME HEIGHT FOR AN AESTHETICALLY PLEASING APPEARANCE.

VENDOR / INSTALLER.

00V, EXCEPT AS INDICATED OTHERWISE. MINIMUM SIZE FOR POWER AND LIGHTING IS
I TERMINATORS.

FOR LED FIXTURES WITH STANDARD ELECTRONIC OR DIMMING DRIVER (NOT BEING DIMMED), PROVIDE SWITCHING SUCH THAT ALTERNATE FIXTURES ARE CONTROLLED BY SEPARATE SWITCHES. TYPICLA AS - FOR LED FIXTURES WITH STEP DIMMING DRIVER, WIRE FIXTURES SUCH THAT EACH HOT LEAD OF THE DRIVER IS CONTROLLED BY SEPARATE SWITCHES OR RELAYS.

	WALL PLATES TO MATCH SURROUNDING WALL COLOR UNLESS NOTED OTHER EQUALS BY PASS & SEYMOUR, HUBBELL, LEVITON	WISE.
YMBOL	DESCRIPTION	MOUNTING - GIVEN TO TOP OF DEVICE (OR AS NOTED)
\$	SWITCH, SINGLE POLE, 20 AMP, COMMERCIAL DUTY, HUBBELL #HB1221, 120/277 VOLT RATED, MATCH SURROUNDING WALL COLOR	4'-0" AFF
\$3	SWITCH, THREE WAY, 20 AMP, COMMERCIAL DUTY, HUBBELL #HB1223, 120/277 VOLT RATED, MATCH SURROUNDING WALL COLOR	4'-0" AFF
\$4	SWITCH, FOUR WAY, 20 AMP, COMMERCIAL DUTY, HUBBELL #HB1224, 120/277 VOLT RATED, MATCH SURROUNDING WALL COLOR	4'-0" AFF
\$\$	SWITCHES FOR DUAL LEVEL LIGHTING. SEE ELECTRICAL NOTE 1.	4'-0" AFF
\$ os	SWITCH, DUAL RELAY WALL SWITCH DUAL TECHNOLOGY OCCUPANCY SENSOR. COOPER CONTROLS #ONW-D-1001-DMV-N, 120/277 VOLT RATED. WIRE PER MFG'S RECOMMENDATIONS. SEE ELECTRICAL NOTE 1.	4'-0" AFF
\$ OS1	SWITCH, SINGLE RELAY WALL SWITCH DUAL TECHNOLOGY OCCUPANCY SENSOR. COOPER CONTROLS #ONW-D-1001-MV-N, 120/277 VOLT RATED. WIRE PER MFG'S RECOMMENDATIONS.	4'-0" AFF
\$ vsd	VACANCY SENSOR WALL SWITCH WITH 0-10V DIMMER. LEGRAND-WATTSTOPPER #DW-311, 120/277 VOLT RATED. WIRE PER MFG'S RECOMMENDATIONS.	4'-0" AFF
\$ d	SINGLE POLE DIMMER SWITCH - SLIDE ACTION LUTRON "NOVA" DIMMER #NT-1000 SERIES (INCANDESCENT), OR #NTF-10 SERIES (FLUORESCENT & LED), COLOR TO MATCH WALL SURROUNDINGS. GANG ONLY PER MANUFACTURER'S RECOMMENDATIONS FOR OPTIMUM PERFORMANCE.	4'-0" AFF
\$ D3	THREE WAY DIMMER. LUTRON NT-1003P SERIES (INCANDESCENT) OR LUTRON NTF-103P SERIES (FLUORESCENT & LED).	4'-0" AFF
\$ LV	SWITCH, LOW VOLTAGE 0-10V, 1200W@120V, 1660W@277V, SLIDE DIMMER. GANG ONLY & WIRE PER MFGS. RECOMMENDATIONS. GREENGATE #WBSD-010SLD-(COLOR).	4'-0" AFF
())	FULL FEATURE DUAL TECHNOLOGY SENSOR WITH 360° COVERAGE #COOPER CONTROLS #OAC-DT-2000. ALSO REQUIRES GREENGATE SWITCHPACK PER LOAD AND JB's.	CEILING SURFACE
(<u>€</u>)) ∨	FULL FEATURE DUAL TECHNOLOGY VACANCY SENSOR WITH 360° COVERAGE COOPER CONTROLS #OAC-DT-2000 WIRED FOR VACANCY (MANUAL ON). ALSO REQUIRES GREENGATE SWITCHPACK PER LOAD AND JB'S. WIRE PER MFGS INSTRUCTIONS.	CEILING SURFACE
(<u>-</u>)	FULL FEATURE DUAL TECHNOLOGY SENSOR. COOPER CONTROLS #OAWC-DT-120W-R. ALSO REQUIRES GREENGATE SWITCHPACK PER LOAD AND JB's.	WALL, ACCORDING TO MFG RECOMMENDATIONS.
WP	WHERE 'WP' IS INDICATED IN SUBSCRIPT, PROVIDE WATER TIGHT ENCLOSURE FOR SWITCHING.	

		LIGHT FIXTURES SEE LIGHTING FIXTURE SCHEDULE FOR LETTER DESIGNATIONS AND MOUNTING
SYMBOL		DESCRIPTION
	\mathbf{X}	2X4, 2X2 LIGHTING FIXTURE ON NORMAL CIRCUIT.
		2X4, 2X2, AND DOWN LIGHT FIXTURES ON GENERATOR SUPPLIED CIRCUIT OR PROVIDED WITH EMERGENCY BATTERY. PROVIDE SWITCHING SUCH THAT SINGLE BALLAST FIXTURES ARE CONNECTED TO UNSWITCHED LEG OF EGRESS CIRCUIT. MULTI-BALLAST FIXTURES; CONNECT ONE BALLAST (INSIDE LAMPS) AND BATTERY BACK UP, IF APPLICABLE, TO UNSWITCHED LEG OF SAME BRANCH CIRCUIT. CONNECT OTHER LAMP BALLAST TO SWITCHED AREA LIGHTS.
\mathbf{k}	\bigotimes	EXIT SIGN AS NOTED IN SYMBOL SCHEDULE

SECURITY/ACCESS

	COORDINATE DOOR HARDWARE WITH ARCHITECTURAL DOOR SCHEDULE AND DET SEE DETAILS ON SHEET E402 FOR TYPICAL DOOR INSTALLATION CONFIGURATIO	TAILS. INS.
SYMBOL	DESCRIPTION	MOUNTING - GIVEN TO TOP OF DEVICE (OR AS NOTED)
AD-	JUNCTION BOX (JB), AS NOTED IN SYMBOL SCHEDULE, FOR AUTODOOR, PROVIDE POWER, BOX, CONDUIT, AND WIRING AS INDICATED ON PLANS. COORDINATE EXACT LOCATION WITH EQUIPMENT.	ABOVE ACCESSIBLE CEILING
	ELECTRIC DOOR OPERATOR PUSH PADS. PROVIDE BOX, CONDUIT, AND POWER WIRING AS REQUIRED. COORDINATE CLOSELY WITH ARCHITECTURAL ELEVATIONS & DOOR PROVIDER.	4'-0"
₽ ₽ ₽	SECURITY CR=CARD READER (DOOR STRIKE); CV = CARD READER W/ CALL-TO-RECEPTION BUTTON WITH CAMERA. ELECTRICAL CONTRACTOR TO PROVIDE BOX, 1/2" CONDUIT, & CAT6A WIRE TO DOOR CONTROLS JB. PROVIDE POWER TO DOOR CONTROLS AS NOTED ON PLANS FROM ASSOCIATED DOOR CONTROLS JB. PROVIDE BOXES, CONDUIT, AND INTERCONNECTION TO SECURITY SYSTEM. COORDINATE CLOSELY WITH DOOR HARDWARE PROVIDER FOR EXACT LOCATION OF ALL DEVICE BOXES.	3'-6" COORD. W/ DOOR CONTROLS & SECURITY SYSTEMS PROVIDERS
$\bigcirc \mathbb{R}$	DOOR RELEASE BUTTON - ELECTRICAL CONTRACTOR TO PROVIDE POWER, CONDUIT, BOXES, AND INTERCONNECTION TO ARCHITECT SELECTED LOBBY EXTERIOR DOOR, AS REQ'D.	COORD. W/ DOOR CONTROLS PROVIDER. ABV ACCESS. CLG
ĬĽ	CAMERA OUTLET BOX. COORDINATE W/ OWNER FOR EXACT TERMINATION LOCATION & CONNECTION REQUIREMENTS. PROVIDE BOX, 3/4" CONDUIT WITH CAT6A WIRE TO OWNER'S HEAD END EQUIPMENT. COORDINATE WITH OWNER.	COORD. W/ OWNER PRIOR TO ROUGH IN CEILING MNT'D OR WALL, AS REQ'D
MS	WALL/CEILING MOUNTED MOTION SENSOR LOCATION. SEE DETAIL, SHEET E402.	COORD. W/ OWNER PRIOR TO ROUGH IN CEILING MNT'D OR WALL, AS REQ'D
DS	DOOR SECURITY SENSOR LOCATION. SEE DETAIL, SHEET E402.	COORD. W/ MANUF. SPECIFICATIONS
AS	SECURITY ALARM ARMING STATION LOCATION. SEE DETAIL, SHEET E402.	COORD. W/ MANUF. SPECIFICATIONS

