

# OWNER



## **RISE PARTNERS**

832 GEORGIA AVE, SUITE 507 CHATTANOOGA, TN 37402

AND

AT

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P.J.

P.LAM.

PLAS.

PLUMB

PLYWD

PNL.

POL.

P.S.F.

P.S.I.

PTD.

PTN.

Q.T.

QTY.

RAD.

R.C.P.

R.D.

REF

REFL.

REFR.

REINF.

REM.

REQ'D.

RESIL.

REV.

RM.

R.O.

RND.

R.T.U.

SAN.

SCH.

SECT.

S.C.

S.F.

SIM.

S.J.

SQ.

S.S.

STL.

STD.

STOR.

STRL.

SUSP.

SUP.

T.G.

T.B.D.

TEMP

THK.

T.O.

T.S.

TYP

U.L.

I.B.C.

U.N.O.

V.C.T.

VERT.

V.I.F.

W/

W/O

W.C

WD.

W.H.

W.O.

WT.

W.W.F.

W.W.M.

WDB.

SLD. SUR

SPEC.

SHT.

P.TRTD

PT.

PR. PROJ.

P.L.F.

PL

PANEL JOINT

PLASTIC LAMINATE

PLATE

FOOT

PLASTER

PLUMBING

PLYWOOD

POLISHED

PROJECT

PANEL

PAIR

FOOT

INCH POINT

PAINT(ED)

PARTITION

QUANTITY

**ROOF DRAIN** 

REFERENCE

REFLECTIVE

REQUIRED

RESILIENT

ROOM

ROUND

SANITARY

SOLID CORE

SCHEDULE

SECTION

SHEET

SIMILAR

SQUARE

STEEL

STORAGE

SUPPLIED

TREAD

STANDARD

STRUCTURAL

SUSPENDED

TELEPHONE

TEMPERED

TUBE STEEL

INTERNATIONAL

**BUILDING CODE** 

UNDERWRITERS

UNLESS NOTED

VERIFY IN FIELD

WATER CLOSET

WATER HEATER

WHERE OCCURS

WOOD BASE

LABORATORY

OTHERWISE

VERTICAL

WITHOUT

WOOD

WEIGHT

WIDE

WITH

TYPICAL

THICK

TOP OF

SAW JOINT

SOLID SURFACE

SPECIFICATION(S)

STAINLESS STEEL

REFRIGERATOR

REINFORCING,

REINFORCEMENT

REMOVE(D)(ABLE)

ROUGH OPENING

ROOF TOP UNIT

RISE(R)

RADIÙŚ

PLAN

QUARRY TILE

ARCHITECT

# 2948 SIDCO DR.

NASHVILLE, TN 37204

CONTACT: BRIANA HARPER CONTACT: MARK KOZEVSKI (PM) PHONE 615-244-8170 FAX: EMAIL: b.harper@mjmarch.com EMAIL: m.kozevski@mjmarch.com



# PE 2948 SIDCO DR.

CONTACT: PHONE: FAX: EMAIL:



ABBR	EVIAT	IONS

FIRE ALARM

F.A.

@ 4 B		F.D.	FLOOR DRAIN
ABV.	ABOVE	F.A.	FIRE EXTINGUISHER
A.C.I.	AMERICAN CONCRETE	F.A.C.	FIRE EXTINGUISHER
ACOUS	ACOUSTIC	FIN	CABINET FINISH(FD)
A.C.T.	ACOUSTICAL TILE	FIXT.	FIXTURE
A/C	AIR CONDITIONING	FL.	FLOOR(ING)
A.D.A.	DISABILITIES ACT	F.O.	FACE OF
ADDL.	ADDITIONAL	FR.	FRAME
ADJ.		F.R.C.	FIBERGLASS
AGGR.	AGGREGATE	F.R.T.	FIRE RETARDANT
AL.	ALUMINUM		TREATED
ALT. ANSI	ALTERNATE AMERICAN NATIONAL	FT., (') FTG	FEET/FOOT
A.N.O.I.	STANDARDS INSTITUTE	FURR.	FURRED/FURRING
APPROX.	APPROXIMATE	GA.	GAUGE
ARCH.	ARCHITECT(URAL)	GALV.	GALVANIZED
A.O.H.N.A.E.	OF HEATING,	GL.	GLASS
	REFRIGERATION & AIR	GND.	GROUND
ΔςτΜ	AMERICAN SOCIETY FOR	GR. GWB	GRADE
A.0.1.IVI.	TESTING & MATERIALS	Н.	HIGH
BLDG.	BUILDING	H.A.	HOSE BIBB
BLK.		H.B.	
BM.	BEAM	HDWD.	HARDWOOD
B.A.	BULLNOSE	HGT.	HEIGHT
B.B.	BOTTOM OF	H.M.	HOLLOW METAL
BOT. BRG	BEARING	HURIZ. HVAC	HORIZONTAL HEATING VENTILATING
B.T.U.	BRITISH THERMAL UNIT	IWAO	& AIR CONDITIONING
CAB.	CABINET	I.D.	INSIDE DIAMETER
C.B.	CATCH BASIN	IN., (")	
CENT.	CENTER	INFO. INST.	INSTALL(ED)
CERM.	CERAMIC	INSUL.	INSULATION, INSULATED
C.G.		INT.	
CIP	CAST IN PLACE	JAN. JT	JOINT
CIRC.	CIRCUIT	KIT.	KITCHEN
C.A.	CONTROL JOINT	L.	LONG
CLG.		LAM. LAV	
CLKG.	CAULKING	LKR.	LOCKER
CLR.	CLEAR	LL.	LANDLORD
CNIR.	COUNTER CLEAN OUT	L.L.H.	LONG LEG HORIZON I AL
COL.	COLUMN	L.V.L.	LAMINATED VENEER
CONC.	CONCRETE		LUMBER
CONN.	CONNECTION	MAX.	
CONST.	CONTINUOUS OR	MECH.	MECHANICAL
	CONTINUE	MEMB.	MEMBRANE
CONTR.	CONTRACTOR	MEZZ.	MEZZANINE
COORD.	CORRIDOR	MGR. MFR.	MANUFACTURER
C.T.	CERAMIC TILE	M.H.	MANHOLE
D.	DEEP	MIN.	MINIMUM
DBL. DEPT	DOUBLE DEPARTMENT	MIR. MISC	MIRROR MISCELLANEOUS
D.F.	DRINKING FOUNTAIN	M.O.	MASONRY OPENING
DIA., Ø	DIAMETER	MTD.	MOUNTED
DIAG.	DIAGONAL	MTL.	METAL MULLION
DIVI. DN.	DOWN	(N)	NEW
DR.	DOOR	Ň.	NORTH
D.S.		N.E.C.	
DIL. DWG	DRAWING(S)	N.E.M.A.	NATIONAL ELECTRICAL
DWR.	DRAWER		MANUFACTURERS
EA.			ASSOCIATION
E.G. EGB	EXTERIOR GRADE	N.F.P.A.	PROTECTION
EGD. EL.,ELEV.	ELEVATION		ASSOCIATION
ELÉC.		N.I.C.	NOT IN CONTRACT
ENGR.	ENGINEER FLECTRICAL PANEL	NO., # NOM	NOMINAI
E.P. EQ	EQUAL	N.T.S.	NOT TO SCALE
EQPT.	EQUIPMENT	0/	OVER
EVTR.		O/A	
E.W.C.	COOLER	0.0. 0.D.	OUTSIDE DIAMETER
(E)	EXISTING	OFF.	OFFICE
ÈXIST.	EXISTING	OP.H.	
EXP. EXPO	EXPOSED	OPNG.	OPENING
EXT.	EXTERIOR	O.S.B.	ORIENTED STRAND
			BOARD

icald Spiral Spiral Spiral			

# BUILDING SHELL BANFIELD PET HOSPITAL

# 103 MALL BLVD. SAVANNAH, GEORGIA 31406

MJM PROJECT # **23120** 

# **INDEX OF DRAWINGS**

SHEET	SHEET TITLE	REVISION
GENERAL		I
CS1.0	COVER SHEET	
CIVIL (UNDER SEF	PERATE COVER)	•
-	UNDER SEPARATE COVER	
ARCHITECTURAL	SITE	
AS1.0	ARCHITECTURAL SITE PLAN	
AS2.0	ARCHITECTURAL SITE DETAILS	
ARCHITECTURAL		· ·
A0.0	LIFE SAFETY PLAN	
A1.0	FLOOR PLAN & DETAILS	
A2.0	ROOF PLAN & DETAILS	
A3.0	EXTERIOR & AWNING ELEVATIONS	
A4.0	WALL SECTIONS & DETAILS	
A4.1	WALL SECTIONS	
A5.0	STOREFRONT ELEVATIONS, DETAILS, DOOR TYPES, SCHEDULE & HARDWARE	
STRUCTURAL		· · · ·
S0.0	GENERAL NOTES	
S1.0	FOUNDATION PLAN	
S2.0	ROOF FRAMING PLAN	
S3.0	FOUNDATION SECTIONS AND DETAILS	
S3.1	FOUNDATION SECTIONS AND DETAILS	
S4.0	FRAMING SECTIONS & DETAILS	
S4.1	FRAMING SECTIONS & DETAILS	
S5.0	FRAMING ELEVATIONS	
PLUMBING		
P1.0	PLUMBING PLAN	
ELECTRICAL		
E0.1	ELECTRICAL SITE PLAN	
E1.0	LIGHTING FLOOR PLAN	
E2.0	POWER/SYSTEMS FLOOR PLAN	
E3.0	ELECTRICAL DETAILS	
E3.1	ELECTRICAL DETAILS	
E4.0	ELECTRICAL PANELBOARDS AND RISER DIAGRAM	
E5.0	ELECTRICAL LEGENDS AND SCHEDULES	
WL1.0	WORK LETTER	

# REVISIONS

. DIMENSIONS AND FIELD INFLICTS, OMISSIONS, ETC. ICATION PRIOR TO		
CAL, COUNTY, STATE &		
CONTRACTOR SHALL BE REPRESENTATIVE BEFORE OF GYP BD. FINISH OR FACE Y ALL DIMENSIONS AND MENT LOCATIONS AND QUIPMENT IS TO BE PLACED, CATION OF ALL UTILITIES. ERMITS FOR FIRE ALARM,		
CAL SYSTEMS PRIOR TO		
ALLS ARE TO BE FURRED		
WALLS SHALL BE BACKED CTOR TO VERIFY WALL ISHER CABINETS, ETC.		
QUIPMENT AND/OR		
ME DETAILS FOR CLARITY. MAINTAIN RATING INDICATED UL LISTED (OR EQUIVALENT) THE PLANS. THE ION FROM THE OWNER'S		
WINDOWS THE WALL TYPE RUCTURE AS APPLICABLE.		
4" FROM THE ADJACENT		
OOD CONDITION TO NOTE & ANS SHALL BE RETURNED TO		
RE INSTALLATION.		



REVISION









## CODE ANALYSIS

<u>MUNICIPALITY</u> CITY OF SAVANNAH, GA

DEVELOPMENT OGLETHORPE MALL, OUT PARCEL

<u>ADDRESS</u> 103 MALL BLVD. SAVANNAH, GEORGIA 31406

- I. APPLICABLE BUILDING CODES: A. 2018 INTERNATIONAL BUILDING CODE B. 2018 INTERNATIONAL MECHANICAL CODE
- C. 2018 INTERNATIONAL PLUMBING CODE D. 2020 NATIONAL ELECTRIC CODE
- E. 2018 INTERNATIONAL FUEL GAS CODE F. 2015 INTERNATIONAL ENERGY CONSERVATION CODE F. 2018 INTERNATIONAL FIRE CODE
- G. 2018 LIFE SAFETY CODE, NFPA 101 H. 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN
- II. OCCUPANCY GROUP: (IBC 304)

A. GROUP B (BUSINESS)

III. CONSTRUCTION TYPE: (IBC - 601) A. TYPE II-B

IV. FIRE SUPPRESSION SYSTEMS & SEPARATION: A. NON-SPRINKLER BUILDING B. PROVIDE PORTABLE FIRE EXTINGUISHERS PER IFC, IN LOCATIONS APPROVED BY THE FIRE MARSHALL.

V. BUILDING HEIGHT, STORY AND AREA:

- A. ALLOWABLE HEIGHT (IBC TABLE 504.3): 55'-0"
- a. ACTUAL HEIGHT: 24'-0" @ ENTRY B. ALLOWABLE STORIES (IBC TABLE 504.4): 3 STORIES a. ACTUAL STORIES: 1 STORY C. ALLOWABLE AREA (IBC - TABLE 506.2): 23,000 SF
- a. ACTUAL AREA: 5,144 SF

VI. OCCUPANT LOAD (IBC TABLE 1004.5)

- WITH THE FOLLOWING EQUATIONS.
- A. BUSINESS (B): 1 PERSON / 150 SF GROSS AREA
- 1. BUSINESS (B): a. 5,144 SF / 150 SF NET = <u>35 OCCUPANTS</u>
- VII. EXIT CAPACITY
  - MINIMUM NUMBER OF EXITS: (IBC 1006.3.3)
     OCCUPANT LOAD > 49 < 500 OCCUPANTS = 2 EXITS, MINIMUM</li>
     OCCUPANT LOAD > 500 < 1000 OCCUPANTS = 3 EXITS, MINIMUM</li>
     DISTRIBUTION OF EGRESS CAPACITY (IBC 1005.5) 5. MINIMUM EXIT WIDTH REQUIRED (IBC 1005.3.2)
  - <u>BUSINESS (B): 35 OCCUPANTS</u>

     a. (2) EXITS REQUIRED, (2) EXITS PROVIDED
     b. 35 OCCUPANTS x 0.2" = 7" REQUIRED, 102" PROVIDED

     c. LOSS OF EXIT: 1. 50% x 7" = 3.5" REQUIRED, 34" PROVIDED

VIII. EXIT AND EXIT ACCESS DOORWAYS: A. SEPARATION OF EXITS: AT LEAST 2 EXITS SHALL BE PLACED A DISTANCE APART EQUAL TO NOT LESS THAN 1/2 THE LENGTH OF THE OVERALL DIAGONAL DIMENSION OF THE AREA BEING SERVED (IBC

1007.1.1) B. MAXIMUM TRAVEL DISTANCE: 200 FEET (IBC 1017.2 TABLE) IX. OTHER LIFE SAFETY CONSIDERATIONS

A. MINIMUM CORRIDOR WIDTH: 44" (IBC TABLE 1020.2) B. DEAD END CORRIDOR: 20 FEET (IBC 1020.5) C. INTERIOR FINISHES (IBC TABLE 803.13) a. ROOMS/ENCLOSED SPACES: CLASS 'C'
b. FLOOR FINISHES - CLASS II - FLOOR FINISH MATERIALS MUST COMPLY WITH DOC FF-1 "PILL TEST" (IBC 804.4.1)

X. MINIMUM REQUIRED PLUMBING FIXTURES: A. SEE IN-FILL DRAWINGS BY TENANT, UNDER SEPARATE COVER, FOR INTERIOR LAYOUT.





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- \_\_\_\_





2 A3.0

OPP





1 FRONT ELEVATION SCALE: 3/16" = 1'-0"

€ + T.O. MASONRY 20' - 8"

↓ J.B.E. (FRONT) 15' - 5"

+ T.O. STOREFRONT 10' - 0"

PRE-FINISHED MET

AWNING - SEE MATERIAL LEGEND FOR ADD'L INFORMATION, TYP.

BRICK, HERRINGBONE PATTERN - REVEAL-

(A)(A.5)

CPG-1

EIFS-1

BRK-2







4		3		2 1
2 A4.1	36'-0'		<b>/</b>	EQ
+	3'-0"			
EIFS-1	1'-4" 4'-0" 1'-4			1'-4" 4'-0" 1'-4"
	PT-1			PT-1
				AWN-1         A3         11           A3.0         A3.0
12:-0" A.F.I				





10 AWNING 3 SCALE: 1/2" = 1'-0"

	EXTERIOR FINISH SCHEDULE
	(SEE SPEC FOR MANUFACTURER & MATERIALS)
MARK	MATERIAL
AWN-1	MAPES CANOPY - SUPERLUMIDECK FLAT SOFFIT - BLACK
BRK-1	ACME BRICK, MODULAR, COLOR: "EBONY"
BRK-2	ACME BRICK, MODULAR, COLOR: "CAPE COD"
BRK-3	ACME BRICK, MODULAR, COLOR: "EBONY", HERRINGBONE PATTERN,
CPG-1	PREFINISHED METAL COPING; PAC-CLAD (OR EQUIVALENT) BLACK AL
EIFS-1	DRYVIT, OUTSULATION PLUS MD, COLOR: #132 "MOUNTAIN FOG", SAN TEXTURE
GLAZ-1	GLAZING - 1" CLEAR INSULATED, VIRACON; VUE 1-50 (LOW-E)
PT-1	PAINT TO MATCH EIFS, COLOR: #132 "MOUNTAIN FOG"
PT-2	PAINT TO MATCH ACME BRICK, COLOR: "EBONY"
PT-3	PAINT, MATTE BLACK
S/F-1	KAWNEER 451T ALUMINUM STOREFRONT SYSTEM: BLACK



![](_page_7_Figure_0.jpeg)

![](_page_7_Figure_3.jpeg)

# 2 SECTION THROUGH STOREFRONT SCALE: 3/4" = 1'-0"

# 3 SECTION THROUGH METAL FRAMED WALL SCALE: 3/4" = 1'-0"

![](_page_7_Picture_9.jpeg)

![](_page_8_Figure_0.jpeg)

## 3 SECTION DETAIL SCALE: 1 1/2" = 1'-0"

![](_page_8_Figure_2.jpeg)

![](_page_8_Picture_6.jpeg)

![](_page_9_Figure_0.jpeg)

# 6 DOOR TYPES SCALE: 1/4" = 1'-0"

# 1 STOREFRONT A SCALE: 3/8" = 1'-0"

DOOR SCHEDULE (SEE ELEVATIONS FOR FINISHES, TYP.)							
#	LOCATION	SIZE	TYPE	DOOR MAT'L	FRAME MAT'L	HARDWARE	COMMENTS
101	ENTRY / EXIT	(2) 3'-0" x 7'-0"	А	ALUMINUM & GLASS	ALUMINUM	1	
102	EGRESS EXIT	3'-0" x 7'-0"	В	HOLLOW METAL	HOLLOW METAL	2	

HARDWARE SCHEDULE				
SET #1 - STOP	REFRONT ENTRY DOORS			
1 EACH	BEST	1E -74 x RP3 x C181 CYLINDER HOUSING W/ BLUE, GREEN OR BLACK SFIC TEMP CONTSTURCTION CORE W CONTROL & CHANGE KEYS		
1 EACH	DORMA	CLOSER 8616 AF86P FC SNB1 689		
1 EACH 1 EACH	KAWNEER OR EQ KAWNEER OR EQ	HINGE SET SEALAIR WEATHERING SYSTEM AND EPDM BLADE SURFACE ATTACHED SWEEP STRIP		
1 EACH	KAWNEER OR EQ	4" EXTRUDED - MILL FINISH ALUMINUM THRESHOLD		
1 EACH	KAWNEER OR EQ	ADAMS RITE STANDARD LATCH STRIKE		
1 EACH	KAWNEER OR EQ	CP11 DOOR PUSH & CO-9 PULL #14		
1 EACH	GC PROVIDED	SIGN STATING "THIS DOOR TO REMAIN UNLOCKED WHEN BUILDING IS OCCUPIED"		
<u>SET #2 - REAI</u>	R EGRESS DOOR			
1 EACH 1 EACH	DETEX BEST	V40 x EB x LD x 99 x 628 x 36" ALARM EXIT DEVICE 1E-74 x RP3 x C4 CYLINDER HOUSING w/ BLUE, GREEN, OR BLACK SFIC TEMP CONSTRUCTION CORE w/ CONTROL & CHANGE KEYS		
1 EACH	DORMA	CLOSER 8616 x AF86P x FC x SNB1 x 689		
1 EACH	DON JO			
	REESE	36" MILL ALUMINUM SADDLE THRESHOLD		
1 EACH	REESE	815C - DOOR JAMB WEATHERSTRIP POLYPRENE INSERT		
1 EACH	REESE	323C - DOOR SWEEP WEATHERSTRIP NEOPRENE INSERT		

STOREFRONT NOTES

. ALUMINUM STOREFRONT MEMBERS ARE FROM KAWNEER TRI-FAB 451T VG SERIES, NARROW STILE, WITH BLACK ANODIZED ALUMINUM FINISH.

