MECHANICAL GENERAL NOTES:

MELOTIANILGAL GENERAL INUTIES: The DRAWING RAVE MARGAMARIA TAN MONITE THE GENERAL LOCATION OF EQUIPART DUCTS, AND GRUES, ETC. TIS THE NITHY OF THESE DRAWINGS AND SECONDATIONS TAND GRUES, ETC. TIS THE NITHY OF THESE DRAWINGS AND SECONDATIONS AND GRUESS AND AND AND AND AND AND AND AND ACCESSORY, BOYCE, ETC. IS SHOWN, REFERENCE SHALL BE MADE TO THE FULL DRAWING PACKAGE SULLIONS RAVIETICAL STRUCTURES, LECTRICAL, AND HERVING DRAWESS AND LONG RAVIETICAL STRUCTURES. LECTRICAL AND HERVING DRAWESS AND LONG RAVIETICAL STRUCTURES (LECTRICAL STRUCTURES (LECTRICAL HERVING DRAWESS AND LONG RAVIETICAL STRUCTURES (LECTRICAL AND HERVING DRAWESS AND LONG RAVIETICAL STRUCTURES (LECTRICAL AND LONG RAVIETICAL STRUCTURES (LECTRICAL STRUCTURES (LECTRICAL STRUCTURES (LECTRICAL STRUCTURES (LECTRICAL STRUCTURES (LECTRICAL STRUCTURES (LECTRICAL STRU

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PROJECT SAN ANTONIO, TX

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Sar STA San Antonio Water System

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Drawn DBR Checked DBR Date 03/20/2015

PROJECT No. 14019 Revisions

2 04/03/15 ADDENDUM 2

CHITECTURE N. St. Mary

2. DUCT DIMENSIONS INDICATED ON DRAWINGS ARE CLEAN INSIDE AIR STREAM DIMENSIONS.

NEW A/C EQUIPMENT SHALL BE CLEANED AFTER THE FINISHING OF DRYWALL AND PRIOR TO THE RELEASE OF BUILDING TO OWNER MECHANICAL CONTRACTOR TO PROVIDE ALL DOCUMENTATION WITH DATE AND TIME OF UNIT CLEANING AND CONSTRUCTION FILTER REPLACED WITH NEW.

PROVIDE YOUNG'S REGULATORS FOR BALANCING AIR DEVICES WHERE BALANCING DAMPERS ARE MADE INACCESSIBLE BY SHEETROCK CEILINGS.

LEFLECTED CELING FUNDA ARE FOR DESIGN NITERT A LIQNEEDT OF FRUTURES SPINNLER HERD EUFSISSER AND OTHER DEVOETS DE ESYMMERTEN ENDED SUFFISSER ROUBS, ALIGNED WITH FACH OTHER, AND AS SHOWN CELING HEIGHTS ARE SCHEDULED NOON FINISI SOCIEDULE. ABOVE CELING SPACE IS UNITED. THEREFORE CORDINATION OF ALL SYSTEMS WITH NEW STRUCTURES IS CRITICAL CORDINATION NOF DEVINISION SOF REFLECTED CELING SPACE IS UNITED. SHOWING LOCATIONS OF ALL FIXTURES, SPRINKLER HEADS, DIFFUSERS, AND OT DEVICES FOR REVIEW BY THE ARCHITECT PRIOR TO INSTALLATION OF ANY SYST

6. HYDRONIC SYSTEM SHALL BE FLUSHED PRIOR TO OPERATION OF ALL NEW MECHANICAL EQUIPMENT. STRAINERS AT EACH HVAC UNIT SHALL BE CLEANED.

SIZE OF ROUND DUCT TO ALL FAN POWERED TERMINAL BOXES SHALL BE ONE SIZE LARGER THAN SCHEDULED WHERE THE LENGTH EXCEEDS 6"-0".

CONTRACTOR SHALL CONFIRM WALLS TO DECK AND FIELD VERIFY RETURN AIR PATH BACK TO AIR HANDLING UNIT. PROVIDE RETURN AIR OPENINGS OR BOOTS AS REQUIRED AND SIZE AT MAXIMUM OF 600 FEET PER MINUTE AIR VELOTIY. WALLS TO DECK THAT ARE FIRE FAITED SHALL BE PROVIDED RETURN AIR BOOTS WITH FIRE DUMPERS AS REDURED.

CONTRACTOR SHALL COMPLY WITH ALL STATE, LOCAL, AND FEDERAL CODES AND AUTHORITIES HAVING JURISDICTION. CONTRACTOR SHALL COORDINATE WITH STRUCTURAL CONDITIONS AT THE SITE AND PROVIDE ALL CLEARANCES AS INDICATED.

0. EXPOSED DUCTWORK AND ASSOCIATED GRILLES AND ACCESSORIES SHALL BE PAINTED TO MATCH STRUCTURE. COORDINATE FINISH WITH ARCHITECT.

MECHANICAL CONTRACTOR SHALL COORDINATE WITH GENERAL CONTRACTOR THE LOCATION OF ALL EQUIPMENT ON SHOP DRAWINGS AND DURING INSTALLATION TO ALLOW CLEARANCE TO REMOVE AND REPLACE FILTERS, AND ACCESS CONTROLS AND COLI AND DRAIN PAN LOCATIONS.

MECHANICAL KEYED NOTES:

PROVIDE MINI SPLIT CONDENSING UNIT AS SCHEDULED. ROUTE REFRIGERANT PIPING TO COORDINATING INDOOR UNIT.

2 PROVIDE FAN COIL UNIT AS SCHEDULED. UNIT TO BE SUSPENDED FROM CEILING.

3 PROVIDE RADIANT HEATER AS SCHEDULED

PROVIDE EXHAUST FAN AS SCHEDULED. FAN SHALL BE MOUNTED ON A PREFABRICATED ROOF CURB. ROUTE DUCTWORK UP TO ROOF MOUNTED EXHAUST FAN.

5 PROVIDE DUCTLESS SPLIT SYSTEM AS SCHEDULED.

6 PROVIDE INTAKE AIR WALL LOUVER. WITH FREE AREA AS SHOWN. COORDINATE FINAL SIZE AND LOCATION WITH ARCHITECT.

7 PROVIDE CONDENSING UNIT AS SCHEDULED. ROUTE REFRIGERANT PIPING TO COORDINATING INDOOR UNIT 8 PROVIDE SIDEWALL EXHAUST FAN AS SCHEDULED.

9 PROVIDE THERMOSTAT FOR EXHAUST FAN. MOUNT AT SAME ELEVATION AS LIGHT SWITCHES. THERMOSTAT SHALL ENERCIZE EXHAUST FAN WHEN TEMPERATURE REACHED ABOVE 85'F(ADJUSTABLE).

10 PROVIDE LOREN COOK GRAVITY HOOD 8-PR OR EQUIVALENT. HOOD SHALL BE MOUNTED ON PREFABRICATED ROOF CURB.

DROP TO BENCH EQUIPMENT. SUPPORT FREE STANDING DROPS FROM PLOKE COORDINATE EXACT LOCATION WITH DURER ROW TO NOT ADDINE ROW REPORT USE FLEX DUCT FOR FINAL CONNECTEON TO EQUIPMENT. HOSE TO BE SIMULAR TO MONOVENT SERIES 3000. PROVIDE CONNECTION TRANSITIONS AS REQUIRED. TYPICAL.

PROVIDE GAS-FIRED UNIT HEATER AS SCHEDULED. INSTALL PER MANUFACTURERS SPECIFICATIONS. ROUTE FLUE UP THROUGH ROOF. SIZE FLUE PER MANUFACTURERS RECOMMENDATIONS.

PROVIDE THERMOSTAT FOR GAS UNIT HEATER. MOUNT THERMOSTAT AT SAME ELEVATION AS LIGHT SWITCHES THERMOSTAT SHALL ENERGIZE HEATER WHEN TEMPERATURE DROPS BELOW 60'F (ADJUSTABLE).

14 PROVIDE 8' DIAMETER MACROAIR FAN MODEL 550 PER ALTERNATE 3A.

15 PROVIDE 8' DIAMETER MACROAIR FAN MODEL 550 PER ALTERNATE 3B.

16 PROVIDE GAS-FIRED RADIANT UNIT HEATER AS SCHEDULED.

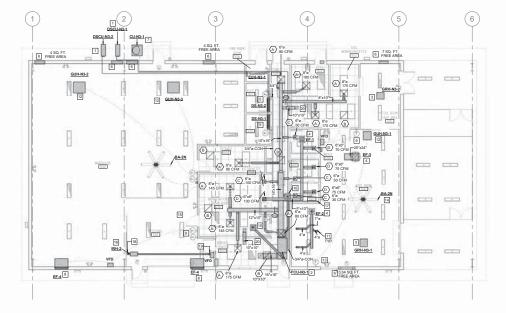
17 ROUTE 3/4" CONDENSATE DRAIN LINE MOP SINK. COORDINATE WITH PLUMBING.

18 ROUTE 4"# COMBUSTION AIR DUCT UP TO ROOF CAP. RE: DETAIL 24/M401.

19 ROUTE 4*# FLUE DUCT UP THRU ROOF TO ROOF CAP. RE: DETAIL 24/M401.

20 PROVIDE RETURN AIR TRANSFER BOOT. SIZE AS SHOWN. RE: DETAIL 9M402.

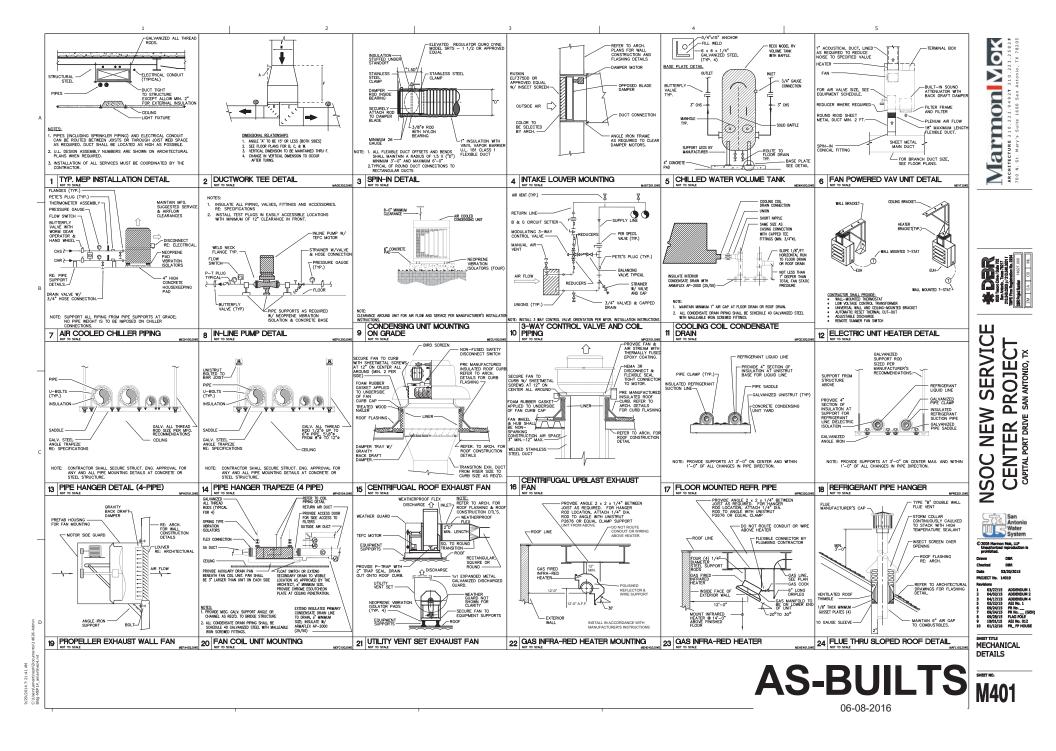




MECHANICAL PLAN - SUPPLY BLDG

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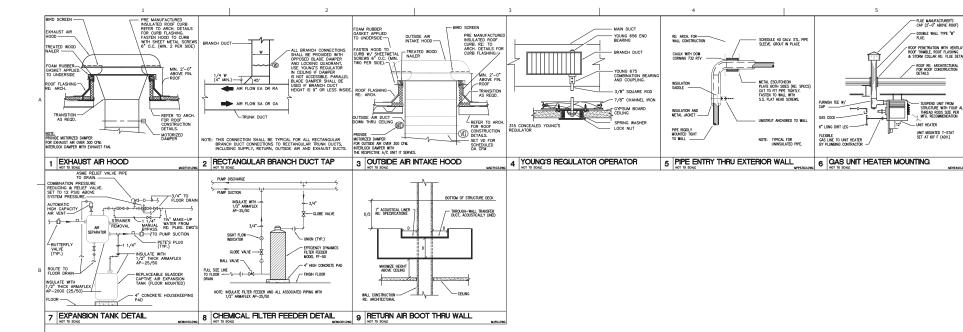


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ADDENDUN 1 ADDENDUN 2 ADDENDUN 4 ASI No. __ PR No. __ PR No. __ FLAG POLE ASI No. 012 PR_ FP HOUSE

Drawn DBR Checked DBR Date 03/20/ PROJECT No. 14019 Revisions DBR DBR 03/20/2011



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- FLUE MANUFACTURER'S CAP (2'-0" ABOVE ROOF)

- DOUBLE WALL TYPE "B" FLUE.

ROOF RE: ARCHITECTURAL FOR ROOF CONSTRUCTION DETAILS

SUSPEND UNIT FROM STRUCTURE WITH FOUR A THREAD ROOS SIZE PER MFG. RECOMMENDATION

UNIT HEATER

UNIT MOUNTED T-STAT SET AT 60° F (ADV.)

												F	an P	OWe	re
-	AIR HANDLING UNIT SC	HEDULE (COOLING ONLY)	1 -	AIR COOLED CHIL	LER SCHEDULE	Тад	AHU	Room	Model		Size		CFM	Pre	Static Has ur
	MARK	AHU-N1		MARK	ACCH-N1		Tag			Unit		Outlet M			Do
	SERVES	ADMIN BUILDING	-	NOMINAL CAPACITY. (TONS)	40	FPB 1-01 FPB 1-02	AHU-N1		DTOP	02			00 210		0
	SUPPLY AIR (CFM)	9.235	-	MIN. CAPACITY, (TONS @ DESIGN)	34.8	FPB 1-02	AHUNI	+	DTOP	02		14x11 4			+
	OUTSIDE AIR (CFM)	2.165	-	WATER FLOW (GPM)	59.5	FPB 1-04	AHU-N1	-	DTOP	02			00 120		te
	MIN. OUTSIDE AIR (CFM)	1.300	- 8	EWT/LWT (DEG, F)	42 / 56	FPB 1-05	AHU-N1	+	DTQP	03	10	14x11 11	50 345	1	10
	EXT. SP. (IN. W.G.)	2.5	- 2	MAX. AMBIENT DESIGN (DEG. F)	105	FPB 1-05	AHU-MI		DTQP	03		14x11 12			C
	R FAN MOTOR HORSEPOWER	(2) 5	1 6	MIN, AMBIENT DESIGN (DEG, F)	20	FPB 1-07 FPB 1-08	AHU-N1 AHU-N1		DTOP	03		14x11 16 14x11 16			0
	VOLTS/PHASE/HERTZ	480/3/60		MAX. PRESSURE LOSS (FT)	7.8	FPB 1-09	AHUNI	+	DTOP	03		14x11 16 14x11 10			+
	MAX, FAN RPM	1919		FOULING FACTOR (hr-sq ft-deg F / BTU)	0.0001	FPB 1-10	AHU-N1	-	DTOP	05		17x15 17			$\pm \frac{1}{6}$
	FAN TYPE	DIRECT DRIVE PLENUM		COMPRESSOR TYPE	SCROLL	FPB 1-11	AHU-N1	+	DTQP	02	06	14x11 2	50 75	1	1
	VFD/STARTER BY CONTRACTOR	VFD	- Na	QUANTITY OF COMPRESSORS	4	FPB 1-12	AHU-M1		DTQP	02			70 115		0
	TOTAL COOLING (MBH)	412.4	1 5	QUANTITY OF REFRIG. CIRCUITS	2	PIBINS		\sim		03		ASURT TS			1
	SENSIBLE COOLING (MBH)	288.7		STAGES OF OPERATION (%)	4	FPB 1-14	AHU-N1	1	DTQP	03	12	14x11 15	455	11	10
	ENTERING AIR TEMP. DB/WB (F)	78.7 / 65.5	1 8	MIN. STABLE OPERATION (TONS)	10	\sim		annes an	rbaned of	and a start	Mertura	correr.	\sim	\smile	\sim

3. PROVIDE FACTORY INSTALLED FLOW SWITCH 4. PROVIDE SOUND ATTENUATION TO MEET ABOVE SOUND CRITERIA

₹	MIN. OUTSIDE AIR (CFM)	1,300							
9	MIN. OUTSIDE AIR (CFM) EXT. SP. (IN. W.G.) FAN MOTOR HORSEPOWER	2.5							
8	FAN MOTOR HORSEPOWER	(2) 5							
-	VOLTS/PHASE/HERTZ	480/3/60							
	MAX, FAN RPM	1919							
	FAN TYPE	DIRECT DRIVE PLENUM							
	VFD/STARTER BY CONTRACTOR	VFD							
_	TOTAL COOLING (MBH)	412.4							
	SENSIBLE COOLING (MBH)	288.7							
	ENTERING AIR TEMP. DB/WB (F)	78.7 / 65.5							
1	LEAVING AIR TEMP. DB/WB (F)	50.3 / 50.2							
8	MAX. COIL FACE VEL. (FPM)	454							
ŝ	MAX. AIR PRESS. DROP (IN. W.G.)	0.81							
ğ	WATER FLOW (GPM)	58.7							
8	ENTERING WATER TEMP (F)	42							
	MIN. ROWS/MAX, FINS PER IN.	8/9							
	MAX. WATER PRESS. DROP (FT.)	7							
	PIPING RUNOUT (IN)	2.5							
_	MANUFACTURER	TRANE							
NERAL	MODEL	UCCAH21C							
ÿ	2-WAY/3WAY CONTROL VALVES	3 WAY							
B	WEIGHT (LBS)	2,000							
Č	NOTES	1, 2, 3, 4, 5							
110	TEO								

NOTES: 1. EXTERNAL STATIC PRESSURE DOES NOT ACCOUNT FOR LOSSES DUE TO COIL(S), FILTERS, HOUSING, NOR ACCESSORIES.