TELEPHONE/DATA/COMMUNICATIONS ALL DEVICES TO MATCH EXISTING			
SYMBOL	DESCRIPTION	MOUNTING - GIVEN TO TOP OF DEVICE (OR AS NOTED)	
\bigtriangledown	DATA OUTLET BOX. PROVIDE BOX, DOUBLE OUTLET RING & 1" CONDUIT W/ PULLWIRE TO	1'-6" AFF	
\bigtriangledown	DATA OUTLET BOX. PROVIDE BOX, AS NOTED ABOVE, EXCEPT MOUNTING HEIGHT.	6" ACT TO BTM-WHEN THERE IS NO COUNTER, MNT AT 42" AFF TO BTM	
\bigcirc	DATA OUTLET BOX AS ABOVE EXCEPT MOUNTED IN CEILING	CEILING RECESSED	
AP	WIRELESS ACCESS POINT: E.C. TO PROVIDE WIRING ACCESS, CONDUIT W/ PULLWIRE, FOR DEVICES. COORDINATE EXACT LOCATION REQUIREMENTS W/ OWNER PRIOR TO ROUGH-IN.	FLUSH IN CLG AT 10' CLG OR LESS	
S	ROUND SPEAKER, SELF AMPLIFIED, WHITE EPOXY FINISH. CONNECT TO NEAREST DATA CLOSET.	CEILING RECESSED	
\$ _v	SOUND ATTENUATOR FOR CEILING MOUNTED SPEAKER	4'-0" AFF	

ELECTRICAL SYMBOL SCHEDULE ALL SYMBOLS MAY NOT BE USED

NOTE: ALL ELECTRICAL DEVICES SHALL MATCH COLOR WITH NYLON COVER PLATES - MATCH EXISTING DEVICE COLORS COORDINATE MOUNTING HEIGHT OF ALL COMPUTER RECEPTACLES & DATA OUTLETS WITH ARCHITECTURAL DRAWINGS PRIOR TO ROUGH-IN.