ALL GLASS, INCLUDED GLASS IN DOORS, TO BE 1" INSULATED GLAZING, CLEAR, WITH 0.23 MAX SOLAR HEAT GAIN COEFFICIENT.

LOW-E COATING MAY BE SUBMITTED TO MEET SHGG REQUIREMENT.

3. ALL STOREFRONT ENTRANCE DOORS TO HAVE 10" BOTTOM STILE MINIMUM.

4. 1/2" HORIZONTAL SHIM AT STOREFRONT HEADER(S) AND 1/4" SHIM AT STOREFRONT JAMB(S)

5. ALL TEMPERED GLAZING INDICATED WITH "T"

![](_page_9_Figure_13.jpeg)

![](_page_9_Figure_14.jpeg)

![](_page_9_Figure_15.jpeg)

![](_page_9_Figure_16.jpeg)

![](_page_9_Figure_17.jpeg)

![](_page_9_Figure_18.jpeg)

![](_page_9_Figure_20.jpeg)

![](_page_9_Figure_21.jpeg)

![](_page_9_Figure_22.jpeg)

![](_page_9_Figure_23.jpeg)

![](_page_9_Figure_24.jpeg)

3 STOREFRONT C SCALE: 3/8" = 1'-0"

![](_page_9_Figure_25.jpeg)

4 STOREFRONT D SCALE: 3/8" = 1'-0"

![](_page_9_Figure_27.jpeg)

![](_page_9_Figure_28.jpeg)

![](_page_9_Figure_29.jpeg)

![](_page_9_Figure_31.jpeg)

-ALUMINUM STOREFRONT

SYSTEM

![](_page_9_Figure_32.jpeg)

#### STOREFRONT HORIZONTAL MULLION DETAIL

STOREFRONT SILL DETAIL

![](_page_9_Figure_35.jpeg)

STOREFRONT JAMB DETAIL

![](_page_9_Figure_37.jpeg)

![](_page_9_Figure_38.jpeg)

![](_page_9_Figure_39.jpeg)

STOREFRONT DOOR HEAD DETAIL

SEE STOREFRONT ELEVATIONS

![](_page_9_Figure_41.jpeg)

![](_page_9_Figure_43.jpeg)

prior to the pla	l Loading for Mea n, Size or Numbe acement of equip	hanical Units are based r of Pieces of Equipmen ment.	d on the Weight of the nt shall be reported to	Equipment as indic the Architect for ve	cated on the Structural Drawings. Any cl prification of the adequacy of supporting
Roof Dead Lo - Roofing - Insulation - Metal Deck - Ceiling	ads:	2.0 psf 2.0 psf 2.0 psf 3.0 psf			
- Framing - M / E / P / Fl	P	5.0 psi 6.0 psf	loof Live Loode (Lr) he	and on the followi	ng Tributan Joadad araaa
- Lr = 20 $R_1$ F Where:	$R_2 \text{ psf}$ $R_1 = 1$	esignea for Minimum H For J	At $\leq$ 200 S.F.	ised on the tollowi	ng Tributary loaded areas:
And Where:	$R_1 = 1.2 - 0$ $R_1 = 0.6$ $R_2 = 1$	.001At For 2 For 2	200 < At < 600 S.F. At $\ge 600 S.F.$		
Service Desigi - Floors:	n Live Loads are 100 ps	as follows:			
- Root: The Roof Fran	20 pst ning System has	been designed with the	Assumption that a Dr	ainage System ade	equate to prevent ponding will be provide
- Pg = 0 psf The Structure	and its Compone	ficients shall be applied nts are designed for W	i to the Base Load as l ind Loads as defined t	Required by the Bu	ilding Code, where: le, where:
<ul> <li>Basic Wind S</li> <li>Wind Import</li> <li>Risk Categor</li> <li>Wind Exposition</li> <li>Internal Pressibility</li> <li>Velocity Pressibility</li> </ul>	Speed (3 Second ance Factor: ry: ure: sure Coefficient: ssure:	Gust): 135 m I = 1. II C + 0.18 $q_h = 3$	ph (Ultimate) 00 5/-0.18 33.7 psf (Ultimate)		
- Design Wind	l Pressure Compo	onents and Cladding: (L	JItimate)	3	
		/			
			(2)		3
	3			.6h .6h	2h 5
I	.6	16h			`   h
h	(5)		32h	4	.6h
	6h	4	)(5)		
		.6h	.6H		
	70115				
LOCATION		(SF) 10	EA DESIGN WIT (P +16.5	SF) - <b>63.5</b>	
	1	20 50	+16.0 +16.0	-59.5 -54.0	
		100 10	+16.0 +16.5	-49.5 -36.5	
	1'	20 50	+16.0 +16.0	-36.5 -36.5	
ROOF		100 10 20	+36.5	-83.5 -78.5	
		50 100	+33.0 +31.0	-71.0 -66.0	
	3	10 20 50	+36.5 +35.0 +33.0	-83.5 -78.5 -71.0	
		100 10	+31.0 +36.5	-66.0 -39.5	
	4	20 50	+35.0 +33.0	-38.0 -36.0	
WALLS		500 10	+27.5	-30.5 -48.5	
	5	20 50	+35.0 +33.0	-45.5 -41.0	
		100 500	+31.5 +27.5	-38.0 -30.5	
= 15 ft.	Pressures - Plus	and Minus signs signify	v pressure acting		
Toward and A Linear Interpo	Away from Exterio lation between va	or Surface. Iues of Tributary Area i	s permissible.		
The Structure - Seismic Imp - Risk Categor	is designed using ortance factor ry	g the following Earthqua 1.0 II	ake Load Data:		
<ul> <li>Site Class:</li> <li>Seismic Des</li> <li>Mapped Spe</li> </ul>	ign Category: ctral Response A	D C ccelerations:			
$S_s = S_1 = S_1$	0.295g 0.109g tral Response Co 0.308g 0.173g	efficients:			
$S_{DS} = S_{D1} =$	IC-Force-Resistin ponse Coeffeffici lodification Facto ic-Force-Resistin ponse Coefficien	g System: Interm ents, Cs: 0.088 r, R: 3.5 g System: Structu t, Cs: 0.103	ediate Reinforced Mas ural Steel Systems not	onry Shear Walls Specifically Desig	ned for Seismic Resistance
$S_{DS} = S_{D1} = S$	councation Facto cedure: Engineer will Ob	, n: 3 Equiva serve the Construction	lent Lateral Force Prod only as requested bv t	cedure he Architect as Sn	ecified in the Architect-Engineer Agreem
<ul> <li>Besign spect</li> <li>S<sub>DS</sub> =</li> <li>S<sub>D1</sub> =</li> <li>Basic Seismic Res</li> <li>Response M</li> <li>Basic Seismic Res</li> <li>Response M</li> <li>Seismic Res</li> <li>Response M</li> <li>Analysis Pro</li> <li>The Structural</li> </ul>	t. Field Observati	on required by the Projetitect.	ect Specifications or th	ne Building Code m	lust be performed by a Qualified Field
<ul> <li>Besign opec</li> <li>S<sub>DS</sub> =</li> <li>S<sub>D1</sub> =</li> <li>Basic Seismic Res</li> <li>Response M</li> <li>Basic Seismic Res</li> <li>Response M</li> <li>Analysis Pro</li> <li>The Structural for the Project</li> <li>Observer Appli</li> </ul>	roved by the Arch	as follows: applied at any point and on. to be applied Simultane	d in any direction. cously, but each shall l	be applied to produ	ice Maximum Stresses in each of the
<ul> <li>Besign Spect</li> <li>S<sub>DS</sub> = S<sub>D1</sub> =</li> <li>Basic Seismic Res</li> <li>Response M</li> <li>Basic Seismic Res</li> <li>Response M</li> <li>Analysis Pro</li> <li>The Structural for the Project</li> <li>Observer Appl</li> <li>Design Loads</li> <li>A.) 200 lb Co</li> <li>B.) 50 plf app</li> <li>Thes</li> </ul>	for Handrails are ncentrated Load blied in any direct se Loads are Not ctive Handrail Con	nponents.			d at the Top of the Guardrail.
$\begin{split} & S_{DS} = \\ & S_{D1} = \\ &$	roved by the Arch for Handrails are incentrated Load lied in any direct se Loads are Not ctive Handrail Con for Guardrails are incentrated Load lied Horizontally incentrated Horizon s subject to Vehic	nponents. e as follows: applied at any point and and a Simultaneous Los ontal Load applied on a ular Impact shall be De	d in any direction, at th ad of 100 plf applied V one (1) foot square a signed to resist a 10 k	ie Top of Guardrail 'ertically Downwar ea at any point in t ip load applied (18	the system. ) inches Above Floor Level.
$\begin{split} & S_{DS} = \\ & S_{D1} = \\ &$	roved by the Arch for Handrails are oncentrated Load blied in any direct se Loads are Not ctive Handrail Con for Guardrails are incentrated Load blied Horizontally incentrated Horizons subject to Vehic or is Responsible of Roof Systems	nponents. e as follows: applied at any point and and a Simultaneous Los ontal Load applied on a ular Impact shall be De to Coordinate the Cons and Wall Systems whe	d in any direction, at th ad of 100 plf applied V one (1) foot square a signed to resist a 10 k truction and Erection o n considering Pitch an	le Top of Guardrail ertically Downward ea at any point in t ip load applied (18 of Masonry Walls, \$ d Camber of Steel	the system. 3) inches Above Floor Level. 3teel Joists and Steel Decking to ensure Joists.

Submittals shall not be reviewed for approval unless checked by the fabr
of the contractor's submittal review stamp. Submit one high quality PDF of
Only the marked-up PDF will be returned. Reproduction of contract docume specifications and general notes for additional requirements.

2.2 The contractor shall provide 10 working days in his schedule for the Structural Engineer's review of each submittal.

21

- 2.3 It is the Contractor's responsibility to certify that he has not made changes to specified materials on submittals.
- loads are not put on the structural members prior to the time that all framing members and their connections are in place.
- 2.5 Contractor shall verify and bear the expense of verifying all existing conditions, horizontal and vertical dimensions and coordination of Architectural and Structural drawings. Immediately notify the Architect of any discrepancies. For dimensions not shown on Structural Drawings, see the Architectural Drawings.
- 2.6 Dimensions shown indicate spans for which members are Structurally Adequate. The contractor shall COORDINATE AND CONFIRM ALL DIMENSIONS. Contractor shall include in his bid the Costs of Dimensional Coordination and Confirmation. These Documents constitute a performance specification. Coordinate all openings, support systems, duct work locations, mechanical elements, sprinklers, etc., with Structural elements. Consult the Engineer/Architect and obtain Approval PRIOR TO making changes to Structural Systems.
- 2.7 These Drawings and Specifications are performance specifications. Provide all labor, materials, equipment and services required to execute and complete all items of work as shown or indicated on the drawings and as specified in this section, including incidental items to effect a finished and complete job, even though such items are not shown or particularly mentioned on the Contract Documents.
- 2.8 The Contractor shall compare the Structural Sections with the Architectural Sections and report any discrepancies to the Architect PRIOR TO fabricating or installing Structural Members.
- 2.9 See Architectural Drawings or Specifications for any fireproofing requirements of structural members.
- 2.10 The design, adequacy and safety of erection bracing, shoring, temporary supports, etc., is the Sole Responsibility of the Contractor.
- 2.11 Erection and bracing of steel structures shall comply with the limits and recommendations of the "Code of Standard Practice", Latest edition of the American Institute of Steel Construction. Provide bracing wherever necessary to take care of all loads to which the structure may be subjected, including equipment and the operation of the same.
- 2.12 The details shown on the Structural Drawings designated as "Typical Details" / "TYP" apply generally to the drawings in all areas where conditions are similar to those described in the details.
- 2.13 Notes on the Structural General Notes sheet are applicable unless specifically noted otherwise on the drawings.
- 2.14 Principal openings are shown on the drawings. See Architectural, Mechanical and Electrical drawings for sleeves, curbs, inserts and other openings not shown. The contractor shall provide for all openings, whether shown on the Structural Drawings or not. Size and location of all openings shall be verified with the mechanical and electrical contractors. Any deviation from openings shown on the Structural Drawings shall be brought to the Engineer's attention for Approval PRIOR TO fabrication or installation of Structural Members.
- 2.15 Investigate Actual locations of underground lines and utilities BEFORE excavating and advise the Architect of all interferences.

#### 3.0 FOUNDATION

3.1 The foundation design is based on the recommendations contained in the Geotechnical Engineering report by: Terracon Company: Project Number: ES215212 Dated: September 15, 2022

Contact:	Guoming Lin, P.E.
Phone Number:	(912) 629-4000
Assumed safe bearing	capacities for foundations listed below sh

3.2 A Engineer, approved by The Architect. 2500 P.S.F Continuous Footings

### Isolated Spread Footings 2500 P.S.F.

- 3.3 All Exterior Foundations shall bear at a depth of at least 18" below exterior grade (reference: Geotech Report). 3.4 Foundations are designed to bear on firm Remolded & Recompacted earth or approved controlled fill. Where unacceptable material occurs,
- boundary of building or a distance equal to the footing bearing depth, whichever is greater.
- 3.5 Proof-Roll the areas under the structure with a minimum of 4 passes of a Sheepfoot Roller. Repair soft areas per specifications.
- 3.6 Where compacted earth fill is shown on the Contract Documents, it shall be placed in strict accordance with the Contract Specifications. Fill materials shall be placed in 6" lifts and compacted with 30,000 lb vibratory compactor to 95% of ASTM D1557.
- 3.7 No footing shall bear directly on rock. Where rock is closer than (2) feet from the bottom of the footing, it shall be undercut to a minimum of (2) feet below the footings and replaced by Engineered Fill. Conform to Project Specifications. When Foundation Bearing Stratum transitions from soil to rock, notify the Architect for special transition instructions.
- 3.8 Foundation or Retaining Walls shall be backfilled with stone conforming to ASTM D448, Size 6.
- 3.9 Foundation Walls not designed as Cantilevered from the footing, shall not be backfilled until shored or permanently supported at top of wall.
- 3.10 Lateral Design soil pressure for Basement Walls is 50 pcf, with an additional surcharge as required.
- 3.11 Lateral Design soil pressure for Cantilevered Retaining Walls is 35 pcf, with an additional surcharge as required.
- 3.12 Provide a drain system for Foundation and Retaining Walls that are a part of the Structure.
- material.

### Concrete to protect the bearing soils.

- 4.0 REINFORCEMENT
- 4.1 Reinforcing Bars shall conform to ASTM A615, Grade 60. Welded Wire Fabric shall conform to ASTM A185.
- Practice" and ACI 318.
- 4.3 Reinforcing shall Not be Heated or Welded.

4.5

4.4 Reinforcing Placement shall be Approved by the Architect or His/Her Authorized Representative before Concrete is Placed.

Provide the following Concret	e Cover for Reinforcement	(Exposed Members are M	embers Exposed to Weath	er or Earth in Service
MARK	NOT EXPOSED	EXPOSED	CAST AGAINST EARTH	
BEAMS	1-1/2"	1-1/2"		
FOOTINGS		2"	3"	
WALLS - #5 OR SMALLER	3/4"	1 1/2"		
WALLS - #6 OR LARGER	3/4"	2"		

#### 4.6 Reinforcement for Slabs-On-Grade shall be as follows: - 4 inch Slab-On-Grade 6 x 6 - W2.9 x W2.9

- 4.7 Masonry Reinforcement shall be placed in the Center of the Wall, Unless Specifically Detailed Otherwise in these Drawings.
- 4.8 Bars designated Continuous or Bars required to be Spliced for Placement, shall be Lapped as follows: - Concrete Reinforcement: Class "B" Tension Lap - Masonry Reinforcement:

	onnont.										
	MASONRY LAP SPLICE LENGTH										
BAR SIZE	#4	#5	#6	#7	#8						
12" CMU	36"	45"	54"	63"	72"						

#### - Lap Splices in Bottom Bars shall occur at a Support. - Lap Splices in Top Steel shall occur at Mid Span.

- feet Beyond opening. Provide Two (2) #4 Diagonal Bars 4'-0" long in each face All Re-Entrant Corners of Slabs and Walls.
- 4.10 Welded Wire Fabric (WWF) shall lap Two (2) Full Meshes and be Securely Wired at Each Side and End.
- 4.11 Welded Wire Fabric shall be Fabricated from Sheets. Rolls are Not Allowed.

# STRUCTURAL GENERAL NOTES

### 2.0 ADDITIONAL CONTRACTOR RESPONSIBILITIES AND DEFINITIONS

#### ricator and approved by the contractor as indicated by inclusion of the submittal containing the contractor's review stamp for review. nents for shop drawings will not be permitted or accepted. See

2.4 The contractor shall insure that all construction loads do not exceed the design live loads indicated on the structural drawings and that these

shall be confirmed in the field by a Registered Geotechnical

# Excavate and Replace with Engineered Fill. Fill material shall extend 10'-0" (Coordinate with Geotech Recommendations) beyond exterior

3.13 Provide 2" diameter Weep Holes at 6'-0" o.c. Maximum in Exterior Retaining Walls. Provide Filter Fabric over the Weep Hole to retain the backfill

3.14 Where foundation excavations must remain open and are subject to rain, undercut the excavation and install a (3) inch thick Mud Mat of 2500 psi

4.2 Detailing of Concrete Reinforcement and Accessories shall be in accordance with ACI "Detailing Manual", SP-66, the CRSI "Manual of Standard

4.9 Openings in Concrete Slabs and Walls shall be Reinforced on each side of the Opening with Two (2) #6 Bars in each face. Bars shall extend 2

4.12 Provide Corner Bars at All Wall and Bond Beam Corners. Bars shall be the same size and spacing as Horizontal Reinforcing in each direction 4.13 Intersecting Walls, if Poured separately, shall be Keyed and Doweled together with Bars of same size and spacing as Horizontal Reinforcement. 5.0 CONCRETE

5.1 All Concrete Workmanship and Materials shall conform to ACI 318 and All Local Codes, Laws and Ordinances.

5.2	The following Table shall app	ly to All Concrete Mix	Designs to be used f	or this Project:	
	TYPE OF CONSTRUCTION	MIN. COMP. STRENGTH AT 28 DAYS (psi)	TOTAL AIR	MAXIMUM W/C RATIO	SLUMP (in.)
	FOOTINGS	3000	NOT REQ'D.	0.55	4 - 6
	INTERIOR SLAB-ON-GRADE	4000	NOT ENTRAINED	0.45	3 - 5
	WALLS, BEAMS & LINTELS	4000	5 - 7%	0.45	4 - 6
	CONCRETE EXPOSED TO WEATHER	4000	5 - 7%	0.45	4 - 6
	ALL OTHER CONCRETE	3000	AS REQ'D.	0.55	4 - 6

#### 5.3 Grout used in under column base plates shall be cement based, non-shrink, non-metallic grout. the grout shall exhibit no shrinkage in accordance with ASTM C827, "Test Method for Early Volume Change of Cementitious Mixtures" and shall have a minimum 28-day compressive strength of 5000 psi when tested in accordance with ASTM C109, "Test Method for Compressive Strength of Hydraulic Cement Mortars"

5.4 Provide entrained air as per ACI 318.

- 5.5 Where excess water is added to the concrete so that its serviceability is degraded, the attainment of required strength shall not release the contractor from providing such modifications as may be required by the architect to provide a serviceable member.
- 5.6 All concrete shall be vibrated.
- 5.7 No repair or rubbing of concrete surfaces shall be made prior to inspection by and with approval of the architect (owner or his authorized representative).
- 5.8 Sawn control joint in slab-on-grade shall be cut in accordance with ACI 302.1R. Joints shall be cut within 12 hours of slab placement. The length-to-width ratios of slab areas shall not exceed 1.25. The maximum area of slab within joints shall be 225 s.f. 5.9 Provide concrete walls with dovetail anchors and anchor slots where masonry walls abut concrete surface.
- 5.10 Control joints in all foundation and retaining walls shall be placed not more than 20 feet apart and shall have 3/4 inch v-chamfers on each side. Construction joints shall be placed not more than 100 feet apart and shall fall at control joint locations. Construction joints shall be keyed. Discontinue wall reinforcing at control joints. use 1/2" diameter x 3'-0" smooth bars at 12" c/c centered in the wall. Expansion joints shall be spaced at 150 feet. See details on the drawings.