2. PROVIDE CHILLEE WATER COIL WITH 3-WAY AUTOMATIC CONTROL VALVE. PROVIDED BY CONTROLS CONTRACTOR.

CONTRACTOR MISTALED VFD. 9 PROVIDE FACTORY NISTALED VFD. 4. PROVIDE MIXING BOX WITH 2" MERV 13 FLITERS, CHILLED WATER COIL WITH STAINLESS STEEL CASING AND DRIVENAV AND DRECT DRIVE PLENUM FAN(S) AS SCHEDULED 5. PROVIDE WITH ECONOMIZER CONTROL.

MARK	ACCH-N1						
NOMINAL CAPACITY, (TONS)	40						
MIN. CAPACITY, (TONS @ DESIGN)	34.8						
WATER FLOW (GPM)	59.5						
WATER FLOW (GPM) EWT/LWT (DEG. F) MAX. AMBIENT DESIGN (DEG. F)	42 / 56						
MAX. AMBIENT DESIGN (DEG. F)	105						
MIN. AMBIENT DESIGN (DEG. F)	20						
MAX PRESSURE LOSS (FT)	7.8						
FOULING FACTOR (hr-sq ft-deg F / BTU)	0.0001						
COMPRESSOR TYPE	SCROLL						
QUANTITY OF COMPRESSORS QUANTITY OF REFRIG. CIRCUITS STAGES OF OPERATION (%) MIN STABLE OPERATION (TONS) REFRIGERANT TYPE RATED EER (AT ARI) RATED IER (AT ARI)	4						
QUANTITY OF REFRIG. CIRCUITS	2						
STAGES OF OPERATION (%)	4						
MIN. STABLE OPERATION (TONS)	10						
REFRIGERANT TYPE	410A						
RATED EER (AT ARI)	10						
RATED IPLV (AT ARI)	13.8						
RATED EER (AT DESIGN COND.)	8.4						
QUANTITY OF CONDENSER FANS SIZE OF CONDENSER MOTORS (kW)	4						
SIZE OF CONDENSER MOTORS (kW)	1.2						
- 63 dB	92						
125 dB	86						
03 dB 125 dB 250 dB	81						
0 500 dB	83						
1000 dB	85						
1000 dB 2000 dB 4000 dB 8000 dB 4WE(CHTED AVERACE (Pressure))	84						
4000 dB	77						
8000 dB	67						
A - WEIGHTED AVERAGE (Pressure)	89						
VOLT/DUASE/CVCLES	480/3/60						
MIN CKT AMPS (MCA)	94.6						
MAX OVRCRNT PROT (MOCP)	110						
	TRANE						
MODEL	CGAM 40						
MAX DIMENSIONS LXWXH (INCHES)	114 x 89 x 85						
MFGR MODEL MAX DIMENSIONS LXWXH (INCHES) WEIGHT (LBS) NOTES:	3700						
NOTES:	1, 2, 3, 4						
Norico.	1, 2, 3, 4						

							Fa	n Po	owe	red ⁻	Гern	ninal	Unit	Sch	nedule	9							
	AHU	Room	Model		Size		c	M		atic Is ure	NCI	evels	\$	Far		\$			lectric Heat Col			Bec	
	Tag			Unit	Inlet	Outlet	Max	Min	Inlet	Dow n	Rad	Dis	J.OFM.	ESP	HP	- OFAL	KAV	EAT	LAT	Volts/Ph.	Steps	MCA	MOP
	AHU-N1		DTOP	02	08	14x11	700	210	1	0.3	35	24	350	0.31	0.17	560	4.5	64.8	90.8	480/3	s	8.4	15
1	AHU-N1		DTQP	02	08	14x11	400	120	1	0.3	30	17	200	0.31	0.17	320	2.5	64.4	89.7	277/1	1	12.9	15
	AHU-MI		DTQP	02	10	14x11	720	216	1	0.3	35	23	X	0.31	0.17	576	4.5	64.4	89.7	480/3	1	8.4	15
1	AHU-N1		DTOP	02	06	14x11	400	120	1	0.3	29	16 (200	0.31	0.17								
	AHU-N1		DTQP	03	10	14x11	1150	345	1	0.3	37	21	\$75	0.31	0.25	920	7.5	64.4	90.8	480/3	S	14.0	15
	AHU-N1		DTQP	03	12	14x11	1200	350	1	0.3	37	21	800	0.31	0.25	960	8	64.4	91.4	480/3	s	14.8	15
Τ	AHU-N1		DTOP	03	12	14x11	1600	450	1	0.3	38	22	800	0.31	0.25	1280	10.5	64.4	91.0	480/3	s	18.5	20
1	AHU-N1		DTOP	03	12	14x11	1630	489	1	0.3	39	22	815	0.31	0.25	1304	10.5	64.4	90.5	480/3	S	18.5	20
	AHU-M		DTOP	03	10	14x11	1080	324	1	0.3	36	20	540	0.31	0.25	884	7	64.4	90.7	480/3	s	13.3	15
1	AHU-N1		DTOP	05	12	17x15	1760	528	1	0.3	37	21	850	0.31	0.33	1408	11.5	64.4	90.9	480/3	S	21.3	25
	AHU-N1		DTQP	02	06	14x11	250	75	1	0.3	29	18 /	180	0.31	0.17	255	2	65.6	91.0	277/1	1	10.7	15
	AHU-M		DTOP	02	06	14x11	370	115	1	0.3	29	16	185	0.31	0.17	300	2.5	64.2	91.6	277/1	1	12.9	15
7	APRIL N		DTOR,	03	12	NOUT	1950	400	~	-9.3	38	22		0.21	0.25	Scer	~	65.4	V972	480/5	\sim	163/	3
	AHU-N1		DTQP	03	12	14x11	1506	455	1	0.3	37	21	755	0.31	0.25	1210	10	64.4	91.4	480/3	s	17.6	20
					-					\sim			\sim		\sim	$\overline{}$	\sim			\sim			$\overline{}$

Colocota a serveráció termá de a bandacitorer 24 A performance bando en los es contacion en la constance um A SEPAE 150-2008 and APRER5-200 3 A PEC hervés distemment una pAPRES5-2008 Appende E A la refra , researa homes and hering preventione values han baien conscisate for atBoda 5. Una de masaras demosion (m), artifora (crim, value fore (gen), ar pressave (m ve), value had te 6 h im 15 tiper conscis 15° antesas analisationi pSC habitario.

r.	Provide PMD's with integral door disconnect.	
8	The minimum supply circuit ampacity (MCA) and maximum overcurrent protection (MCP) ratings were calculated in accordance with UL standards based on motor and electric coil full load current ratio	ıg

		AIR DEVICE SCH	EDULE	10
MARK	MANUFACTURER/MODEL	TYPE	NC	REMARKS
A	TITUS/TMS-AA	24"X24" SUPPLY	25	ALUMINUM CONSTRUCTION. NECK SIZES AS INDICATED BELOW UNLESS NOTED ON PLAN.
8	TITUS/50F	24'X24" EGGCRATE RETURN/EXHAUST	20	ALUMINUM CONSTRUCTION. EXHAUST GRILLES TO HAVE OBD'S.
с	TITUS/50F	12 X12" EGOCRATE RETURN/EXHAUST	25	ALUMNUM CONSTRUCTION. EXHAUST GRILLES TO HAVE OBD'S.
D	TITUS/TMS-AA	12"X12" SUPPLY	25	ALUMINUM CONSTRUCTION. NECK SIZES AS INDICATED BELOW UNLESS NOTED ON PLAN.
ŧ	TITUS/350PL	RETURNE HAUST GRULES	25	ALUMINUM CONSTRUCTION. EXHAUST GRILLES TO HAVE OBD'S.
F	TITUS/300FS	SIDEWALL SUPPLY	25	ALUMINUM CONTRUCTION.

PANT ALL SURFACES VISIBLE THROUGH FACE OF RETURN AIR GRILLES FLAT BLACK. THIS SHALL INCLUDE P.PING, CONDUIT,

DUCTWORK, AND STRUCTURAL MEMBERS.

PROVIDE FRAME FOR MOUNTING AIR DEVICE IN LAY-IN GRID CELLING UNLESS REFLECTED CELLING PLAN INDICATES HARD CELLING IN AREAS WITH HARD CELINGS. PROVIDE FRAMES FOR SURFACE MOUNTING.

UNLESS OTHERWISE NOTED, BRANCH DUCTS SERVING AIR DEVICES SHALL BE SAME SIZE AS NECK OF AIR DEVICE

SERVES FLOW (GPM)

RPM

HEAD (FT H20)

HORESPOWER

PUMP TYPE

IMPELLER DIA. (N)

NUFACTURER

PUMP EFF. (N)

FOR ROUND NECK DEFUSERS

6" DIA: 0-120 CFM

8" DIA: 125-250 CFM 10" DIA: 255-370 CFM

12" DIA: 375-800 CFM

MARK	DS-N1-1	DS-N1-2
SERVES	ELECTRICAL ROOM	IT ROOM
TYPE	HIGH WALL	HIGH WALL
AIRFLOW (CFM)	350	350
TOTAL COOLING (MBH)	12	12
HEATING (KW)	NONE	NONE
VOLTS/PHASE/HERTZ	208 /1 / 60	208 /1/00
MCA	NOTE 5	NOTE 5
MOCP	NOTE 5	NOTE 5
MANUFACTURER	MITSUBSHI	MITSUBSHI
MODEL NUMBER	PKA-A12HA4	PKA-A12HA4
MARK	DSCU-N1-1	DSCU-N1-2
VOLTS/PHASE/HERTZ	208 / 1 / 60	208 / 1 / 60
MCA	13.0	13.0
MOCP	15.0	15.0
SEER	15.2	15.2
MANUFACTURER	MITSUBSHI	MITSUBSHI
MODEL NUMBER	PUY-A12NHA4	PUY-A 12NHA
5:	1,2,3,4	1234

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MEP 14

PROVIDE REFRIGERANT PIPING IN ACCORDANCE WITH MER'S RECOMMENDATIONS.

PROVIDE FULL SIZE CONDENSATE DRAIN TO NEAREST RECEPTACLE.

PROVIDE WALL MOUNTED THERMOSTAT. PROVIDE UNIT WITH CAPABILITY TO PROVIDE COOLING DOWN TO 14 DEG F

5. INDOOR UNIT POWERED THROUGH OUTDOOR UNIT.

MARK SERVES	EF-1 MENS RESTROOMS / JAN/TORS	EF-2 WOMENS RESTROOMS
CFM	735	315
E.S.P. (N.W.G.)	0.375	0.375
TYPE	ROOF CENTR.	ROOF CENTR.
DIRECTIBELT DRIVE	DRECT	DIRECT
FAN RPM	1,004	1.250
MOTOR HORSEPOWER	1/4	18
VOLTSIPHASE/HERTZ	120/1/60	120/1/60
WEIGHT	70	30
SONES	6	5.3
MANUFACTURER	соок	COOK
MODEL NO.	120C15D	90C15DH
NOTES	1.3	1.3

¹ FAN SHALL INCLIDE THE FOLLOWING: PREFABRICATED ROOF CURB, BIRD SCREEN, SELF-ACTING BACKDRAFT DAMPER AND DISCONNECT SWITCH. FAN SHALL BE HIGH WIND RATED.

2 ALL NECHANICAL EQUIPMENT SHALL BE SECURED TO STRUCTURE TO MEET TEXAS DEPARTMENT OF INSURANCE: WINDSTORM RESISTANT CONSTRUCTION GUIDE.

MARK	GH-N1	GH-N2
SERVES	AHU-N1	BULDING
CFM	0.465	5,150
MAX. P.D. (N. W.G.)	0.05	0.05
NTAKE/RELIEF	INTAKE	RELIEF
THROAT SIZE (N.)	42"x 48"	30"x54"
MANUFACTURER	соок	COOK
MODEL NO.	GI	GR
NOTES	1.2	1.3

		MODEL NO.	90 1-14AA					
ELECTRIC UNI	T HEATER SCHEDULE	NOTES	1, 2, 3, 4, 5					
MARK	EUH-N1-1	NOTES						
SERVES SPRINKLER RISER ROOM CFM 100 KW 2		1. PROVIDE OSHA APPROVED COUPLING GUARD.						
		2. PROVIDE PUMP WITH STAINLESS STEEL SHAFT AND SLEEVE						
		3. PROVIDE GALVANZED BASE AND DRAIN PAN WITH THREADED OPENING.						
VOLTS/PHASE/HERTZ	208/1/60	4 PROVIDE STRUCTURAL STEEL BASE WITH OPENINGS FOR FIELD GROUTING						
MANUFACTURER	MARKEL	5 PROVIDE BALDOR SUPE	R E OR EQUIVALENT TYPE ODP MOTOR	00425				
MODEL NO.	F3052T2DWB							
NOTES 1								
NOTES:	500 C	1						

1. SHALL NCLUDE BUILTIN THERMOSTAT, DISCONNECT, FUSED CONTROL CIRCUIT, MANUAL RESET HIGH LIMIT, "FAN ONLY" SWITCH, AND WALL BRACKET.

PUMP SCHEDULE PCHP-N RMARY CHILLED WATER 59 63 3450 2 VOLTS/PHASE/HERTZ 460/3/60 NUNE 4.9 56.2% TARTER/VFD BY CONTRACTOR VFD BELL & GOSSETT 90 1-1/4AA

06-08-2016

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SHEET TITLE MECHANICAL SCHEDULES **AS-BUILTS**

- ADMIN siertiin. M501



Marmon Mox

St. Mary's

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	FAN SCHEDULE							
MARK	EF-1	EF-2	EF-3	EF-4				
SERVES	RESTROOMS / JANITOR	BATTERY STORAGE	SERVICE BAY	VEHICLE EXHAUST				
CFM	315	100	6300	1,200				
E.S.P. (IN W.G.)	0.375	0.25	0.5	2.5				
TYPE	ROOF CENTRIFUGAL DOWNBLAST	ROOF CENTRIFUGAL DOWNBLAST	SIDEWALL	SUSPENDED				
DIRECT/BELT DRIVE	DIRECT	DIRECT	DIRECT	BELT				
FAN RPM	1373	1253	860	2,330				
MOTOR HORSEPOWER	1/4	1/20	1.5	1				
VOL TS/PHASE/HERTZ	120/1/60	120/1/60	480/3/60	480/3/60				
WEIGHT	60	55	460	440				
SONES	5.3	3.2	19.2	72 dBA				
MANUFACTURER	соок	соок	соок	COOK				
MODEL NO.	90C15DEC	70C15DH	36EP616D08	120CPV				

NOTES

1,2,3

1.4.5

ARK A 8 ċ D

NOTES		1.2.3	1,4,5 6	9	1,7,8
2 FAN SHALL B 3 PROVIDE EC 4 PROVIDE ALL 5 PROVIDE UNI 6 PROVIDE BAG 7 FAN TO HAVE	E INTERLOCKED I MOTOR (ECM) WI ALUMINUM, CLAS T WITH PHENOLIC CKORAFT DAMPEI VERTICAL DISCH WITH MOTOR ST	WITH CORRESPONDING FAN CO TH INTEGRAL SPEED CONTROLL SS A' SPARK RESISTANT CONST : COATING WITH UV PROTECTION R. BIRDSCREEN, FACTORY MOU HARGE.	ER. IRUCTION		
			AIR DEVICE SC	HEDULE	
	MARK	MANUFACTURER/MODEL	TYPE	NC	REMARKS
	*	TITUS/TMS-AA	24"X24" SUPPLY	25	ALUMINUM CONSTRUCTION. NECK SIZES AS INDICATED BELOW UNLESS NOTED ON PLAN.
	8	TITUS/50F	24"X24" EGGCRATE RETURN	20	ALUMINUM CONSTRUCTION.
					ALUMINUM CONSTRUCTION. NECK SIZES AS

TITUS/50F	24'324" EGGCRATE RETURN	20	ALUMINUM CONSTRUCTION.
TITUS/TMS	12"X12" SUPPLY	25	ALUMINUM CONSTRUCTION. NECK SIZES AS INDICATED BELOW UNLESS NOTED ON PLAN.
TITUS-50F	12"X12" EXHAUST GRILLES	20	ALUMINUM CONSTRUCTION, EXHAUST GRILLES TO HAVE OBDS.

6.0

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DTES

PROVIDE STANDARD WHITE FINISH FOR ALL AIR DEVICES UNLESS NOTED OTHERWISE ON PLAN.

PAINT ALL SURFACES VISIBLE THROUGH FACE OF RETURN AR GRILLES FLAT BLACK. THIS SHALL INCLUDE PIPING, CONDUIT,

DUCTWORK, AND STRUCTURAL MEMBERS.

PROVIDE FRAME FOR MOUNTING AIR DEVICE IN LAY-IN GRID CELING UNLESS REFLECTED CELING PLAN INDICATES HARD CELING

IN AREAS WITH HARD CEILINGS, PROVIDE FRAMES FOR SURFACE MOUNTING

UNLESS OTHERWISE NOTED, BRANCH DUCTS SERVING AIR DEVICES SHALL BE SAME SIZE AS NECK OF AIR DEVICE.

FOR ROUND NECK DIFFUSERS:

6" DIA: 0-120 CFM

8" DIA: 125-250 CFM

10" DIA: 255-370 CFM 12" DIA: 375-600 CFM

MARK	RH-1
SERVES	SERVICE BAYS F100
FUEL TYPE	NATURAL GAS
CAPACITY (MBH)	150
VOLTS/PHASE/HERTZ	115 / 1 / 60
AMPERAGE	4.5
MANUFACTURER	REVERBERAY
MODEL NUMBER	HL3-80-150
WEIGHT	265
NOTES	1,2,3,4,5
	HE FRE ALARM IS ACTIVATED

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S EAT NPUT/OUTPUT (MBH)	FLEET SUPPLY 960	
	960	
	75/62.3	
12E (N)	4	
PHASE/HERTZ	120/1/60	
ACTURER	REZNOR	
NO.	UDAP-75	
T (LBS)	80	
	1.2	
VIDE WITH 24V CONTROL TRAF	1. 2 NSFORMER, REMOTE T-STAT, INTEGR	

ELECTRIC UNIT HEATER SCHEDULE		
MARK	EUH-N2-1	
SERVES	SPRNKLER RISER ROOM	
CFM	100	
ĸw	2	
VOLTS/PHASE/HERTZ	208/1/60	
MANUFACTURER	MARKEL	
MODEL NO.	F3052T2DWB	
NOTES	1	

1. SHALL INCLUDE BUILT-IN THERMOSTAT, DISCONNECT, FUSED CONTROL CIRCUIT, MANUAL RESET HIGH LIMIT, "FAN ONLY" SWITCH, AND WALL BRACKET.