	RECEPTACLES	ROUNDING WALLS		POWER, WIRING & CONDUIT		
	EQUALS BY PASS & SEYMOUR, HUBBELL, LEVITON		SYMBOL	DESCRIPTION	MOUNTING	
SYMBOL	DESCRIPTION	MOUNTING - GIVEN TO TOP OF DEVICE (OR AS NOTED)		240V ELECTRICAL PANELBOARD, SEE PANEL SCHEDULE FOR DESCRIPTION.	6'-6" AFF TO	ТОР
φ	RECEPTACLE, SPECIFICATION GRADE, DUPLEX, PASS & SEYMOUR #PS5362I 20 AMPERE RATED, GROUNDING TYPE, 2 POLE, 3 WIRE, 125 VOLTS,	1'-6" AFF	TRANSFORMER. SIZE AS NOTED)
	RECEPTACLE, AS ABOVE EXCEPT MOUNTING HEIGHT. VERIFY W/CASEWORK PRIOR	6" ACT TO BTM; WHEN NO CNTR,	MOUNT ON SERVICE DEVICE SEE SPECIFICATIONS.		SERVICE DISTRIBUTION	
	RECEPTACLE, AS ABOVE EXCEPT MOUNTED IN CEILING	CEILING		DISCONNECT SWITCH, 600V. WHERE EXPOSED TO WEATHER SHALL BE NEMA 3R.	NO HIGHER	THAN 6'-6" AFF TO TOP
₽₽	RECEPTACLE, AS ABOVE EXCEPT MOUNTED HORIZONTAL.		FDS	FUSED DISCONNECT SWITCH, 600V. WHERE EXPOSED TO WEATHER SHALL BE	NO HIGHER	THAN 6'-6" AFF TO TOP OF
#	SEYMOUR #PS5362I, 20 AMPERE RATED, GROUNDING TYPE, 2 POLE, 3 WIRE, 125	1'-6" AFF		NEMA 3R. DISCONNECT SWITCH 250V WHERE EXPOSED TO WEATHER SHALL BE NEMA 3R	DEVICE	THAN 6'-6" AFF TO TOP OF
-	RECEPTACLE, AS ABOVE EXCEPT MOUNTING HEIGHT. VERIFY W/CASEWORK PRIOR TO ROUGH IN.	6" ACT TO BTM; WHEN NO CNTR, MNT AT 42" AFF TO BTM	FDS	FUSED DISCONNECT SWITCH, 250V. WHERE EXPOSED TO WEATHER SHALL BE NEMA 3R.	DEVICE NO HIGHER ⁻ DEVICE	THAN 6'-6" AFF TO TOP OF
₽	COMBINATION RECEPTACLE / HDMI / TV OUTLET BOX. PROVIDE BOX, RECEPTACLE, AS DESCRIBED ABOVE, AND COMBINATION COVER PLATE. PROVIDE 3/4" CONDUIT W/ PULLWIRE TO ABOVE ACCESSIBLE CEILING. COORDINATE W/ OWNER PRIOR TO ROUGH-IN.	6'-0" AFF UNLESS NOTED. COORDINATE WITH ARCH. ELEVATIONS	⊕ (WALL) ⓓ (CLG)	JUNCTION BOX (JB) AS MANUFACTURED BY RACO, STEEL CITY, OR UNIVERSAL. SIZE AS APPLICABLE OR REQUIRED. E.C. TO MAKE FINAL CONNECTIONS TO FURNITURE SYSTEMS AND/OR EQUIPMENT.	WALL 4'-0" AF COORDINATI	FF OR CEILING, E W/ EQUIPMENT
Φu	RECEPTACLE, SPECIFICATION GRADE, TAMPER-RESISTANT DUPLEX WITH (2) USB PORTS, PASS & SEYMOUR #USB20X2I, 20 AMPERE RATED, GROUNDING TYPE, 2 POLE, 3 WIRE, 125 VOLTS.	1'-6" AFF		JUNCTION BOX, SAME AS ABOVE, FOR HAND DRYER. COORDINATE REQUIREMENTS WITH MANUFACTURER.	COORDINATI	FF OR CEILING, E W/ EQUIPMENT
¶U	RECEPTACLE, AS ABOVE EXCEPT MOUNTING HEIGHT. VERIFY W/CASEWORK PRIOR TO ROUGH IN.	6" ACT TO BTM; WHEN NO CNTR, MNT AT 42" AFF TO BTM		PUMP MOTOR MOTOR	SEE MECH. L SEE PLUMBI	NG/MECH. DRAWINGS DRAWINGS
Ţ ₽ ₽	QUADRAPLEX RECEPTACLE, SPECIFICATION GRADE, TAMPER-RESISTANT WITH USB PORTS, (2) PASS & SEYMOUR #USB20X2, 20 AMPERE RATED, GROUNDING TYPE, 2 POLE, 3 WIRE, 125 VOLT RECEPTACLES.	1'-6" AFF		HOMERUN TO PANEL BOARD. WIRE & CONDUIT AS SPECIFIED ON PANEL SCHEDULES. CONDUIT, SIZED AS SPECIFIED		
- ₽ U	RECEPTACLE, AS ABOVE EXCEPT MOUNTING HEIGHT. VERIFY W/CASEWORK PRIOR TO ROUGH IN.	6" ACT TO BTM; WHEN NO CNTR, MNT AT 42" AFF TO BTM				
Φτ	DUPLEX RECEPTACLE, TAMPER RESISTANT, PASS & SEYMOUR #TR63I, 20 AMPERE RATED. GROUNDING TYPE.	1'-6" AFF		FIRE ΔΙ ΔRM		
₽T	RECEPTACLE, AS ABOVE EXCEPT MOUNTING HEIGHT. VERIFY W/CASEWORK PRIOR TO ROUGH IN.	6" ACT TO BTM; WHEN NO CNTR, MNT AT 42" AFF TO BTM	WHERE F	TITLE / LEVICENTS IRE ALARM SYSTEM EXISTS, ALL COMPONENTS TO BE UL LISTED AND TO MATCH EXIS SYSTEM AS DESCRIBED BELOW. <u>ALL SYMBOLS MAY NOT BE U</u>	TING SYSTEM, <u>SED</u>	OTHERWISE PROVIDE
₽	GROUND FAULT CIRCUIT INTERRUPTING RECEPTACLE, 20 AMP, FEED-THRU TYPE, SPECIFICATION GRADE, PASS & SEYMOUR #2095I.	1'-6" AFF		EQUALS BY SIMPLEX, NOTIFIER		
↑ ↑ ↑ COF	RECEPTACLE, AS ABOVE EXCEPT MOUNTING HEIGHT. VERIFY W/CASEWORK PRIOR TO ROUGH IN. COF=COFFEE MAKER DEDICATED CIRUIT.	6" ACT TO BTM; WHEN NO CNTR, MNT AT 42" AFF TO BTM	SYMBOL	DESCRIPTION		TOP UNO
∲ ^{MW}	DEDICATED CIRCUIT MICROWAVE RECEPTACLE, SAME AS ABOVE EXCEPT MOUNTING HEIGHT. VERIFY W/CASEWORK PRIOR TO ROUGH IN. RECEPTACLE, AS ABOVE EXCEPT MOUNTED IN CEILING.	6'-6" AFF TO BTM; COORD. WITH CABINET INSTALLER CEILING	FIRE ALARM PANEL, ZONE CAPICITY PER PLANS, 120 VOLT, BATTERY BACKUP, SMOKE DETECTOR TEST, RESET & CONFIRMATION FEATURES, FLUSH MOUNTED, EST # i064 ADDRESSABLE SERIES, WALL 6'- WITH SEPERATE ZONE & RELAY FOR AIR HANDLER SHUT DOWN SEE RISER AND SPECIFICATIONS			WALL 6'-6"
*	QUADRAPLEX RECEPTACLE, SPECIFICATION GRADE, (2) DUPLEX, PASS & SEYMOUR #2095I, 20 AMPERE RATED, GROUNDING TYPE, 2 POLE, 3 WIRE, 125 VOLTS.	1'-6" AFF	ANN	FIRE ALARM REMOTE ANNUNCIATOR, ZONE ALARM INDICATOR, ZONE TROUBLE INDICATORS, SILENCE LAMP, AND SWITCH, RESET SWITCH, EST # LSRA-C SERIES 6'-0" AFF TC		
*	RECEPTACLE, AS ABOVE EXCEPT MOUNTING HEIGHT. VERIFY W/CASEWORK PRIOR TO ROUGH IN.	6" ACT TO BTM; WHEN NO CNTR, MNT AT 42" AFF TO BTM	SMOKE DETECTOR, MULTI-SENSOR TYPE, EST # SIGA-IPHS w/ SIGA-SB BASE CEILING SUR DUCT SMOKE DETECTOR w/ REMOTE INDICATOR, SD-TRK, MOUNTED IN ACCESSIBLE LOCATION. SUPPLY or R INTELLIGENT MULTISENSOR DETECTOR COMPLETE WITH No. SIGA-SD DETECTOR HOUSING DUCT PLENU			CEILING SURFACE SUPPLY or RETURN AIR DUCT PLENUM-BY M.C.
€WC	RECEPTACLE, GFI, FOR ELECTRIC WATER COOLER, POSITION RECEPTACLE BEHIND WATER COOLER SO AS TO BE HIDDEN FROM SIGHT. COORDINATE EXACT M.H. W/ P.C., PASS & SEYMOUR #2095I.	SEE PLUMBING SHOP DRAWINGS	ĨĨ	SAMPLING TUBES (COORDINATE SIZE REQUIRED W/M.C. PRIOR TO ORDERING).UND CONDITIONS, PANEL TO SHUT DOWN AIR HANDLING EQUIPMENT, PLUS MAKE-UP-AI EXHAUST FANS (SEE MECHANICAL PLANS). DETECTOR TO BE SUPPLIED AND CONN	ER ALARM R UNIT, AND ECTED BY	REMOTE INDIWALL 5' AFF OR CLGBY E.C. COORD. LOCATION
∯ ^{WP}	W/WEATHER RESISTANT W/"IN USE" COVER #WIUCED10 (SINGLE) OR #WIUCED20 (TWO GANG).	1'-6" AFF	\oplus	HEAT DETECTOR, RATE OF RISE and/or 135°F FIXED TEMPERATURE, EST #SIGA-HRS BASE	6 w/ SIGA-SB	CEILING SURFACE
₩	ISOLATED GROUND RECEPTACLE STRAIGHT BLADE, ORANGE FACE, NYLON CONSTRUCTION, PASS & SEYMOUR # IG5362I 20 AMPERE RATED, GROUNDING TYPE, 2 POLE, 3 WIRE, 125 VOLTS.	1'-6" AFF	Ø	CARBON MONOXIDE DETECTOR WITH SMOKE DETECTION - EST #SIGA2-PCOS WITH BASE EST#SIGA-AB4GT. HEAT DETECTOR 194°F RATE OF RISE and FIXED TEMPERATURE ESI #282B w/ # CT	SOUNDER	CEILING SURFACE
♠	RECEPTACLE, AS ABOVE EXCEPT MOUNTING HEIGHT. VERIFY W/CASEWORK PRIOR TO ROUGH IN.	6" ACT TO BTM; WHEN NO CNTR, MNT AT 42" AFF TO BTM		CONNECTION MODULE		CEILING SURFACE
⊕ ^{30A} ∰	RECEPTACLE, 125/250 VOLT RATED, 30 AMP, 3 POLE, 4 WIRE, GNDING PASS & SEYMOUR #3860 WITH MATING PLUG AND CORD.		CLG MNT)	AUDIO (CHIME)/STROBE ALARM, FIELD CONFIGURABLE 15, 30, 75, 95 CANDELLA AND HIGH/LOW DB OUTPUT. GENESIS WALL SERIES, EG1-CVM SERIES W/FLUSH MOUNT	SELECTABLE BACK BOX.	WALL 80"-90" AFF OR 6" BELOW CEILING (MIN)
	LOCK. PASS & SEYMOUR #3330G WITH MATING PLUG AND CORD.	1'-6" AFF OR AS NOTED COORD.	(WALL MNT) GENESIS CEILING SERIES, GCFR-HDVM W/FLUSH MOUNT BACK BOX.		WHICHEVER IS LOWER
Φ50A∰	SEYMOUR #3890 WITH MATING PLUG AND CORD. RECEPTACLE, 125/250 VOLT RATED, 50 AMP, 3 POLE, 4 WIRE, GNDING WITH TWIST LOCK. PASS & SEYMOUR #CS6369 WITH MATING PLUG AND CORD.		(EQ (CLG MNT) 堅(WALL MNT	HIGH/LOW DB OUTPUT. GENESIS WALL SERIES, EG1-HDVM SERIES W/FLUSH MOUNT GENESIS CLG SERIES, EGC-HDVM SERIES W/ FLUSH MOUNT BACK BOX.	F BACK BOX.	BELOW CEILING (MIN) WHICHEVER IS LOWER
	RECEPTACLE, 125 VOLT RATED, 20 AMP, 2 POLE, 3 WIRE, GNDING WITH TWIST LOCK. PASS & SEYMOUR # L520R WITH MATING PLUG AND CORD.	MOUNTED IN CEILING OR AS NOTED	S (CLG MNT)	STRUDE ALARMI, FIELD CONFIGURABLE 15, 30, 75, 95 CANDELLA. WALL-GENESIS SEF SERIES W/FLUSH MOUNT BACK BOX. CEILING - GENESIS SERIES GCFR-VM W/FLUSH BOX.	NES EGT-VM I MOUNT BACK	WALL 80"-90" AFF OR 6" BELOW CEILING (MIN) WHICHEVER IS LOWER
() IG	RECEPTACLE, 125 VOLT RATED, 20 AMP, 2 POLE, 3 WIRE, GNDING ISOLATED GROUND WITH TWIST LOCK & ORANGE FACE. PASS & SEYMOUR IGL520R WITH MATING PLUG AND CORD	MOUNTED IN CEILING OR AS NOTED	题 _{WP}	WEATHERPROOF AUDIO(HORN)/STROBE ALARM, w/WEATHERPROOF FLUSH MOUNT EST #757-8A-HS w/ 757A-WB BACK BOX.	BACK BOX,	WALL 7'-6" AFG
©30A	RECEPTACLE, 125/250 VOLT RATED, 30 AMP, 3 POLE, 4 WIRE, GNDING W/TWIST LOCK. PASS & SEYMOUR #3860 WITH MATING PLUG AND CORD.	MOUNTED IN CEILING OR AS NOTED	₩wP	WEATHERPROOF AUDIO(BELL)/STROBE ALARM. COMPONENTS TO CONSIST OF BEL 439D-8AW-R & BELL/STROBE ADAPTOR PLATE EDWARDS #403-8A-R, 24V DC W/110 C	L EDWARDS # D STROBE	WALL 7'-6" AFG
30A 1G	RECEPTACLE, 125/250 VOLT RATED, 30 AMP, 3 POLE, 4 WIRE, GNDING ISOLATED GROUND W/TWIST LOCK & ORANGE FACE. PASS & SEYMOUR #IGL630R WITH MATING PLUG AND CORD.	MOUNTED IN CEILING OR AS NOTED	Ewp DH(w)	WEATHERPROOF STROBE ALARM, EST #202-8A-001, 110 CANDALIA STROBE w/ #897 DOOR HOLDER, EST LONG LATCH, FLUSH MOUNTED, EST # 1504 SERIES. DOOR HOL SHORT LATCH, FLUSH MOUNTED, EST # 1505 SERIES	BACK BOX. LDER, EST	WALL 7'-6" AFG WALL MOUNT, AS REQ'E SEE DETAIL
	CEILING MOUNTED JUNCTION BOX, 2-COMPARTMENT FOR POWER & DATA, FLUSH IN CEILING. COVER PLATE PER ARCHITECT. COORDINATE EXACT LOCATION WITH ARCHITECT & CUBICLE PARTION PROVIDER/INSTALLER PRIOR TO ROUGH-IN.	FLUSH IN CEILING, FIELD COORD.	DH(F)	DOOR HOLDER, EST SINGLE DOOR FLOOR MOUNTED, EST #1501 SERIES DOOR HOL DOUBLE DOOR FLOOR MOUNTED, EST #1502 SERIES	.DER, EST	WALL MOUNT, AS REQ'E SEE DETAIL.
	FLOOR BOX (4) RECEPTACLES, AS INDICATED, MOUNTED FLUSH IN FLOOR. UTILIZE LEGRAND WIREMOLD FIRE RATED EVOLUTION SERIES EFBXS-FC SERIES WITH	FLUSH IN FLOOR COORD. LOCATION	FSD ▼	MECHANICAL CONTRACTOR'S FIRE/SMOKE DAMPER. E.C. TO PROVIDE MATERIAL AI TIE TO EXISTING LOCAL FIRE ALARM SYSTEM. PROVIDE POWER AS INDICATED ON FURNISH RELAY AS REQUIRED.	ND LABOR TO DRAWING &	ABV CEILING
	REQUIRED DEVICES AND CONNECTIONS, AS NOTED IN SYMBOL SCHEDULES. PROVIDE ALL MODULES, MOUNTING BRACKETS DEVICE BRACKETS, SPACERS & OTHER ACCESSORIES, AS REQUIRED FOR A COMPLETE & OPERABLE FLOOR BOX.	EQUIPMENT LAYOUT PRIOR TO ROUGH IN.	NOTE: PROV DISCRETION NOTE:	IDE (4) EACH, ADDITIONAL SMOKE DETECTORS, PULL STATIONS, HORN STROBES, & ST OF THE AHJ.		S, TO BE INSTALLED AT TH
(F)	POKE THRU FLOOR BOX WITH FURNITURE FEED ASSEMBLY MOUNTED FLUSH IN FLOOR. SEE POWER & AUXILIARY SHEETS. UTILIZE LEGRAND WIREMOLD EVOLUTION SERIES 6AT SERIES W/ FURNITURE FEED COVER 6CFFTCXX (XX=FINISH BY ARCHITECT). E.C. TO INSTALL ALL REQUIRED DEVICES & CONNECTIONS, AS TO FEED POWER, AS INDICATED ON DWG. PROVIDE ALL MODULES, MOUNTING PRACKETS DEVICE PRACKETS, SPACEDS & OTHER ACCESSORIES, AS DESILIPED	FLUSH IN FLOOR COORD. LOCATION W/OWNER & ARCHITECTURAL EQUIPMENT LAYOUT PRIOR TO ROUGH IN.	SUBMITALS WHERE INDI	IN IS TO SELECT CANDELA SETTINGS FOR STROBES PER NEPA-72 REQUIREMENTS. INE , AND INCLUDE IN REQUIRED BATTERY CALCULATIONS. ENSURE ALL AUDIBLE DEVICES CATED, SUBSCRIPT INDICATES Cd LEVEL SETTING. ALL AUDIBLE DEVICES TO BE SET A	SARE SET TO A S ARE SET TO A T 60db MINIMUI	us un Wiking Diagram A Minimum of 60db. M
╟ ╓╴╉╊ _で ╴	FOR A COMPLETE & OPERABLE POKE THRU FLOOR BOX. SWITCHLEGS, RECEPTACLES & DATA LOCATIONS SHOWN FOR REFERENCE & CIRCUITING ONLY. TO BE INSTALLED & POWERED BY PREFABRICATED WALL					