5.11 All pipe penetrations through slabs shall be sleeved in conformance with ACI 318, Section 6.3.

5.12 Refer to Civil Drawings for site concrete.

5.13 Refer to Drawings of other Disciplines and Vendor Drawings for embedded items and recesses not shown on Structural Drawings.

6.0 STRUCTURAL STEEL AND METAL FORM / DECK

- 6.1 All structural steel work shall conform to the code referenced edition of the "Specifications for the Design, Fabrication and Erection of Structural Steel for Buildings" of the AISC.
- 6.2 All structural steel, except for plates, angles, channels, pipe and tubing, shall conform to ASTM A992, Grade 50 (fy=50 ksi).
- 6.3 Structural steel plates, angles and channels shall conform to ASTM A36.
- 6.4 Steel pipe shall conform to ASTM A53, Grade B.
- 6.5 Square and rectangular structural tubing shall conform to ASTM A500, Grade C (fy=50 ksi).
- 6.6 Anchor bolts shall be ASTM F1554 headed bolts.
- 6.7 All bolted connections shall be made with 3/4 inch diameter ASTM A325 bolts in bearing type connections, unless noted otherwise.
- 6.8 The structural steel fabricator shall be responsible for the design of all connections not detailed on the drawings. The fabricator shall provid certification by a registered professional engineer in the project state that the connection design is in accordance with all applicable codes a specifications
- 6.10 Fabrication and erection shall be done by steel fabricator and erector who have been certified by the aisc quality certification program, category CnBg, or have an independent testing laboratory approved by the architect certify that the fabrication procedures used in this work are in accordance with AISC specifications and these requirements.
- 6.11 Welding shall be done by certified welders using ASTM E70 series electrodes for shop welding A36 steel, and E70 series low hydrogen electrodes for all welding of high strength steels and for all field welding.
- 6.12 Welds shown on structural drawings are minimum design requirements. The fabricator's shop drawings shall reflect welds in accordance AWS requirements.
- 6.13 A minimum representative sampling of 10% of all fillet welds by each welder shall be visually inspected.
- 6.14 A representative sampling of full penetration groove welds shall be inspected by ultrasonic testing. Twenty-five percent of the welds by eac welder shall be inspected. See specifications for additional requirements.
- 6.15 When welds are not called-out on drawings, they are minimum size continuous fillet welds in accordance with AWS D1.1. Fillet welds not specified as to length shall be continuous.
- 6.16 All groove welds shall be full penetration.
- 6.17 Provide fillet welds at all contact joints between steel members sufficient to develop the allowable tensile strength of the smaller member at
- 6.18 Metal form deck and roof deck shall be continuous over three (3) spans and installed in accordance with the manufacturer's recommendations. See specifications for additional requirements.
- 6.19 Metal deck is designed for uniform loads on the spans shown. No concentrated point or line loads shall be induced on metal deck.
- 6.20 The contractor is responsible for the provision of a method to transfer gravity and lateral loads from non-structural items occurring between structural framing to adjacent framing members. If structural framing consists of joists or joist girders, special provisions apply. See steel joist and joist girder notes for further information.
- 6.21 Coordinate all openings and dimensions with Architectural and Mechanical drawings. Field confirm all dimensions.
- 6.22 Protect all steel below grade by encasing in concrete or painting with bitumastic paint.
- 6.23 Galvanizing of steel members shall conform to ASTM A123.
- 6.24 Headed studs used in fabrication of embedded assemblies in concrete shall conform to ASTM A108 and shall be welded to those assemblie using a full fusion process.
- 6.25 In all cases, support of metal deck around column closure, screed plates around the openings and edges of slabs shall be provided by the contractor
- 6.26 Hardened washers shall be installed over short slotted or oversize holes occurring in the outer ply of a connection. A plate washer of at least 5/16 inch thickness with standard holes shall be installed over long slotted holes occurring in an outer ply of a connection.
- 6.27 Base plate connections are not designed to provide stability of columns during erection. Columns shall be temporarily braced by the erector

6.29 Column anchor bolt holes shall be oversized in accordance with AISC "Manual of Steel Construction, Volume II, Connections".

7.0 MASONRY ACI 530 Section 1.5. supported from the Structure. - Sinale Wythe:

		- Cavity Walls: Unreinforced - Std. Reinforced - 8" w 10"/
	7.14	All Reinforced Hollow Unit M webs forming such cells to t filled with mortar for a distan provided by lapping units in s
	7.15	Vertical Cells to be filled shal
	7.16	Cleanout openings shall be p feet in height. Any overhang shall be sealed after Inspecti
	7.17	Vertical Reinforcement shall (10) feet.
	7.18	All Cells containing Reinforce be consolidated at time of po
	7.19	When Total Grout Pour excee Required.
	7.20	When the Grouting is stoppe less than (1) inch or more th
	7.21	The Architect or Architect's r
	7.22	Provide adequate bracing for
	7.23	Where Lintels bear on Mason
	7.24	Steel Beams which bear on I Reinforced with 2-#7 Vertica
	8.0	STRUCTURAL COMP
	8.1	The Delegated Engineer shal undertakes the design of Stru Affixing His/Her Seal to Struc Responsibility for the Design
de and	8.2	A Structural Component is a
	8.3	A Structural System is a port
K	8.4	Drawings introducing Engine their Assembly into Structura
	8.5	Manual Calculations and Cor
with	8.6	The design of Pre-Engineerer sole responsibility of the Sup Engineer of Record (EOR) sh members shown on the Stru Documents. Such review by The Contractor shall be resp
ch	8.7	See applicable sections of ge engineer.
	8.8	The contract documents (dra code of practice for aisc, pci
t the	8.9	Design of components deleg joists.
	8.10	<ol> <li>Steel Joists</li> <li>Steel joists [and joist gird code(s).</li> <li>Weld ends of each k- or v</li> <li>Weld ends of each LH- or</li> </ol>
1		<ol> <li>The contractor is response ensure compatibility</li> <li>No attachment shall be may joists shall not be may horizontal force from</li> </ol>
		<ol> <li>Contractor shall verify loc and concentrated loa loads. Provide top c</li> <li>Extend bottom chords of j</li> <li>Steel joists and joist girde</li> </ol>
ies		<ol> <li>9. All elements which attach</li> <li>10. Design all joists, joist gir</li> <li>11. No loads shall be suppor</li> <li>12. Provide joist reinforcement</li> </ol>
st		<ul><li>13. The joist manufacturer sl uplift loading condition</li><li>14. Hanger supports attache or drilling holes in the</li></ul>
r		torsion in the joists.
	8.11	"Specialty Items" - Steel Stai 1 Structural Steel Stair Ha

6.28 Steel encased in concrete shall not be painted.

prior to release of the column from the hoisting equipment.

7.1 All Masonry Construction shall comply with ACI 530, "Building Code Requirements for Concrete Masonry Structures". 7.2 Masonry for this Structure has designed in Accordance with the Referenced Code as Inspected Masonry. The Owner shall employ an

Agent in Compliance with Code Criteria to insure that the Code requirements are carried out. Inspection and Testing shall conform to

7.3 Minimum Compressive Strength of Concrete Masonry at 28 days shall be F'm = 2,000 psi. All Load Bearing block masonry shall have a minimum Net Area unit strength of 2,000 psi at 28 days. 7.4 Concrete Masonry Units shall conform to ASTM C90 or ASTM C55 and be sampled and tested in Accordance with ASTM C140.

### 7.5 Bed Joint thickness shall not exceed 5/8".

7.6 Grout used for filling Cells and Bond Beams shall comply with ASTM C476 and shall have a Minimum Compressive Strength of 2,000 psi at 28 days determined in Accordance with ASTM C140. The Slump shall be between 9 inches and 11 inches. Test Gout strength in Accordance with ASTM C1019 for each 5000 square feet of wall.

7.7 Where the minimum dimension of any continuous vertical cell is 3 inches or less, use Fine Grout, otherwise use Course (Pea Gravel) Grout. 7.8 Mortar shall conform to the following Types as defined in the Building Code:

Masonry in contact with earth: - Exterior Block Walls and Bearing Walls: Type M or S - Non-Bearing Interior Partitions: Type N - Brick Walls or Brick Veneer: Type N

7.9 Provide Control Joints at locations Approved by the Architect in all Masonry Walls at a maximum spacing of 20 feet or 3 times the wall height, whichever is less. Also provide Control Joints adjacent to corners, at changes in wall height and at changes in foundation conditions. Provide a Control Joint at Masonry Walls where support changes from Continuous Strip Footings to thickened slab-on-grade. 7.10 Joint Reinforcement shall be discontinued at control joints and where masonry veneer is supported from the Structuture.

7.11 Do Not locate Control Joints within 16 inches of openings, unless masonry above opening is supported from a Steel Lintel, which is

7.12 Horizontal Bond Beam reinforcement shall run continuous through Control Joints.

7.13 Joint Reinforcement shall meet ASTM A82. Provide the following Minimum Continuous Horizontal Masonry Reinforcing at 16 inches o.c. (Manufactured by Dur-O-Wal or an approved substitute.)

> Unreinforced - Std. Weight. Truss type Reinforced - 8" width Std. Weight Ladder type

> > 10"/12" width - Std. Weight Ladder Type

prced - Std. Weight Rectangular Tab Tie ced - 8" width - Std. Weight Rectangular Tab Tie 10"/12" width - Std. Weight Rectangular Tab Tie

ollow Unit Masonry shall be built to preserve the Unobstructed Vertical Continuity of the cells to be filled. Walls and cross uch cells to be filled shall be full-bedded in Mortar to prevent leakage of the grout. All Head (or end) joints shall be solidly ar for a distance in from the face of the wall or unit not less than the thickness of the longitudinal face shells. Bond shall be ing units in successive vertical courses or by equivalent Mechanical anchorage.

b be filled shall have Vertical Alignment sufficient to maintain a clear, unobstructed, continuous vertical cell measuring not es and having a clear area of 10 square inches.

ngs shall be provided at the bottom of all cells to be filled in each pour of grout where such grout pour in excess of (4) four Any overhanging mortar or other obstruction or debris shall be removed from the insides of such cell walls. The cleanouts after Inspection add before grouting.

cement shall be held in position at Top and Bottom and at intervals not exceeding (192) diameters of the reinforcement or

ing Reinforcement shall be filled solidly with grout. Grout shall be poured in lifts of (8) feet maximum height. All Grout shall I at time of pouring by puddling or vibrating and then reconsolidated again by puddling later, before plasticity is lost. ut Pour exceeds (8) feet in height, the grout shall be placed in (4) foot lifts and Special Inspection during Groutingshall be

ing is stopped for (1) one hour or longer, Horizontal Construction joints shall be formed by stopping the pour of grout not ch or more than (2) inches Below the top of the uppermost unit grouted.

Architect's representative shall be given a Minimum of (24) hours notice prior to each reinforced block grouting operation. te bracing for all masonry walls during construction and until lateral supports and diaphragms have been attached and grout specified Design Strength.

ear on Masonry Walls, they shall bear on either a bond beam course or on cores filled with concrete. All Lintels shall have pearing at each end, unless noted otherwise

nich bear on Masonry Walls shall be Mechaically Anchored and shall bear either on Bond Beams or filled block cores th 2-#7 Vertical bars and shall bear a minimum of (8"), unless shown otherwise.

AL COMPONENT DESIGN DELEGATED TO COMPONENT SUPPLIER'S ENGINEER

ngineer shall be a Professional Engineer registered in the Project State, NOT the Structural Engineer of Record, who lesign of Structural Components or Structural Systems for the Project. This is a Reminder to Delegated Engineers that in Seal to Structural Drawings of the Structural Components or Structural Systems, the Delegated Engineer has Accepted or the Design of the Structural Components or Structural Systems.

nponent is an individual Structural Member designed to be part of a Structural System.

tem is a portion of a Structure comprising an Assembly of Structural Components.

cing Engineering input such as defining the Configuration or Structural Capacity of Prefabricated Structural Components or into Structural Systems, shall require the Seal and Signature of the Delegated Engineer who prepared them.

tions and Computer Printouts shall require the Seal and Signature of the Delegated Engineer who prepared them.

re-Engineered Systems specified in the Contract Documents which are designed/engineered by the System Supplier is the ility of the Supplier and its Design Engineer licensed in the Project State. Submittals of such Systems to the Structural ord (EOR) shall be Reviewed for Conformance with the Contract Documents with regard to the arrangement and/or sizes of n on the Structural Contract Documents and the suppliers interpretation of the Design Information included in the Contract Such review by the Structural Engineer of Record shall not imply any responsibility for the actual design of such Systems. shall be responsible for Dimensional Accuracy and Conformance with the information contained in Contract Documents.

ections of general notes and specifications for the appropriate design responsibilities of the supplier and its licensed

cuments (drawings, general notes and specifications) shall govern in the event of a conflict with the specifications and/or for aisc, pci, sji, mbma or other standards

onents delegated to delegated engineers include but is not limited to: steel stairs and hand/guard rails, open web steel

and joist girders] shall be designed, fabricated, and erected in accordance with SJI specification specified in referenced

f each k- or vs- series joist [and outriggers] to its support with two 1/8-inch fillet welds 2 inches long.

f each LH- or DLH-series joist to its support with two 3/16-inch fillet welds 2 inches long. tor is responsible to coordinate the construction and erection of masonry walls, steel joists, shelf angles and steel decking to compatibility of roof systems, support systems and wall systems when considering pitch and camber of steel joists. ent shall be made to a steel joist that produces torsion in the joist member. attachments which impart a horizontal force on the hall not be made at any location other than at the joist top chord/deck interface unless a strut is provided which transfers the al force from the point of application to the top chord of the next adjacent joist.

hall verify locations, plan dimensions, weights, weight distribution, and roof opening size and location for all mechanical units centrated loads supported by steel joists. Steel joists shall be modified and strengthened as required to safely support these Provide top chord bracing where deck is omitted.

n chords of joists at columns to engage stabilizer plate. Do not weld bottom chord to stabilizer plate nd joist girders are considered to be simple span members which conform to sji definitions. All joists and joist girders shall ficient strength to support the gravity loads specified as simple span members.

which attach to them shall be designed and erected in conformance with AISC requirements. pists, joist girders and bridging for a net wind uplift as shown on the "net uplift plan" on roof framing plan sheet.

all be supported from joist bridging reinforcement as shown on typical steel joist reinforcing detail if concentrated loads are applied between panel points of any

nufacturer shall furnish all bridging and bracing required to ensure proper joist and joist girder performance during gravity and ding conditions. ports attached to joists shall be located within 3 inches of bottom chord panel points and shall be connected without welding g holes in the joists and without producing local bending of the joist chord perpendicular to the plane of the joist or producing

s" - Steel Stairs, Guardrails, and Handrails

1. Structural Steel Stair, Handrail and Guardrail Shop Drawings shall bear the Seal and Signature of an Engineer Registered in the Project State. Handrails shall be designed in accordance with the Referenced Code. Stairs shall be designed for a 100 p.s.f. Live Load. 2. Handrails shall be of 1-1/2 inch diameter Steel Pipe. Guardrail horizontal members shall be 1 1/2 inch diameter Steel Pipe. Guardrail posts shall be 1 1/2 inch diameter X-Strong Steel Pipe spaced 5'-0" maximum on center. 3. Handrails and Guardrails shall be designed and detailed to comply with all applicable OSHA standards. Provide Toe Guards as required

4. All Shop Drawings shall be Approved by the Owner or his Authorized Representative prior to fabrication.

- 9.0 STRUCTURAL COLD-FORMED (LIGHT GAUGE) STEEL FRAMING
- 9.1 All Structural Cold-Formed (Light Gauge) Steel Framing shall conform to the American Iron and Steel Institute's "North American Specification for the Design of Cold-Formed Steel Structural Members", Current Edition with Supplements.
- 9.2 Because the Design of this Structure is dependent upon the Framing Layout and Selected Member Properties, the Contractor has the following options regarding Shop Drawing Submittals and Construction of this Project. OPTION 1

- No changes are made regarding Framing Layout or Manufacturer: Contractor shall submit Shop Drawings indicating Framing Layout and Connections for Review if Design Intent. Signed and Sealed Shop Drawings by an Engineer are Not Required.

OPTION 2 - No changes to Framing Layout, But Alternate Manufacturer is Proposed: Contractor shall submit Shop Drawings indicating Framing Layout and Connections for Review if Design Intent and shall provide Written Certification that the Member Properties for the Proposed Manufacturer Meet or Exceed the Physical and and Material Properties of the Members as shown in the Properties Table above. Signed and Sealed Shop Drawings by an Engineer are Not Required.

OPTION 3 - Changes to Framing Layout, with Designated or Alternate Manufacturer: Contractor shall provide Complete Framing Layout and Connection Details Designed, Signed and Sealed by an Engineer Registered in the Project State. A change in Framing Layout can effect other Structural Members and Aspects of the Project. Therefore, the Contractor shall include in his/her Bid, Compensation to "MJM Architects" for Evaluation of the Revised Lavout and Design Modifications to the Other Structural Members on the Contract Documents. The Contractor shall also Include the

9.3 All Framing Members shall be Formed from Corrosion Resistant Steel. Conforming to the Requirements of ASTM A653 with a minimum yield strength of 33 ksi for 18 ga. and 20 ga. members, and a yield strength of 50 ksi for 16 ga., 14 ga. and 12 ga. members.

- 9.4 All Cold-Formed Steel Structural Framing Members shall be Manufactured by "Clark Dietrich Building Systems" or an Approved Substitute.
- 9.5 All Cold- Formed Steel Structural Members shall be Zinc Coated meeting ASTM A924-95A.

Cost of the Construction Changes resulting from these Revisions.

- 9.6 Provide Three (3) Studs at Each Lintel or Beam bearing location, Unless Noted Otherwise.
- 9.7 Provide Two (2) Studs on each side of Windows and Door Openings in Non-Load Bearing Walls, Unless Noted Otherwise. Provide Three (3) Studs on each side of Opening in Load Bearing Walls. Unless Noted Otherwise.
- 9.8 Prior to Fabrication of Framing, the Contractor shall Submit Fabrication and Erection Drawings to the Architect or Engineer to Obtain Approval.
- 9.9 Axially Loaded Studs shall be Installed in a manner which will assure that their Ends are Positioned against the Inside of Runner Web Prior to Fastening.
- 9.10 Fastening of Components shall be with Corrosion-Resistant Self-Drilling Screws or Welding. Unless Noted Otherwise, Use 1/4-14 screws by Buildex or Approved substitute. Wire tying of Components shall Not be Permitted. All Welds shall be touched up with Zinc Paint.
- 9.11 All Framing Components shall be Plumbed, Aligned and Leveled. 9.12 Runners shall be securely Anchored to the Supporting Structure as shown on the Drawings. Attachment shall be Adequate to resist all
- applicable Gravity and Lateral Loads.
- 9.13 Temporary Bracing and Shoring, where required, shall be provided by the Contractor until Erection is Completed. 9.14 Resistance to Bending and Rotation about the Minor Axis shall be provided by Horizontal Straps with Horizontal C-Runner Bridging at
- termination of Continuous Horizontal Strap. Place at Third Points
- 9.15 All Straps shall have Fy = 50 ksi
- 9.16 Splicing of Framing Components shall Not be permitted. 9.17 Member sizes indicated in the Drawings are the Minimum size required for the Design Loads. Contractor shall provide Minimum Gage for
- Studs, Joists, Bridging and Bracing as required for the U.L. Assemblies specified in the Architectural Drawings. 9.18 Contractor shall Align Holes in Studs for Plumbing and Electrical.
- 9.19 Design all Connections of Framing Members to each other and to the rest of the Structure, Unless specifically detailed on the Drawings.