-		TEM SCHEDULE (GAS	FCU412.2
	MARK		
	SERVES	INTERIOR SPACE	INTERIOR SPACE
N.	SUPPLY AIR (CFM)	1.600	875
DENERAL	OUTSIDE AIR (CPM)	85	65
0	EXT. SP. (N.W.G.)	0.5	0.5
	FAN MOTOR HORSEPOWER	3/4	1/2
	BELTIDIRECTORIVE	DIRECT	DIRECT
đ	TOTAL COOLING (MBH)	41.2	25.6
ğ	SENSIBLE COOLING (MBH)	36.7	21.7
COCUND COL	ENTERING AIR TEMP. DB/WB (F)	75.4/59.5	75.4/62.7
8	LEAVING AIR TEMP. DB/WB (F)	52.8/49.8	552/532
	INPUT (MBH)	80	60
8	OUTPUT (MEH)	64	48
FURMOR	ENTERING AIR TEMP. (F)	67.3	65.9
5	LEAVING AIR TEMP. (F)	90	90
	VENT SIZE (N)	4	4
8	VOLTS/PHASE/HERTZ	208/3/60	208/3/60
ELECTRIC	MCA	12.3	10.3
2	NOCP	20	15
	MANUFACTURER	TRANE	TRANE
	FURNACE MODEL	TUD1C08GA9H418	TUDIBOSOAGHS18
BASIS	EVAPORATOR COL MODEL	4TXCC049BC3CH	4700004980304
-	WEIGHT (LBS)	165	165
	NOTES	456	45.6
	MARK	CU-N2-1	CU-N2-2
The second	NUMBER OF COMPRESSORS	1	1
DENERAL	SEERIEER (ARI)	14/11.5	14/115
۳.	AMBENTAIR	105	105
2	VOLTS/PHASE/HERTZ	208/3/60	208/3/60
ELECTRIC	MCA	15	10
2	NOCP	30	15
	MANUFACTURER	TRAVE	TRANE
12	MODEL	4TTA3048D3	4TTA3030A3
BASI			
	WEIGHT (LBS)	236	235
_	NOTES	1.2.3	1,2,3

OTES

PROVIDE CONDENSER COSE HAL GUARDS. PROVIDE LOW AMBENT CONTRACT. PROVIDE LOW AMBENT CONTRACT. RECORD SINGLE CONTRACT ACCORDANCE WITH MARLIFACTURER'S RECOMMENDATIONS. INDOOR UNIT WITHOUT SINGLE CONTRACTOR INDOOR PROVIDENT SINGLE TERMINOS TAT.

MARK	DS-N2-1	D5-N2-2	DS-N2-3
SERVES	LT. CLOSET	ELECTRICAL ROOM	BATTERY STORAGE
TYPE	HIGH WALL	HIGH WALL	HIGH WALL
AIRFLOW (CFM)	350	350	350
TOTAL COOLING (MBH)	12	12	12
HEATING (KW)	NONE	NONE	NONE
VOLTS/PHASE/HERTZ	208/1/60	208 /1 / 60	208 /1 / 60
MCA	NOTE 5	NOTE 5	NOTE 5
MOCP	NOTE 5	NOTE 5	NOTE 5
MANUFACTURER	MITSUBISHI	MITSUBSH	MTSUBSHI
MODEL NUMBER	PKA-A12HA4	PKA-A 12HA4	PKA-A12HA4
MARK	DSCU-N2-1	DSCU-N2-2	DSCU-N2-3
VOLTS/PHASE/HERTZ	208/1/60	208 / 1 / 60	208/1/00
MCA	13.0	13.0	13.0
MOCP	15.0	15.0	15.0
SEER	15.2	15.2	15.2
MANUFACTURER	MITSUBISHI	MITSUBSH	MITSUBSHI
MODEL NUMBER	PUY-A12NHA4	PUY-A12NHA4	PUY-A12NHA4
TES:	1,2,3,4	1234	1234

PROVIDE FULL SIZE CONDENSATE DRAIN TO NEAREST RECEPTACLE.

PROVIDE WALL MOUNTED THERMOSTAT.

PROVIDE UNIT WITH CAPABILIY TO PROVIDE COOLING DOWN TO 14 DEG F.

5. INDOOR UNIT POWERED THROUGH OUTDOOR UNIT.







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	MARK	DS-N3-1	05-N3-2
	SERVES	I.T. CLOSET	ELECTRICAL ROOM
	TYPE	HIGH WALL	HIGH WALL
5	AIRFLOW (CFM)	350	350
UNI	TOTAL COOLING (MBH)	12	12
NDOOR	HEATING (KW)	NONE	NONE
8	VOLTS/PHASE/HERTZ	208 / 1 / 60	208 /1 / 60
	MCA	NOTE 5	NOTE 5
	MOCP	NOTE 5	NOTE 5
	MANUFACTURER	MITSUBISHI	MITSUBSHI
	MODEL NUMBER	PKA-A12HA4	PKA-A12HA4
	MARK	DSCU-N3-1	DSCU-N3-2
-	VOLTS/PHASE/HERTZ	208 / 1 / 60	208/1/60
3	MCA	13.0	13.0
8	MOCP	15.0	15.0
DUTDOOR UNIT	SEER	15.2	15.2
~	MANUFACTURER	MITSUBISHI	MITSUBSHI
	MODEL NUMBER	PUY-A12NHA4	PUY-A12NHA4
NOT	ES:	1,2,3,4	1.2.3.4

PROVIDE REFRIGERANT PIPING IN ACCORDANCE WITH MFR'S RECOMMENDATIONS PROVIDE FULL SIZE CONDENSATE DRAIN TO NEAREST RECEPTACLE.

GUH-N3-3

WAREHOUSE

2,560

150/125

5

120/1/60

REZNOR

UDBP-150

255

1.2

PROVIDE UNIT WITH CAPABILIY TO PROVIDE COOLING DOWN TO 14 DEG F INDOOR UNIT POWERED THROUGH OUTDOOR UNIT.

OUH-N3-2

WAREHOUSE

2,560

150/125

5

120/1/60

REZNOR

UDBP-150

255

1.2

PROVIDE WALL MOUNTED THERMOSTAT.

GAS UNIT HEATER SCHEDULE

GUH-N3-1

TOOL ROOM

960

75/62.3

4

120/1/60

REZNOR

UDAP-75

80

1.2

IONITION WITH 100% LOCKOUT, FAN RELAY, FAN GUARD, CELING SUSPENSION KIT.

2. PROVIDE WITH VENT PIPE AND APPROVED VENT CAP AS REQUIRED.

SERVES

VENT SIZE (IN)

OLTS/PHASE/HERTZ

MANUFACTURER

MODEL NO.

NOTES

NOTES

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WEIGHT (LBS)

GAS HEAT NPUT/OUTPUT (MBH)

		FAN SCHEDULE		
ARK	EF-1	EF-2	EF-3	EF-4
ERVES	RESTROOMS / JANITOR / KITCHENETTE	SNORKEL EXHAUST	VENTILATION	WAREHOUSE
FM	315	1050	4000	4,000
LS.P. (IN W.G.)	0.375	0.5	0.5	0.5
YPE	ROOF CENTRIFUGAL DOWNBLAST	ROOF CENTRIFUGAL UPBLAST	ROOF CENTRIFUGAL DWONBLAST	SIDE WALL
RECTIBELT DRIVE	DIRECT	DRECT	BELT	DRECT
AN RPM	1302	1360	981	1,140
TOTOR HORSEPOWER	1/8	1/4	1	1
OL TS/PHASE/HERTZ	120/1/00	120/1/60	480/3/90	480/3/60
VEIGHT	60	105	200	350
ONES	6.1	10.8	14.7	26
ANUFACTURER	соок	COOK	COOK	соок
KODEL NO.	90C15DH	120R15D	195C78	30EP416D11
IOTES	1.2	1,3,4	6.7.8	5.7

8. PROVIDE BACKDRAFT DAMPER, BIRDSCREEN AND PREFABRICATED ROOF MOUNT

		AIR DEVICE SCH	EDULE	S
MARK	MANUFACTURER/MODEL	TYPE	NC	REMARKS
A	TITUS/TMS-AA	24"X2#" SUPPLY	25	ALLIMINUM CONSTRUCTION . NEOK SIZES AS INDICATED BELOW UNLESS NOTED ON PLAN
B	TITUS/50F	247X2N" EGOCRATE RETURN	20	ALUMINUM CONSTRUCTION.
с	TITUS/TMS-AA	12X12 SUPPLY	25	ALUMINUM CONSTRUCTION. NEOK SIZES AS INDICATED BELOW UNLESS NOTED ON PLAN.
D	TITUS/50F	12"X12" EGGCRATE RETURNEXHAUST GRILLES	20	ALUMINUM CONSTRUCTION. EXHAUST GRILLES TO HAVE OBDS

NOTES PROVIDE STANDARD WHITE FINISH FOR ALL AIR DEVICES UNLESS NOTED OTHERWISE ON PLAN.

PAINT ALL SURFACES VISIBLE THROUGH FACE OF RETURN AIR GRILLES FLAT BLACK. THIS SHALL INCLUDE PIPING, CONDUIT,

DUCTWORK, AND STRUCTURAL MEMBERS

PROVIDE EDAME EDD MOUNTING AIR DEVICE 4N GRID CEILING UNLESS REFLECTED CEILING PLAN INDICATES HARD CEILING

ING AIR DEVICES SHALL BE SAME SIZE AS NECK OF AIR DEVICE.

GAS RADIANT UNIT HEATER SCHEDULE			
MARK	GRH-N3-1	GRH-N3-2	
SERVES	TOOL ROOM	TOOL ROOM/CAGE AREA	
FUEL TYPE	NATURAL GAS	NATURAL GAS	
CAPACITY (MBH)	100	100	
VOLTS/PHASE/HERTZ	120/1/60	120/1/60	
MANUFACTURER	REZNOR	REZNOR	
MODEL NO.	RHVN 100	RHVN 100	
WEIGHT (LBS)	36	36	
NOTES	1.2	1.2	

WITH 24V CONTROL TRANSFORMER, REMOTE T-STAT, INTEGRATED CIRCUIT BOARD WITH DIAGNOSTIC LIGHTS, MULTI-TRY DIRECT SPARI

WITH 24V CONTROL TRANSFORMER, REMOTE T-STAT, INTEGRATED CIRCUIT BOARD WITH DIAGNOSTIC LIGHTS, MULTI-TRY DIRECT SPARK IGNITION WITH 100% LOCKOUT, FAN RELAY, FAN GUARD, CELING SUSPENSION KIT. PROVIDE WITH VENT PIPE AND APPROVED VENT CAP AS REQUIRED.

		MARK
		SERVES
ELECTRIC UNI	T HEATER SCHEDULE	FUEL TYPE
MARK	EUH-N3-1	CAPACITY (MBH)
	and the second state of th	VOLTS/PHASE/HER
SERVES	SPRINKLER RISER ROOM	AMPERAGE
CFM	100	MANUFACTURER
ĸw	2	MODEL NUMBER
VOLTS/PHASE/HERTZ	208/1/60	WEIGHT
MANUFACTURER	MARKEL	NOTES
MODEL NO.	F3052T2DWB	NOTES: 1. PROVIDE LOW V
NOTES	1	AND CEILING MO
NOTES:	20	2 PROVIDE 24-VOL
1. SHALL NOT THE BUILT N TH	EPHOSTAT DISCONNECT EUSED	2. PHOVIDE 24YOL

WITHOL CIRCUIT, MANUAL RESET HIGH LIMIT, "FAN ONLY" SWITCH, NO WALL BRACKET.

	MARK	RH-2
	SERVES	RECENING \$101
CHEDULE	FUEL TYPE	NATURAL GAS
EUH-N3-1	CAPACITY (MBH)	75
	VOLTS/PHASE/HERTZ	115/1/00
LER RISER ROOM	AMPERAGE	4.5
100	MANUFACTURER	REVERBERAY
2	MODEL NUMBER	HL3-20-75
208/1/60	WEIGHT	120
MARKEL	NOTES	1,2,3,4,5
3052T2DWB	NOTES: 1. PROVIDE LOW VOLTAGE CONTRO	TRANSFORMER UNDERSAL
	AND CELING MOUNTED BRACKET	

3. PROVIDE WITH OUTDOOR COMBUSTION AR INLET KIT 4. PROVIDE WITH A VENT KIT. 5. UNIT SHALL SHUTDOWN WHEN THE FIRE ALARM IS ACTIVATED

	ARK	FCU-N3-1
1	ERVES	NTERIOR SPACE
. E	UPPLY AIR (CFM)	1,465
2 m	UTSIDE AIR (CFM)	125
(E	XT.SP. (IN W.G.)	0.5
	AN MOTOR HORSEPOWER	3/4
-	ELT/DRECT DRIVE	DRECT
	OTAL COOLING (MBH)	41.6
- E	ENSIBLE COOLING (MBH)	35.1
	NTERING AR TEMP. DB/WB (F)	76,5/61,5
-	EAVING AIR TEMP. DB/WB (F)	54,1 / 51,1
	PUT (MBH)	80
	UTPUT (MBH)	64
E	NTERING AIR TEMP. (F)	65.7
- E	EAVING AIR TEMP. (F)	90
-	ENT SIZE (N)	4
1	OLTS/PHASE/HERTZ	208/3/60
1	ICA	12.3
N	OCP	20
N	ANUFACTURER	TRANE
	URNACE MODEL	TUD1C0809H4
E	VAPORATOR COL MODEL	4TXCC049BC3CH
1	(EKIHT (LBS)	165
	OTES	4,5,6
-	IARK	CU-N3-1
N	UMBER OF COMPRESSORS	1
s	EEREER (ARI)	14/11.5
A	MBENTAR	105
V	OLTS/PHASE/HERTZ	208 / 3 / 60
N	ICA	10
M	OCP	30
N	ANUFACTURER	TRANE
N	ODEL	4TTA 304803
г	(EIGHT (LBS)	235
- E	OTES	12.3

NOTES I PROVOE CONDENSER COL HAL QUARDS. 2. PROVOE LOW AMEENT CONTROL. 3. INSTALL REPROGRAMT PRINO IN STRUCT ACCORDANCE WITH MANUFACTURETS RECOMMENDATIONS 4. PROVOE SINGEROF PONTE LICETRICAL CONNECTION 5. PROVOE INCOMENDATION. 5. RECOMMENDATION FOR CONTROL OF PONDATION.











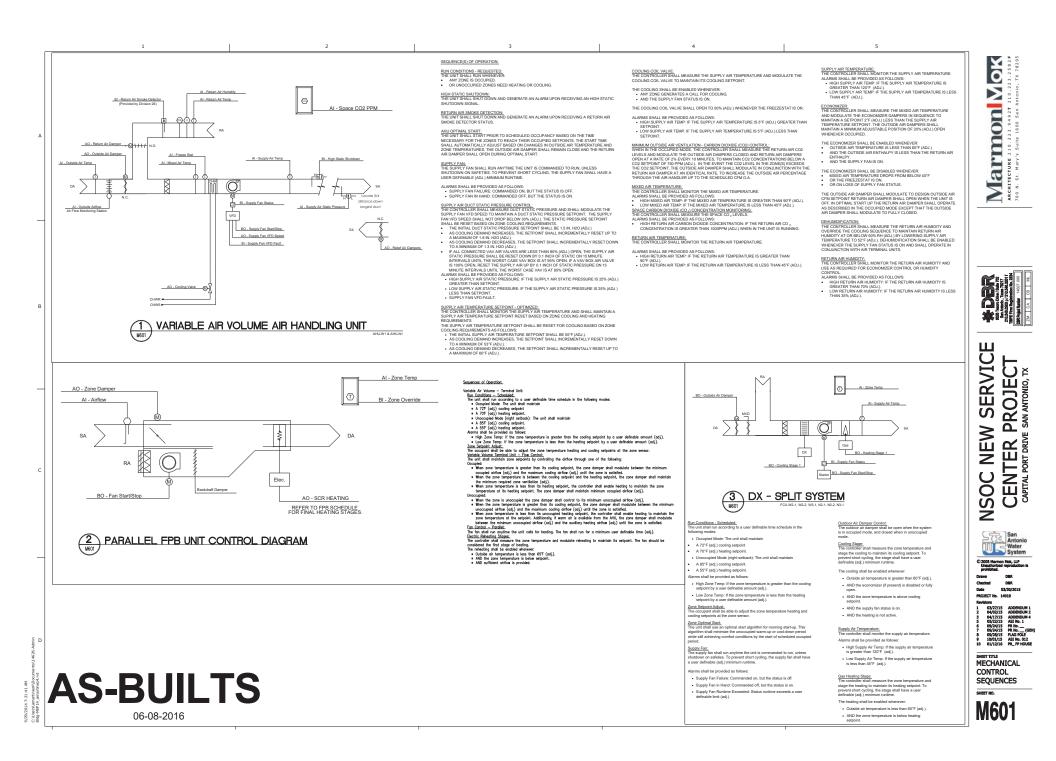


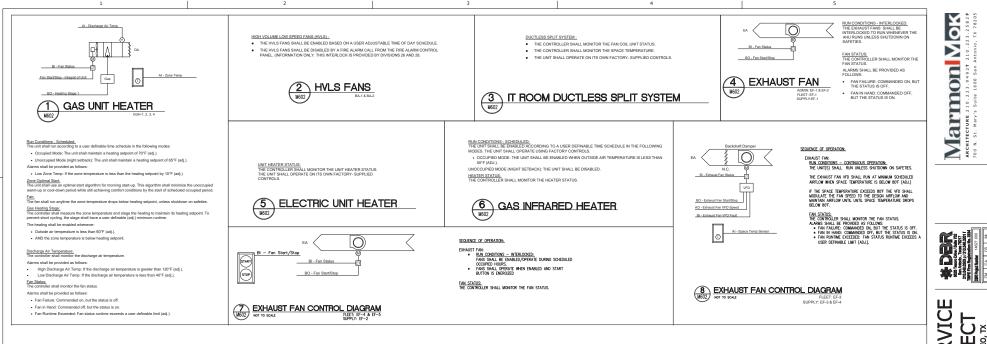
FOR SURFACE MOUNTING

IT DA: 125-250 CFM

10" DIA: 255-370 CFM 12" DIA: 375-600 CFM

ŀ.	PHOVIDE PHAME FOR MOUNTING AIR DEVICE IN LAY-
	IN AREAS WITH HARD CEILINGS, PROVIDE FRAMES F
i	UNLESS OTHERWISE NOTED, BRANCH DUCTS SERVI
	FOR ROUND NEOK DIFFUSERS
	6" DIA 0.120 CEM