	ELECTRICAL FIXTUR	RE SCHED	ULE		
SYMBOL	DESCRIPTION	LAMPS	MOUNTING	WATTS	DRIVER
A1	2'x4' RECESSED TROFFER, DIRECT/INDIRECT, LED, 4500 LUMENS, 3500K COLOR TEMPERATURE, 0-10V 1% DIMMING METALUX #24CZ2-45-UNV-L835-CD1	LED 3500K 4500 Lm	RECESSED	43	ELECTRONIC LED DRIVER - 0-10V 1% DIMMING
A2	2'x4' RECESSED TROFFER, DIRECT/INDIRECT, LED, 3000 LUMENS, 3500K COLOR TEMPERATURE, 0-10V 10% DIMMING METALUX #24CZ2-30-UNV-L835-CD1	LED 3500K 3000 Lm	RECESSED	24	ELECTRONIC LED DRIVER - 0-10V DIMMING
A3	2'x2' RECESSED TROFFER, DIRECT/INDIRECT, LED, 4400 LUMENS, 3500K COLOR TEMPERATURE, 0-10V 10% DIMMING METALUX #22CZ2-44-UNV-L835-CD1	LED 3500K 4400 Lm	RECESSED	43	ELECTRONIC LED DRIVER - 0-10V DIMMING
A4	2'x2' RECESSED TROFFER, DIRECT/INDIRECT, LED, 2900 LUMENS, 3500K COLOR TEMPERATURE, 0-10V 10% DIMMING METALUX #22CZ2-29-UNV-L835-CD1	LED 3500K 2900 Lm	RECESSED	22	ELECTRONIC LED DRIVER - 0-10V DIMMING
D1	4' LED STRIP LIGHT, CLEAR LENS, 4100 LUMENS, 3500K COLOR TEMPERATURE, STANDARD LED DRIVER METALUX #4SNLED-LD5-41SL-LC-UNV-L835-CD1	LED 3500K 4100 Lm	SURFACE, 0R CHAIN HUNG @ 8'-8" AFF	30	ELECTRONIC LED DRIVER
D2	2' LED STRIP LIGHT, CLEAR LENS, 2200 LUMENS, 3500K COLOR TEMPERATURE, STANDARD LED DRIVER METALUX #2SNLED-LD5-22SL-LC-UNV-L835-CD1	LED 3500K 2200 Lm	SURFACE, 0R CHAIN HUNG @ 8'-0" AFF	18	ELECTRONIC LED DRIVER
E1	LED EDGE LIT EXIT LIGHT, UNIVERSAL MOUNTING, GREEN LETTERS, (X=FACE), CLEAR BACKGROUND ON SINGLE FACE, MIRROR ON DOUBLE FACE SURE-LITES #EUX6G	LED INCLUDED	(C) = CEILING (W) = WALL 7'-6" AFF OR AS REQUIRED	2	N/A
E2	DUAL-HEAD EMERGENCY LIGHT, LED, WHITE FINISH HOUSING, 90-MINUTE BATTERY SURE-LITES #SEL25	LED INCLUDED	WALL 7'-6" AFF OR AS REQUIRED	2	N/A
F	18" UNDER-COUNTER TASK LIGHT, LED, 560 LUMENS, 3500K COLOR TEMPERATURE, 0-10V 1% DIMMING, ACRYLIC PATTERN 12 / 0.125" THICK LENS HALO #HU1118D9SP	LED 3500K 560 Lm	SURFACE, UNDER-CABINET	8	ELECTRONIC LED DRIVER - 0-10V DIMMING
G1	6" RECESSED DOWNLIGHT, ROUND APERTURE, 3000 LUMENS, 3500K COLOR TEMPERATURE, 0-10V 1% DIMMING, WIDE BEAM, CLEAR SEMI-SPECULAR FINISH PORTFOLIO #LD6C9035D010W1LI	LED 3500K 3000 Lm	RECESSED	32	ELECTRONIC LED DRIVER - 0-10V 1% DIMMING
G2	6" RECESSED DOWNLIGHT, ROUND APERTURE, 1500 LUMENS, 3500K COLOR TEMPERATURE, 0-10V 1% DIMMING, WIDE BEAM, CLEAR SEMI-SPECULAR FINISH PORTFOLIO #LD6C159035D010W1LI	LED 3500K 1500 Lm	RECESSED	16	ELECTRONIC LED DRIVER - 0-10V 1% DIMMING
G3	4" RECESSED DOWNLIGHT, ROUND APERTURE, 1500 LUMENS, 3500K COLOR TEMPERATURE, 0-10V 1% DIMMING, WIDE BEAM, CLEAR SEMI-SPECULAR FINISH PORTFOLIO #LD4C159035D010 W1H	LED 3500K 1500 Lm	RECESSED	16	ELECTRONIC LED DRIVER - 0-10V 1% DIMMING
H1	4' LINEAR DIRECT/INDIRECT, PENDANT MOUNT, LED, WIDE DISTRIBUTION, 1000/500 UP/DOWN LUMENS, 3500K COLOR TEMPERATURE, 0-10V 1% DIMMING LUMENWERX #VIA3P-DI-AR02-0.5D-W102-SW-80-1000/500-35-4FT-UNV-D1-1C-STS-W	LED 3500K 1000/500 Lms/ft.	PENDANT, 8'-0" AFF TO BTM OF FIXT. VERIFY CABLE LNTH W/ CLG HT.	53	ELECTRONIC LED DRIVER - 0-10V 1% DIMMING

NOTES: ELECTRICAL CONTRACTOR TO FURNISH AND MAKE PROVISIONS FOR THE INSTALLATION OF (3) ADDITIONAL TYPE "E1" FIXTURES & (2) ADDITIONAL TYPE "E2", DUAL HEAD EMERGENCY FIXTURES.