10.0 POST-INSTALLED ANCHORS, REBAR, & FASTENERS

- 10.1 The products listed in this section are the design basis for this project. Additional requirements are as follows: a Post-install anchors rebar and/or fasteners only as directed by the construction documents
- b. Product diameter and embedment shall be as shown in the details
- c. Install products in accordance with Manufacturer's Printed Installation Instructions. d. Prior to installation, contractor shall contact manufacturer's representative for product-specific installation training and a letter shall be
- submitted to the Engineer-Of-Record (EOR) indicating training has taken place. e. Unless noted otherwise on the contract documents, refer to the project Building Code and/or evaluation report for required special inspections and proof load requirements. f. Substitution requests for products other than those listed below may be Submitted by the Contractor to the EOR for review. Substitutions
- will ONLY be considered for products having a Research Report recognizing the product for the appropriate application under the project Building Code. Substitution requests shall include calculations that demonstrate the substituted product is capable of achieving the equivalent performance values of the design basis product. 1. For anchoring into **CONCRETE**:
- 1.1. **Mechanical Anchors** shall have been tested in accordance with ACI 355.2 and ICC-ES AC193 for cracked concrete and seismic applications. Pre-approved products include: SIMPSON STRONG-TIE "TITEN-HD" (ICC-ES ESR-2713)
- 12 Adhesive for Rebar and Anchors shall have been tested in accordance with ACI 355.4 and ICC-ES AC308 for cracked concrete and seismic applications. Design bond strength has been based on cracked concrete, ACI 355.4 temperature category b, and installations into dry holes drilled using a hammer drill into concrete that has cured for at least 21 days. Adhesive anchors shall be installed by a certified adhesive anchor installer when required per ACI 318-11 d.9.2.2. Installations requiring certified installers shall be inspected per ACI 318-11 d.9.2.4. Pre-approved products include: SIMPSON STRONG-TIE "SET-XP" (ICC-ES ESR-2508)

2. For anchoring into **MASONRY**: 2.1. Solid-grouted Concrete Masonry

- 2.1.1. Mechanical Anchors shall have been tested in accordance with ICC-ES AC01 or ICC-ES AC106. Pre-approved products include: SIMPSON STRONG-TIE "TITEN-HD" (ICC-ES ESR-1056)
- 2.1.2. Adhesive for Rebar and Anchors shall have been tested in accordance with ICC-ES AC58. Pre-approved products include: SIMPSON STRONG-TIE "SET-XP" (IAPMO-UES ER-2 2.2. Hollow Concrete Masonry
- 2.2.1. Mechanical Anchors shall have been tested in accordance with ICC-ES AC106. Pre-approved products include: SIMPSON STRONG-TIE "TITEN-HD"
- 2.2.2. Adhesive for Rebar and Anchors with screen tubes shall have been tested for use in accordance with ICC-ES AC58. The appropriate screen tube shall be used as recommended by the adhesive manufacturer. Pre-approved products include: SIMPSON STRONG-TIE "SET-XP" (IAPMO-UES ER-265)

## SPECIAL INSPECTIONS

11.0 SPECIAL INSPECTIONS

Special Inspection is to be provided in addition to the inspections conducted by the Department of Building Safety and shall not be construed to relieve the Owner or his Authorized Agent from requesting the periodic and called inspections required by the Building Code. Special Inspection shall be paid by the Owner, and shall satisfy all inspection requirements of the Building Code.

REQUIRED SPECIAL INSPECTIONS

- In addition to the regular inspections, the following items will also require special inspection in accordance with Chapter 17 of the governing Building Code.
- Structural Steel (Section 1705.2)
- Field Welding High Strength Bolts
- Cold-formed steel deck Open-Web Steel Joists
- Structural Concrete (Section 1705.3) Anchors Cast in Concrete
- Post-installed anchors in concrete
- Soils (Section 1705.6) Fabricated Items (Section 1705.10)
- Structural Masonry (Section 1505.4)
- Special inspector shall meet the qualifications as stated in the building code and shall perform the duties and responsibilities as outlined in the building code.
- 3. Special inspection shall meet the requirements of IBC section 1704. Special inspector(s) shall be hired by the owner to perform the required special inspections. The names of persons or firms who are to perform the special inspections shall be forwarded to the building official for approval. The special inspector(s) shall complete and submit all forms required by the building department having jurisdiction.
- 4. The special Inspector(s) shall:
- Observe the work assigned for conformance to the approved drawing and specifications. K. Furnish inspection reports to the engineer of record and building department. Discrepancies shall be brought to the immediate attention of the contractor for correction, then, if not corrected to the engineer and the building department.
- Submit to the engineer of record and the building department a signed final report stating that the work was in conformance with the approved drawings and specifications and the applicable workmanship provisions of the IBC.
- 5. Special Inspection Notes:

requirements shown on this sheet.

6.

- Continuous special inspection is always required during the performance of the work unless specifically noted below. Where fabrication of structural load-bearing members and assemblies is being performed on the premises of a fabricator's shop, continuous special inspection is required during the performance of the work except as allowed in IBC section 1704 and unless specifically noted below.
- C. It is the responsibility of the contractor to provide the special inspector(s) with advance notice, no less than one working day, of the initiation of any work required to have special inspections. All work performed without required special inspection will be subject to removal.

![](_page_10_Picture_237.jpeg)

![](_page_11_Figure_0.jpeg)

**FOUNDATION PLAN** SCALE: 3/16" = 1'-0" BASE PLATE NOTE: ENSURE THAT ALL BASE PLATES & ANCHOR BOLTS HAVE AT LEAST 3" MIN. OF CONCRETE OR GROUT COVER. DO NOT EXPOSE TO BARE EARTH.

![](_page_11_Figure_4.jpeg)

FOOTING SCHEDULE											
MARK	FOOTING SIZE	REINFORCING	T/ FTG. ELEV.								
F1	6'-0" x 6'-0" x 2'-0"	(7) - #5 EACH WAY, TOP & BOT.	-0'-8"								
F2	6'-0" x 6'-0" x 1'-0"	(7) - #5 EACH WAY, TOP & BOT.	-1'-4"								

(6) - #5 EACH WAY, TOP & BOT.

-1'-4"

\*\* ASTM F1554 (36 ksi) ANCHOR BOLTS (RODS OR HEADED BOLTS) W/(2) - FLAT WASHERS AND (2) HEAVY HEX NUTS (TYP.)

NOTE: CENTER ALL COLUMN FOOTINGS ABOUT COLUMN CENTERLINES, (U.N.O.).

FOUNDATION NOTES:

5'-0" x 5'-0" x 1'-0"

ON PLAN.

F3

- T/ EXTERIOR FOOTINGS = (-1'-4"), UNLESS NOTED OTHERWISE.
   T/ INTERIOR FOOTINGS = (-0'-8"), UNLESS NOTE OTHERWISE.
   BOTTOM OF ALL EXTERIOR FOOTINGS SHALL BEAR AT A MINIMUM
   OF 1'-6" BELOW FINISHED GRADE. BEARING ELEVATION MUST BE
   ADJUSTED FOR BLOCK COURSING AND VERIFIED IN THE FIELD
   BASED ON SITE GRADING PLAN. (COORDINATE WITH CIVIL).
- 2. REFER TO DRAWING S0.0 FOR GENERAL NOTES.
- 3. SEE 1/S3.0 FOR TYPICAL SLAB-ON-GRADE CONTROL JOINT DETAIL.
- 4. SEE 2/S3.0 FOR TYPICAL SLAB-ON-GRADE CONSTRUCTION JOINT DETAIL.
- 5. VERIFY DIMENSIONS WITH ARCHITECTURAL DRAWINGS. DIMENSIONS SHOWN ON ARCHITECTURAL DRAWINGS TAKE PRECEDENCE OVER DIMENSIONS SHOWN ON THIS PLAN.
- 6. REFERENCE ARCHITECTURAL DRAWINGS FOR FOR EXACT LOCATIONS AND EXTENTS OF SLAB DEPRESSIONS. MAINTAIN CONSISTENT SLAB THICKNESS THROUGHOUT.
- LOWER FOOTINGS WHERE REQUIRED TO ACCOMMODATE PLUMBING, SLAB RECESSES, FINISH GRADE, ETC. REFERENCE ARCHITECTURAL AND PLUMBING DRAWINGS. REFER TO DETAILS 2 & 3 ON S3.1.
- 8. PROVIDE CONTROL JOINTS IN SLAB-ON-GRADE IN ACCORDANCE WITH GENERAL NOTE 5.8 ON DRAWING S0.0. SEE MAX. SPACING
- 9. PROVIDE (2) #4 x 3'-0" DIAGONAL BAR AT ALL SLAB INSIDE CORNERS.
- 10. DENOTES FOOTING STEP WITH TOP/FOOTING ELEVATION NOTED. SEE 6/S3.0 FOR DETAIL. CONTRACTOR TO COORDINATE EXACT LOCATION AND ELEVATIONS WITH SITE GRADING PLANS.
- 11. SEE 1/S3.1 FOR CMU WALL REINFORCING (TYPICAL U.N.O.)12. REFER TO GEOTECH REPORT FOR ADDITIONAL INFORMATION
- REGARDING SOIL UNDER SLAB AND FOUNDATIONS.
- 13. G.C. TO COORDINATE FLOOR CONSTRUCTION WITH REQUIREMENTS ON ARCHITECTURAL DRAWINGS.

14. PROVIDE CONTROL JOINTS IN CMU WALLS PER NOTE 7.9/S0.0.

![](_page_11_Picture_22.jpeg)

![](_page_12_Figure_0.jpeg)

![](_page_12_Figure_1.jpeg)

16 PSF \_\_\_\_

![](_page_12_Figure_5.jpeg)

JOIST NET UPLIFT PLAN (NOMINAL PRESSURES)

10. REFER TO DETAIL ON S4.0 FOR TYPICAL RTU SUPPORT FRAMING AND FOR TYPICAL ROOF OPENING DETAIL. PROVIDE JOIST REINFORCING, AS REQUIRED, AT ATTACHMENT POINTS PER DETAIL ON S4.0.

11. ROOF STEEL SHALL BE DESIGNED TO SUPPORT EQUIPMENT INDICATED. COORDINATE FINAL EQUIPMENT LOADS AND

LOCATIONS WITH MECHANICAL DRAWINGS.

12. INDICATES MOMENT CONNECTION.

FRAMING NOTES:

ON THE NET UPLIFT PLAN.

1. REFER TO DRAWING S0.0 FOR GENERAL NOTES.

3. ALL JOISTS SHALL HAVE  $2\frac{1}{2}$  " DEEP BEARING SEATS.

4. ROOF DECK SHALL BE  $1\frac{1}{2}$ " TYPE B, 22 GAGE, PRIMED.

6. REFER TO DRAWINGS S4.0 THRU S4.1 & S5.0 FOR STEEL FRAMING DETAILS.

7. VERIFY ALL DIMENSIONS AND ELEVATIONS WITH ARCH. DRAWINGS. DIMENSIONS SHOWN ON ARCH. DRAWINGS TAKE

PRECEDENCE OVER DIMENSIONS SHOWN ON THIS PLAN.

9. JOISTS SHALL BE SPACED EVENLY AT 6'-0" O.C. MAX. (TYPICAL - UNLESS NOTED OTHERWISE)

8. ATTACHMENT OF STEEL DECK SHALL BE PER 6/S4.0.

2. ALL JOISTS SHALL BE DESIGNED FOR A NET UPLIFT AS SHOWN

5. BRIDGING FOR JOISTS SHALL BE SIZED AND LOCATED BY THE JOIST MANUFACTURER IN ACCORDANCE WITH SJI REQUIREMENTS.

13. RTU PLACEMENT PARAMETERS:

- MAXIMUM RTU WEIGHT = 2,000 LBS. - TWO RTU'S MAY <u>NOT</u> SHARE A SUPPORTING JOIST.

![](_page_12_Picture_22.jpeg)

![](_page_13_Figure_0.jpeg)

![](_page_14_Figure_0.jpeg)

![](_page_14_Figure_3.jpeg)

![](_page_14_Picture_4.jpeg)

![](_page_15_Figure_0.jpeg)

![](_page_15_Figure_2.jpeg)

![](_page_15_Figure_4.jpeg)

![](_page_15_Figure_5.jpeg)

![](_page_16_Figure_0.jpeg)

![](_page_16_Figure_4.jpeg)

0

S4.1

![](_page_16_Figure_5.jpeg)

![](_page_17_Figure_1.jpeg)

 1
 FRAMING ELEVATION

 SCALE: 3/16" = 1'-0"
 ALONG COL. LINE 'A.5'

![](_page_17_Figure_3.jpeg)

![](_page_17_Picture_4.jpeg)

GENERAL PLUMBING NOTES:

SITE EXAMINATION

SCOPE THE INTENT OF THE SPECIFICATION AND THE DRAWINGS IS TO PROVIDE A COMPLETE AND FULLY OPERATIONAL PLUMBING SYSTEM. THE PLUMBING CONTRACTOR SHALL FURNISH AND INSTALL ALL LABOR, MATERIAL AND EQUIPMENT NECESSARY TO COMPLETE THE PLUMBING WORK.

THE PLUMBING CONTRACTOR SHALL THOROUGHLY EXAMINE ALL AREAS WHERE FIXTURES, EQUIPMENT, AND PIPING WILL BE INSTALLED AND WILL REPORT ANY CONDITION THAT, IN HIS OPINION, PREVENTS THE PROPER INSTALLATION OF THE PLUMBING WORK.

STANDARDS EQUIPMENT AND MATERIALS SHALL CONFORM WITH APPROPRIATE PROVISIONS OF ASME, ASTM, UL, NEMA, ANSI, ASHRAE, NFPA, AS APPLICABLE TO EACH INDIVIDUAL UNIT OR ASSEMBLY.

CODES ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH ALL APPLICABLE STATE AND LOCAL CODES AND ORDINANCES. IN CASE OF CONFLICT BETWEEN THE DRAWINGS/SPECIFICATIONS AND THE CODES AND ORDINANCES. THE HIGHEST STANDARD SHALL APPLY. THE MECHANICAL CONTRACTOR SHALL SATISFY CODE REQUIREMENTS AS A MINIMUM STANDARD WITHOUT ANY EXTRA COST. PERMITS AND FEES

THE PLUMBING CONTRACTOR SHALL PROCURE AND PAY FOR ALL PERMITS, FEES AND INSPECTIONS NECESSARY TO COMPLETE THE PLUMBING WORK. WARRANTY

THE PLUMBING CONTRACTOR SHALL UNCONDITIONALLY WARRANT ALL WORK TO BE FREE OF DEFECTS IN MATERIAL AND WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE AND WILL REPAIR OR REPLACE ANY DEFECTIVE WORK PROMPTLY AND WITHOUT CHARGE AND RESTORE ANY OTHER EXISTING WORK DAMAGED IN THE COURSE OF REPAIRING DEFECTIVE MATERIALS AND WORKMANSHIP.

### PIPING:

SOIL. WASTE AND VENT PIPING SOIL. WASTE AND VENT PIPING 10" AND SMALLER SHALL BE SERVICE WEIGHT. HUBLESS. CAST IRON PIPE AND FITTINGS WITH NEOPRENE GASKET AND STAINLESS STEEL SHIELD AND CLAMP. PROVIDE HUB-TYPE PIPE AND FITTINGS BELOW GRADE WHERE REQUIRED BY LOCAL CODES. SCHEDULE 40 ABS OR PVC PIPE AND FITTINGS WITH SOLVENT WELD MAY BE SUBSTITUTED FOR SOIL. WASTE AND VENT PIPING ABOVE AND BELOW GRADE IF ALLOWED BY LOCAL AUTHORITY. HORIZONTAL RUNS 3" OR LESS SHALL DRAIN AT A GRADE OF  $\frac{1}{4}$ " PER FOOT AND RUNS 4" OR MORE SHALL DRAIN AT  $\frac{1}{6}$ " PER FOOT. PVC OR ABS PIPING WILL NOT BE ALLOWED TO BE INSTALLED IN RETURN AIR PLENUMS.

DOMESTIC WATER PIPING DOMESTIC WATER PIPING 2" AND SMALLER SHALL BE COPPER TUBE WITH WROUGHT COPPER SWEAT FITTINGS JOINED WITH LEAD FREE SOLDER. PROVIDE TYPE "L" COPPER TUBE ABOVE GRADE AND TYPE "K" BELOW GRADE.

CONDENSATE DRAINAGE PIPING THE PLUMBING CONTRACTOR SHALL PROVIDE CONDENSATE DRAINS FOR ROOFTOP UNITS. CONDENSATE DRAINAGE PIPING SHALL BE TYPE "M" COPPER TUBING WITH WROUGHT COPPER SWEAT FITTINGS JOINED WITH 50/50 SOLDER.

HANGERS & SUPPORTS THE PLUMBING CONTRACTOR SHALL FURNISH ALL PIPE SUPPORTS REQUIRED FOR HIS EQUIPMENT AND MATERIAL. ALL HORIZONTAL RUNS OF PIPING SHALL BE SUPPORTED BY PIPE HANGERS SPACED NOT MORE THAN 10 FEET O.C. FOR PIPES 1-1/4" AND LARGER, AND 8 FEET O.C. FOR PIPES SMALLER THAN 1-1/4" AND A EACH JOINT FOR SOIL OR WASTE PIPE. ADDITIONAL SUPPORTS SHALL BE PROVIDED WHERE REQUIRED TO PREVENT SAGGING. HANGERS AND PIPE ATTACHMENTS TO BE FACTORY FABRICATED WITH GALVANIZED COATINGS; NONMETALLIC COATED FOR HANGERS IN DIRECT CONTACT WITH COPPER TUBING.

CONNECTIONS INSTALL UNIONS ADJACENT TO EACH VALVE AND AT FINAL CONNECTION TO EACH PIECE OF EQUIPMENT. INSTALL DIELECTRIC COUPLINGS TO CONNECT PIPING MATERIALS OF DISSIMILAR METALS. SCREW JOINT STEEL PIPING UP TO AND INCLUDING 1-1/2". WELD PIPING USE LEAD FREE SOLDER FOR SOLDERING DOMESTIC WATER COPPER PIPE.

#### CLEANOUTS

SCALES \$USER\$

PROVIDE J.R. SMITH OR EQUIVALENT FLOOR AND WALL CLEANOUTS AS INDICATED ON THE DRAWINGS OR WHERE REQUIRED IN ALL SOIL, WASTE, AND DRAIN LINES. IN AREAS WITH CERAMIC TILE OR CARPETED FLOORING, PROVIDE CLEANOUTS WITH SQUARE, ADJUSTABLE, NICKEL BRONZE TOP. IN AREAS WITH RESILIENT FLOORING, PROVIDE CLEANOUTS WITH SQUARE, ADJUSTABLE, NICKEL BRONZE TOP WITH TILE RECESS. CLEANOUTS SHALL BE SAME SIZE AS PIPE EXCEPT THAT CLEANOUTS LARGER THAN 4" WILL NOT BE REQUIRED. WHERE CLEANOUTS OCCUR IN WALLS OF FINISHED AREAS, THEY SHALL BE CONCEALED BEHIND CHROME PLATED ACCESS COVERS.