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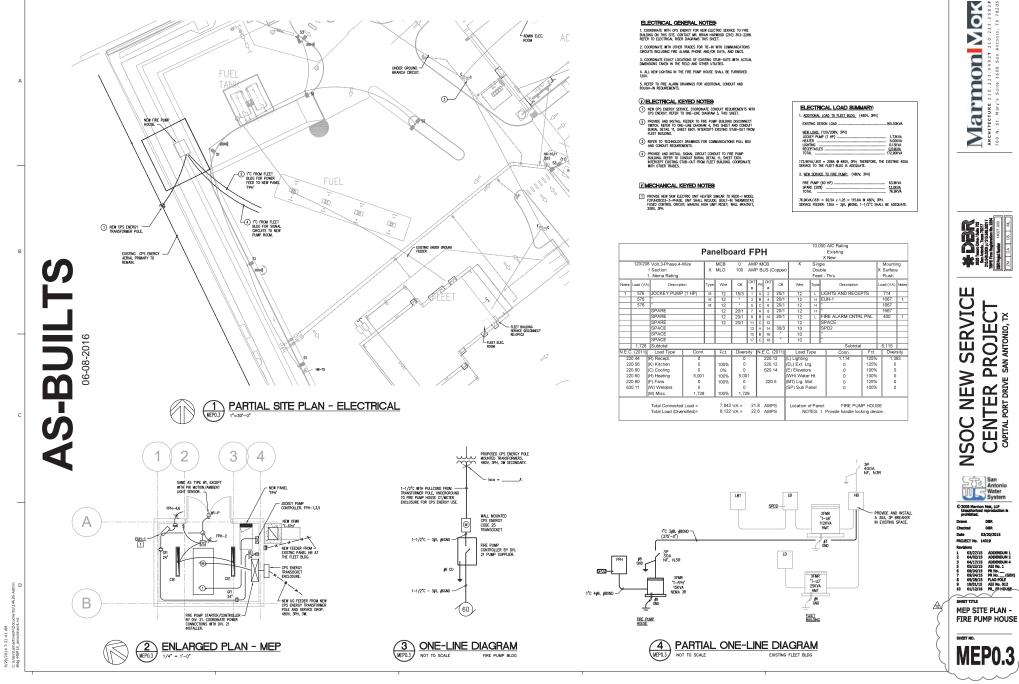