EQUALS MAY BE SUBMITTED BY ACUITY BRAND, PHILIPS LIGHTING PRODUCTS, HUBBELL, H.E. WILLIAMS, EDISON PRICE, LUMINAIRE, ALW, FINELITE GE LIGHTING SYSTEMS, METALUMEN, LITHONIA LIGHTING, FOCAL POINT, SIGNTEX, AND CHLORIDE.

COORDINATE LOCATIONS & MOUNTING HEIGHTS OF ALL EXTERIOR FIXTURES WITH ARCHITECTURAL ELEVATIONS & LIGHTING PLANS. * WHERE FIXTURES ARE INSTALLED IN GWB/WOOD ETC., E.C. TO PROVIDE APPROPRIATE INSTALLATION KIT. COORDINATE WITH ARCHITECTURAL RCP.

DEVICES ARE TO BE REMOVED. DEMOLITION NOTES, CEILING DEVICES ARE TO BE REMOVED. COORDINATE CLOSELY WITH OWNER. AFTER CONSTRUCTION. CIRCUITING INFORMATION. PANEL SCHEDULES FOR ADDITIONAL CIRCUITING INFORMATION.

RENDERED USELESS BY CONSTRUCTION. THRU SITE VISIT, AND ARE GENERALLY SHOWN FOR PURPOSES OF REFERENCE AND INTENT ONLY. VERIFY EXACT CONDITIONS, QUANTITIES, LOCATIONS, CIRCUITRY, CONDUIT ROUTING, ETC., IN FIELD. EXISTING DEVICES, ARE SHOWN WITH LIGHTER TEXT AND DASHED OUTLINE. EXISTING WIRING AND RACEWAYS TO BE REUSED WHERE POSSIBLE OR PRACTICAL, AND EXISTING WIRING IS FOUND TO BE IN GOOD CONDITION; REPLACE ANY EXISTING WIRING FOUND TO BE IN POOR CONDITION. ALL NEW INSTALLATIONS SHALL USE NEW WIRE, TYPICAL. ALL MATERIALS REMOVED AND NOT TO BE REUSED ARE TO BE DISPOSED OF PER OWNER'S INSTRUCTIONS.

1>	NO WORK THIS ROOM / AREA. IN REPLACE AS REQUIRED FOR PRO
2>	THIS ROOM / AREA - ALL EXISTIN EXISTING ELECTRICAL DEVICES NORMAL OPERATION. RE-LAMP I
3>	THIS ROOM / AREA - ALL EXISTIN OTHERWISE. EXISTING WIRING & CIRCUIT(S) FOR ITEMS TO REMAI
4>	EXISTING ELECTRICAL DEVICE(S) PROPER OPERATION. EXISTING
5>	EXISTING ELECTRICAL DEVICE TO SOURCE. COORDINATE THAT CIP
6>	EXISTING FIRE ALARM PANEL, AN COORDINATE NEW LOCATION WI TO BE LENGTHENED AS REQUIRE

NG ELECTRICAL DEVICES TO REMAIN UNLESS NOTED OTHERWISE. S TO REMAIN ARE TO BE CLEANED & REPAIRED OR REPLACED FOR PEXISTING LIGHT FIXTURES. NG ELECTRICAL DEVICES TO BE REMOVED UNLESS NOTED & CONDUIT TO BE REMOVED TO SOURCE. COORDINATE THAT AIN ARE LEFT IN OPERATION. (S) TO REMAIN. CLEAN & REPAIR OR REPLACE AS REQUIRED FOR IG LIGHT FIXTURES DESIGNATED TO REMAIN ARE TO BE RE-LAMPED. TO BE REMOVED. EXISTING WIRING & CONDUIT TO BE REMOVED TO CIRCUIT(S) FOR ITEMS TO REMAIN ARE LEFT IN OPERATION. ANNUNCIATOR PANEL & DEDICATED OUTLET TO BE RELOCATED. VITH NEW POWER & RECEPTACLE PLAN. EXISTING WIRING & CONDUIT

KEYED ELECTRICAL DEMOLITION NOTES APPLY TO THIS SHEET ONLY INSPECT EXISTING ELECTRICAL DEVICES & CLEAN, REPAIR OR ROPER OPERATION.

EXISTING BUILDING NOTES REMOVE ALL CONDUIT, WIRING, AND ELECTRICAL EQUIPMENT, INCLUDING PREVIOUSLY ABANDONED, LOCATIONS SHOWN FOR EXISTING DEVICES ARE TAKEN FROM BUILDING AS-BUILT DRAWINGS & WALK

WHERE LIGHTING FIXTURES AND ASSOCIATED SWITCHING ARE REMOVED, ELECTRICAL CONTRACTOR TO REMOVE EXISTING FIXTURE, SWITCH, SWITCH BOX, CONDUIT AND WIRING BACK TO IT'S SOURCE. WHERE CIRCUIT FEEDING FIXTURE(S) TO BE REMOVED ALSO FEEDS FIXTURE(S) THAT ARE TO REMAIN, ELECTRICAL CONTRACTOR SHALL PROVIDE CONDUIT, WIRING AND BOXES AS REQUIRED TO REFEED EXISTING FIXTURE(S), AS REQUIRED, FOR PROPER OPERATION. SEE INSTALLATION DRAWINGS AND

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WHERE RECEPTACLES ARE REMOVED, ELECTRICAL CONTRACTOR TO REMOVE EXISTING RECEPTACLE DEVICE, BOX, CONDUIT AND WIRING BACK TO IT'S SOURCE. WHERE CIRCUIT FEEDING RECEPTACLE TO BE REMOVED ALSO FEEDS RECEPTACLES THAT ARE TO REMAIN, ELECTRICAL CONTRACTOR SHALL PROVIDE CONDUIT, WIRING AND BOXES AS REQUIRED TO REFEED EXISTING RECEPTACLES, AS REQUIRED, FOR PROPER OPERATION. SEE INSTALLATION DRAWINGS AND PANEL SCHEDULES FOR ADDITIONAL

BE REINSTALLED AS CLOSE AS POSSIBLE TO ORIGINAL LOCATION. PROVIDE MATERIAL AND LABOR FOR EXTENDING CONDUIT & WIRING, AS REQUIRED, FOR REINSTALLATION. ENSURE PROPER OPERATION

E.C. TO TAKE CARE IN REMOVING, TAGGING, & STORING DEVICES DURING DEMO PHASE, & REPLACING DEVICES TO BE REUSED DURING NEW CONSTRUCTION PHASE. EXISTING CEILING MOUNTED DEVICES TO

ALL EXISTING QUANTITIES AND LOCATIONS & COORDINATE CLOSELY WITH OWNER. FIRE ALARM SYSTEM - CONTRACTOR MAY REUSE EXISTING CONDUIT AND WIRING TO THE EXTENT POSSIBLE IN PROVIDING A COMPLETE AND OPERABLE ADDRESSABLE FIRE ALARM SYSTEM THAT WILL BE UL COMPLIANT. CONTRACTOR IS TO PROVIDE ALL LABOR & MATERIALS, INCLUDING BUT NOT LIMITED TO DEVICES, BOXES, CONDUIT, POWER BOOSTERS, EXPANSION MODULES, AND WIRING FROM ALL DEVICES TO APPROPRIATE CONTROL PANEL OR POWER SUPPLY IN ORDER TO PROVIDE A COMPLETE AND OPERABLE SYSTEM. CONTRACTOR TO FIELD VERIFY ALL EXISTING QUANTITIES AND LOCATIONS &

SYSTEM. CONTRACTOR IS TO PROVIDE ALL LABOR & MATERIALS, INCLUDING BUT NOT LIMITED TO DEVICES, BOXES, CONDUIT, AND WIRING FROM ALL DEVICES TO APPROPRIATE DISTRIBUTION/CONTROL PANEL IN ORDER TO PROVIDE A COMPLETE AND OPERABLE SYSTEM. CONTRACTOR TO FIELD VERIFY