#### INSTALLATION

INSTALL EXPOSED PIPING FREE OF SAGS AND BENDS. PROVIDE BRACKET STANDOFFS FROM MOUNTING SURFACES SUFFICIENT TO ALLOW 1" CLEANING SPACE AROUND ALL PIPING, INCLUDING ANY ADDED PIPING INSULATION. INSTALL FITINGS FOR CHANGES IN DIRECTION AND BRANCH CONNECTIONS. INSTALL SLEEVES FOR PIPES PASSING THROUGH CONCRETE AND MASONRY WALLS, GYPSUM BOARD PARTITIONS, CONCRETE FLOOR AND ROOF SLABS. SEAL PIPE PENETRATIONS THROUGH RATED CONSTRUCTION WITH FIRESTOPPING SEALANT MATERIAL. UNDERGROUND WATER AND SEWER LINES SHALL BE LAID IN SEPARATE TRENCHES WITH A MINIMUM HORIZONTAL SPACING AS REQUIRED BY CODE, EXCAVATED TO THE PROPER DEPTH AND GRADED TO PRODUCE THE REQUIRED FALL. 4"SS - SEE CIVIL

UTILITY PLAN FOR

CONTINUATION -

(A.5)-

(A) –

TESTING ALL PIPES SHALL BE TESTED BY AN APPROVED METHOD BEFORE THEY ARE BACKFILLED OR CONCEALED. AFTER TESTING IS COMPLETE. THE PLUMBING CONTRACTOR SHALL DISINFECT THE POTABLE WATER SYSTEM AS REQUIRED BY LOCAL AUTHORITY.

### INSULATION:

WATER PIPING PROVIDE THERMAL INSULATION ON ALL HOT & COLD WATER, AND HORIZONTAL WASTE PIPING IN CEILING SPACES. USE SELF-SEALING CLOSED CELL FOAM OR JACKETED FIBERGLASS INSULATION WITH MANUFACTURE APPROVED ADHESIVES, SEALERS, AND COATINGS. ALL MATERIALS USED SHALL NOT EXCEED 25 FOR FLAME SPREAD, 50 FOR FUEL CONTRIBUTED, OR 50 FOR SMOKE DEVELOPED. UNLESS OTHERWISE REQUIRED BY THE LOCAL AUTHORITY OR ENERGY CODES, THE MINIMUM INSULATION LEVELS SHALL BE AS FOLLOWS:

PIPE SIZE INSULATION THICKNESS 1" DIA. OR LESS 1" 1" - 2" DIA. 1"

	2	DIA	•						
2″	DIA.	OR	GREATEF	7			1-	-1/2″	
IN	<b>SULA</b>	T I ON	VALUE	= 4	TO	4.6	1	INCH)	

VALVES:

GENERAL

PLUMBING CONTRACTOR TO PROVIDE VALVES WHERE INDICATED ON PLANS AND AS NECESSARY FOR PROPER SYSTEM OPERATION AND COMPONENT ISOLATION. VALVES

PROVIDE VALVES FOR WORKING PRESSURE IN WATER PIPING OF 125 PSI OR GREATER. UNLESS NOTED OTHERWISE VALVES SHALL BE AS FOLLOWS:

VALVE TYPE	MANUFACTURER	MODEL NO.
CHECK VALVE (UP TO 2")	NIBCO	#S-22
FULL PORT BALL VALVE (UP TO 3")	NIBCO	#S-FP-600
GATE VALVE (UP TO 3")	NIBCO	#S-113
TEMPERATURE AND PRESSURE RELIEF VALVE	WILKINS	#TP1100A

![](_page_18_Figure_27.jpeg)

SYMBOL	DESCRIPTION	ABBREVIATIONS										
••	COLD WATER (UNDERGROUND)											
c.o.	CLEAN-OUT	C.O.										
<b>— — — — — — — — — —</b>	SANITARY SEWER (UNDERGROUND)											
	SANITARY SEWER	s.s.										
OV.T.R.	VENT THROUGH THE ROOF	V.T.R.										
	VALVES (SEE SPECIFICATIONS FOR TYPE)											
	REDUCED PRESSURE BACKFLOW PREVENTER	R.P.B.P.										
	COLD WATER	C.W.										

![](_page_18_Picture_29.jpeg)

![](_page_19_Figure_0.jpeg)

![](_page_20_Picture_0.jpeg)

![](_page_20_Picture_1.jpeg)

![](_page_20_Picture_3.jpeg)

![](_page_21_Picture_0.jpeg)

![](_page_21_Figure_1.jpeg)

![](_page_21_Picture_2.jpeg)

![](_page_22_Figure_0.jpeg)

![](_page_22_Picture_3.jpeg)

![](_page_23_Figure_0.jpeg)

![](_page_23_Figure_3.jpeg)

![](_page_23_Picture_4.jpeg)

	F	PANEL:	HP	TYPE: NQ			MOU	NTING:	SURFA	CE	AIC RATING: 65K FDR #: F5			
VOLTAGE: 120/208V, 3P, 4W			120/208V, 3P, 4W	MAIN:	100 AN	1P	МСВ	SEC	TIONS:	1	SERVICE FROM: METER			
BRE	KER	FDR	SERVES	CIRC	POLE	Pł	HASE K	W	POLE	CIRC		FDR	BRE	\KER
AMPS	POLE	#	SERVES	KW	#	Α	В	С	#	KW	SERVES	#	AMPS	POLE
20	1	B1	LIGHTING EXT	0.20	1	1.20			2	1.00	IRRIGATION CTRL	A2	20	1
20	1	B1	LIGHTING EXT	0.29	3		1.29		4	1.00	TIME CLOCK	A2	20	1
20	2	B1	LIGHTING SITE	0.60	5			1.60	6	1.00	MONUMENT SIGN LTG	B1	20	1
				0.60	7	0.60			8	0.00	SPACE ONLY		20	1
20	2	B1	LIGHTING SITE	0.70	9		0.70		10	0.00	SPACE ONLY		20	1
				0.70	11			0.70	12	0.00	SPACE ONLY		20	1
20	1		SPARE	0.00	13	0.00			14	0.00	SPARE		20	1
20	1		SPARE	0.00	15		0.00		16	0.00	SPARE		20	1
20	1		SPARE	0.00	17			0.00	18	0.00	SPARE		20	1
				PHAS	E KW	W 1.80 1.99 2.30								
	TOTAL KW 6.09													

	LOA	AD SUMMARY		
Panel:	HP	Volts:	Phase: 3	
Load Type	Connected KW	Demand Factor	Demand KW	Phase AMPS
LIGHTING	4.09	1.00	4.09	11.35
RECEPTACLES	2.00	-	2.00	5.55
MISC.	0.00	1.00	0.00	0.00
HEATING	0.00	1.00	0.00	0.00
COOLING	0.00	1.00	0.00	0.00
KITCHEN EQUIP	0.00	1.00	0.00	0.00
MEDICAL EQUIP	0.00	1.00	0.00	0.00
MOTORS	0.00	1.00	0.00	0.00
ELEVATORS	0.00	1.00	0.00	0.00
WATER HEATERS	0.00	1.00	0.00	0.00
SPARE CAPACITY	0.00	1.00	0.00	0.00
Total	6.09		6.09	16.90
Minimum feeder AMPS:	1.25	Х	16.90	21.13
Feeder AMPS used:	100			

GENERAL NOTES:

- A. COORDINATE ALL POWER REQUIREMENTS WITH UTILITY PROVIDER PRIOR TO BID.
- B. VERIFY PANEL AIC RATINGS WITH UTILITY PROVIDER PRIOR TO BID.
- C. REFERENCE POWER FLOOR PLANS AND PANELBOARD SCHEDULES FOR MORE INFORMATION.
- D. REFERENCE FEEDER SCHEDULE ON SHEET E5.0 FOR FEEDER SIZES.

─<u>RISER NOTES</u>:

- 1. PROVIDE QUANTITY AND SIZE OF CONDUITS AS REQUIRED BY UTILITY PROVIDER TO PRIMARY POWER CONNECTION POINT. COORDINATE EXACT CONNECTION LOCATION WITH UTILITY PROVIDER PRIOR TO BID.
- 2. PAD-MOUNTED UTILITY TRANSFORMER. COORDINATE EXACT LOCATION WITH CIVIL SITE PLANS.
- 3. UTILITY APPROVED ELECTRIC METER BASE/CT CABINET. COORDINATE MOUNTING, LOCATION, AND ALL REQUIREMENTS WITH UTILITY.
- 4. COPPER GROUND SIZED PER NEC ARTICLE 250. SEE ELECTRICAL DETAIL "C1".

	F	PANEL:	A1	TYPE:	I-LINE		MOU	NTING:	SURFA	CE	AIC RATING:	22K	FDR #:	S2
	VOI	LTAGE:	120/208V, 3P, 4W	MAIN:	600 AN	1P	МСВ	SEC	TIONS:	1	SERVICE FROM:	SVC D	ISC	
BRE	AKER	FDR	SERVES	CIRC	POLE	Pł	HASE K	W	POLE	CIRC	SERVES	FDR	BREA	KER
AMPS	POLE	#	OEIWE0	KW	#	Α	В	С	#	KW	OERVEO	#	AMPS	POLE
20	1		SPARE	0.00	1	0.00			2	0.00	PANEL A2	M2	200	3
20	1		SPARE	0.00	3		0.00		4	0.00				
20	1		SPARE	0.00	5			0.00	6	0.00				
20	1		SPARE	0.00	7	0.00			8	0.00	SPARE		20	1
20	1		SPARE	0.00	9		0.00		10	0.00	SPARE		20	1
20	1		SPARE	0.00	11			0.00	12	0.00	SPARE		20	1
20	1		SPARE	0.00	13	0.00			14	0.00	SPARE		20	1
20	1		SPARE	0.00	15		0.00		16	0.00	SPARE		20	1
20	1		SPARE	0.00	17			0.00	18	0.00	SPARE		20	1
20	1		SPARE	0.00	19	0.00			20	0.00	SPARE		20	1
20	1		SPARE	0.00	21		0.00		22	0.00	SPARE		20	1
20	1		SPARE	0.00	23			0.00	24	0.00	SPARE		20	1
20	1		SPARE	0.00	25	0.00			26	0.00	SPARE		20	1
20	1		SPARE	0.00	27		0.00		28	0.00	SPARE		20	1
20	1		SPARE	0.00	29			0.00	30	0.00	SPARE		20	1
20	1		SPARE	0.00	31	0.00			32	0.00	SPARE		20	1
20	1		SPARE	0.00	33		0.00		34	0.00	SPARE		20	1
20	1		SPARE	0.00	35			0.00	36	0.00	SPARE		20	1
20	1		SPARE	0.00	37	0.00			38	0.00	SPARE		20	1
20	1		SPARE	0.00	39		0.00		40	0.00	SPARE		20	1
20	1		SPARE	0.00	41			0.00	42	0.00	SPARE		20	1
		-		PHAS	EKW	0.00	0.00	0.00				d	-	
				TOTA	LKW		0.00							
									-					

	PANEL: A2			TYPE: NF			MOUNTING: SUR			CE		AIC RATING: 22K		FDR #: M2	
	VOI	TAGE:	120/208V, 3P, 4W	MAIN:	200 AN	1P	MCB	MCB SECTIONS: 1			SERVICE FROM: PANEL A1				
BREA	AKER	FDR		CIRC	POLE	PI	HASE K	W	POLE	CIRC		0551/50	FDR	BREA	AKER
AMPS	POLE	#	SERVES	KW	#	Α	В	С	#	KW		SERVES	#	AMPS	POL
20	1		SPARE	0.00	1	0.00			2	0.00	SPARE			20	1
20	1		SPARE	0.00	3		0.00		4	0.00	SPARE			20	1
20	1		SPARE	0.00	5			0.00	6	0.00	SPARE			20	1
20	1		SPARE	0.00	7	0.00			8	0.00	SPARE			20	1
20	1		SPARE	0.00	9		0.00		10	0.00	SPARE			20	1
20	1		SPARE	0.00	11			0.00	12	0.00	SPARE			20	1
20	1		SPARE	0.00	13	0.00			14	0.00	SPARE			20	1
20	1		SPARE	0.00	15		0.00		16	0.00	SPARE			20	1
20	1		SPARE	0.00	17			0.00	18	0.00	SPARE			20	1
20	1		SPARE	0.00	19	0.00			20	0.00	SPARE			20	1
20	1		SPARE	0.00	21		0.00		22	0.00	SPARE			20	1
20	1		SPARE	0.00	23			0.00	24	0.00	SPARE			20	1
20	1		SPARE	0.00	25	0.00			26	0.00	SPARE			20	1
20	1		SPARE	0.00	27		0.00		28	0.00	SPARE			20	1
20	1		SPARE	0.00	29			0.00	30	0.00	SPARE			20	1
20	1		SPARE	0.00	31	0.00			32	0.00	SPARE			20	1
20	1		SPARE	0.00	33		0.00		34	0.00	SPARE			20	1
20	1		SPARE	0.00	35			0.00	36	0.00	SPARE			20	1
20	1		SPARE	0.00	37	0.00			38	0.00	SPARE			20	1
20	1		SPARE	0.00	39		0.00		40	0.00	SPARE			20	1
20	1		SPARE	0.00	41			0.00	42	0.00	SPARE			20	1
				PHAS	E KW	0.00	0.00	0.00							
				ΤΟΤΑ	LKW		0.00		]						

![](_page_24_Figure_17.jpeg)

![](_page_24_Picture_18.jpeg)

### <del>\$\$</del> <del>\$\$</del> \$\$ \$FILEL \$DATE \$TIME

## BRANCH CIRCUIT AND FEED

FEEDER NO.	CONDUIT AND COPPER WIRE	CONDUIT AND ALUMINUM WIRE *
A2	½" - 2 #12 & 1 #12 GND.	
B1	<sup>3</sup> 4" - 2 #10 & 1 #10 GND.	
F5	1 <sup>1</sup> / <sub>4</sub> " - 4 #3	
M2	2½" - 4 #3/0 & 1 #6 GND.	3" - 4 #250 MCM & 1 #4 GND.
S2	2 PARALLEL 3" - 4 #350MCM & 1 #1 GND.	
S4	2 PARALLEL 3" - 4 #350MCM	

GENERAL NOTES AND SPECIFICATIONS

## DATE OF ACCEPTANCE.

- B. COMPLY WITH THE NEC, STATE, AND LOCAL CODES. D. USE MINIMUM 1/2" CONDUIT. USE 3/4" MINIMUM GALVANIZED COATED AND UNDERGROUND. E. USE STAINLESS STEEL DEVICE COVER PLATES, UON. F. ALL ELECTRICAL EQUIPMENT SHALL BE UL LISTED, COMMERCIAL GRADE. G. USE HUBBELL WIRING DEVICES AS FOLLOWS: SWITCHES - 15 AMP, #1201-1, 1202-1, 1203-1
- PURPOSES. RECEPTACLES - 20 AMP, SG63H-1 FOR SAFETY TYPE.
- H. ALL WIRING MUST BE IN CONDUIT.
- DISCONNECT SWITCHES.
- ABOVE.
- K. USE 6' MAXIMUM LENGTH OF FLEXIBLE CONDUIT TO FIXTURES.
- USE BUSS TYPE KTS OR KTN FUSES FOR PANEL AND TRANSFORMER FEEDERS.
- P. LED LAMPS SHALL BE 4000 DEGREES KELVIN, UON,
- ELECTRONIC BALLASTS.

- PRIOR TO ROUGH-IN.
- COMPANY.
- THAN SHOWN.
- CONTROL AND MANUFACTURER'S DRAWINGS.
- RATINGS AS INDICATED. EQUIP FOR MOUNTING AS INDICATED.
- GENERAL ELECTRIC, AND ASCO ARE ACCEPTABLE.
- CAST, WEATHERPROOF ENCLOSURE.
- OUTLET ENCLOSURE CLEARLY MARKED "SUITABLE FOR WET EMPLOY STAINLESS STEEL MOUNTING HARDWARE AND BE EQUAL.
- FF. LED LAMP EMERGENCY POWER SUPPLY SHALL BE ASSEMBLED LUMINAIRE.

ER	LEGEND	

4 #250 MCM & 1 #4 GND.

A. GUARANTEE ALL MATERIALS AND WORKMANSHIP FOR ONE YEAR FROM

C. USE ONLY COPPER CONDUCTORS AS NOTED. MINIMUM SIZE #12 AWG. USE TYPE THHN, UON. ALL CIRCUITS SHALL BE COLOR CODED.

WITH ASPHALTUM OR SCHEDULE 40 PVC IN CONCRETE BELOW GRADE. FOR PVC, TRANSITION TO RIGID BEFORE EMERGING FROM BELOW, USE EMT WHERE CONCEALED IN WALLS AND CEILINGS. USE RIGID IN SLAB

SWITCHES - 20 AMP, #1221-1, 1222-1, 1223-1, 1224-1 SWITCHES - MOTOR STARTERS, USE SQUARE D CLASS 2510 RECEPTACLES - 15 AMP, #5252-1, 5262-1 FOR GENERAL

RECEPTACLES - GFC1, GF5262-1 (15A), GF5362-1 (20A).

I. EQUIPMENT OUTSIDE MUST BE WEATHERPROOF. USE HEAVY DUTY

J. CONDUIT OUTSIDE MUST BE GALVANIZED STEEL OR PVC, AS NOTED

L. LED FIXTURES SHALL HAVE HOLD DOWN CLIPS. M. REMOVE TEMPORARY WIRING UPON COMPLETION OF WORK. REMOVE UNUSED EXISTING WIRING UPON COMPLETION OF WORK.

N. USE BUSS TYPE LPS OR LPN FUSES FOR MOTORS AND EQUIPMENT.

0. CONTRACTOR SHALL VERIFY LOCATIONS OF ALL UTILITIES, MECHANICAL EQUIPMENT AND EQUIPMENT FURNISHED BY OWNER PRIOR TO ROUGH-IN.

Q. FLUORESCENT FIXTURES SHALL BE FURNISHED WITH ENERGY SAVING

R. METAL HALIDE LAMPS SHALL BE GENERAL ELECTRIC OR SYLVANIA. S. USE "PATE" PIPE SEALS FOR CONDUIT THROUGH ROOF. USE SEALTITE FLEXIBLE CONDUIT FOR EXTERIOR EQUIPMENT.

T. PANELBOARDS SHALL BE GENERAL ELECTRIC OR SQUARE D, UON. U. VERIFY LOCATION OF PANELBOARDS AND SWITCHES WITH ARCHITECT

V. CONTRACTOR SHALL COORDINATE NEW SERVICE REQUIREMENTS WITH THE LOCAL POWER COMPANY AND FURNISH THEM LOAD INFORMATION. FURNISH SERVICE TO TRANSFORMER AS REQUIRED BY THE POWER

W. DO NOT INSTALL MORE CONDUCTORS IN A BRANCH CIRCUIT HOMERUN

X. ALL WORK SHALL BE COORDINATED WITH OWNER'S REPRESENTATIVE. Y. INSTALL CONTROL WIRING IN MINIMUM 1/2" CONDUIT FOR ALL HVAC UNITS TO THERMOSTATS AND ROOFTOP UNITS, ETC. SEE MECHANICAL

Z. USE SEALTITE FLEXIBLE CONDUIT FOR EXTERIOR EQUIPMENT. AA. AIR COOLED DRY TYPE TRANSFORMER SHALL BE SQUARE D OR GENERAL ELECTRIC. TRANSFORMER IS TO MEET NEMA ST20 WITH

BB. LIGHTING CONTACTORS ARE TO BE 20A NEMA ICS2. MECHANICALLY HELD WITH COIL VOLTAGE AS INDICATED. POLES AS INDICATED, PLUS 2 SPARE. ENCLOSURE TO BE ANSI/NEMA ICS 6. TYPE 1. SQUARE D.

CC. TIME CLOCKS ARE TO BE 40A, NEMA ICS, 7 DAY TIMER WITH ASTRONOMICAL DIAL AND 12 HOUR SPRING CARRY OVER. PROVIDE WITH 3 POLES IN ANSI/NEMA ICS 6, TYPE 1 ENCLOSURE. ACCEPTABLE ARE TORK (7200ZL/7302ZL), PARAGON OR INTERMATIC EQUALS.