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 ADDENDUM 2

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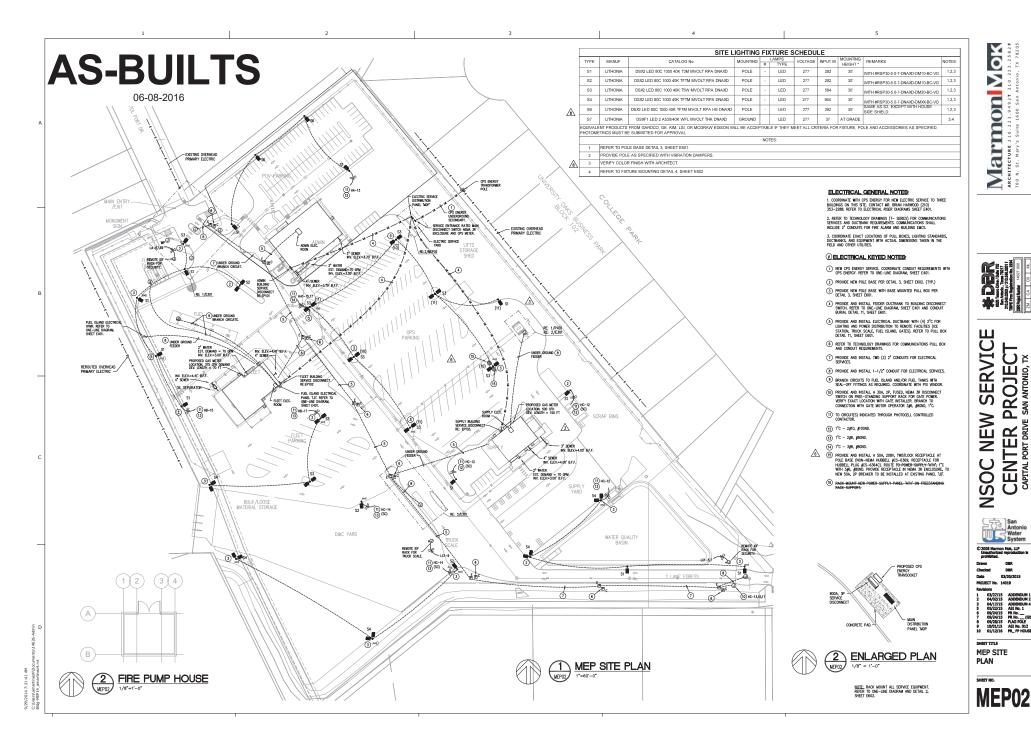
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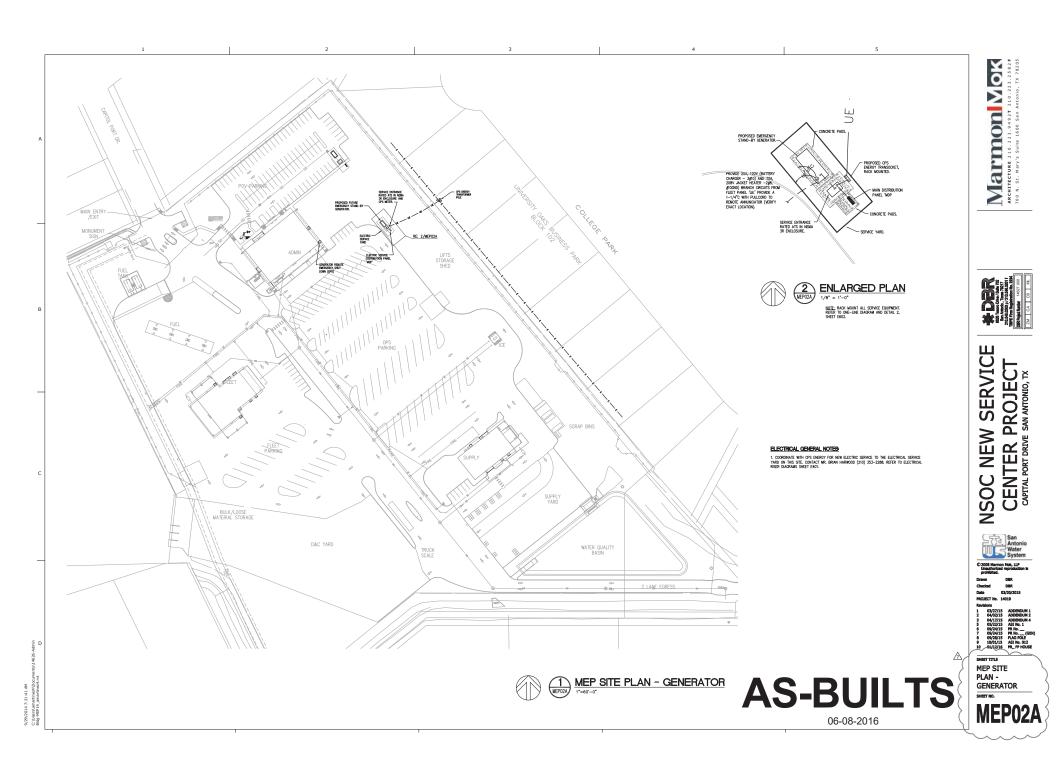
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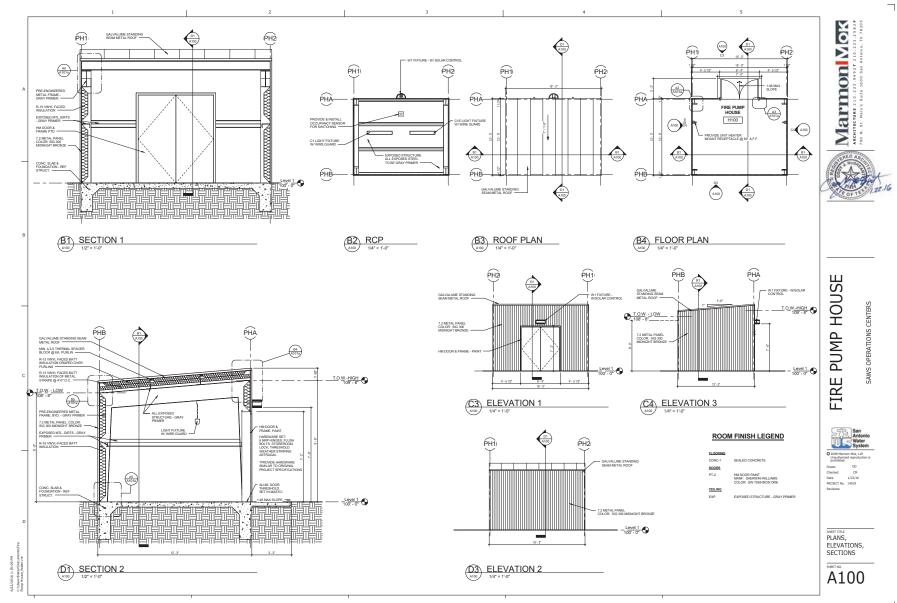
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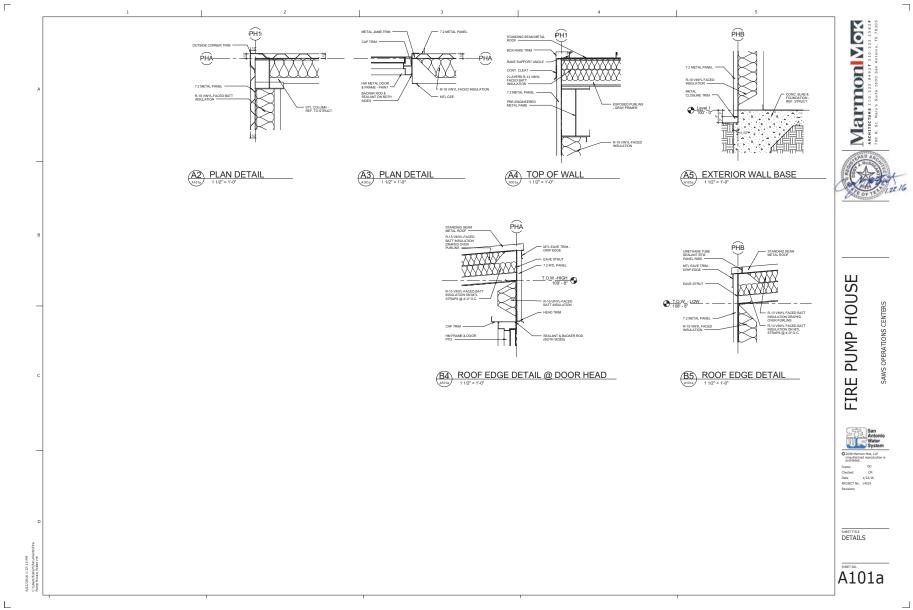
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1	ABBREVIATIONS		SYMBOLS AND ABBREVIAT				MISCELLANEOUS		
A AIR (COMPRESSED) ABV ABOVE	F FARENHET, FRE FBO FURNISHED BY OTHERS FCO FLOOR CLEAN OUT	PHTH PENTHOUSE PPM POLYPROPYERE PPM PART FER MULION	PLUMBING SYSTEMS		CAP ON END OF PIPE ELBOW UP ELBOW DOWN VALVE IN DROP		drain(Type and size as noted on plans) Roof drain or overflow drain		
AC ABOVE CELING AD ACCESS DOOR, AREA DRAIN ADJ ADJISTARI F	FCS FLOOR CONTROL STATON FD FLOOR DRAIN FIRE DAMPER	Portin Porticuity, particular porticular porticular porticular porticular porticular porticular porticular porticular porticular porticipation of the portic	SANITARY DRAIN BELOW FLOOR SANITARY DRAIN ABOVE FLOOR		VALVE IN DROF VALVE IN RISE DIRECTION OF FLOW DIRECTION OF SLOPE DOWN CONCENTRIC REDUCER	@	ROOF DRAIN OR OVERFLOW DRAIN(FROM ABOVE)		
AFF ABOVE FINISHED FLOOR AFG ABOVE FINISHED GRADE AHU AIR HANDLING UNIT	FDSC FIRE DEPARTMENT SAMESE CONNECTION FDV FIRE DEPARTMENT VALVE FH FIRE HVDRANT FHC FIRE HVDR CABINET FIRE HVDR CABINET FIRE HVDR CABINET		SANTARY VENT		ECCENTRIC REDUCER TEE OUTLET UP TEE OUTLET DOWN	нт, [HOSE BIBB WALL HYDRANT		
AL ALUMINUM P ACCESS PANEL RCH ARCHITECT, ARCHITECTURAL	FIR FIRE HOSE RACK FOT FOTURE FLEX FLEXBLE FL FLOW UNES				union Flange PIPE Anchor		PLUMBING FIXTURES		
AIS AIR SEPARATOR ISME AMERICAN SOCIETY OF MECHANICAL ENGINEERS INSTM AMERICAN SOCIETY OF TESTING AND	FLR FLOOR FP FIRE PUMP FRZR FREEZER	RCP REFLECTED CEILING PLAN, REINFORCED CONCRETE PIPE	SD STORM DRAIN(ABOVE CEILING)		EXPANSION JOINT STRAINER WITH BLOWDOWN VALVE	+	POINT OF NEW CONNECTION TO EXISTING PIPING		_
INTERIALS SOCIETY OF TESTING AND MATERIALS V ACID VENT	FS FLOW SWITCH, FIRE SPRINKLER FSK FLOOR SINK FT FOOT, FEET FUT FUTURE	RD ROOF DRAIN RE REFERENCE/REFER RECIRC RECIRCULATE	00 OVERFLOW DRAIN(ABOVE CEILING)		GATE VALVE, HVAC BALANCING/STOP VALVE GLOBE VALVE BALL VALVE		PLUMBING DRAWING NOTE REFERENCE		
W ACID WASTE WS AMERICAN WELDING SOCIETY UX AUXILIARY	G	RED REDUCER REFR REFRIGERATOR REINF REININGFORCING			BALANCING VALVE WITH DIFFERENTIAL PRESSURE TAPS OSAY VALVE	2 P2.1	DETAIL NUMBER OR PLAN SHEET WHERE DETAIL OR PLAN IS SHOWN		
B	G GAS GA GAUGE GAL GALLON GALV GALVANIZED	REQD REQUIRED REV REVISION, REVISE	ACID WASTE(BELOW FLOOR)	%°72	CHECK VALVE BUTTERFLY VALVE TWO-WAY MODULATING CONTROL VALVE	FS	FLOW SWITCH		
BOILER C BELOW COUNTER C BACK OF CURB		RM ROOM RPM REVOLUTIONS PER MINUTE RTU ROOFTOP UNIT RV RELIEF VALVE	ACID VENT(ABOVE CEILING OR BELOW FLOOR)		THREE-WAY MODULATING CONTROL VALVE	1000000	FIRE HOSE CABINET		l f
3F BELOW FLOOR SFV BUTTERTLY VALVE 3H BOX HYDRANT LLCG BULDING		SCHED SCHEDULED	HOT WATER(FINAL DELIVERY TEMPERATURE AS NOTED) HOT WATER RECIRCULATION(TEMPERATURE AS NOTED)		PRESSURE REDUCING VALVE		FIRE DEPARTMENT SIAMESE CONNECTION(WALL MOUNTED)		
BM BENCHWARK BOF BOTTOM OF FOOTING	Н НВ НОСЕ ВВВ НО НЕАО, НИВ ОРАИN НОРИ: НОСЕРОИЕК НР НОСЕРОИЕК	SCHED SCHEDULED SD STORM DRAIN SE SEWAGE EJECTOR SEC SECONDARY	G G NATURAL GAS T		GAS REGULATOR GAS COOK SPRINKLER FLOOR CONTROL STATION	d,	FIRE DEPARTMENT SIAMESE CONNECTION(FREE STANDING)		
BOS BOTTOM OF STRUCTURE BT BATH TUB BTU BRTISH THERMAL UNIT BY BLALL VALVE BNV BLACK WATER VALVE	HSC HORIZONTAL SPLIT CASE	SECT SECTION SF SQUARE FEET SFCS SPRINKLER FLOOR CONTROL STATION SH SHOWER SH SHOWER	CA COMPRESSED AIR		MANUAL AIR VENT Automatic air vent	2 P7.1	PLUMBING RISER DIAGRAM NUMBER Sheet where plumbing riser diagram is shown		
BWV BACK WATER VALVE	HT HEIGHT HTG HEATING HTR HEATING HTR HEATER HW HOT WATER	SHT SHEET SM SMLAR SK SINK SP SJANP PUMP, STATIC PRESSURE		f*	T&P RELIEF VALVE LINE CLEANOUT/ WALL CLEANOUT				U Ш
C CELSIUS XMB CABINET 28 CATCH BASIN 20 CONDENSATE DRAIN LINE	HW HOT WATER HWR HOT WATER RETURN HWS HOT WATER SUPPLY HZ HERTZ	SPEC SPECIFICATION SPE SPENKIFE	F F F F FRE STANDPIPE, FIRE UNE		FLOOR CLEANOUT YARD CLEANOUT				
CFM CUBIC FEET PER MINUTE CFS CUBIC FEET PER SECOND	D INSDE DIAMETER IE INVERT ELEVATION	SQUARE SQUARE SS SERVICE SINK SSD SUBSURFACE DRAIN SSFU SANITARY SEWER FIXTURE UNITS		<u> </u>	PRESSURE GAUGE WITH GAUGE COCK				
CH CHILLER CP CIRCULATING PUMP CI CAST IRON	IN INCH INSUL INSULATION INT INTERNAL, INTERIOR	SSO SUBSURFACE DRAW SSFU Sawitary Sever Fixture Units STD Standard STL Stell STR Steamer Surf Superace	URAIN LINE 		THERMOMETER WATER METER FLEXIBLE CONNECTION				SEI
CIRC CIRCULATING CL CENTERLINE CLG CEILING CLR CLEAR	IN INDRECT WASTE J JP JOCKEY PUMP	SURF SURFACE SUSP SUSPENIO SV SANITARY VENT SW SOFT WATER			PRESSURE AND TEMPERATURE TAP FLOW VENTURI				
CMU CONCRETE MASONRY UNIT CPI CAST IRON PIPE INSTITUTE CPVC CHLORINATED POLYWNYL CHLORIDE CO CLEAN OUT	к	T TRENCH DRAIN	-	Q	VACUUM BREAKER VACUUM RELIEF VALVE				
COL COLUMN COMB COMPINATION	KEC NOTHEN EQUIPTMENT CONTRACTOR KO KNOCKOUT KVA KILOVOLT-AMPS KW KILOVOLT-AMPS	TOH TOTAL DYNAMIC HEAD TH BLK THRUST BLOCK TP TRAP PRIMER			BACKFLOW PREVENTOR CIRCULATING PUMP				Z
COMPRESSOR DONC CONCRETE, CONCENTRIC DONN CONNECTION CONT CONTUNUS, CONTINUATION	L LENGTH, LAVATORY LAV LAVATORY	TPD TRAP PRIMER DEVICE TYP TYPICAL	GENERAL NOTE - PLUMBING FIXT	JRES		1			0
CONTR CONTROLLER, CONTRACTOR CRAC COMPUTER ROOM A/C UNIT CTR CENTER	LAY LINEAR REET LF LINEAR REET LP LOW PRESSURE LRA LOOKDE ROTOR AMPS LVL LEVEL LWCO LOW MATER CUT OFF	U URINAL UCO UNDER CUT DOOR UIG UNDERGOUND	MOUNTING HEIGHT ELEVATION OF ALL WALL HUNG OR COUNTER MOUNTED FIXTURES SHA ARCHTECTURAL DRAWINGS PROR TO INSTALLATION OF ROUGH-IN WORK.	LL BE COORDINATED WITH	•				0
CU COPPER CW COLD WATER	м	UCO LINDER CUT DOOR UG LINDERKOUND - UH UNIT HEATER UL UNDERMITTERS LABORATORES, INC. UNO UNLESS NOTED OTHERWISE U/F UNDERLOR U/S UNDERLOR	 FOR ALL FIXTURES AND EQUIPMENT WITH ASSOCIATED TRIM OR COMPONENT ACCESSORIE SEPARATE DIVISIONS AND REQUIRING PLUMBING CONNECTIONS; THIS CONTRACTOR SHALL REQUIREMENTS OF, MAKE PROVISIONS FOR, AND SUPPLY ALL MATERIALS AND LABOR FC CONNECTIONS. 	s provided under Field coordinate exac R Maxing Final	π				NN NN
D	MAX MAXIMUM MBTUH THOUSANG OF BTU'S MC MECHANICAL CONTRACTOR MECH MECHANICAL	U/F UNDERFLOOR U/S UNDERSLAB	 CONTRACTOR SHALL REFER TO SHOP DRAWINGS OF EQUIPMENT TO BE SUPPLED FOR FU ROUGH-IN OPENINGS BEFORE BEGINNING WORK. ALL FIXTURE AND EQUIPMENT STUB-OUTS SHALL BE PROVDED WITH A STOP VALVE. ALL 	NAL COORDINATION OF A					57
D DEPTH, DRAIN, DRYER DESIG DESIGNATION DIL DETAIL F DRINKING FOUNTAIN	MFR MANUFACTURER MH MANHOLE MI MALLEABLE IRON	V VOLT, VENT	SOLID BRASS, LOOSE KEY OPERATED, CHROME PLATED (WHERE EXPOSED), AND FITTED ' BRASS WALL ESCUTCHEON PLATES. SUPPLY RISERS SHALL BE STAINLESS STEEL FLEXIBL	ight to chrome plated e connectors.					
F DRINKING FOUNTAIN IA DUAMETER MI DIMENSION NSC DISCOMECT NI DOWN IS DOWNSPOUT, DOUBLE SUCTON	MN MINIMUM MP MEDUM PRESSURE MS MOP SINK MTD MOUNTED MU MAKE-UP	V VACI VENT VAC VACUMMEDICAL) VB VALVE BOX, VACUM BREAKER VCP VITRIED CLAY PPE VET VELOCITY	6. ALL P-TRAPS WITHIN THE BULDING, AGOYE CRADE, WID EXPOSED TO INSPECTION SHALL BRASS WITH CLEAROUT PLUG, PROVIDE CAST BRASS SLP NOTS AN UNSPERS, T7 000, DRIANT WILL AND BULL PLANCE, PROVIDE NOURIE NO. 89720, 1-1/4" P-TRAP FOR SWLAR RIXTURES PROVIDE MICRUE NO. 89720, 1-1/2" P-TRAP FOR ALL SINKS AND SWLAR RIXTURES PROVIDE MICRUE NO. 89720, 1-1/2" P-TRAP FOR SWLAR RIXTURES PROVIDE MICRUE NO. 89720, 1-1/4" P-TRAP FOR SWLAR RIXTURES PROVIDE NO. 89720, 1-1/4" P-TRAP FOR SWLAR RIXTURES PROVIDE NO. 89720, 1-1/4" P-TRAP FOR SWLAR RIXTURES SWLAR RIXT		ASS				© 2008 M Unauth prohibit
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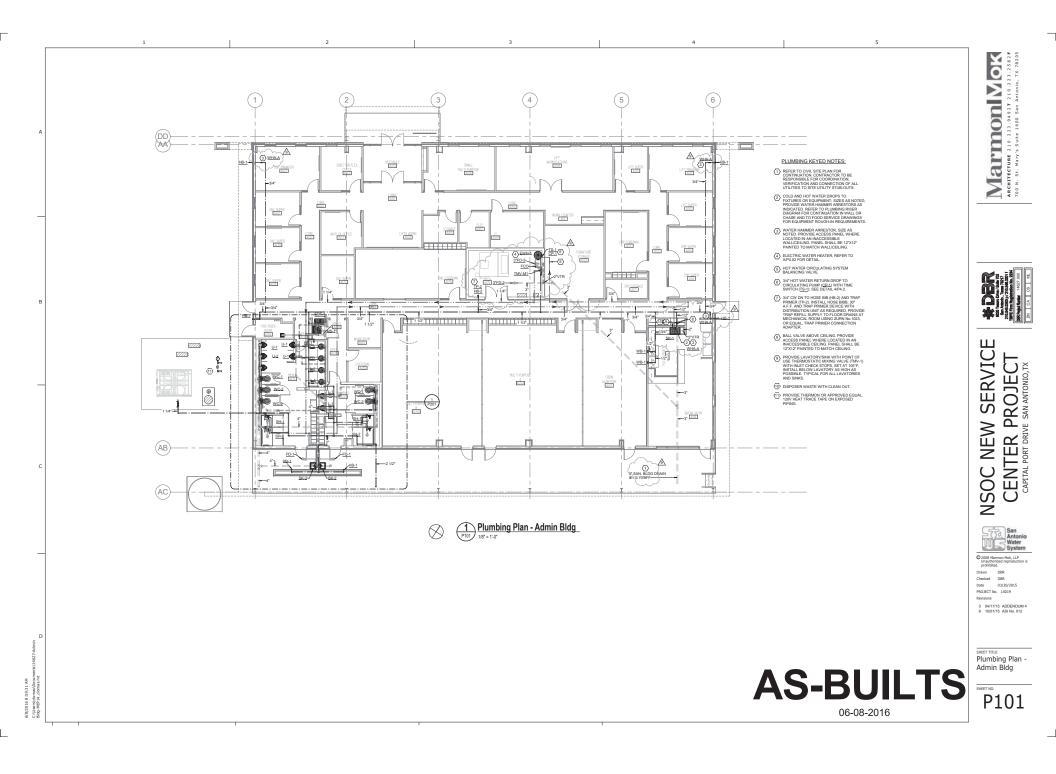
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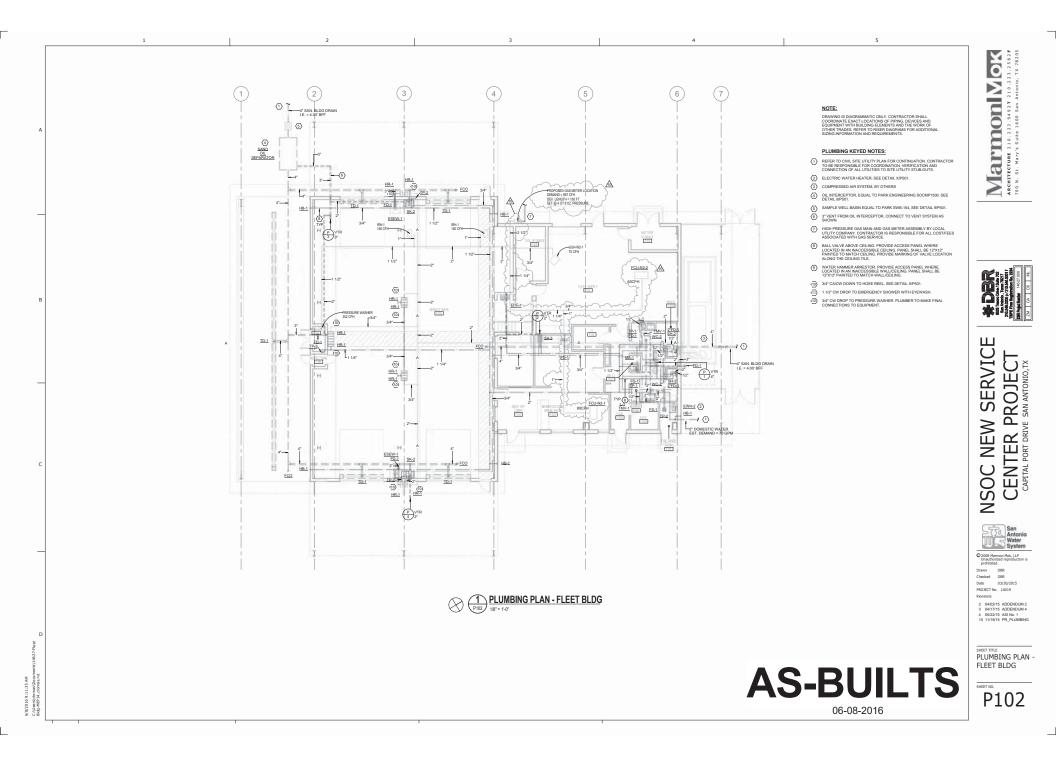
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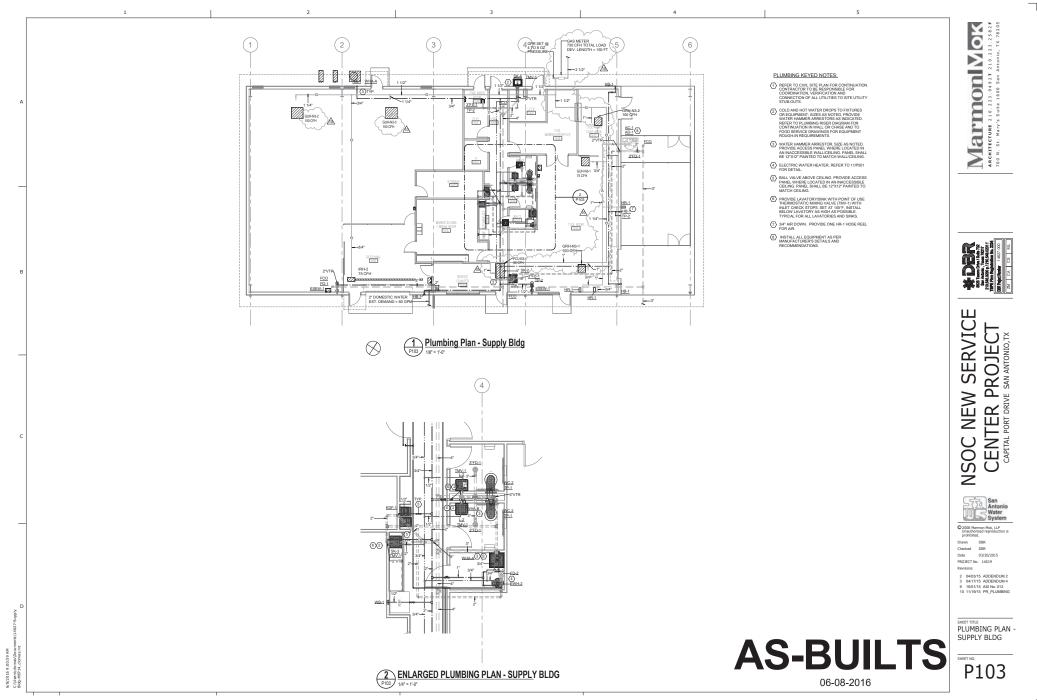
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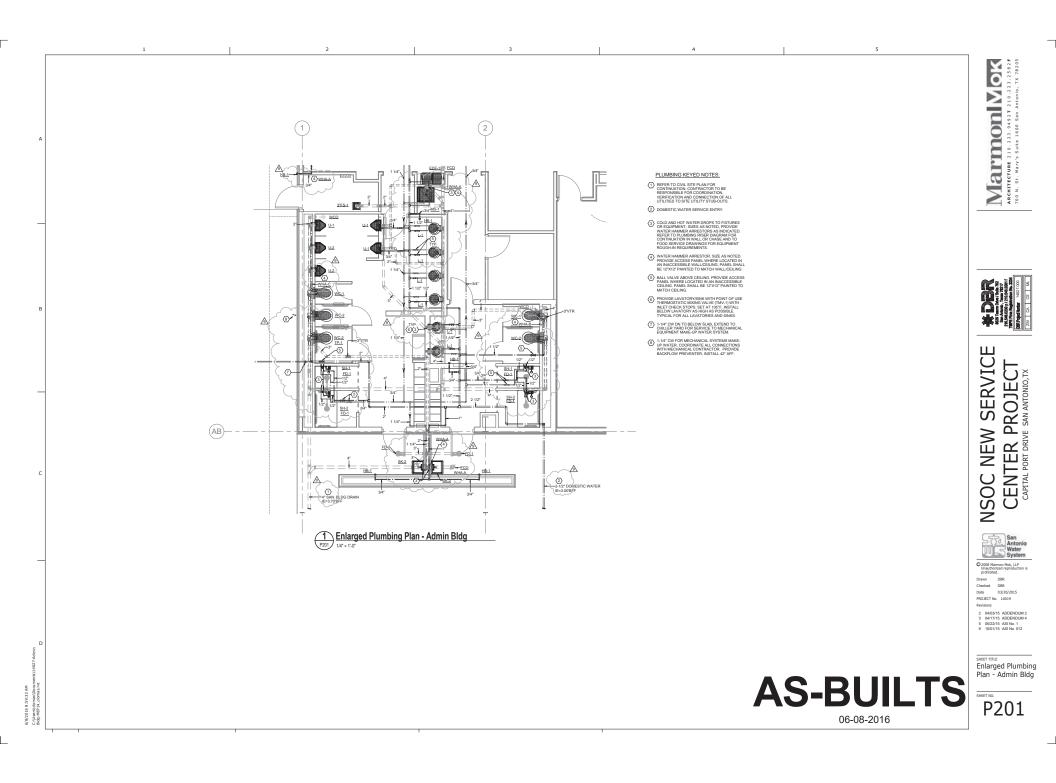
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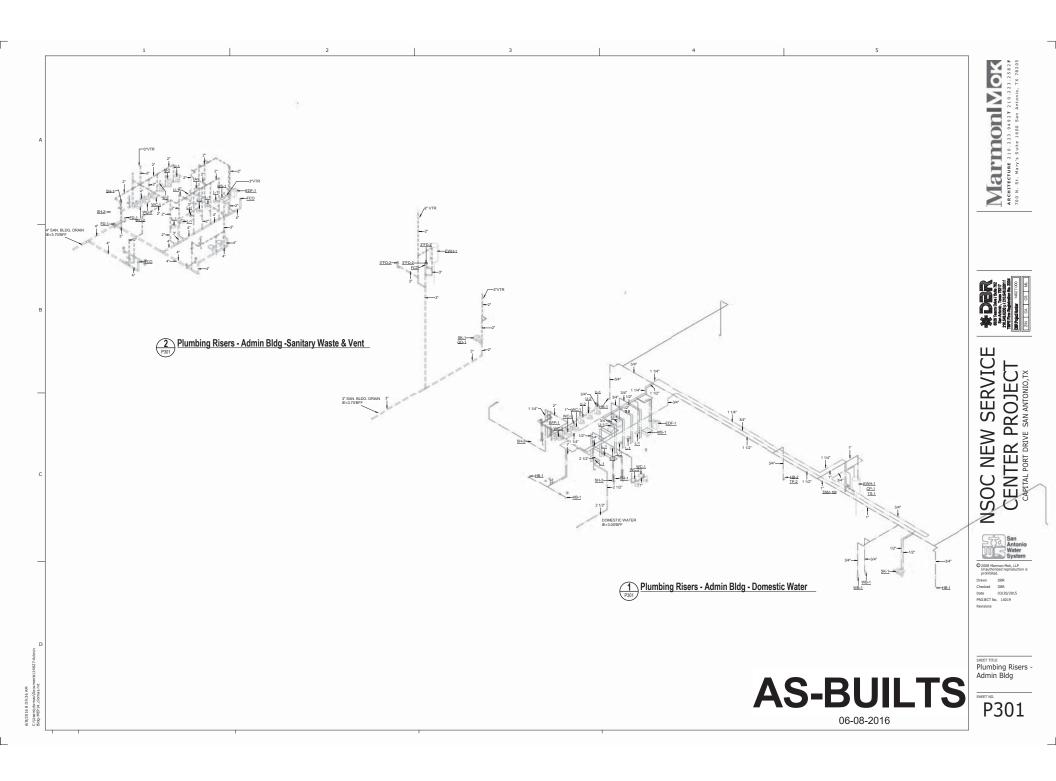