FOR CEILING MOUNTED DEVICES: (TYPICALLY LIGHTING FIXTURES, EXIT LIGHTS, DOME LIGHTS, WIRELESS TRANSMITTERS, CAMERAS, SMOKE DETECTORS, SPEAKERS, ETC.) UNLESS NOTED OTHERWISE IN LIGHTING, POWER, DATA, INTERCOM, SECURITY AND NURSE CALL SYSTEMS - CONTRACTOR MAY REUSE EXISTING CONDUIT AND WIRING TO THE EXTENT POSSIBLE IN PROVIDING A COMPLETE AND OPERABLE

GENERAL NOTES FOR ELECTRICAL DEMOLITION FOR WALL MOUNTED DEVICES: (TYPICALLY RECEPTACLES, DATA/TV OUTLETS, NURSE CALL, SECURITY ACCESS & LIGHT SWITCHES) UNLESS SPECIFICALLY IDENTIFIED BY DEMOLITION NOTE, WALL MOUNTED

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P11 P12

CITY HALL - LEVEL 1 ELECTRICAL DEMOLITION PLAN 3/16" = 1'-0" 1

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 CONNECT NEW CORRIDOR EGRESS / NIGHT LIGHT FIXTURES TO EXISTING N/L LIGHTING CIRCUIT PREVIOUSLY SERVING THE AREA WITH 3#12* IN 3/4" CONDUIT.
 SWITCHLEG & WIRING SHOWN FOR REFERENCE. EXACT LOCATION & PATHWAY ARE BY WALL MANUFACTURER. COORDINATE WITH WALL VENDOR / INSTALLER & OWNER OR ARCHITECT PRIOR TO

	KEYED ELECTRICAL POWER & RECEPTACLE NOTES
	APPLY TO THIS SHEET ONLY
1	NO NEW POWER / RECEPTACLE WORK THIS ROOM / AREA, EXCEPT WHERE NOTED. SEE ELECTRICAL LIGHTING PLANS FOR POSSIBLE LIGHTING WORK. INSPECT EXISTING ELECTRICAL DEVICES TO REM. & CLEAN / REPAIR / REPLACE AS REQUIRED FOR PROPER OPERATION.
2	CONNECT NEW RECEPTACLE(S) WITH 3#12* IN 3/4" CONDUIT TO NEARBY 120V. CIRCUIT W/ SUFFICIEN BREAKER CAPACITY.
3	CONNECT NEW RECEPTACLE(S) WITH 3#12* IN 3/4" CONDUIT TO NEARBY EXISTING 120V. PANEL. CIRCUIT TO NEW 20A BREAKER OR EXISTING 20A BREAKER LEFT VACANT DURING DEMOLITION PHAS CLOSELY COORDINATE WITH EXISTING CONDITIONS & REVISE IF REQUIRED. UPDATE EXISTING PANI SCHEDULE.
4	CONNECT NEW DEDICATED RECEPTACLE WITH 3#12* IN 3/4" CONDUIT TO NEARBY EXISTING 120V. PANEL. CIRCUIT WITH NEW 20A BREAKER OR EXISTING 20A BREAKER LEFT VACANT DURING DEMOLITION PHASE. CLOSELY COORDINATE WITH EXISTING CONDITIONS, REQUIREMENTS OF THE EQUIPMENT & REVISE IF REQUIRED. UPDATE EXISTING PANEL SCHEDULE.
5	CONNECT NEW DEDICATED DATA RACK RECEPTACLE WITH 4#12* IN 3/4" CONDUIT TO NEARBY EXISTING 120V. PANEL. CIRCUIT WITH NEW 2-POLE 20A BREAKER. COORDINATE EQUIPMENT REQUIREMENTS & REVISE IF REQUIRED. UPDATE EXISTING PANEL SCHEDULE.
6	NEW FIRE ALARM DEVICE TO MATCH EXISTING SYSTEM INSTALLED IN THE BUILDING. CONNECT AS REQUIRED TO EXISTING FIRE ALARM SYSTEM. COORDINATE EXACT LOCATION & REQUIREMENTS W/ OWNER PRIOR TO ROUGH-IN.
7	NEW DATA OUTLET TO MATCH EXISTING DEVICES INSTALLED IN THE BUILDING. CONNECT AS REQUIRED TO EXISTING NEARBY DATA RACK. COORDINATE EXACT LOCATION & REQUIREMENTS W/ OWNER PRIOR TO ROUGH-IN.
8	NEW SECURITY SYSTEM DEVICE TO MATCH EXISTING SYSTEM INSTALLED IN THE BUILDING. CONNEC AS REQUIRED TO EXISTING BUILDING SECURITY SYSTEM. COORDINATE EXACT LOCATION & REQUIREMENTS W/ OWNER PRIOR TO ROUGH-IN.
9	LOCATION OF 2-WAY COUNTERTOP COMMUNICATION (SPEAKERS & MICROPHONES)SYSTEM AT EACH CUSTOMER SERVICE WINDOW. PROVIDE POWER FROM NEARBY EXISTING 120V PANEL WITH SUFFICIENT CAPACITY. COORDINATE EXACT LOCATION & REQUIREMENTS W/ OWNER PRIOR TO ROUGH-IN.
10	POWER & DATA LOCATION ABOVE EACH CUSTOMER SERVICE WINDOW COUNTER FOR NEW DIGITAL SIGNAGE/MONITOR. PROVIDE POWER FROM NEARBY EXISTING 120V PANEL WITH SUFFICIENT CAPACITY. COORDINATE EXACT LOCATION & REQUIREMENTS W/ OWNER PRIOR TO ROUGH-IN.
11	ELECTRICAL CONTRACTOR TO INSTALL POWER TO JUNCTION BOX FOR CONNECTION TO PREFABRICATED WALLS. RECEPTACLE & DATA LOCATIONS IN PREFABRICATED WALLS SHOWN FOR REFERENCE FOR PREFABRICATED WALL INSTALLER & MANUFACTURER. COORDINATE EXACT LOCATIONS & REQUIREMENTS W/ PREFABRICATED WALL INSTALLER & OWNER OR ARCHITECT PRIOF WORK.
12	EXISTING VAV BOXES SHOWN FOR REFERENCE. DISCONNECTING EXISTING UNITS, REPLACEMENT & RE-CONNECTION TO NEW UNITS BY MECHANICAL CONTRACTOR.
13	NEW WIRELESS ACCESS POINTS TO BE MOUNTED IN CEILING & CONNECTED TO EXISTING SYSTEM WITHIN THE BUILDING. MATCH EXISTING & CONNECT AS REQUIRED. COORDINATE WITH OWNER OR ARCHITECT PRIOR TO ROUGH-IN.

IS ROOM / AREA, EXCEPT WHERE NOTED. SEE ELECTRICAL & WORK. INSPECT EXISTING ELECTRICAL DEVICES TO REMAIN D FOR PROPER OPERATION. IN 3/4" CONDUIT TO NEARBY 120V. CIRCUIT W/ SUFFICIENT 2* IN 3/4" CONDUIT TO NEARBY EXISTING 120V. PANEL. NG 20A BREAKER LEFT VACANT DURING DEMOLITION PHASE. ONDITIONS & REVISE IF REQUIRED. UPDATE EXISTING PANEL WITH 3#12* IN 3/4" CONDUIT TO NEARBY EXISTING 120V. OR EXISTING 20A BREAKER LEFT VACANT DURING ATE WITH EXISTING CONDITIONS, REQUIREMENTS OF THE ATE EXISTING PANEL SCHEDULE. ECEPTACLE WITH 4#12* IN 3/4" CONDUIT TO NEARBY W 2-POLE 20A BREAKER. COORDINATE EQUIPMENT UPDATE EXISTING PANEL SCHEDULE. ING SYSTEM INSTALLED IN THE BUILDING. CONNECT AS EM. COORDINATE EXACT LOCATION & REQUIREMENTS W/

H EXISTING SYSTEM INSTALLED IN THE BUILDING. CONNECT JRITY SYSTEM. COORDINATE EXACT LOCATION & GH-IN.