DD. PHOTOELECTRIC CONTROL SHALL BE FIXED MOUNTED, SPST, WITH 2 MINUTE DELAY AND 2000 WATT CONTACT RATING. INSTALL IN A DIE

EE. RECEPTACLES IN WET LOCATIONS SHALL BE INSTALLED WITH AN LOCATIONS WHILE IN USE". THERE MUST BE A GASKET BETWEEN THE ENCLOSURE AND THE MOUNTING SURFACE, AND BETWEEN THE COVER AND BASE TO ASSURE A PROPER SEAL. THE ENCLOSURE MUST CONSTRUCTED OF IMPACT RESISTANT POLYCARBONATE. THE OUTLET ENCLOSURE SHALL BE LISTED BY UNDERWRITERS LABORATORIES INC. ENCLOSURE MUST BE MANUFACTURED BY TAYMAC CORPORATION OR

AS SCHEDULED ON THE PLANS PROVIDING 1100-1400 LUMENS, MINIMUM, THE BATTERY SHALL BE A NICKEL CADMIUM TYPE, RATED FOR A TEN YEAR LIFE. INCLUDE TEST SWITCH AND AC ON INDICATOR LIGHT, INSTALLED TO BE OPERABLE AND VISIBLE FROM THE OUTSIDE OF AN