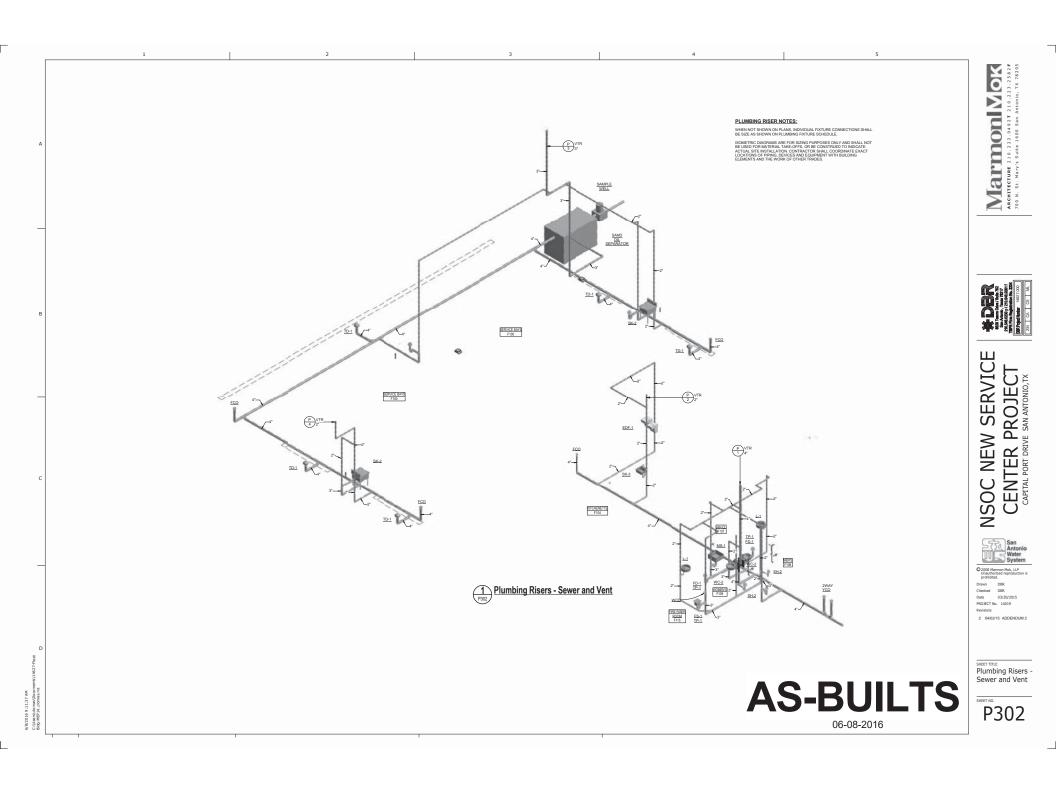


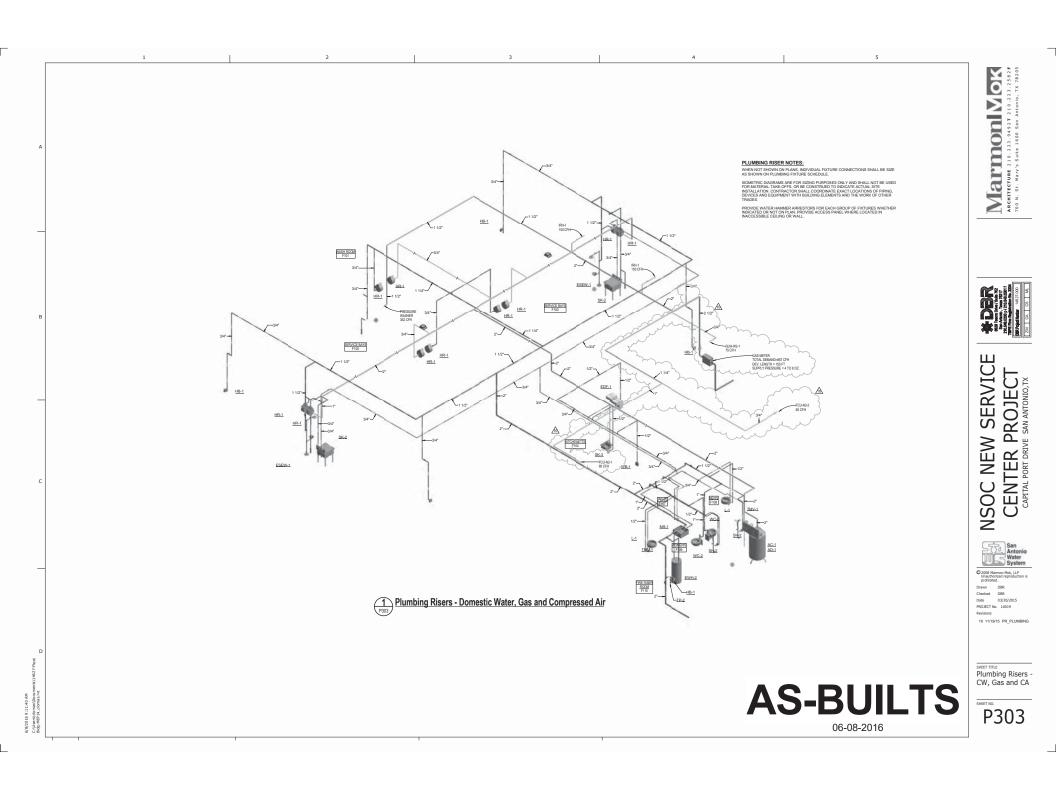


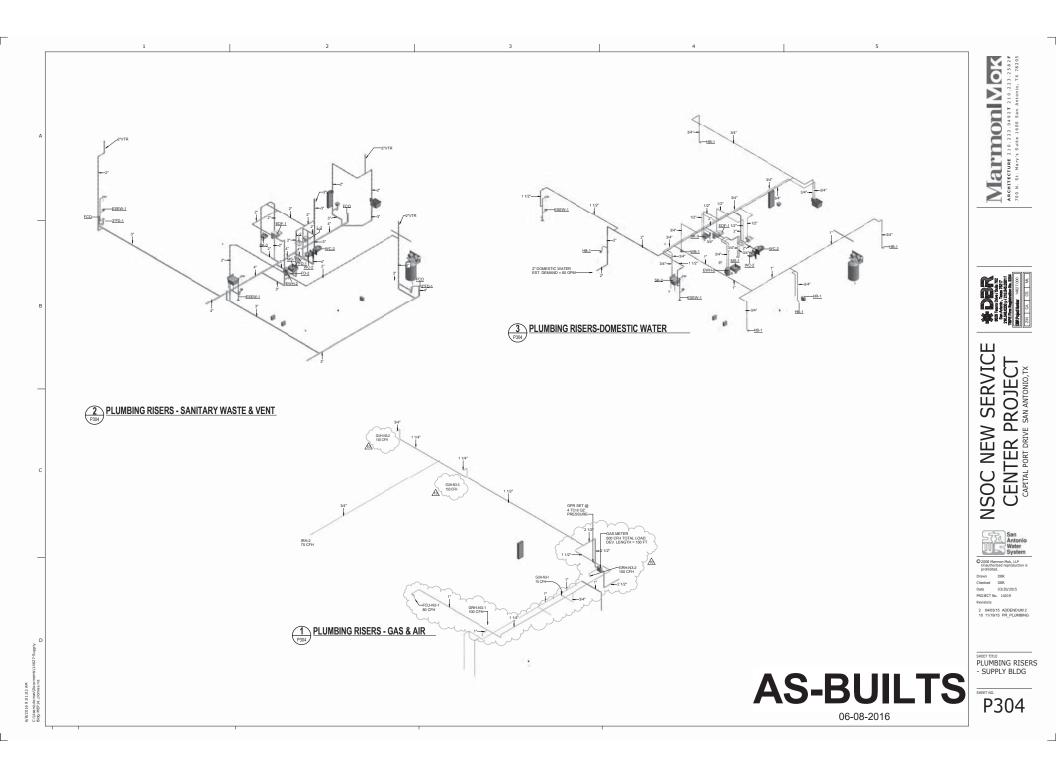












GENERAL NOTE - PLUMBING FIXTURES

- MOUNTING HEIGHT ELEVATION OF ALL WALL HUNG OR COUNTER MOUNTED FIXTURES SHALL BE COORDINATED WITH ARCHITECTURAL DRAWINGS PRIOR TO INSTALLATION OF ROUGH-IN WORK.
- FOR ALL FIXTURES AND EQUIPHENT WITH ASSOCATED TINU OR COMPONENT ACCESSORES PROVIDED UNDER SEPARATE DIVISIONS AND REQUIRING PLUMBING CONNECTIONS: THIS CONTINUES SHALL FEED CORTINUES EXACT REQUIREMENTS OF, MARE PROVISIONS FOR, AND SUPPLY ALL MATERIALS AND LABOR FOR MAKING FIRAL CONNECTIONS.
- CONTRACTOR SHALL REFER TO SHOP DRAWINGS OF EQUIPMENT TO BE SUPPLIED FOR FINAL COORDINATION OF ALL ROUGH-IN OPENINGS BEFORE BEGINNING WORK. ALL FIXTURE AND EQUIPMENT STUB-OUTS SHALL BE PROVIDED WITH A STOP VALVE. ALL FIXTURE STOPS SHALL BE SOLD BRASS, LOSS LEV OPERATED, CHROME FLATED (WHERE EXPOSED), AND FITED TIGHT TO CHROME PLATED BRASS WALL SECUTIONED MATERS. SUPPLY RESPERS SHALL BE STANLESS STEEL TREAMES CONCECTORS.
- ALL P-TMAPS WITHIN THE RULENCE, ABOVE GRADE AND EXPOSED TO INSPECTION SHALL BE C.P. ADJUSTABLE, CAST BRASS WITH CAROUT FUCE. ROWOUC CAST BRASS SUP NISTS AND UNBERS, 17 CACE SEAMESS THRUTA BRASS DRAIN TO WALL AND WALL FLANCE. RROWOUC GAST BRASS SUP NISTS AND UNBERS, 17 CACE SEAMESS THRUTA BRASS DRAIN TO WALL AND WALL FLANCE. RROWOUC GASTBRASS TO REAL TO AND THE ADATA TO RAIL LAVATORIES AND SMILAR RITHERES RROWOUC GASTBRASS. NO. 5126, 1-127 TRAP FOR ALL SMISS AND SMILAR RITHERES.
- PROVIDE DEEP SEAL P-TRAP FOR ALL DRAINS OF INFREQUENT USE OR REQUIRING TRAP PRIMER.
- ALL ROUGH IN OPENINGS SHALL BE FITTED WITH CHROME PLATED, WROUGHT BRASS DEEP BELL OR BOX ESCUTCHEON PLATES FITTED TIGHT TO THE PIPE AND FLUSH TO THE WALL. STEEL ESCUTCHEON PLATES ARE NOT ACCEPTED. 9. ALL EXPOSED BRASS SHALL BE CHROME PLATED.
- A LI LO VILLE VIRGO STALLE DE ORIGIE FAARD. 16. ALL HARDOVERS DE CRISERE FAIRDE SENCIDE WIN DE SUILLE FROMED OF MYRRING THES AND WITH ROMANIES AND ROTALLE TO REPORTS MIL OLD VIENT STALLE CRISERED ST AMERICANS WITH DEGAULTIS ANT (AUCA). FITTAIS SUIL AND/WITH ALL TERSENED STALLESCORE OF AMERICANS. DE CRISERE ON THE CRISERE STALLE TO REPORT OF ALL ADAMAN FROM TED AND ANALASE. FOR INTEGED RECEMBER CRISERENS, PRIVATE TOTALES WITH COTTER ALL ADAMAN FROM TED ANALASE. FOR INTEGED FRAME, SCIENCERENS, PRIVATE TOTALES WITH COTTER ALL ADAMAN FRAMETED ANALASE. FOR INTEGED FRAME, SCIENCERENS, PRIVATE TOTALES WITH COTTER ALL ADAMAN FRAMETED ANALASE. FOR INTEGED FRAME, SCIENCERENS, PRIVATE TOTALES WITH COTTER ALL ADAMAN FRAMETED ANALASE. FOR INTEGED FRAME, SCIENCERENS, PRIVATE TOTALES WITH COTTER ALL ADAMAN FRAMETED ANALASE. FOR INTEGED FRAME (SCIENCERENS, PRIVATE TOTALES WITH COTTER ALL ADAMAN FRAMETED ANALASE. FOR INTEGED FRAME (SCIENCERENS, PRIVATE TOTALES WITH COTTER ALL ADAMAN FRAMETED ANALASE. FOR INTEGED FRAME (SCIENCERENS, PRIVATE TOTALES WITH COTTER ALL ADAMAN FRAMETED ANALASE. FOR INTEGED FRAME (SCIENCERENS, PRIVATE TOTALES WITH COTTER ALL ADAMAN FRAMETED ANALASE. FOR INTEGED FRAME (SCIENCERENS, PRIVATE TOTALES WITH COTTER ALL ADAMAN FRAMETED ANALASE. FOR INTEGED FRAME (SCIENCERENS, PRIVATE TOTALES WITH COTTER ALL ADAMAN FRAMETED ANALASE. FOR INTEGED FRAME (SCIENCERENS, PRIVATE SCIENCERENS) FRAMETED ANALASE. FOR INTEGED FRAME (SCIENCERENS, PRIVATE FOR THE SCIENCE FOR FRAME ANALASE. FOR INTEGED FRAME (SCIENCERENS) FRAMETED ANALASE. FOR INTEGED FOR FRAMETED ANALASE. FOR INTEGED FRAMETED ANALASE. FOR FRAMETED FOR F
- 11. ALL WHEELCHAIR LAVATORY AND SINK PIPING WHERE EXPOSED SHALL BE INSULATED. PROVIDE OFFSET DRAIN FITTINGS WHERE REQUIRED TO PROVIDE MINIMUM CLEARANCES. REFER TO SPECIFICATIONS SECTION 224000
- 12. ALL SINKS FOR HANDICAPPED USE SHALL BE STAMPED WITH DRAIN OUTLET AT REAR OF BOWL
- PLUMBING FIXTURES SHALL BE OF WATER CONSERVATION TYPE IN ACCORDANCE WITH PLUMBING CODE REQUIREMENT FOR WATER SAVING PERFORMANCE. LAVATORY AND SINK FAUCETS SHALL INCLUDE 2.2 GPM FLOW CONTROL.
- 14. ORIENT ADA WATER CLOSET FLUSH VALVE WITH OPERATOR ON WIDE SIDE OF ENCLOSURE.
- 15. SEAL ALL SPACES BETWEEN PLUMBING FIXTURES AND MOUNTING SURFACES WITH WHITE LATEX CAULK WPED SMOOTH AND FLUSH WITH FIXTURE.

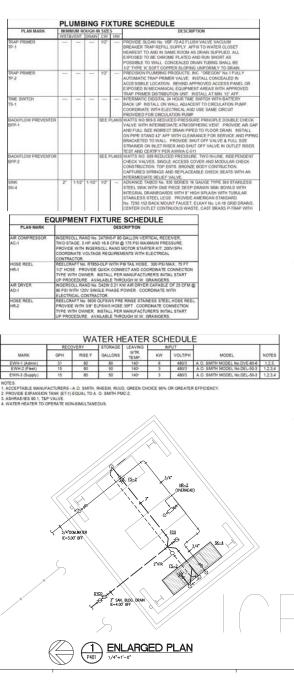
PLUMBING GENERAL PLAN NOTES:

- $\langle \overline{A} \rangle$ dramage pping invert levations noted on floor plans as: inv. E.= 0.00' BFF are below finished floor taken from first floor finished elevation of 0.00' to inside bottom of ppe.
- $\langle B \rangle$ plumber shall field very exact bulding finished floor elevation and the invert elevation of all drain lines at proposed connecting points with site ovil utilities prior to installation of bulding pipting.
- C ALL PIPE PASSING THROUGH FIRE RATED WALLS OR FLOOR SLABS SMALL BE SUPPORTED AT PENETRATION AND OPENINGS SHALL BE SEALED WITH APPROVED, NON-HARDENING, FIRE STOP WATERIALS AS SPECIFIED OR REQUIRED.
- CONTRACTOR SHALL COORDINATE WITH THE STRUCTURAL CONDITIONS AT THE SITE AND PROVIDE PROPER ROUGH-O CONNECTIONS REQUIRED WITHOUT DWAMGE TO STRUCTURE, WHERE STRUCTURAL WOORGANIONS ARE NECESSARY, CONTRACTOR SHALL RIST RECOVER WITH THE APPROVIN, OF THE ARCHITECT AND STRUCTURAL REMORE.
- THIS CONTRACTOR SHALL BE RESPONSELE FOR FIELD COORDINATING LOCATIONS AND ELEVATIONS OF ALL PLUMBING PIPING WITH OTHER TRADES PRIOR TO INSTALLATION. CORRECTIONS OR RELOCATIONS QUE TO MISAUGNED PPE SHALL BE PERFORMED IN A TIMELY MANNER AT NO ADDITIONAL COST TO OWNER.
- E DO NOT SCALE THE PLUMBING DRAWINGS FOR ROUGH-IN WORK, CONTRACTOR SHALL REFER TO THE DIMENSIONED ARCHITECTURAL AND STRUCTURAL DRAWINGS TO FIELD DETERMINE EXACT LOCATIONS OF PLUMBING ROUGH-IN WORK.
- (F) SANTTAY DRAINGE PRING 2" NO SAULER SHULL HAVE A UNITORN MINIMUM CONTINUOUS SLOPE OF 1/4 INCH PER FOOT OF RUN. DRAINAGE PRING OF 3" SIZE WID LARGER SHULL SLOPE MINIMUM 1/8 INCH PER FOOT OF RUN. SLOPE ALL HENT PRING MINIMUM OF PER 100 FEET OF RUN BACK TO DRAIN.
- STORM DRAINAGE PIPING SHALL HAVE A UNIFORM MINIMUM CONTINUOUS SLOPE OF 1/8 INCH PER FOOT OF RUN. SLOPES OF 1/4 INCH PER FOOT ARE PERMITTED WHERE NOTED ON PLAN OR AS REQUIRED.
- PROVIDE BRUCHED TO ME VOLUMENT AUEL NOTED ON FLAN OR AS REQUERED.
 PROVIDE BRUCHED TO PREVENT AUEL NOTED TO PLAN OR AS REQUERED.
 PROVIDE BRUCHEN AUEL NOTED TO PLAN OF AS REQUERED.
 PROVIDE BRUCH AUEL AUEL STORM DRAINLE PROVIDE AUEL AUEL STORM DRAINLE AUEL STORM
- ✓ PROJECE NO. NETILL SLENOTS AT EAC OWNER OF DESCEND NF THE INLERING SANTANY DAMA, IN NAMANA 75' INTERNAS A LOSS D'RIGHT RING OF MAN DRAW NO BANCHES, AT LOSI INFORMATIL CHARKE OF DISECTION IN OUL OR WASTE PROJECTARIES IN AN OF DESCENT, AT DO OF DIAMOUS BROWNED PROVIDE DRAWS LONGER THAN 5'. PROVIDE OF LOSS DESCENT IN AN A DESCENT AND A DESCENT A DESCENT AND A D
- PROVIDE FITTINGS FOR SANITARY DRAIN WASTE AND VENT PIPING SYSTEMS IN COMPLIANCE WITH INTERNATIONAL PLUMBING CODE SECTION 708.
- Install each water heater and all plunding equipment with adequate clearances for access by service K personnel and with proper orbitation for element removals/replacements.
- PROVER STATUTOR VILLES FOR ALL BRANDES OF DOMESTIC WATE MANS, ALL PLANEND SYSTEM VALVES SHALL BE
 CONTRACT TO A CONTRACT OF THE ADDRESS OF DOMESTIC WATE SHALL BE ADDRESS OF THE A
- N THIS CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD COORDINATING LOCATIONS OF ALL SANITARY VENTS UP THROUGH ROOF TO MAINTAIN MINIMUM 15' CLEARANCE TO ANY BUILDING OUTDOOR AIR INLET.