UNICATION (SPEAKERS & MICROPHONES)SYSTEM AT EACH POWER FROM NEARBY EXISTING 120V PANEL WITH CT LOCATION & REQUIREMENTS W/ OWNER PRIOR TO

M NEARBY EXISTING 120V PANEL WITH SUFFICIENT & REQUIREMENTS W/ OWNER PRIOR TO ROUGH-IN. WER TO JUNCTION BOX FOR CONNECTION TO ATA LOCATIONS IN PREFABRICATED WALLS SHOWN FOR STALLER & MANUFACTURER. COORDINATE EXACT RICATED WALL INSTALLER & OWNER OR ARCHITECT PRIOR TO NCE. DISCONNECTING EXISTING UNITS, REPLACEMENT &

SHEET NUMBER

F-300

EΣ	XISTING PANEL: P11		<u>NEW L</u> FROM EX	OADS SH ISTING PA	OWN SOLID & I NEL SCHEDUL	DARKER :: EXIS .ES. FIELD VERIF	TING LOAD	DESCRIPT	ION INFORM	MATION TAKE	<u>EN</u> ZING.		E	EXISTING PAN	NEL: P12	<u>NE</u> FROM	W LOADS	SHOWN G PANEL	<u>SOLID & E</u> SCHEDUL	ARKER :: EX ES. FIELD VER	<u>ISTING LOAD D</u> IFY PRIOR TO D	ESCRIPTION IN DE-ENERGIZIN	NFORMAT G AND/OF	<u>ION TAKEN</u> R ENERGIZII	<u>I</u> NG.	
	LOCATION: ELEC RM SUPPLY FROM: MDP MOUNTING: SURFACE ENCLOSURE: NEMA 1				VOL ⁻ PHASE WIRE BRANC	TS: 120/208 Wye ES: 3 ES: 4 CH: NORMAL			A.I.C MA MAINS NEUTRAI	C. RATING: 10 INS TYPE: LL S RATING: 22 L RATING: 10	DKA JGS 25 A D0%			LOCA SUPPLY F MOUN ENCLOS	ATION: ELEC RM ROM: P11 ITING: SURFACE SURE: NEMA 1				VOLI PHASE WIRE BRANC	 S: 120/208 Wye S: 3 S: 4 H: NORMAL 		NEI	A.I.C. R/ MAINS MAINS R/ JTRAL R/	ATING: 10kA TYPE: LUG ATING: ²²⁵ ATING: 1009	A SS A %	
скт		WIRE	COND	BKR	 A	B	C	BKR	COND	WIRE		скт	ск	T DESCRIPTION	WIRE	CON		_	Α Ι	В	c	BKR CO	ND	WIRE	DESCRIPTION	СКТ
·			+ -					1-15 A	- <u>-</u> + ·					-		- + 3/4	 4"	A 0.18 kV	A 1.26kVA			$1-20\overline{A} = \frac{3}{3}$	4" —	3#12*	RECEPTACLES — — — —	
3	SPARE	_ <u>`</u> _		1-20 A		. kVA 0.80 kVA		1-15 A	3/4"			4	3			3/4	4" 1-20	A		0.70 kVA 0.36 kV	A	1-20 A 3/	4"	3#12*	RECEPTACLES	
5 .5	SPARE		<u> </u>				. kVA, 0.86	kVA 1-15 A	3/4"	3#12*	VAV-204		5				1-20	A			. kVA, 0.18 k\	/A 1-20 A 3/	` 4"	3#12*		6
7 8	SPARE		+ -	1-20 A	. kVA 0.95kVA			1-15 A	$- \frac{3}{3/4} $ +	3#12*		$ - \frac{3}{8} $	7	_	— — — — <u> </u>	- + -		A .kV	A 0.72kVA			1-20 A 3/	4" ⁻⁺	3#12*	RECEPTACLES	
9 5	SPARE			1-20 A T		. kVA 0.86 kVA		1-15 A	3/4"	3#12*		$- \square_{10}$	9		- — — —		1-20	A		. kVA 0.54 kV	A	1-20 A 3/	4"	3#12*	RECEPTACLES	
11 .5	SPARE		<u> </u>	1-20 A			. kVA, 0.86	kVA 1-15 A	3/4"	3#12*	VAV-209	12	11	TELECOMM. RECEPTACLES			4" 1-20	A			0.36 kVA, 1.08 k\	/A 1-20 A 3/	` 4"	3#12*		12
13 8	SPARE		+ -	1-20 A	. kVA 0.86kVA			1-15 A	$- \frac{3}{3/4} $ +	3#12*	— <u> </u>	$ - - \frac{1}{14} $	13	- <u>—</u> — — — –		- + - 3/4	4" <u></u>	A 0.70 kV	A 1.26kVA			1-20 A 3/	4" ⁻⁺	3#12*	RECEPTACLES	— I <u> </u>
15 5	SPARE			1-20 A		.kVA kVA		S.O.			SPACE ONLY	<u>16</u>	15	KITCHEN RECEPTACLES		3/4	4" 1-20	A		1.50 kVA 1.08 kV	4	1-20 A 3/	4"	3#12*	RECEPTACLES	16
17 .5	SPARE		<u> </u>	1-20 A			. kVA,	kVA S.O.	· <u>·</u> · · ·				17				4" 1-20	A			0.90 kVA, 0.72 k	/A 1-20 A 3/	` 4"	3#12*		
19 5	SPARE		+ -	1-20 A	. kVA 1.18kVA			1-20 A	- <u> </u>		— I <u>—</u> — — — — —	$ \frac{1}{20} $	19	RECEPTACLES		- + - 3/4	4" <u></u>	A 0.18 kV	A 0.18kVA			1-20 A 3/	4" ⁻⁺	3#12*	RECEPTACLES	
21	SPACE ONLY					kVA 0.84 kVA		1-15 A	3/4"	3#12*		$ \frac{-2}{22}$	21	RECEPTACLES			4" 1-20	A		0.18kVA 0.18kV	A	1-20 A 3/	4"	3#12*	RECEPTACLES	2
23 5	SPACE ONLY		<u> </u>				kVA, 1.18	kVA 1-20 A		3#12*	VAV-104	$ \frac{1}{24}$	23				4" 1-20	A			0.18 kVA, 0.18 k	/A 1-20 A 3/	4" <u> </u>	3#12*		24
25 8			+ -	− <u>s.o.</u> ⊢	kVA 0.63kVA			1-15 A	-		— <u></u>	$ - \frac{1}{26} $	25	RECEPTACLES		- + - 3/4	4" <u> </u>	A 0.36 kV	A 0.18kVA			1-20 A 3/	4" ⁻⁺	3#12*	RECEPTACLES — — — —	
27	SPACE ONLY	— — —	Τ.Ι	S.O.		kVA 0.41 kVA		1-15 A	3/4"				27	RECEPTACLES			4" 1-20	Α		0.36 kVA 0.72 kV	4	1-20 A 3/4	4"	3#12*	RECEPTACLES	28
29 18	SPACE ONLY		<u> </u>				kVA, 1.09	kVA 1-15 A					29	RECEPTACLES			4" 1-20	A			0.54 kVA 0.54 k	/A 1-20 A 3/	4" <u> </u>	3#12*	RECEPTACLES	
31 5			+ -		kVA 0.49kVA			1-15 A	- <u> </u>		—	$ \frac{32}{32}$	31	RECEPTACLES		- + 3/4	4" <u>1</u> -20	A 0.54 kV	A 0.36kVA			1-20 A 3/	4" ⁻⁺	3#12*	RECEPTACLES	- 1 - 32
33	SPACE ONLY		Τ.Ι	S.O.		kVA 0.84 kVA		1-15 A	3/4"				33	RECEPTACLES		3/4	4" 1-20	Α		0.54 kVA 0.36 kV	4	1-20 A 3/	4" 🗍 👘	3#12*	RECEPTACLES	
35 18	SPACE ONLY			S.O.			kVA	kVA S.O.			SPACE ONLY		35	RECEPTACLES			4" 1-20	A			0.54 kVA 1.56 k	/A 1-20 A 3/	4"	3#12*	RECEPTACLES / MICROWAVE OVEN	· <u>36</u>
37			+ -1	F	1.73 kVA kVA			S.O.			SPACE ONLY		37	RECEPTACLES		- + 3/4	4" 1-207	A 0.18 kV	A 0.54kVA			1-20 A 3/4	4" —	3#12*	RECEPTACLES	
	PANEL 'CR'	4#6, 1#10*	1"	3P-60		1.26 kVA kVA		S.O.				40	39	RECEPTACLES	<u> </u>		4" 1-20 /	A		1.26 kVA 0.18 kV	4	1-20 A 3/4	4"		RECEPTACLES	
41	I		1 1				1.82 kVA	kVA S.O.				42	41	RECEPTACLES			4" 1-20 /	A			1.44 kVA 0.36 k	/A 1-20 A 3/4	4"	3#12*	RECEPTACLES	42
! !					6.64 kVA	7.96 kVA	8.58				_ '	'				EXIST		D	6.64 kVA	7.96 kVA	8.58 kv				<u> </u>	
			EXISTING		13.38 KVA	12 97 kV/A													k\/A							
					10.00 <u>kV/</u>	<u>12.07</u> <u>KVA</u>													<u>wa</u>	<u></u> . <u></u>		<u> </u>				
					<u>KVA</u>	KVA	''	<u></u>							LEGEND: * = INCL	UDES GF		VIRE; **	= GFCI BF	REAKER; *** =	LOCKING HA	NDLE; **** = S	HUNT TR	RIP BREAKE	ER	
		* = INCLUD	ES GROU		** = GECI BI	RFAKER· *** = I			** = SHUNT	T TRIP BREAK	KFR							•		,						