	GENERAL ELECIRICAL LEGEND	
SYMBOL	DESCRIPTION	MTG. HGT.
0	CEILING UUILEI, SURFACE FIXTURE	
	CEILING OUTLET, SURFACE FIXTURE, ON CRITICAL CIRCUIT	
$\mathbf{\Theta}$	CEILING OUTLET, SURFACE FIXTURE ON LIFE SAFETY CIRCUIT	
	CETEING OUTLET, SURFACE FIXTURE W/DATTERT DACK UP	
0	CEILING OUTLET, RECESSED FIXTURE	
	CEILING OUTLET, RECESSED FIXTURE ON CRITICAL CIRCUIT	
	CELLING OUTLET. RECESSED EIXTURE ON LIEE SAFETY CIRCUIT	
0		
U	CEILING OUTLET, RECESSED FIXTURE W/BATTERY BACK UP	
Ю	BRACKET OUTLET	
θI	BRACKET OUTLET, ON CRITICAL CIRCUIT	
	DRACKET OUTLET. ON LIFE SAFETT CIRCUIT	
	SURFACE FLUORESCENT LIGHTING FIXTURE	
$\square$	RECESSED FLUORESCENT LIGHTING FIXTURE	
	AREA UR STREET LIGHTING FIXTURE	
- <del>\</del>	BOLLARD STYLE AREA LIGHTING FIXTURE	
$\otimes$	EXIT LIGHT, ARROWS AS SHOWN, ON LIFE SAFETY CIRCUIT	
$\nabla \nabla$	EMERCENCY LICHT WALL MOUNTED AT 7'-6" AFE, UON	
	EMERGENCI LIGHT WALL MOUNTED AT 1 -0 ATT, UON	
S	SINGLE POLE SWITCH	48″ AFF
S3	THREE-WAY SWITCH	48″ AFF
S₄	FOUR-WAY SWITCH	48″ AFF
		A0# +FF
59	UIMMER SWITCH - SLIDE TYPE, WATTAGE AS REQUIRED	48" AFF
So	OCCUPANCY SENSOR - WALL MOUNTED, DUAL TECHNOLOGY	48″ AFF
(PP)	OCCUPANCY SENSOR - POWER PACK	
- -	COULANCE SENSOR - CETEINO MOUNTED: DUAL TECHNULUGT	
Sa	SINGLE POLE SWITCH, LOWER CASE LETTER DENOTES FIXTURE SERVED	48″ AFF
0 0 0	DUPLEX GROUNDING RECEPTACLE	18″ AFF
<b>A</b>	DUPLEX GROUNDING RECEPTACIE	۵RC
0		
۲	FLOOR RECEPTACLE	
θ	SINGLE RECEPTACLE	18″ AFF
€R	RANGE OUTLET	8″ AFF
₩	WASHER DUPLEX RECEPTACLE	48 AFF
€D	DRYER OUTLET	48″ AFF
₽	DOUBLE DUPLEX GROUNDING RECEPTACLE	18″ AFF
	DOUBLE DUPLEX GROUNDING RECEPTACLE RECEPTACLE FOR MICROWAVE - COORDINATE HEIGHT WITH MICROWAVE/CASEWORK	18" AFF
₩ ₩	DOUBLE DUPLEX GROUNDING RECEPTACLE RECEPTACLE FOR MICROWAVE - COORDINATE HEIGHT WITH MICROWAVE/CASEWORK	18" AFF
₩ ₩ ĭv	DOUBLE DUPLEX GROUNDING RECEPTACLE RECEPTACLE FOR MICROWAVE - COORDINATE HEIGHT WITH MICROWAVE/CASEWORK RECEPTACLE FOR TELEVISION - COORDINATE HEIGHT WITH TELEVISION	18" AFF
₩ ₩ TV E	DOUBLE DUPLEX GROUNDING RECEPTACLE RECEPTACLE FOR MICROWAVE - COORDINATE HEIGHT WITH MICROWAVE/CASEWORK RECEPTACLE FOR TELEVISION - COORDINATE HEIGHT WITH TELEVISION RED DUPLEX GROUNDING RECEPTACLE ON EMERGENCY CIRCUIT	18" AFF 18" AFF
₩ ₩ TV E G	DOUBLE DUPLEX GROUNDING RECEPTACLE RECEPTACLE FOR MICROWAVE - COORDINATE HEIGHT WITH MICROWAVE/CASEWORK RECEPTACLE FOR TELEVISION - COORDINATE HEIGHT WITH TELEVISION RED DUPLEX GROUNDING RECEPTACLE ON EMERGENCY CIRCUIT JUNCTION OR PULL BOX	18" AFF 18" AFF
	DOUBLE DUPLEX GROUNDING RECEPTACLE RECEPTACLE FOR MICROWAVE - COORDINATE HEIGHT WITH MICROWAVE/CASEWORK RECEPTACLE FOR TELEVISION - COORDINATE HEIGHT WITH TELEVISION RED DUPLEX GROUNDING RECEPTACLE ON EMERGENCY CIRCUIT JUNCTION OR PULL BOX	18" AFF 18" AFF
	DOUBLE DUPLEX GROUNDING RECEPTACLE RECEPTACLE FOR MICROWAVE - COORDINATE HEIGHT WITH MICROWAVE/CASEWORK RECEPTACLE FOR TELEVISION - COORDINATE HEIGHT WITH TELEVISION RED DUPLEX GROUNDING RECEPTACLE ON EMERGENCY CIRCUIT JUNCTION OR PULL BOX MOTOR, E.F. DENOTES EXHAUST FAN	18" AFF 18" AFF
₩ ₩ ₽ ₽ 0 2 S M	DOUBLE DUPLEX GROUNDING RECEPTACLE RECEPTACLE FOR MICROWAVE - COORDINATE HEIGHT WITH MICROWAVE/CASEWORK RECEPTACLE FOR TELEVISION - COORDINATE HEIGHT WITH TELEVISION RED DUPLEX GROUNDING RECEPTACLE ON EMERGENCY CIRCUIT JUNCTION OR PULL BOX MOTOR, E.F. DENOTES EXHAUST FAN MANUAL MOTOR STARTER OR RELAY CONTROL	18" AFF 18" AFF
₩ ₩ E O O S M X	DOUBLE DUPLEX GROUNDING RECEPTACLE RECEPTACLE FOR MICROWAVE - COORDINATE HEIGHT WITH MICROWAVE/CASEWORK RECEPTACLE FOR TELEVISION - COORDINATE HEIGHT WITH TELEVISION RED DUPLEX GROUNDING RECEPTACLE ON EMERGENCY CIRCUIT JUNCTION OR PULL BOX MOTOR, E.F. DENOTES EXHAUST FAN MANUAL MOTOR STARTER OR RELAY CONTROL MAGNETIC MOTOR STARTER OR TERMINAL CONNECTION	18" AFF
L⊠ % ∂ ⊕ M ⊕ M ⊕ M ⊕ M ⊕ M ⊕ M ⊕ M ⊕	DOUBLE DUPLEX GROUNDING RECEPTACLE RECEPTACLE FOR MICROWAVE - COORDINATE HEIGHT WITH MICROWAVE/CASEWORK RECEPTACLE FOR TELEVISION - COORDINATE HEIGHT WITH TELEVISION RED DUPLEX GROUNDING RECEPTACLE ON EMERGENCY CIRCUIT JUNCTION OR PULL BOX MOTOR, E.F. DENOTES EXHAUST FAN MANUAL MOTOR STARTER OR RELAY CONTROL MAGNETIC MOTOR STARTER OR TERMINAL CONNECTION SAFETY SWITCH, WP INDICATES NEMA 3R, FUSED, U.O.N.	18" AFF
	DOUBLE DUPLEX GROUNDING RECEPTACLE RECEPTACLE FOR MICROWAVE - COORDINATE HEIGHT WITH MICROWAVE/CASEWORK RECEPTACLE FOR TELEVISION - COORDINATE HEIGHT WITH TELEVISION RED DUPLEX GROUNDING RECEPTACLE ON EMERGENCY CIRCUIT JUNCTION OR PULL BOX MOTOR, E.F. DENOTES EXHAUST FAN MANUAL MOTOR STARTER OR RELAY CONTROL MAGNETIC MOTOR STARTER OR TERMINAL CONNECTION SAFETY SWITCH, WP INDICATES NEMA 3R, FUSED, U.O.N.	18" AFF
₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩	DOUBLE DUPLEX GROUNDING RECEPTACLE RECEPTACLE FOR MICROWAVE - COORDINATE HEIGHT WITH MICROWAVE/CASEWORK RECEPTACLE FOR TELEVISION - COORDINATE HEIGHT WITH TELEVISION RED DUPLEX GROUNDING RECEPTACLE ON EMERGENCY CIRCUIT JUNCTION OR PULL BOX MOTOR, E.F. DENOTES EXHAUST FAN MANUAL MOTOR STARTER OR RELAY CONTROL MAGNETIC MOTOR STARTER OR TERMINAL CONNECTION SAFETY SWITCH, WP INDICATES NEMA 3R, FUSED, U.O.N. LIGHTING OR POWER PANEL	18" AFF
Ф № ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓	DOUBLE DUPLEX GROUNDING RECEPTACLE RECEPTACLE FOR MICROWAVE - COORDINATE HEIGHT WITH MICROWAVE/CASEWORK RECEPTACLE FOR TELEVISION - COORDINATE HEIGHT WITH TELEVISION RED DUPLEX GROUNDING RECEPTACLE ON EMERGENCY CIRCUIT JUNCTION OR PULL BOX MOTOR, E.F. DENOTES EXHAUST FAN MANUAL MOTOR STARTER OR RELAY CONTROL MAGNETIC MOTOR STARTER OR TERMINAL CONNECTION SAFETY SWITCH, WP INDICATES NEMA 3R, FUSED, U.O.N. LIGHTING OR POWER PANEL MAIN OR SUB-DISTRIBUTION PANEL	18" AFF
	DOUBLE DUPLEX GROUNDING RECEPTACLE RECEPTACLE FOR MICROWAVE - COORDINATE HEIGHT WITH MICROWAVE/CASEWORK RECEPTACLE FOR TELEVISION - COORDINATE HEIGHT WITH TELEVISION RED DUPLEX GROUNDING RECEPTACLE ON EMERGENCY CIRCUIT JUNCTION OR PULL BOX MOTOR. E.F. DENOTES EXHAUST FAN MANUAL MOTOR STARTER OR RELAY CONTROL MAGNETIC MOTOR STARTER OR TERMINAL CONNECTION SAFETY SWITCH. WP INDICATES NEMA 3R. FUSED. U.O.N. LIGHTING OR POWER PANEL MAIN OR SUB-DISTRIBUTION PANEL AUTOMATIC TRANSFER SWITCH	18" AFF
	DOUBLE DUPLEX GROUNDING RECEPTACLE RECEPTACLE FOR MICROWAVE - COORDINATE HEIGHT WITH MICROWAVE/CASEWORK RECEPTACLE FOR TELEVISION - COORDINATE HEIGHT WITH TELEVISION RED DUPLEX GROUNDING RECEPTACLE ON EMERGENCY CIRCUIT JUNCTION OR PULL BOX MOTOR, E.F. DENOTES EXHAUST FAN MANUAL MOTOR STARTER OR RELAY CONTROL MAGNETIC MOTOR STARTER OR TERMINAL CONNECTION SAFETY SWITCH, WP INDICATES NEMA 3R, FUSED, U.O.N. LIGHTING OR POWER PANEL MAIN OR SUB-DISTRIBUTION PANEL AUTOMATIC TRANSFER SWITCH	18" AFF
	DOUBLE DUPLEX GROUNDING RECEPTACLE RECEPTACLE FOR MICROWAVE - COORDINATE HEIGHT WITH MICROWAVE/CASEWORK RECEPTACLE FOR TELEVISION - COORDINATE HEIGHT WITH TELEVISION RED DUPLEX GROUNDING RECEPTACLE ON EMERGENCY CIRCUIT JUNCTION OR PULL BOX MOTOR, E.F. DENOTES EXHAUST FAN MANUAL MOTOR STARTER OR RELAY CONTROL MAGNETIC MOTOR STARTER OR TERMINAL CONNECTION SAFETY SWITCH, WP INDICATES NEMA 3R, FUSED, U.O.N. LIGHTING OR POWER PANEL MAIN OR SUB-DISTRIBUTION PANEL AUTOMATIC TRANSFER SWITCH TRANSFER SWITCH	18" AFF
	DOUBLE DUPLEX GROUNDING RECEPTACLE RECEPTACLE FOR MICROWAVE - COORDINATE HEIGHT WITH MICROWAVE/CASEWORK RECEPTACLE FOR TELEVISION - COORDINATE HEIGHT WITH TELEVISION RED DUPLEX GROUNDING RECEPTACLE ON EMERGENCY CIRCUIT JUNCTION OR PULL BOX MOTOR, E.F. DENOTES EXHAUST FAN MANUAL MOTOR STARTER OR RELAY CONTROL MAGNETIC MOTOR STARTER OR TERMINAL CONNECTION SAFETY SWITCH, WP INDICATES NEMA 3R, FUSED, U.O.N. LIGHTING OR POWER PANEL MAIN OR SUB-DISTRIBUTION PANEL AUTOMATIC TRANSFER SWITCH TRANSFORMER	18" AFF
	DUBLE DUPLEX GROUNDING RECEPTACLE RECEPTACLE FOR MICROWAVE - COORDINATE HEIGHT WITH MICROWAVE/CASEWORK RECEPTACLE FOR TELEVISION - COORDINATE HEIGHT WITH TELEVISION RED DUPLEX GROUNDING RECEPTACLE ON EMERGENCY CIRCUIT JUNCTION OR PULL BOX MOTOR, E.F. DENOTES EXHAUST FAN MANUAL MOTOR STARTER OR RELAY CONTROL MAGNETIC MOTOR STARTER OR TERMINAL CONNECTION SAFETY SWITCH, WP INDICATES NEMA 3R, FUSED, U.O.N. LIGHTING OR POWER PANEL AUTOMATIC TRANSFER SWITCH MANUAL TRANSFER SWITCH TIME CLOCK - SEE SPECS	18" AFF
	DOUBLE DUPLEX GROUNDING RECEPTACLE RECEPTACLE FOR MICROWAVE - COORDINATE HEIGHT WITH MICROWAVE/CASEWORK RECEPTACLE FOR TELEVISION - COORDINATE HEIGHT WITH TELEVISION RED DUPLEX GROUNDING RECEPTACLE ON EMERGENCY CIRCUIT JUNCTION OR PULL BOX MOTOR, E.F. DENOTES EXHAUST FAN MANUAL MOTOR STARTER OR RELAY CONTROL MAGNETIC MOTOR STARTER OR TERMINAL CONNECTION SAFETY SWITCH, WP INDICATES NEMA 3R, FUSED, U.O.N. LIGHTING OR POWER PANEL MAIN OR SUB-DISTRIBUTION PANEL AUTOMATIC TRANSFER SWITCH MANUAL TRANSFER SWITCH TRANSFORMER TIME CLOCK - SEE SPECS CONTACTOR - SEE SPECS	18" AFF
	DOUBLE DUPLEX GROUNDING RECEPTACLE RECEPTACLE FOR MICROWAVE - COORDINATE HEIGHT WITH MICROWAVE/CASEWORK RECEPTACLE FOR TELEVISION - COORDINATE HEIGHT WITH TELEVISION RED DUPLEX GROUNDING RECEPTACLE ON EMERGENCY CIRCUIT JUNCTION OR PULL BOX MOTOR, E.F. DENOTES EXHAUST FAN MANUAL MOTOR STARTER OR RELAY CONTROL MAGNETIC MOTOR STARTER OR TERMINAL CONNECTION SAFETY SWITCH, WP INDICATES NEMA 3R, FUSED, U.O.N. LIGHTING OR POWER PANEL MAIN OR SUB-DISTRIBUTION PANEL AUTOMATIC TRANSFER SWITCH MANUAL TRANSFER SWITCH TRANSFORMER TIME CLOCK - SEE SPECS CONTACTOR - SEE SPECS	18" AFF
	DOUBLE DUPLEX GROUNDING RECEPTACLE RECEPTACLE FOR MICROWAVE - COORDINATE HEIGHT WITH MICROWAVE/CASEWORK RECEPTACLE FOR TELEVISION - COORDINATE HEIGHT WITH TELEVISION RED DUPLEX GROUNDING RECEPTACLE ON EMERGENCY CIRCUIT JUNCTION OR PULL BOX MOTOR, E.F. DENOTES EXHAUST FAN MANUAL MOTOR STARTER OR RELAY CONTROL MAGNETIC MOTOR STARTER OR TERMINAL CONNECTION SAFETY SWITCH, WP INDICATES NEMA 3R, FUSED, U.O.N. LIGHTING OR POWER PANEL MAIN OR SUB-DISTRIBUTION PANEL AUTOMATIC TRANSFER SWITCH MANUAL TRANSFER SWITCH TRANSFORMER TIME CLOCK - SEE SPECS PHOTO-ELECTRIC SWITCH - AIM NORTHEAST, SEE SPECS TUEDNOCTAL SEE WEGUANDON	18" AFF
	DOUBLE DUPLEX GROUNDING RECEPTACLE RECEPTACLE FOR MICROWAVE - COORDINATE HEIGHT WITH MICROWAVE/CASEWORK RECEPTACLE FOR TELEVISION - COORDINATE HEIGHT WITH TELEVISION RED DUPLEX GROUNDING RECEPTACLE ON EMERGENCY CIRCUIT JUNCTION OR PULL BOX MOTOR. E.F. DENOTES EXHAUST FAN MANUAL MOTOR STARTER OR RELAY CONTROL MAGNETIC MOTOR STARTER OR TERMINAL CONNECTION SAFETY SWITCH, WP INDICATES NEMA 3R, FUSED, U.O.N. LIGHTING OR POWER PANEL MAIN OR SUB-DISTRIBUTION PANEL AUTOMATIC TRANSFER SWITCH TRANSFORMER TIME CLOCK - SEE SPECS CONTACTOR - SEE SPECS PHOTO-ELECTRIC SWITCH - AIM NORTHEAST, SEE SPECS THERMOSTAT, SEE MECHANICAL	18" AFF
	DOUBLE DUPLEX GROUNDING RECEPTACLE RECEPTACLE FOR MICROWAVE - COORDINATE HEIGHT WITH MICROWAVE/CASEWORK RECEPTACLE FOR TELEVISION - COORDINATE HEIGHT WITH TELEVISION RED DUPLEX GROUNDING RECEPTACLE ON EMERGENCY CIRCUIT JUNCTION OR PULL BOX MOTOR, E.F. DENOTES EXHAUST FAN MANUAL MOTOR STARTER OR RELAY CONTROL MAGNETIC MOTOR STARTER OR TERMINAL CONNECTION SAFETY SWITCH, WP INDICATES NEMA 3R, FUSED, U.O.N. LIGHTING OR POWER PANEL MAIN OR SUB-DISTRIBUTION PANEL AUTOMATIC TRANSFER SWITCH TRANSFORMER TIME CLOCK - SEE SPECS CONTACTOR - SEE SPECS PHOTO-ELECTRIC SWITCH - AIM NORTHEAST, SEE SPECS THERMOSTAT, SEE MECHANICAL GENERATOR ALARM PANEL	18" AFF
	DOUBLE DUPLEX GROUNDING RECEPTACLE RECEPTACLE FOR MICROWAVE - COORDINATE HEIGHT WITH MICROWAVE/CASEWORK RECEPTACLE FOR TELEVISION - COORDINATE HEIGHT WITH TELEVISION RED DUPLEX GROUNDING RECEPTACLE ON EMERGENCY CIRCUIT JUNCTION OR PULL BOX MOTOR, E.F. DENOTES EXHAUST FAN MANUAL MOTOR STARTER OR RELAY CONTROL MAGNETIC MOTOR STARTER OR TERMINAL CONNECTION SAFETY SWITCH, WP INDICATES NEMA 3R, FUSED, U.O.N. LIGHTING OR POWER PANEL MAIN OR SUB-DISTRIBUTION PANEL AUTOMATIC TRANSFER SWITCH TRANSFORMER TIME CLOCK - SEE SPECS CONTACTOR - SEE SPECS PHOTO-ELECTRIC SWITCH - AIM NORTHEAST, SEE SPECS THERMOSTAT, SEE MECHANICAL GENERATOR ALARM PANEL CONDUIT, CONCEALED IN CEILING OR WALL	18" AFF
	DOUBLE DUPLEX CROUNDING RECEPTACLE RECEPTACLE FOR MICROWAVE - COORDINATE HEIGHT WITH MICROWAVE/CASEWORK RECEPTACLE FOR TELEVISION - COORDINATE HEIGHT WITH TELEVISION RED DUPLEX GROUNDING RECEPTACLE ON EMERGENCY CIRCUIT JUNCTION OR PULL BOX MOTOR, E.F. DENOTES EXHAUST FAN MANUAL MOTOR STARTER OR RELAY CONTROL MAGNETIC MOTOR STARTER OR TERMINAL CONNECTION SAFETY SWITCH, WP INDICATES NEMA 3R, FUSED, U.O.N. LIGHTING OR POWER PANEL AUTOMATIC TRANSFER SWITCH MANUAL TRANSFER SWITCH TRANSFORMER TIME CLOCK - SEE SPECS PHOTO-ELECTRIC SWITCH - AIM NORTHEAST, SEE SPECS THERMOSTAT, SEE MECHANICAL GENERATOR ALARM PANEL CONDUIT, CONCEALED IN CEILING OR WALL CONDUIT, CONCEALED IN SLAB OR BELOW FLOOR/GRADE	18" AFF
	DOUBLE DUPLEX GROUNDING RECEPTACLE RECEPTACLE FOR MICROWAVE - COORDINATE HEIGHT WITH MICROWAVE/CASEWORK RECEPTACLE FOR TELEVISION - COORDINATE HEIGHT WITH TELEVISION RED DUPLEX GROUNDING RECEPTACLE ON EMERGENCY CIRCUIT JUNCTION OR PULL BOX MOTOR, E.F. DENOTES EXHAUST FAN MANUAL MOTOR STARTER OR RELAY CONTROL MAGNETIC MOTOR STARTER OR RELAY CONTROL SAFETY SWITCH, WP INDICATES NEMA 3R, FUSED, U.O.N. LIGHTING OR POWER PANEL MAIN OR SUB-DISTRIBUTION PANEL AUTOMATIC TRANSFER SWITCH MANUAL TRANSFER SWITCH TRANSFORMER TIME CLOCK - SEE SPECS PHOTO-ELECTRIC SWITCH - AIM NORTHEAST, SEE SPECS THERMOSTAT, SEE MECHANICAL GENERATOR ALARM PANEL CONDUIT, CONCEALED IN SLAB OR BELOW FLOOR/GRADE	18" AFF
	DOUBLE DUPLEX GROUNDING RECEPTACLE RECEPTACLE FOR MICROWAVE - COORDINATE HEIGHT WITH MICROWAVE/CASEWORK RECEPTACLE FOR TELEVISION - COORDINATE HEIGHT WITH TELEVISION RED DUPLEX GROUNDING RECEPTACLE ON EMERGENCY CIRCUIT JUNCTION OR PULL BOX MOTOR, E.F. DENOTES EXHAUST FAN MANUAL MOTOR STARTER OR RELAY CONTROL MAGNETIC MOTOR STARTER OR TERMINAL CONNECTION SAFETY SWITCH, WP INDICATES NEMA 3R, FUSED, U.O.N. LIGHTING OR POWER PANEL MAIN OR SUB-DISTRIBUTION PANEL AUTOMATIC TRANSFER SWITCH TRANSFORMER TIME CLOCK - SEE SPECS CONTACTOR - SEE SPECS PHOTO-ELECTRIC SWITCH - AIM NORTHEAST, SEE SPECS THERMOSTAT, SEE MECHANICAL GENERATOR ALARM PANEL CONDUIT, CONCEALED IN SLAB OR BELOW FLOOR/GRADE CONDUIT, EXPOSED	18" AFF
	DOUBLE DUPLEX GROUNDING RECEPTACLE RECEPTACLE FOR MICROWAVE - COORDINATE HEIGHT WITH MICROWAVE/CASEWORK RECEPTACLE FOR TELEVISION - COORDINATE HEIGHT WITH TELEVISION RED DUPLEX GROUNDING RECEPTACLE ON EMERGENCY CIRCUIT JUNCTION OR PULL BOX MOTOR, E.F. DENOTES EXHAUST FAN MANUAL MOTOR STARTER OR RELAY CONTROL MAGNETIC MOTOR STARTER OR TERMINAL CONNECTION SAFETY SWITCH, WP INDICATES NEMA 3R, FUSED, U.O.N. LIGHTING OR POWER PANEL MAIN OR SUB-DISTRIBUTION PANEL AUTOMATIC TRANSFER SWITCH TRANSFORMER TIME CLOCK - SEE SPECS CONTACTOR - SEE SPECS PHOTO-ELECTRIC SWITCH - AIM NORTHEAST, SEE SPECS THERMOSTAT, SEE MECHANICAL GENERATOR ALARM PANEL CONDUIT, CONCEALED IN SLAB OR BELOW FLOOR/GRADE CONDUIT, TURNING UP	18" AFF
	DOUBLE DUPLEX GROUNDING RECEPTACLE RECEPTACLE FOR MICROWAVE - COORDINATE HEIGHT WITH MICROWAVE/CASEWORK RECEPTACLE FOR TELEVISION - COORDINATE HEIGHT WITH TELEVISION RED DUPLEX GROUNDING RECEPTACLE ON EMERGENCY CIRCUIT JUNCTION OR PULL BOX MOTOR, E.F. DENOTES EXHAUST FAN MANUAL MOTOR STARTER OR RELAY CONTROL MAGNETIC MOTOR STARTER OR TERMINAL CONNECTION SAFETY SWITCH, WP INDICATES NEMA 3R, FUSED, U.O.N. LIGHTING OR POWER PANEL MAIN OR SUB-DISTRIBUTION PANEL AUTOMATIC TRANSFER SWITCH TRANSFORMER TIME CLOCK - SEE SPECS CONTACTOR - SEE SPECS PHOTO-ELECTRIC SWITCH - AIM NORTHEAST, SEE SPECS THERMOSTAT, SEE MECHANICAL GENERATOR ALARM PANEL CONDUIT, CONCEALED IN CEILING OR WALL CONDUIT, CONCEALED IN SLAB OR BELOW FLOOR/GRADE CONDUIT, TURNING DOWN	18" AFF
	DOUBLE DUPLEX GROUNDING RECEPTACLE RECEPTACLE FOR MICROWAVE - COORDINATE HEIGHT WITH MICROWAVE/CASEWORK RECEPTACLE FOR TELEVISION - COORDINATE HEIGHT WITH TELEVISION RED DUPLEX GROUNDING RECEPTACLE ON EMERGENCY CIRCUIT JUNCTION OR PULL BOX MOTOR, E.F. DENOTES EXHAUST FAN MANUAL MOTOR STARTER OR RELAY CONTROL MAGNETIC MOTOR STARTER OR TERMINAL CONNECTION SAFETY SWITCH, WP INDICATES NEMA 3R, FUSED, U.O.N. LIGHTING OR POWER PANEL MAIN OR SUB-DISTRIBUTION PANEL AUTOMATIC TRANSFER SWITCH TRANSFORMER TIME CLOCK - SEE SPECS CONTACTOR - SEE SPECS PHOTO-ELECTRIC SWITCH - AIM NORTHEAST, SEE SPECS THERMOSTAT, SEE MECHANICAL GENERATOR ALARM PANEL CONDUIT, CONCEALED IN CEILING OR WALL CONDUIT, CONCEALED IN SLAB OR BELOW FLOOR/GRADE CONDUIT, TURNING UP CONDUIT, TURNING DWM CONDUIT, ELECTRICAL PRIMARY	18" AFF
	DOUBLE DUPLEX GROUNDING RECEPTACLE RECEPTACLE FOR MICROWAVE - COORDINATE HEIGHT WITH MICROWAVE/CASEWORK RECEPTACLE FOR TELEVISION - COORDINATE HEIGHT WITH TELEVISION RED DUPLEX GROUNDING RECEPTACLE ON EMERGENCY CIRCUIT JUNCTION OR PULL BOX MOTOR, E.F. DENOTES EXHAUST FAN MANUAL MOTOR STARTER OR RELAY CONTROL MAGNETIC MOTOR STARTER OR TERMINAL CONNECTION SAFETY SWITCH, WP INDICATES NEMA 3R, FUSED, U.O.N. LIGHTING OR POWER PANEL MAIN OR SUB-DISTRIBUTION PANEL AUTOMATIC TRANSFER SWITCH TRANSFORMER TIME CLOCK - SEE SPECS CONTACTOR - SEE SPECS CONTACTOR - SEE SPECS THERMOSTAT, SEE MECHANICAL GENERATOR ALARM PANEL CONDUIT, CONCEALED IN SLAB OR BELOW FLOOR/GRADE CONDUIT, ELECTRICAL PRIMARY CONDUIT, ELECTRICAL PRIMARY	18" AFF
	DOUBLE DUPLEX GROUNDING RECEPTACLE RECEPTACLE FOR MICROWAVE - COORDINATE HEIGHT WITH MICROWAVE/CASEWORK RECEPTACLE FOR TELEVISION - COORDINATE HEIGHT WITH TELEVISION RED DUPLEX GROUNDING RECEPTACLE ON EMERGENCY CIRCUIT JUNCTION OR PULL BOX MOTOR, E.F. DENOTES EXHAUST FAN MANUAL MOTOR STARTER OR RELAY CONTROL MAGNETIC MOTOR STARTER OR TERMINAL CONNECTION SAFETY SWITCH. WP INDICATES NEMA 3R. FUSED. U.O.N. LIGHTING OR POWER PANEL MAIN OR SUB-DISTRIBUTION PANEL AUTOMATIC TRANSFER SWITCH TRANSFORMER TIME CLOCK - SEE SPECS CONTACTOR - SEE SPECS PHOTO-ELECTRIC SWITCH - AIM NORTHEAST. SEE SPECS THERMOSTAT. SEE MECHANICAL GENERATOR ALARM PANEL CONDUIT. CONCEALED IN SLAB OR BELOW FLOOR/GRADE CONDUIT. TURNING UP CONDUIT. TURNING DOWN CONDUIT. ELECTRICAL SECONDARY	18" AFF
	DOUBLE DUPLEX GROUNDING RECEPTACLE RECEPTACLE FOR MICROWAVE - COORDINATE HEIGHT WITH MICROWAVE/CASEWORK RECEPTACLE FOR TELEVISION - COORDINATE HEIGHT WITH TELEVISION RED DUPLEX GROUNDING RECEPTACLE ON EMERGENCY CIRCUIT JUNCTION OR PULL BOX MOTOR, E.F. DENOTES EXHAUST FAN MANUAL MOTOR STARTER OR RELAY CONTROL MAGNETIC MOTOR STARTER OR TERMINAL CONNECTION SAFETY SWITCH. WP INDICATES NEMA 3R. FUSED. U.O.N. LIGHTING OR POWER PANEL MAIN OR SUB-DISTRIBUTION PANEL AUTOMATIC TRANSFER SWITCH MANUAL TRANSFER SWITCH TRANSFORMER TIME CLOCK - SEE SPECS CONTACTOR - SEE SPECS CONTACTOR - SEE SPECS THERMOSTAT. SEE MECHANICAL GENERATOR ALARM PANEL CONDUIT. CONCEALED IN SLAB OR BELOW FLOOR/GRADE CONDUIT. CONCEALED IN SLAB OR BELOW FLOOR/GRADE CONDUIT. TURNING UP CONDUIT. TURNING DOWN CONDUIT. LELECTRICAL PRIMARY CONDUIT. FLEXENCE TO SUITCH ONNECTION POINT	18" AFF
	DOUBLE DUPLEX GROUNDING RECEPTACLE RECEPTACLE FOR MICROWAVE - COORDINATE HEIGHT WITH MICROWAVE/CASEWORK RECEPTACLE FOR TELEVISION - COORDINATE HEIGHT WITH MICROWAVE/CASEWORK RECEPTACLE FOR TELEVISION - COORDINATE HEIGHT WITH MICROWAVE/CASEWORK RED DUPLEX GROUNDING RECEPTACLE ON EMERGENCY CIRCUIT JUNCTION OR PULL BOX MOTOR, E.F. DENOTES EXHAUST FAN MANUAL MOTOR STARTER OR RELAY CONTROL MAGNETIC MOTOR STARTER OR REMAY CONNECTION SAFETY SWITCH, WP INDICATES NEMA 3R, FUSED, U.O.N. LIGHTING OR POWER PANEL MAIN OR SUB-DISTRIBUTION PANEL AUTOMATIC TRANSFER SWITCH TRANSFORMER TIME CLOCK - SEE SPECS CONTACTOR - SEE SPECS CONTACTOR - SEE SPECS PHOTO-ELECTRIC SWITCH - AIM NORTHEAST, SEE SPECS THERMOSTAT, SEE MECHANICAL GENERATOR ALARM PANEL CONDUIT, CONCEALED IN CEILING OR WALL CONDUIT, CONCEALED IN SLAB OR BELOW FLOOR/GRADE CONDUIT, TURNING UP CONDUIT, TURNING DOWN CONDUIT, ELECTRICAL SECONDARY CONDUIT, FLEXIBLE TO EOUIPMENT CONNECTION POINT ABOVE COUNTER	18" AFF
	DOUBLE DUPLEX GROUNDING RECEPTACLE RECEPTACLE FOR MICROWAVE - COORDINATE HEIGHT WITH MICROWAVE/CASEWORK RECEPTACLE FOR TELEVISION - COORDINATE HEIGHT WITH MICROWAVE/CASEWORK RECEPTACLE FOR TELEVISION - COORDINATE HEIGHT WITH MICROWAVE/CASEWORK RED DUPLEX GROUNDING RECEPTACLE ON EMERGENCY CIRCUIT JUNCTION OR PULL BOX MOTOR. E.F. DENOTES EXHAUST FAN MANUAL MOTOR STARTER OR RELAY CONTROL MAGNETIC MOTOR STARTER OR RELAY CONTROL MAGNETIC MOTOR STARTER OR RELAY CONNECTION SAFETY SWITCH. WP INDICATES NEMA 3R. FUSED. U.O.N. LIGHTING OR POWER PANEL MAIN OR SUB-DISTRIBUTION PANEL AUTOMATIC TRANSFER SWITCH TRANSFORMER TIME CLOCK - SEE SPECS CONTACTOR - SEE SPECS CONTACTOR - SEE SPECS PHOTO-ELECTRIC SWITCH - AIM NORTHEAST. SEE SPECS THERMOSTAT. SEE MECHANICAL GENERATOR ALARM PANEL CONDUIT. CONCEALED IN CEILING OR WALL CONDUIT. CONCEALED IN SLAB OR BELOW FLOOR/GRADE CONDUIT. TURNING UP CONDUIT. TURNING UP CONDUIT. FLECTRICAL SECONDARY CONDUIT. FLECTRICAL SECONDARY CONDUIT. FLECTRICAL SECONDARY CONDUIT. FLECTRICAL SECONDARY	18" AFF
	DOUBLE DUPLEX GROUNDING RECEPTACLE RECEPTACLE FOR MICROWAVE - COORDINATE HEIGHT WITH MICROWAVE/CASEWORK RECEPTACLE FOR TELEVISION - COORDINATE HEIGHT WITH TELEVISION RED DUPLEX GROUNDING RECEPTACLE ON EMERGENCY CIRCUIT JUNCTION OR PULL BOX MOTOR. E.F. DENOTES EXHAUST FAN MANUAL MOTOR STARTER OR RELAY CONTROL MAGNETIC MOTOR STARTER OR TERMINAL CONNECTION SAFETY SWITCH, WP INDICATES NEMA 3R, FUSED, U.O.N. LIGHTING OR POWER PANEL MAINO R SUB-DISTRIBUTION PANEL AUTOMATIC TRANSFER SWITCH TRANSFORMER TIME CLOCK - SEE SPECS CONTACTOR - SEE SPECS PHOTO-ELECTRIC SWITCH - AIM NORTHEAST, SEE SPECS THERMOSTAT, SEE MECHANICAL GENERATOR ALARM PANEL CONDUIT, CONCEALED IN SLAB OR BELOW FLOOR/GRADE CONDUIT, TURNING DOWN CONDUIT, TURNING DOWN CONDUIT, FLEXIBLE TO EOUIPMENT CONNECTION POINT ABOVE COUNTER ABOVE FINISHED FLOOR	18" AFF
MW ⊕ TV ⊕ E ⊕ ③ ○	DOUBLE DUPLEX GROUNDING RECEPTACLE RECEPTACLE FOR MICROWAVE - COORDINATE HEIGHT WITH MICROWAVE/CASEWORK RECEPTACLE FOR TELEVISION - COORDINATE HEIGHT WITH TELEVISION RED DUPLEX GROUNDING RECEPTACLE ON EMERGENCY CIRCUIT JUNCTION OR PULL BOX MOTOR, E.F. DENOTES EXHAUST FAN MANUAL MOTOR STARTER OR RELAY CONTROL MAGNETIC MOTOR STARTER OR TERMINAL CONNECTION SAFETY SWITCH, WP INDICATES NEMA 3R, FUSED, U.O.N. LIGHTING OR POWER PANEL MAINOR SUB-DISTRIBUTION PANEL AUTOMATIC TRANSFER SWITCH TRANSFORMER TIME CLOCK - SEE SPECS CONTACTOR - SEE SPECS PHOTO-ELECTRIC SWITCH - AIM NORTHEAST, SEE SPECS THERMOSTAT, SEE MECHANICAL CONDUIT, CONCEALED IN SLAB OR BELOW FLOOR/GRADE CONDUIT, TURNING DOWN CONDUIT, TURNING DOWN CONDUIT, TURNING DOWN CONDUIT, FLEXIENT CONNECTION POINT ABOVE CUINTER ABOVE FINISHED FLOOR ENCLOSED CIRCUIT BREAKER	18" AFF
	DOUBLE DUPLEX GROUNDING RECEPTACLE RECEPTACLE FOR MICROWAVE - COORDINATE HEIGHT WITH MICROWAVE/CASEWORK RECEPTACLE FOR TELEVISION - COORDINATE HEIGHT WITH TELEVISION RED DUPLEX GROUNDING RECEPTACLE ON EMERGENCY CIRCUIT JUNCTION OR PULL BOX MOTOR, E.F. DENDTES EXHAUST FAN MANUAL MOTOR STARTER OR RELAY CONTROL MAGNETIC MOTOR STARTER OR TERMINAL CONNECTION SAFETY SWITCH. WP INDICATES NEMA 3R, FUSED, U.O.N. LIGHTING OR POWER PANEL MAIN OR SUB-DISTRIBUTION PANEL AUTOMATIC TRANSFER SWITCH TRANSFORMER TIME CLOCK - SEE SPECS CONTACTOR - SEE SPECS PHOTO-ELECTRIC SWITCH - AIM NORTHEAST, SEE SPECS THERMOSTAT. SEE MECHANICAL GENERATOR ALARM PANEL CONDUIT. CONCEALED IN CEILING OR WALL CONDUIT. TURNING UP CONDUIT. TURNING DUWN CONDUIT. TURNING DUWN CONDUIT, FLEZTRICAL PRIMARY CONDUIT, FLEXTRAL PRIMARY EDENTATION ENCLOSE CIRCUIT BREAKER ELECTRIC DRINKING FOUNTAIN	18" AFF
	DOUBLE DUPLEX GROUNDING RECEPTACLE RECEPTACLE FOR MICROWAVE - COORDINATE HEIGHT WITH MICROWAVE/CASEWORK RECEPTACLE FOR TELEVISION - COORDINATE HEIGHT WITH TELEVISION RED DUPLEX GROUNDING RECEPTACLE ON EMERGENCY CIRCUIT JUNCTION OR PULL BOX MOTOR, E.F. DENOTES EXHAUST FAN MANUAL MOTOR STARTER OR RELAY CONTROL MAGNETIC MOTOR STARTER OR TERMINAL CONNECTION SAFETY SWITCH, WP INDICATES NEMA 3R, FUSED, U.O.N. LIGHTING OR POWER PANEL MAIN OR SUB-DISTRIBUTION PANEL AUTOMATIC TRANSFER SWITCH TRANSFORMER TIME CLOCK - SEE SPECS CONTACTOR - SEE SPECS PHOTO-ELECTRIC SWITCH - AIM NORTHEAST, SEE SPECS THERMOSTAT, SEE MECHANICAL GENERATOR ALARM PANEL CONDUIT, CONCEALED IN CEILING OR WALL CONDUIT, CONCEALED IN SLAB OR BELOW FLOOR/GRADE CONDUIT, TURNING DOWN CONDUIT, FLEXIBLE TO EQUIPMENT CONNECTION POINT ABOVE COUNTER ABOVE FINISHED FLOOR ELECTRIC DRINKING FOUNTAIN	18" AFF
	DOUBLE DUPLEX GROUNDING RECEPTACLE RECEPTACLE FOR MICROWAVE - COORDINATE HEIGHT WITH MICROWAVE/CASEWORK RECEPTACLE FOR TELEVISION - COORDINATE HEIGHT WITH TELEVISION RED DUPLEX GROUNDING RECEPTACLE ON EMERGENCY CIRCUIT JUNCTION OR PULL BOX MOTOR. E.F. DENOTES EXHAUST FAN MANUAL MOTOR STARTER OR RELAY CONTROL MAGNETIC MOTOR STARTER OR TERMINAL CONNECTION SAFETY SWITCH, WP INDICATES NEMA 3R, FUSED, U.O.N. LIGHTING OR POWER PANEL MAIN OR SUB-DISTRIBUTION PANEL AUTOMATIC TRANSFER SWITCH TRANSFORMER TIME CLOCK - SEE SPECS CONTACTOR - SEE SPECS PHOTO-ELECTRIC SWITCH - AIM NORTHEAST, SEE SPECS THERMOSTAT, SEE MECHANICAL GENERATOR ALARM PANEL CONDUIT, CONCEALED IN SLAB OR BELOW FLOOR/GRADE CONDUIT, URNING ODWN CONDUIT, URNING DOWN CONDUIT, ELECTRICAL PRIMARY CONDUIT, ELECTRICAL PRIMARY CONDUIT, FLEXIBLE TO EOUIPMENT CONNECTION POINT ABOVE COUNTER ABOVE FINISHED FLOOR ENCLOSED CIRCUIT BREAKER ELECTRIC DRINKING FOUNTAIN FURNISHED BY OTHERS	18" AFF
	DOUBLE DUPLEX GROUNDING RECEPTACLE RECEPTACLE FOR MICROWAVE - COORDINATE HEIGHT WITH MICROWAVE/CASEWORK RECEPTACLE FOR TELEVISION - COORDINATE HEIGHT WITH TELEVISION RED DUPLEX GROUNDING RECEPTACLE ON EMERGENCY CIRCUIT JUNCTION OR PULL BOX MOTOR, E.F. DENOTES EXHAUST FAN MANUAL MOTOR STARTER OR RELAY CONTROL MAGNETIC MOTOR STARTER OR TERMINAL CONNECTION SAFETY SWITCH. WP INDICATES NEMA 3R, FUSED, U.D.N. LIGHTING OR POWER PANEL MAIN OR SUB-DISTRIBUTION PANEL AUTOMATIC TRANSFER SWITCH TRANSFORMER TIME CLOCK - SEE SPECS CONTACTOR - SEE SPECS CONTACTOR - SEE SPECS PHOTO-ELECTRIC SWITCH - AIM NORTHEAST, SEE SPECS THERMOSTAT, SEE MCHANICAL GENERATOR ALARM PANEL CONDUIT, CONCEALED IN CEILING OR WALL CONDUIT, CONCEALED IN SLAB OR BELOW FLOOR/GRADE CONDUIT, URNING UP CONDUIT, LECTRICAL PRIMARY CONDUIT, ELECTRICAL SECONDARY CONDUIT, FLEXIBLE TO EQUIPMENT CONNECTION POINT ABOVE CUINTER ABOVE FINISHED FLOOR ENCLOSED CIRCUIT BREAKER ELECTRIC DRINKING FOUNTAIN FURNISHED BY OTHERS GROUND FAULT CURRENT INTERRUPTING	18" AFF
	DOUBLE DUPLEX GROUNDING RECEPTACLE RECEPTACLE FOR MICROWAVE - COORDINATE HEIGHT WITH MICROWAVE/CASEWORK RECEPTACLE FOR TELEVISION - COORDINATE HEIGHT WITH TELEVISION RED DUPLEX GROUNDING RECEPTACLE ON EMERGENCY CIRCUIT JUNCTION OR PULL BOX MOTOR, E.F. DENOTES EXHAUST FAN MANUAL MOTOR STARTER OR RELAY CONTROL MAGNETIC MOTOR STARTER OR TERMINAL CONNECTION SAFETY SWITCH, WP INDICATES NEMA 3R, FUSED, U.D.N. LIGHTING OR POWER PANEL MAINO RSUB-DISTRIBUTION PANEL AUTOMATIC TRANSFER SWITCH MANUAL TRANSFER SWITCH TRANSFORMER TIME CLOCK - SEE SPECS CONTACTOR - SEE SPECS PHOTO-ELECTRIC SWITCH - AIM NORTHEAST, SEE SPECS PHOTO-ELECTRIC SWITCH - AIM NORTHEAST, SEE SPECS CONDUIT, CONCEALED IN CEILING OR WALL CONDUIT, CONCEALED IN CEILING OR WALL CONDUIT, TURNING UP CONDUIT, TURNING UP CONDUIT, TURNING UP CONDUIT, TURNING OWN CONDUIT, ELECTRICAL SECONDARY CONDUIT, FLEXIBLE TO EQUIPMENT CONNECTION POINT ABOYE COUNTER ABOYE FINISHED FLOOR ELECTRIC DRINKING FOUNTAIN FURNISHED BY OTHERS GROUND FAULT CURRENT INTERRUPTING SURGE PROTECTION DEVICE	18" AFF
MW □ IV □ E □ O)	DOUBLE DUPLEX GROUNDING RECEPTACLE RECEPTACLE FOR MICROWAVE - COORDINATE HEIGHT WITH MICROWAVE/CASEWORK RECEPTACLE FOR TELEVISION - COORDINATE HEIGHT WITH TELEVISION RED DUPLEX GROUNDING RECEPTACLE ON EMERGENCY CIRCUIT JUNCTION OR PULL BOX MOTOR, E.F. DENDTES EXHAUST FAN MANUAL MOTOR STARTER OR RELAY CONTROL MAGNETIC MOTOR STARTER OR RELAY CONTROL MAGNETIC MOTOR STARTER OR RELAY CONTROL ILIGHTING OR POWER PANEL MAIN OR SUB-DISTRIBUTION PANEL AUTOMATIC TRANSFER SWITCH TRANSFORMER TIME CLOCK - SEE SPECS CONTACTOR - SEE SPECS CONDUIT. CONCEALED IN CEILING OR WALL CONDUIT. CONCEALED IN SLAB OR BELOW FLOOR/GRADE CONDUIT. TRANSFOR CONDUIT. TURNING UP CONDUIT. REVOSED CONDUIT. REVOSED CONDUIT. REVOSED CONDUIT. REVOSED CONDUIT. FLEXIBLE TO EOUIPMENT CONNECTION POINT ABOVE COUNTER ABOVE FINISHED FLOOR ENCLOSE OR ON CONCECTION POINT ABOVE COUNTER ABOVE FINISHED FLOOR ENCLOSE OR ON CONCECTION POINT ABOVE COUNTER ABOVE FINISHED BACKAR ENCLOSED CONDUIT. CURRENT INTERRUPTING SURGE PROTECTION DEVICE TELEPHONE TERMINAL BACR	18" AFF
	DOUBLE DUPLEX GROUNDING RECEPTACLE RECEPTACLE FOR MICROWAVE - COORDINATE HEIGHT WITH MICROWAVE/CASEWORK RECEPTACLE FOR TELEVISION - COORDINATE HEIGHT WITH TELEVISION RED DUPLEX GROUNDING RECEPTACLE ON EMERGENCY CIRCUIT JUNCTION OR PULL BOX MOTOR, E.F. DENOTES EXHAUST FAN MANUAL MOTOR STARTER OR RELAY CONTROL MAGNETIC MOTOR STARTER OR RELAY CONTROL SAFETY SWITCH, WP INDICATES NEMA 3R, FUSED, U.O.N. LIGHTING OR POMER PANEL MAINA RUS SUB-DISTRIBUTION PANEL AUTOMATIC TRANSFER SWITCH TRANSFORMER TIME CLOCK - SEE SPECS CONTACTOR - SEE SPECS PHOTO-ELECTRIC SWITCH - AIM NORTHEAST. SEE SPECS THERMOSTAT. SEE MECHANICAL GENERATOR ALARM PANEL CONDUIT, CONCEALED IN CEILING OR WALL CONDUIT, CONCEALED IN SLAB OR BELOW FLOOR/GRADE CONDUIT, URNING UP CONDUIT, TURNING UP CONDUIT, ELECTRICAL SECONDARY CONDUIT, FLEXIBLE TO EOUIPMENT CONNECTION POINT ABOVE FINISHED FLOOR ENCLOSED CICCUIT BREAKER ELECTRIC DRINKING FOUNTAIN FURNISHED BY OTHERS GROUND FAULT CURRENT INTERRUPTING SURGE PROTECTION DEVICE TELEPHONE TERMINAL BOARD	18" AFF
	DOUBLE DUPLEX GROUNDING RECEPTACLE RECEPTACLE FOR MICROWAVE - COORDINATE HEIGHT WITH MICROWAVE/CASEWORK RECEPTACLE FOR TELEVISION - COORDINATE HEIGHT WITH TELEVISION RED DUPLEX GROUNDING RECEPTACLE ON EMERGENCY CIRCUIT JUNCTION OR PULL BOX MOTOR, E.F. DENOTES EXHAUST FAN MANUAL MOTOR STARTER OR RELAY CONTROL MAGNETIC MOTOR STARTER OR RELAY CONTROL SAFETY SWITCH, WP INDICATES NEMA 3R, FUSED, U, D, N, LIGHTING OR POMER PANEL MAIN OR SUB-DISTRIBUTION PANEL AUTOMATIC TRANSFER SWITCH MANUAL TRANSFER SWITCH TINE CLOCK - SEE SPECS CONTACTOR - SEE SPECS CONTACTOR - SEE SPECS CONTACTOR - SEE SPECS CONTACTOR - SEE SPECS CONDUIT, CONCEALED IN CEILING OR WALL CONDUIT, CONCEALED IN CEILING OR WALL CONDUIT, CONCEALED IN SLAB OR BELOW FLOOR/GRADE CONDUIT, TURNING UP CONDUIT, TURNING UP CONDUIT, TURNING UP CONDUIT, TURNING DOWN CONDUIT, ELECTRICAL PRIMARY CONDUIT, ELECTRICAL PRIMARY CONDUIT, FLEXIBLE TO EOUIPMENT CONNECTION POINT ABOVE FINISHED FLOOR ENCLOSED CIRCUIT BREAKER ELECTRIC DRINKING FOUNTAIN FURNISHED BY OTHERS GROUND FAULT CURRENT INTERRUPTING SURGE PROTECTION DEVICE TELEPHONE TERMINAL BDARD UNDERCONNTER	18" AFF