SIZE

06-08-2016 SHOCK ARRESTOR SCHEDULE O SYMBOL FIXTURE 1-11 1/2" NP1 (A) 12-32 3/4" NPT 33-60 1" NPT 61-113 1 1/4" NPT 114-154 1 1/2" NPT 155-330 2* NPT $\langle F \rangle$ PIPING RISER DUARAMS ILLUSTRATE SHOCK ARRESTORS AND AIR CHAMBERS FOR FIXTURE WHER PIPE OPENNOS. AIR CHAMBERS, WHERE USED, SHALL BE SZED AN TOTE UN FLUMENON RISER DETAIL ON THIS SHEET OR PER PLUMBING CODE RECURRENTS, WHICHEVER PLACES THE UGOT STRINGENT REQUIREMENT. AT CONTRACTOR OPTION, AIR CHANBERS MAY BE OMITTED AND REPLACED WITH ASME 1998 FRE-CHARGED SHOCK ARRESTOR FITTING SIZED AND LOCATED IN ACCORDANCE WITH P.D.I. STANDARD WH-201 SHOCK ARRESTORS SHALL HAVE LIFETIME WARRANTY AND SHALL BE CERTIFIED BY THE MANUFACTURER TO BE SUITABLE FOR INSTALLATION WITHOUT REQUIREMENT FOR ACCESS DOORS.

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PLAN MARK	PLU	UME	ING	FIZ		RE SCHEDULE
	WST	NUM RO	ORAIN	CW	HW	
WATER CLOSET WC-1	4	r	4	4.	-	WELOUGHBY No.ETWS-1490-CM-TS, WALL MOUNT ELONGATED SIPHON JET (1.28 GPF) BOWL WITH TOP SPUD. PROVIDE TOLET ZURN CARRER OR EQUAL SLOAN NO.111-1.28 ES-S TMO-TP-EL154 (1.28 GPF) POWERED FLUSH
WATER CLOSET						VALVE WILLOUCHEY No ETWS-1490-CM-TS, WALL MOUNT ELONGATED
w0-2		r.	°.	r	-	WELCOUCHEY No.ETWS-1409-CM-TS, WALL MOUNT ELCNGATED SIPHON JET (1.28 GPF)BOWL WITH TOP SPUD. PROVIDE TOLET ZURN CARRER OR EQUAL SLOAN No.111-128 ES-5 TMO-TP-EL154 (1.28 GPF) POWERED FLUSH
	-	1.1/2*	1.1/2*	314		
URNAL U-1	T	1-1/2"	1-1/2*	24.	-	VALCOUGHBY No.1317-HEU-UW-TS-125, WALL HUNG URNAL 3/4" TOP SPUD. PROVIDE SLOAN OPTIMA No.180-0, 125-ES-8 EL-154 POWERED FLUSH VALVE.
URNAL	2	1-12	1-12"	3/4"	-	ZURN OR EQUAL FLOOR MOUNTED CARRER WELDUCHEY No.1317-HEU-UW-TS-125, WALL HUNG URNAL 3/4" TOP SPUD. PROVIDE SLOAN OPTIMA
1.2 5						
LAVATORY	2'	1-1/2"	1-1/4"	1/2"	1/2"	ZURN OR EQUAL FLOOR MOUNTED CARRER ELKAY 'ASANA' MODEL ELUH1511 SINGLE BOWL
6						UNDERMOUNT LAVATORY WITH SNOLE HOLE, BACK OVERFLOW, PROVIDE SLOAN No.ETF-000LT EL-154 MIX-00AELECTRONIC FAUCET POWER SUPPLY (0.5GPM), FIXED GRID DRAIN, CHROME PLATED
LAVATORY	2	1-1/2"	1-1/4*	1/2"	1/2"	BRASS P-TRAP STOPS AND SUPPLIES WELOUGHBY No ES-1015HC-DMS-NV(2) WALL MOUNT LAVATORY
L2						TWO HOLES, BACK OVERFLOW, PROVIDE SLOAN No ETF-600-LT EL-154 MIX60-AELECTRONIC FAUCET (0) SOPMI, FORD GRUD DRAIN, CHROME PLATED BRASS P-TRAP
	24	2	1.1.2"	1/2*	1/2*	STOPS AND SUPPLIES. ELKAY No. ELUHAD-3216-55 "LUSTERTONE" UNDERMOUNT STAINLESS STEEL SINK. PROVIDE CHICAGO No.2014GNBAE3-317CP
SNK SK-1				<u> </u>		
SNK	7	2	1-12	12	1/2"	No. LK-18 GRD DRAIN STRAINERS, TALPIECE, LK-53 CONTINUOUS WASTE, CAST BRASS P-TRAP WITH CO, STOP AND SUPPLES JUST No. SS-124 ONE COMPARTMENT SQUARE CORNER
SK-2 SHOP SINK SCULLERY						STAINLESS STEEL (304) SINK WITH JUST SINK FAUCET No. JS-48-TAI EXPOSED ON & CENTER. SOLID HEAVY DUTY CAST BRASS BODY, OURCAME PLATED BRASS SOAD DISH CAST BRASS D.TRAD WITH
SNK	2	1-1/2"	1.1.2"	1/2"	1/2"	CO. STOP AND SUPPLES. ELKAY No ELUHAD-1415-55 "LUSTERTONE" UNDERMOUNT
SK-3 1-COMPARTMENT						STAINLESS STEEL SINK. PROVIDE AMERICAN STANDARD No. 8275.002.342V GOOSE-NECK FAUCET WITH BRASS LEVER HANDLES, AND SWING SPOUT, ELKAY No. LK-18 GRD DRAIN STRAINER,
		L				PROVICE OFFSET TALPECE AND INSULATION KIT WHERE FIXTURE
SNK	2	1-1/2"	1-1/2"	3/4"	34	ELKAY No. EWS2520W6C, 14 GAUGE, TYPE 304 STAINLESS STEEL
SK-4 SCRUB-UP SINK						TALPECE, CAST BRASE PITADE VITHO CO STODE AND SUPPLIES. THRONGE OFFELT TALPECE AND AUXILATION RT VITAGES STELE TEXAY TAL SUPPLICATION REPORTS OF THE SAS TATALESS STELE SCRUD-DP SINK, MALL MOUNTED, LYARONSTRA CHICARE PLATED SCRUD-DP SINK, MALL MOUNTED, LYARONSTRA CHICARE PLATED STREND FOR THE SUPPLICATION REPORTS OF THE SAN THROUGH AND STREND THE SUPPLICATION REPORTS. UNITS TANLESS STELE LA PERCE.
SHOWER	T	E	T.	1/2"	1/2"	TAILPIECE. JWLLOUGHBY JAL CWRS FA TR APS, FROM MOUNTED RECESSED
SH-1						TALPECE. UNLOUGHT M. CWBS-FA-TR APS_FRONT MOUNTED RECESSED SHOWER. TH GAUGE, TYPE 304 STANLESS STEEL WITH EXPOSED STANLESS STEEL SUIFACE POUSHED SATIN FINISH. 18 GAUGE GALVANIZED STEEL FRAME.
SHOWER SH-2	T	7	1	1/2"	1/2"	GALVANZED STEEL FRAME WELCOUCHEV No CWEPS-200-TP-APS-HL, FRONT MOUNTED RECESSED ANNOLAS INCIDENT, 16 GAUGE, TYPE 304 STANLESS STEEL WITH EXPOSED STANLESS SURFACE POLISHED SATIN
6						FINISH. 18 GAUGE GALVANDED STEEL FRAME, FORD SHOWER HEAD AND HAND HELD FLEXBLE SHOWER. BRADLEY OR APPROVED EQUAL COMBINATION UNIT No 519-310UU
EMERGENCY SHOWER EMERGENCY EYEWASH COMBINATION		-	_	1-114"	=	BRADLEY OR APPROVED EQUAL COMBINATION UNIT No 519-31000 EYEWASH WITH STAINLESS STEEL BOWL SOFT FLOW SPRAY
COMBINATION ESEW-1						EYEWASH WITH STANLESS STEEL BOWL, SOFT FLOW SPRAY HEADS AND PUSH TYPES STAY OPEN VALVE, GREEN ABS SHOWER HEAD WITH PULK ROD AND STAY OPEN VALVE, BOTH MOUNTED ON PIPE STAND WITH FLOOR FLANGE ANCHORED TO FLOOR PROVIDE UNVERSAL SIGN. WITH FLOOR SWITCH ALARM SYSTEM
GARBAGE DISPOSER						MODEL 519-320
GD-1 FOOD SERVICE						WITH DISHWASHER DRAIN CONNECTION. PROVIDE AIR GAP FOR
ELECTRIC	1-1/2"	1-1/2*	1-1/2"	1/2"	-	ELKAY No. EZOSTLBC, BI-LEVEL ELECTRIC DRNKING FOUNTAIN.
FOUNTAN EDE-1						IN-SIRK-EINTOR MODEL BADGER 5, 15 HP GARBADE DEBPOSER WITH DERIVASHEER CANNE CONCENTION. PROVDE AR GAP FOR EACH DERIVASHEER CONNECTION. ELAXY INE ECOTION, SHLEVEL ELECTRIC DRIVING FOUNTAIN. LEAD FREE, WALL MOUNTED, WITH CHLER 4 O GRH OF SOCIE OF WITH BOOST FAMILIENT TEMP, 194 HP, 44 FL, AMPS, PROVDE P.TRAP AND TONOTTON VIDENDER
THERMOSTATIC	-	-	-	11	ř	POWERS NA LEMMAN SERVES MASTER TEMPERING VALVE 3 OPM
MOING VALVE TMV-M1						MINIMUM FLOW, OUTLET TEMPERATURE AT 120' WITH ADUSTABLE TEMPERATURE SETTING, SUPPLY FORTURE SHALL ALSO INCLUDE COPPER PIPING, BALL VALVES AND TEMPERATURE/PESSURE GAUGE FOR DIAGNOSTICS, CHECKSTOPS, ASSE 1017 AND CSA CERTIFIED.
THERMOSTATC	-	-	-	1/2"	VT'	CERTIFIED. POWERE No #40. PORT OF USE MOING VALVE.
TMV-1						DOWERS No 640, PONT OF USE MONG VALVE. 0.50PM, OULET TEMPERATURE AT 110 DEG. WITH ADJUSTABLE TEMPERATURE SETTING, CHECK TODOL 1000, 1000
MOP SINK	3"	2	r	34.	34	EAT No TERSON SAVENTS MOVINED STONE MORI SERVICE RASH
MS-1						CAULK CUTLET DRAN WITH N.B. STRANER, PRCVIDE FIAT MODEL No.830AA WALL MCUNT FAUCET WITH INTEGRAL STOPS, WALL BRACE AND VACUUM BREAKER, No.833AA HOSE AND
HOSE BER	-	-	-	314"		WALL BRACKET, AND No. BEOCO MOP HANGER
HOSE BIBB HB-1	-	-	-	.4	1	WALL BRACKET, AND No. BROCC MOP HANGER ZURN NO.21300 ENCASED ECOLOTINGL ANTI-SPHON AUTOMATIC ORIANIS WALL HYDRAIT. NON-FREEZE NTEGRAL BACKFLOW PREVENTER, BRONZE CASING
		-				3/4" MALE INLET, NICKLE BRONZE BOX WITH HINGED COVER WITH OPERATING KEY LOCK AND COVER WADE 8801MT HON-REMOVABLE COMBINED CHECK VALVE AND
HOSE BIBB HB-2 ICE MAKER BOX		-		34"	-	WADE 8801MT NON-REMOVABLE COMBINED CHECK VALVE AND VACUUM BREAKER AND LOOSE KEY OPERATING HANDLE. SKOUX CHEF No 886-1000MR ICE MAKER BOX
CE MAKER BOX WB-1	-	-		10"	-	DURABLE ABS, HIGH-QUALITY QUARTER-TURN BALL
FLOOR DRAIN	3'	7	3	-	-	AND STANLESS STEEL HOSE. WATTS No.FD-100A-1-7 CAST IRON DRAIN WITH (* DIAMETER STRAINER AND 1/2* IPS
						TRAP PRIMER CONNECTION (PLUGGED WHERE NOT REQUIRED) ZURN No. Z-508-S-0 CAST IRON DRAN WITH 9" DIAMTER DEEP
FLOOR DRAIN FD-2	3	2	-	-	-	FLANGE GRATE AND SECONDARY STRAINER. PROVIDE DEEP SEAL
FLOOR SINK FS-1	4"	. T .	40	-	-	MIFAB NG F\$1740FL, 12' SQUARE, 10' DEEP WITH TRAP GUARD CAST RON DRAN WITH ENAMELED INTERIOR, SEDMENT BUCKET AND HALF GRATE WITH SQUARE
TRENCH DRAIN	4	2		-	-	CENTER OPENING, (PLUGGED WHERE NOT REQUIRED) PROVIDE TRENCH DRAIN EQUAL TO ZURN No. 2466-HDPE-4 WIDE PRE-SLOPED POLY-ETHYLENE COMPOSITE 80° SEGMENTAL







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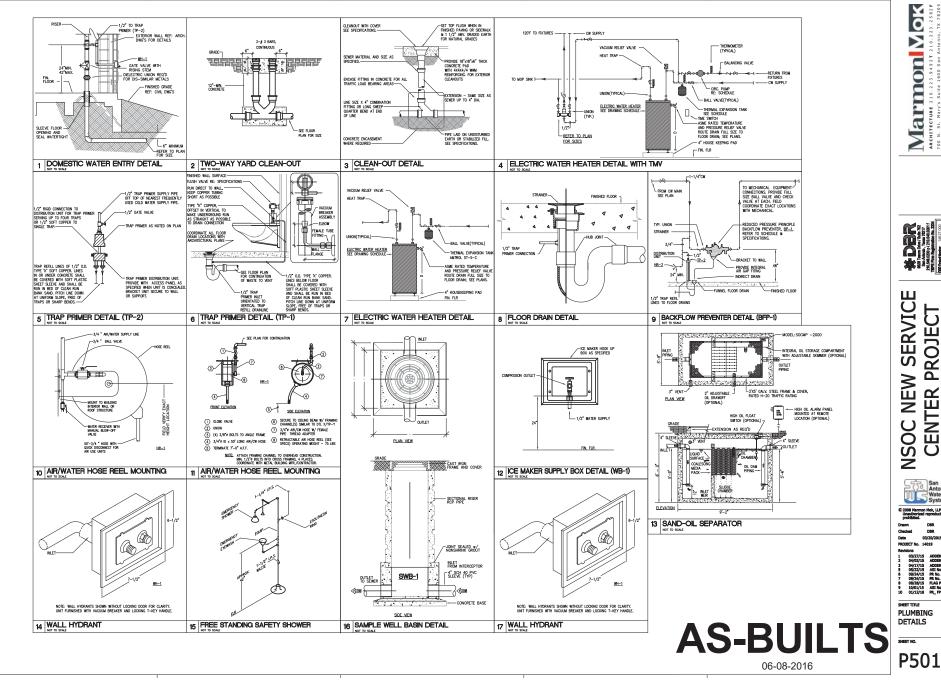


SHEET TITLE

SHEET NO.

PLUMBING SCHEDULES

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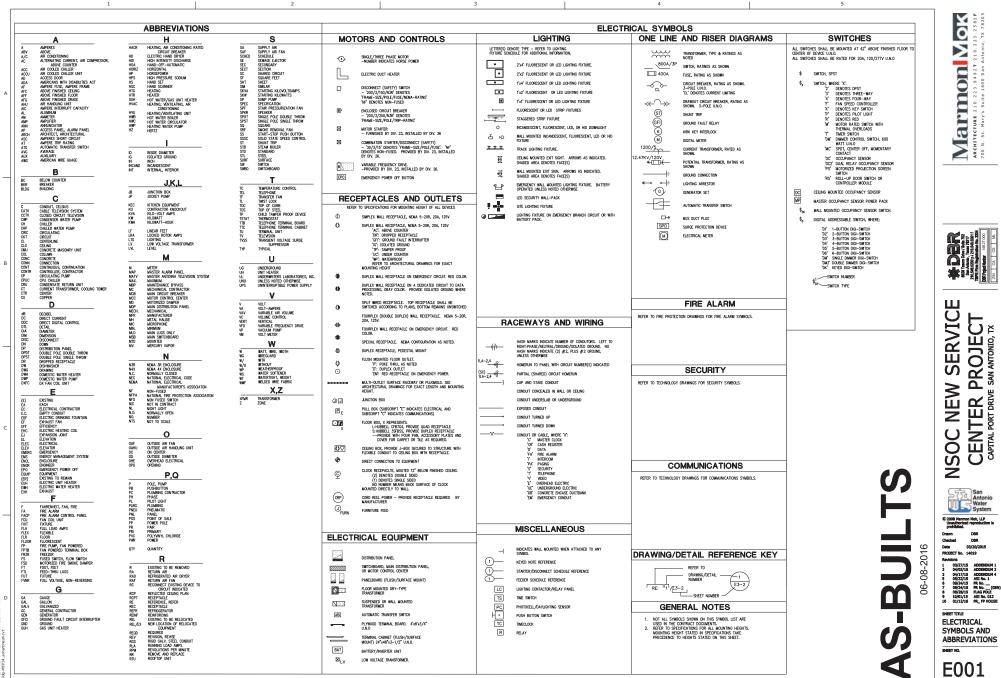
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SERVICE CENTER PROJECT CAPITAL PORT DRIVE SAN ANTONIO, TX NEW