			FROM EX	ISTING F	PANEL SCHEDU	LES. FIELD	VERIF	Y PRIO	R TO DE	-ENERG	IZING AND	OR ENERGI	ZING.					
	LOCATION:	CORRIDOR			VOL	TS: 120/208	Wye				DkA							
	SUPPLY FROM:	MDP			PHAS	ES: 3				MAINS TYPE: LUGS								
	MOUNTING:	SURFACE	WIRES: 4								MAINS RATING: 225 A							
	ENCLOSURE:	NEMA 1										RATING: 1	00%					
					BRAN	CH: NORM	AL											
скт	DESCRIPTION	WIRE	COND	BKR	A	— — — — — в		c	;	BKR	COND	WIRE	DESCRIPTION	скт				
1	LTG: COMM. RM.		- + <u></u> 3/4"	1-20 A	0.79 kVA 0.36kVA					1-20 A	3/4"	3#12*		_ 2				
3		3#12*	3/4"	1-20 A		0.93 kVA 0	.36 kVA			1-20 A	3/4"	3#12*	3RD FLOOR TELECOMM.	4				
5	LTG: 1ST FLOOR	3#12*	3/4"	1-20 A				0.45 kVA	0.36 kVA	1-20 A	3/4"	3#12*	12ND FLOOR TELECOMM.	6				
7	LTG: BASEMENT	3#12*	- + <u>-</u> 3/4"	1-20 A	0.75 kVA 0.36kVA					1-20 A	3/4"	3#12*	BASEMENT TELECOMM.	_				
9	POLICE RECEPTACLES	3#12*	3/4"	1-20 A		0.54 kVA 0	.36 kVA			1-20 A	3/4"	3#12*	SERVER TELECOMM.	10				
11	POLICE RECEPTACLES	3#12*	3/4"	1-20 A				0.72 kVA	0.36 kVA	1-20 A	3/4"	3#12*	SERVER TELECOMM.	12				
13	POLICE RADIO REC.	3#12*	- +- <u>-</u>	1-20 A	0.18 kVA 0.36kVA					1-20 A	3/4"	3#12*	COMM. RM. RECEPT.	<u> </u>				
15	CCTV RACK REC.	3#12*	3/4"	1-20 A		0.36 kVA 0	.36 kVA			1-20 A	3/4"	3#12*	COMM. RM. RECEPT.	16				
17			- <u> </u>	1-20 A				. kVA	0.54 kVA	1-20 A	3/4"	3#12*	COMM. RM. RECEPT.					
19	SPARE		- + -	1-20 A	. kVA 0.72kVA					1-20 A	3/4"	3#12*	COMM. RM. RECEPT.					
21	SPARE		- <u> </u>	1-20 A		.kVA 0).54 kVA			1-20 A	3/4"	3#12*	COMM. RM. RECEPT.	22				
23	SPARE			1-20 A				.kVA	0.54 kVA	1-20 A	3/4"	3#12*	COMM. RM. RECEPT.	24				
25	SPACE ONLY		- + -	S.O.	kVA 0.72kVA					1-20 A	3/4"	3#12*	COMM. RM. RECEPT.					
27	SPACE ONLY		$-\top$	S.O.		kVA 0).72 kVA			1-20 A	3/4"	3#12*	COMM. RM. RECEPT.	28				
29	SPACE ONLY			S.O.				kVA	0.54 kVA	1-20 A	3/4"	3#12*	COMM. RM. RECEPT.					
31	SPACE ONLY	_	- + - 1	S.O.	kVA 0.72kVA					1-20 A	3/4"	3#12*	COMM. RM. RECEPT.	32				
33	SPACE ONLY		$-\top$	S.O.		kVA 0	.36 kVA			1-20 A	3/4"	3#12*	COMM. RM. RECEPT.					
35		2#C 1#10*		2 60 4				4.59 kVA	0.54 kVA	1-20 A	3/4"	3#12*	COMM. RM. RECEPT.					
37	AC-1	3#0,1#10*	3/4"	2-60 A	4.59 kVA 1.50kVA					1-20 A	3/4"	3#12*	COMM. RM. KTICHEN RECEPT.					
39						1.33 kVA 1	.50 kVA			1-20 A	3/4"	3#12*	COMM. RM. KITCHEN RECEPT.	40				
41	AUU-1	4#12"		2-23 A				1.33 kVA	.018 kVA	1-20 A	3/4"	3#12*	COMM. RM. BATH RECEPT.	42				
			EXISTING		11.05 kVA	7.3	36 kVA		8.64 kVA									
			ADDED	LOAD	kVA		. kVA		. kVA									

NOTES: UNO ALL CONDUIT TO BE 3/4" EMT; UNO ALL SPARES TO BE 1P-20

E	XISTING PANEL:	NEW LOADS SHOWN SOLID & DARKER :: EXISTING LOAD DESCRIPTION INFORMATION TAKEN FROM EXISTING PANEL SCHEDULES. FIELD VERIFY PRIOR TO DE-ENERGIZING AND/OR ENERGIZING.																	
	LOCATION:	FLEC RM				VOL.	TS: 120/2	08 Wve			A.I.C. RATING: 10KA								
		PHASES: 3																	
												DATING: 1							
					VVIRI	-3 . 4				MAINS RATING: 100 A									
	ENCLOSURE:	NEWA I									NEUTRAL RATING: 100%								
·							H: NOF			,									
скт	DESCRIPTION	WIRE	COND	BKR	Δ		В	,	C	;	BKR	COND	WIRE	DESCRIPTION	СКТ				
1			- + <u>-</u> 3/4"	1-20 A	0.31 kVA	1.33kVA					1-20 A	<u> </u>		LTG: 1ST FLOOR	2				
3	TG: 2ND FLOOR	3#12*	3/4"	1-20 A			0.47 kVA	1.35 kVA			1-20 A	□ . □ I □	3#12*	LTG: 1ST FLOOR	— <u> </u>				
5 ₁ 1	TG: 2ND FLOOR	3#12*	3/4"	1-20 A					0.24 kVA	1.09kVA	1-20 A		3#12*	LTG: 1ST FLOOR	6				
7 1			- +- <u>-</u> 3/4"	1-20 A	0.86 kVA	1.21kVA					1-20 A	· — +	3#12*	LTG: 1ST FLOOR	8				
9		3#12*	3/4"	1-20 A			0.74 kVA	0.64 kVA			1-20 A		3#12*	LTG: 1ST FLOOR	10				
		3#12*	3/4"	1-20 A					0.69 kVA	1.11 kVA	1-20 A		3#12*	LTG: 1ST FLOOR	12				
1 <u>3</u> 1		3#12*	3/4"	1-20 A	0.67 kVA	.kVA					1-20 A	· — —		SPARE	14				
15	TG: 2ND FLOOR	3#12*	3/4"	1-20 A			1.34 kVA	. kVA			1-20 A			SPARE	16				
17	TG: 2ND FLOOR	3#12*		1-20 A					1.20 kVA	.kVA	1-20 A			SPARE	18				
19 '	SPACE ONLY			S.O.	kVA	.kVA					1-20 A			SPARE	20				
21	SPACE ONLY			S.O			kVA	. kVA			1-20 A	I		SPARE	22				
23	SPACE ONLY			S.O					kVA	.kVA	1-20 A	I:	·	<u>SPARE</u>	24				
25	SPACE ONLY			S.O	kVA	kVA					<u>S</u> .O.			SPACE_ONLY	26				
27	SPACE ONLY		_ _	S.O			kVA	kVA			<u>S</u> .O.			SPACE_ONLY	28				
29	SPACE ONLY	_		S.O					kVA	kVA	<u>S</u> .O.			SPACE_ONLY					
31 '	SPACE ONLY			S.O	kVA	kVA					<u>S</u> .O.			SPACE_ONLY					
33	SPACE ONLY		_ _	S.O			kVA	kVA			<u>S</u> .O.			SPACE_ONLY	34				
35	SPACE ONLY	_		S.O					kVA	kVA	<u>S</u> .O.			SPACE_ONLY					
37	SPACE ONLY			S.O	kVA	kVA					<u>S</u> .O.			SPACE_ONLY					
39 3	SPACE ONLY		_ _	S.O			kVA	kVA			<u>S</u> .O.			SPACE_ONLY					
41	SPACE ONLY			S.O					kVA	kVA	_ <u>S</u> .O	∣ ⊥		SPACE ONLY					
					4.38 kVA		4.54 kVA	4.33 kVA											
						. kVA				. kVA									
	LE	GEND: * = INCLU	DES GROI		RE: ** =	GFCI BI	REAKER	l; *** =		G HAND	LE: ***	* = SHUN ⁻	T TRIP BREA	KER					
					,						,								
NOTE	S: UNO ALL CONDUIT TO	BE 3/4" EMT; UNO	ALL SPA	RES TO	BE 1P-2	D													

SHEET NUMBER