WP WEATHERPROOF

## BRANCH CIRCUITING LEGEND

	A-1	ONE 1-POLE CKT HOMERUN TO PANEL A
	A-1.3	TWO 1-POLE CKT HOMERUNS TO PANEL A
	A-1.3.5	THREE 1-POLE CKT HOMERUNS TO PANEL A
	A-1/3	ONE 2-POLE CKT HOMERUN TO PANEL A
	A-1/3.2/4	TWO 2-POLE CKT HOMERUNS TO PANEL A
	A-1/3/5	ONE 3-POLE CKT HOMERUN TO PANEL A
IOTE: ALL	MULTI-WIRE 8	BRANCH CIRCUITS TO COMPLY WITH NEC 210.4

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## LIGHTING FIXTURE SCHEDULE

TYPE	MANUFACTURER	CATALOG NUMBER	VOLTS	LAMPS WATTS	TYPE	MOUNTING	REMARKS
W1	BEACON	RWL1-48L-15-3K7-4W-UNV-*-E	120	42.7W	LED	WALL	WALL PACK
WS	OCL ARCHITECTURAL LIGHTING	AT1-*-96-GW-BTP-*-*-UNV-DM1	120	70W	LED	WALL	WALL SCONCE
P1	BEACON	RAR2-480L-185-4K7-4W POLE:	208	185W	LED	20' POLE ON 24" CONCRETE BASE	SITE LIGHT
P2	BEACON	RAR2-480L-185-4K7-4W POLE:	208	370W	LED	20' POLE ON 24" CONCRETE BASE	SITE LIGHT (2 HEADS @180°)

\* CONFIRM MOUNTING HEIGHTS, FINISHES, AND OTHER OPTIONS WITH ARCHITECT.

![](_page_25_Picture_67.jpeg)

### EXHIBIT B

#### PRELIMINARY PROJECT PLANS AND SPECIFICATIONS PROJECT IMPROVEMENTS

All Project Improvements shall be performed in compliance with Landlord's Plans, as approved by Tenant. No changes, other than immaterial field changes, shall be made without Tenant's prior written approval, which shall not be unreasonably withheld, conditioned or delayed.

#### Landlord's Work

Building Compliance: Landlord shall deliver the Premises in the following condition: (a) water tight; (b) compliant with any and all applicable laws; (c) free and clear of all defects, construction tools, materials, debris, fixtures, equipment, mechanical systems; (d) free and clear of all mechanics' liens and fire code violations; and (e) as part of the Development that is free and clear of any violations.

As-Built Drawings: Landlord shall provide as-built drawings, including architectural, mechanical, plumbing, electrical, structural and civil plans showing the size and locations of all utilities entering the Premises.

Demising Walls: Landlord shall construct all (exterior only) demising walls to meet the minimum requirements of 6" metal studs, with one layer on each side of 5/8" gypsum board to the underside of the deck. All demising walls shall be insulated with R 19 and fire taped to full wall height.

Impact Fees: Landlord shall have paid any charges in the nature of impact fees attributable to Landlord's development of the Center. (Tenant will be responsible for any fees customarily charged for utility activation.)

Plumbing:

Sewer: Domestic Water:

Landlord shall provide a 4" sanitary sewer line stubbed into the Premises. Landlord shall provide a 11/2" minimum cold water copper line with valve and sub-meter, capped and stubbed into the Premises, location to be coordinated with Tenant.

#### Electric:

Amperage: Landlord shall provide a minimum 400 amp, 3-phase, 4-wire electrical service terminating in one (1) 400 amp panel, or two (2) 200 amp panels, with a total of 84 breakers and a main shut-off breaker from the meter to Tenant's panel, and with a minimum total capacity of 84 circuits. If the Premises is not served by natural gas, Landlord shall provide a minimum 600 amp, 3-phase, 4-wire service terminating in one (1) 600 amp panel or a combination of (2) panels (one (1) 400 amp panel and one (1) 200 amp panel), with a total of 84 breakers and a main shut-off breaker from the meter to Tenant's panel, and with a total minimum capacity of 84 circuits. If only single phase electrical service is available, Landlord shall provide an 800 amp service terminating in two (2) 400 amp panels, with a total of 84 breakers and a main shut-off breaker from the meter to Tenant's panel, and with a total minimum capacity of 84 circuits.

Voltage: Landlord shall provide 120/208 voltage. If 120/208 not available, Landlord shall provide an appropriately sized transformer to convert to 120/208 volt.

27265\_00/22001/MM1-4853-5980-3459\_8

Exhibit B Page 1 of 2

All electrical panel(s) and electrical equipment shall be new. All electrical panel(s) shall accommodate one (1) 125 amp, 2 pole breaker. The location of the electrical panel(s) shall be coordinated with Tenant.

Gas: Landlord shall provide a metered gas line with

 a delivered capacity of approximately 500,000 BTUs per hour in climate zones 1, 2 and 3<sup>1</sup> and

b. a delivered capacity median pressure of approximately 1.0 million BTUs per hour in

climate zones 4, 5 and 6. As of the Effective Date, Landlord anticipates that the Premises will not be served by natural gas, which determination shall be subject to confirmation that Landlord can deliver sufficient electrical power to serve the Premises per Tenant's requirements and specifications.

Phone & Internet: Landlord shall provide two (2) 11/2" conduits with pull strings from the telephone service provider panel or pedestal, building D-Marc, to a service point within or at the back of the Premises, location to be coordinated with Tenant. Tenant shall be permitted to choose its telecommunications service providers and shall not be limited to Landlord's designated providers. Landlord shall permit Tenant's designated service providers to access the MPOE room, telco closet and any other areas and shall cooperate with Tenant to install cabling or equipment serving the Premises, at Tenant's sole expense with no charge by Landlord.

HVAC: By Tenant.

Roofing: Landlord shall deliver the Premises with a roof free of leaks, in watertight condition and with a remaining serviceable life of at least 20 years from the date of delivery.

Fire Alarm/Fire Sprinklers: If the building and/or Premises is monitored, Landlord shall provide a common fire alarm panel and a separate 1" conduit from the fire alarm panel to the Premises to a location to be coordinated with Tenant. If applicable law/code requires the Premises to have installed and operating fire sprinklers (even if such requirement is triggered by Tenant's submittal for building permits), Landlord shall install the fire panel, monitoring, sprinkler controls, and shall bring the sprinkler water line into the Premises. Tenant shall be responsible for required devices and connections to Landlord's fire panel, and distribution and installation of individual sprinkler heads in the Premises.

Temporary Utilities: Landlord shall provide temporary utilities as needed for Tenant in its completion of Tenant's Work. Upon delivery and acceptance of the Premises, Tenant shall pay for all utility consumption. Waste Removal: Landlord shall provide adequate area for Tenant's 1.5-2 yard dumpsters and recycling

as required by code. Exterior Doors: Landlord shall provide at least (1) entrance, minimum width of 3' 6" (42"). Landlord

<sup>1</sup> Climate Zones: For purposes of clarification please refer to the International Energy Conservation Code (IECC) Climate Regions for zone areas

27265\_00/22001/MM1-4853-5980-3459\_8

shall coordinate the location of all exterior doors with Tenant.

Exhibit B Page 2 of 2

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Exhibit B-1 Page 1 of 1

BANFIELD PET HOSPITAL SAVANNAH, GEORIGA

![](_page_26_Picture_36.jpeg)