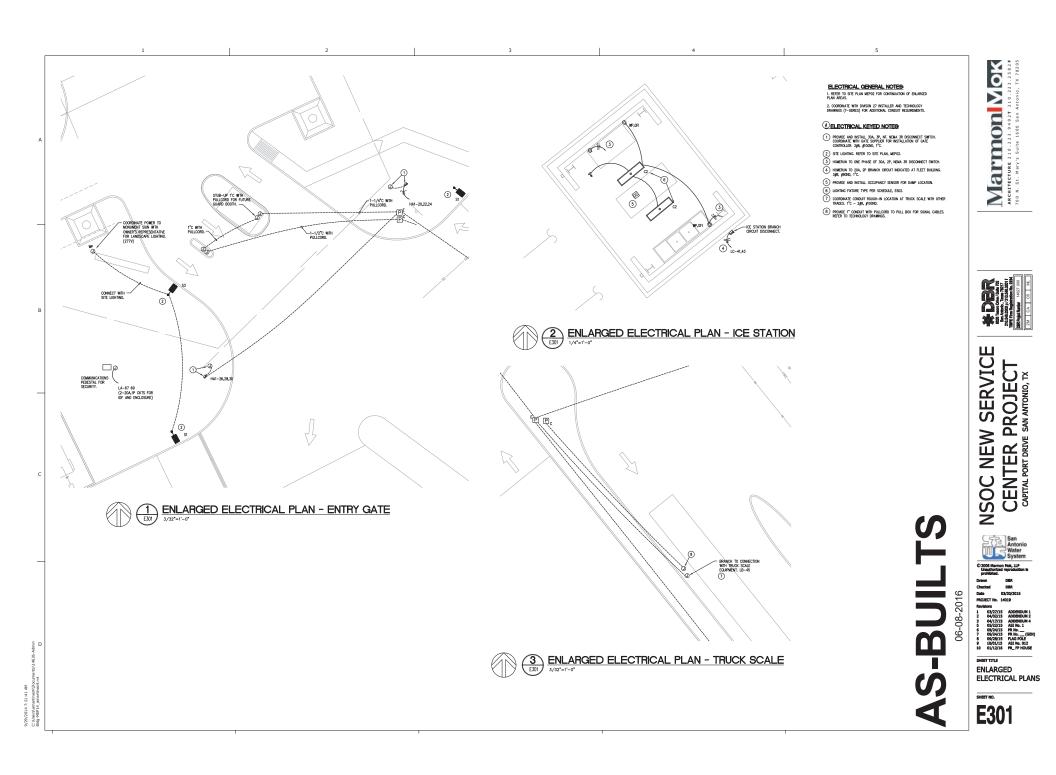


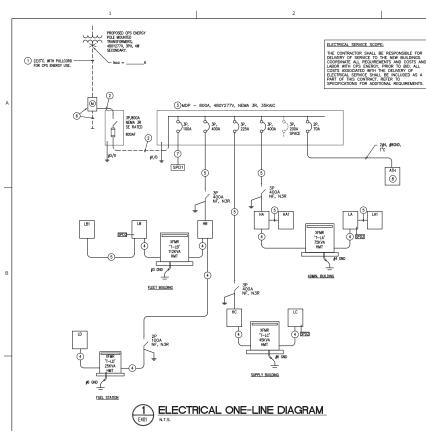
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		FEEDER SCHEDULE	
ANPERAGE	SETS	CONDUCTOR SIZE	CONDUIT (INC
30A	1	4#10, 1#10 G.	3/4°C
40A	1	4#8, 1#10 G.	1"C
50A	1	4#8, 1#10 G.	1*0
60A	1	4g6, 1g10 G.	1"C
70A	1	4#4, 1#8 G.	1 1/4"C
80A	1	4#4, 1#8 G.	1 1/4°C
90A	1	4#3, 1#8 G.	1 1/4"C
100A	1	4#3, 1#8 G.	1 1/4"C
125A	1	4#1, 1#6 G.	1 1/2"C
150A	1	4#1/0, 1#6 G.	1 1/2"C
175A	1	4#2/0, 1#6 G.	2*C
200A	1	4#3/0, 1#6 G.	2*C
225A	1	4#4/0, 1#4 G.	2 1/2°C
250A	1	4#250KCML, 1#4 G.	2 1/2°C
300A	1	4#350KCML, 1#4 G.	3*C
350A	1	4#500KCMIL, 1#3 G.	3 1/2°C
400A	2	4#3/0, 1#2 G.	2"C
450A	2	4#4/0, 1#2 G.	2 1/2°C
500A	2	4#250KCML, 1#2G.	2 1/2"C
600A	2	4#350KCML, 1#16.	3"C
700A	2	4#500KCML, 1#1/0G.	4*C
800A	2	4#600KCML, 1#1/0G.	4"C
1000A	3	4#500KCML, 1#2/0G.	4°C

ONE-LINE DIAGRAM GENERAL NOTES:

- METERING EQUIPMENT ENCLOSURE PROVIDED BY CPS ENERGY, INSTALLED BY ELECTRICAL CONTRACTOR PER CPS SPECIFICATIONS. SERVICE LATERAL AND METERS SHALL BE INSTALLED BY CPS ENERGY. 1. 2. CONDUCTORS SHALL BE COPPER.
- CONTRACTOR SHALL INSTALL FEEDERS BASED ON THE OVERCURRENT DEVICE RATING UNLESS OTHERWISE NOTED. CONTRACTOR SHALL BEFER TO THE FEEDER SCHEDULE AND TRANSFORMER FEEDER SOLEDULES TO COTIAN AND INSTALL THE FEEDERS REQUIRED.

- REFER TO PANEL SCHEDULES, BEGINNING ON SHEET ESOI, FOR ALL OVER-CUBRENT PROTECTIVE DEVICES NOT INDICATED ON THIS SHEET. USE OVER-CUBRENT PROTECTIVE DEVICES INDICATED ON PANEL SCHEDULES TO DETERMINE CORPECT FEEDER SET, UNLESS INDICATED OTHERWISE.
- PROVIDE AND INSTALL IDENTIFICATION TAG INDICATING THE AVAILABLE FAULT CURRENT AT THE TIME OF INSTALLATION IN ACCORDANCE WITH NEC 110.24(A) AND 110.21(B).

@ELECTRICAL ONE-LINE KEYED NOTES:

(1) 2 - 3°C for underground secondary from CPS energy overhead transformers. Refer to site plan, sheet mepo2.

(2) PROVIDE AND INSTALL TWO (2) 4°C WITH 44500KCMIL EACH.

3 SERVICE PANEL WOUNTED TO UNISTRUT RACK IN ELECTRICAL SERVICE YARD.

(4) REFER TO TRANSFORMER SCHEDULE.

5 REFER TO FEEDER SCHEDULE.

6 rack mounted CPS energy transocket. Extend 1" empty conduit to nearest building electrical closet for meter monitoring.

(7) 4#2, #2GND, 1-1/2°C.

8 PROVIDE AND INSTALL SEMENS (ILPOZE, OR EQUIVALENT 25 KVA, 480V-120/240V, 1 PH INBAA REPORTE CONTER WIN (2) 50A, 29 BREAKERS, REFER TO STEF PLAN, SHEET MEPOZ. SECURE TO RESENTANDIS SUPPORT RAVK. COORDINATE EXACT LOCATION IN FIELD WITH OWNER'S REPRESENTANCE.

	SPE) SCHE	DULE
MARK	MANUFACTURE	MODEL	CABLE SIZE
SP01	EMERSON	560-YC-12ANCG1S	#2
SPD2	EMERSON	510-YA-08ANAJIS	# 8
SPD3	ENERSON	510-SA-06ANAJIS	# 8

		HAHN	IONIC N	ITIGATING TRANSFORMER FEEDER SCHEDULE			
	PRIMARY VOLTAGE			SECONDARY VOLTAGE			
	480V, THREE PHAS	ε		120/208V, THREE PHASE, FOUR WRE			
KVA	FEEDER	CONDUIT	BREAKER	FEEDER	CONDUIT	BREAKER	GND. ELEC. SIZE
30	3 #8, 1 #10 GND.	1*	70A/3P	3 #3, 1 #1/0 NEUTRAL, 1 #8 GND.	1 1/4*	100A/3P	/8
45	3 #3, 1 #8 GND.	1 1/4"	90A/3P	3 #1/0, 1 #4/0 NEUTRAL, 1 #6 GND.	2"	150A/3P	#6
75	3 #1, 1 #6 GND.	1 1/2*	125A/3P	3 #250KCMIL, (2) #250KCMIL NEUTRAL, 1 #4 GND.	3 1/2"	250A/3P	#
112.5	3 #3/0, 1 #6 GND.	2"	200A/3P	2 SETS - 3 #3/0, (2) #3/0 NEUTRAL, 1 #3 GND.	(2) 2 1/2"	400A/3P	# 3
	480V, SINGLE PHAS	Æ		120/240V, SINGLE PHASE, THREE WIRE			
KVA	FEEDER	CONDUIT	BREAKER	FEEDER	CONDUIT	BREAKER	GND. ELEC. SIZ
25	2 #4, 1 #8 GND.	1 1/2*	80A/2P	2 #3, 1 #1/0 NEUTRAL, 1 #6 GND.	1 1/2*	125A/2P	# 6

-ALL CONDUCTORS SHALL BE COPPER -REFER TO SPECIFICATIONS 26 22 22.

ELECTRICAL LOA	D ANAL	YS	IS - Fleet I	Building		ELECTRICAL LOAI	D ANA
480 / 277 , 3 -	PHASE,	4	-WIRE	•		480 / 277 , 3 -	PHASE
DESCRIPTION				NEC	KVA	DESCRIPTION	
LIGHTING:		_				LIGHTING:	
INTERIOR =	20,730	VA	X 125%	220-10(b)	25.9	INTERIOR =	21,77
EXTERIOR =	5000	VA	X 125%	220-10(b)	6.3	EXTERIOR =	500
POWER:						POWER:	
RECEPTACLES =	6,910	VA		220-13	6.9	RECEPTACLES =	5,83
MISCELLANEOUS =	45,100	VA			45.1	MISCELLANEOUS =	5,00
			QUANTITY				
KITCHEN =	0	VA	0	220-20	0.0	KITCHEN =	
ELEVATORS =	0	VA	0	620-14	0.0	ELEVATORS =	
FUTURE POWER	0	VA			0.0	FUTURE POWER	
						HVAC:	
HVAC:						COOLING =	
COOLING = HEATING =	69,100	VA		220-21	69.1 0.0	HEATING =	58,06
						FANS =	200
FANS =	5000			220-21	5.0	PUMPS: CHW =	200
PUMPS: CHW =		VA VA		220-21 220-21	0.0	HW =	
CONDENSATE =	0			220-21	0.0	CONDENSATE =	
25% LARGEST MOTOR =	1250			220-21 220-14	0.0	25% LARGEST MOTOR =	60
25% LARGEST MOTOR =	1200	VA		220-14	1.3	PLUMBING:	60
WATER HEATER =	6000				6.0	WATER HEATER =	300
DRINKING FOUNTAIN =		VA			0.0	DRINKING FOUNTAIN =	500
CIRCULATING PUMP =		VA			0.0	CIRCULATING PUMP =	
CINCODA TING FOMP -	v	VA.		TOTAL =		Circob Circo P Circo	-
					165.5		
				TOTAL AMPS:	199.1		
				SERVICE SIZE:	400.0		
				SPARE AMPACITY:	200.9		

ELECTRICAL LOA				/ Building	
480 / 277 , 3	PHASE,	4	-WIRE		
DESCRIPTION				NEC	KVA
SHTING:					
NTERIOR =			X 125%	220-10(b)	27.2
EXTERIOR =	5000	VA	X 125%	220-10(b)	6.3
OWER:					
	5,833			220-13	5.8
VISCELLANEOUS =	5,000	VA			5.0
			QUANTITY		
KITCHEN =	0	VA	0	220-20	0.0
ELEVATORS =	0	VA	0	620-14	0.0
UTURE POWER	0	VA			0.0
AC:					
COOLING =	58,064			220-21	58.1
IEATING =		VA		220-21	0.0
ANS =	2000			220-21	2.0
PUMPS: CHW =	0			220-21	0.0
HWV =		VA		220-21	0.0
CONDENSATE =		VA		220-21	0.0
5% LARGEST MOTOR =	600	VA		220-14	0.6
UMBING:					
VATER HEATER =					3.0
DRINKING FOUNTAIN =	0	VA			0.0
CIRCULATING PUMP =	0	VA			0.0
				TOTAL =	108.0
				TOTAL AMPS:	129.9
				SERVICE SIZE:	200.0
				SPARE AMPACITY:	70.1

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SHEET TITLE ONE-LINE DIAGRAM



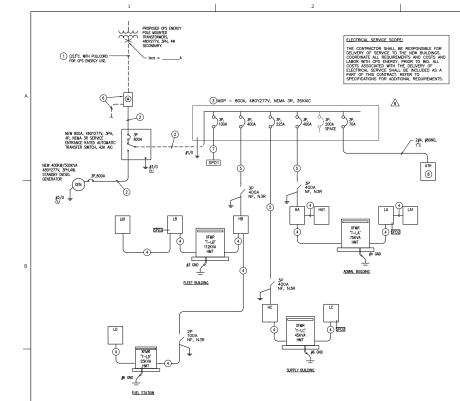
480 / 277 3 -PHASE. 4 -WIRE DESCRIPTION KVA NEC 35.2 INTERIOR = 28 185 VA X 125% 220-10(b) 8

ELECTRICAL LOAD ANALYSIS - Administration Building - 9395 sf

EXTERIOR =	5000	VA	X 125%	220-10(b)	6.3
POWER:					
RECEPTACLES =	9,395	VA		220-13	9.4
MISCELLANEOUS =	15,201	VA			15.2
			QUANTITY		
KITCHEN =	0	VA	0	220-20	0.0
ELEVATORS =	0	VA	0	620-14	0.0
FUTURE POWER	0	VA			0.0
HVAC:					
COOLING =	82,600			220-21	82.6
HEATING =	59500			220-21	0.0
FANS =	7392	VA		220-21	7.4
PUMPS: CHW =	2800	VA		220-21	2.8
HWV =	0	VA		220-21	0.0
CONDENSATE =	0	VA		220-21	0.0
25% LARGEST MOTOR =	4963	VA		220-14	5.0
PLUMBING:					-
WATER HEATER =	6000	VA			6.0
DRINKING FOUNTAIN =	0	VA			0.0
CIRCULATING PUMP =	0	VA			0.0
				TOTAL =	169.8
				TOTAL AMPS:	204.3
				SERVICE SIZE:	400.0
				SPARE AMPACIT	Y: 195.7

AS-BUILTS
06-08-2016

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ELECTRICAL ONE-LINE DIAGRAM

		FEEDER SCHEDULE	
AMPERAGE	SETS	CONDUCTOR SIZE	CONDUIT (INCHES)
30A	1	4#10, 1#10 G.	3/4"C
40A	1	4#8, 1#10 G.	1*C
50A	1	4#8, 1#10 G.	1°C
60A	1	4#6, 1#10 G.	1°C
70A	1	4#4, 1#8 G.	1 1/4°C
80A	1	4#4, 1#8 G.	1 1/4"C
90A	1	4#3, 1#8 G.	1 1/4"C
100A	1	4#3, 1#8 G.	1 1/4°C
125A	1	4#1, 1#6 G.	1 1/2"C
150A	1	4#1/0, 1#6 G.	1 1/2"C
175A	1	4#2/0, 1#6 G.	2*C
200A	1	4#3/0, 1#6 G.	2°C
225A	1	4#4/0, 1#4 G.	2 1/2°C
250A	1	4#250KCML, 1#4 G.	2 1/2*C
300A	1	4#350KCML, 1#4 G.	3°C
350A	1	4#500KCMIL, 1#3 G.	3 1/2°C
400A	2	4#3/0, 1#2 G.	2*C
450A	2	4#4/0, 1#2 6.	2 1/2°C
500A	2	4#250KCMIL, 1#2G.	2 1/2°C
600A	2	4#350KCMIL, 1#1G.	3*C
700A	2	4#500KCMIL, 1#1/0G.	4°C
800A	2	4#600KCMIL, 1#1/0G.	4°C
1000A	3	4#500KCMIL, 1#2/0G.	4°C

1. ELECTRICAL CONTRACTOR SHALL PROVIDE THE NUMBER OF LUGS AND PROPER LUG SIZES TO ACCEPT CONDUCTOR SIZES SHOWN 2. GROUND NOT REQUIRED AT SERVICE LATERAL.

ONE-LINE DIAGRAM GENERAL NOTES:

METERING EQUIPMENT ENCLOSURE PROVIDED BY CPS ENERGY, INSTALLED BY ELECTRICAL CONTRACTOR PER CPS SPECIFICATIONS. SERVICE LATERAL AND METERS SHALL BE INSTALLED BY CPS ENERGY.

2. CONDUCTORS SHALL BE COPPER.

CONTRACTOR SHALL INSTALL FEEDERS BASED ON THE OVERCURRENT DEVICE RATING UNLESS OTHERWISE NOTED. CONTRACTOR SHALL REFER TO THE FEEDER SOLIEDULE AND TRANSFORMER FEEDER SOLEDULES TO CONTAIN AND INSTALL THE FEEDER'S REQUIRED.

REFER TO PANEL SCHEDULES, BEGINNING ON SHEET ESOI, FOR ALL OVER-CURRENT PROTECTIVE DEVICES NOT INDICATED ON THIS SHEET. USE OVER-CURRENT PROTECTIVE DEVICES INDICATED ON PANEL SCHEDULES TO DETENNING COMECT FEEDER SEZ, UNLESS INDICATED ON ERWISE.

PROVIDE AND INSTALL IDENTIFICATION TAG INDICATING THE AVAILABLE FAULT CURRENT AT THE TIME OF INSTALLATION IN ACCORDANCE WITH NEC 110.24(A) AND 110.21(B).

UELECTRICAL ONE-LINE KEYED NOTES:

(1) 2 - 3°C for underground secondary from CPS energy overhead transformers. Refer to site plan, sheet mepo2.

(2) PROVIDE AND INSTALL TWO (2) 4"C WITH 4#600KCMIL EACH.

3 SERVICE PANEL MOUNTED TO UNISTRUT RACK IN ELECTRICAL SERVICE YARD.

(4) REFER TO TRANSFORMER SCHEDULE.

5 REFER TO FEEDER SCHEDULE

(6) RACK MOUNTED CPS ENERGY TRANSOCKET. EXTEND 1" EMPTY CONDUIT TO NEAREST BUILDING ELECTRICAL CLOSET FOR METER MONITORING.

(7) 4#2, #20ND, 1-1/2"C.

(1) THE REPORT OF LAB.
 (2) THE REPORT O

SPE) SCHE	DULE
MANUFACTURE	MODEL	CABLE SIZE
EMERSON	560-YC-12ANCG1S	1/2
EMERSON	510-YA-0BANAJIS	4 8
EMERSON	510-SA-06ANAJIS	4 8
	MANUFACTURE EMERSON EMERSON	EMERSON 560-YC-12ANCGIS EMERSON 510-YA-08ANAJIS

	PRIMARY VOLTA	æ		SECONDARY VOLTAGE			
	480V, THREE PH/	\SE		120/208V, THREE PHASE, FOUR WIRE			
KVA	FEEDER	CONDUIT	BREAKER	FEEDER	CONDUIT	BREAKER	GND. ELEC. SIZE
30	3 #8, 1 #10 GND.	1"	70A/3P	3 #3, 1 #1/0 NEUTRAL, 1 #8 GND.	1 1/4"	100A/3P	# 8
45	3 #3, 1 #8 GND.	1 1/4*	90A/3P	3 #1/0, 1 #4/0 NEUTRAL, 1 #6 GND.	2*	150A/3P	#6
75	3 #1, 1 #6 GND.	1 1/2"	125A/3P	3 #250KCML, (2) #250KCMIL NEUTRAL, 1 #4 GND.	3 1/2"	250A/3P	#4
112.5	3 #3/0, 1 #6 GND.	2*	200A/3P	2 SETS - 3 #3/0, (2) #3/0 NEUTRAL, 1 #3 GND.	(2) 2 1/2*	400A/3P	#3
	480V, SINGLE PH.	ASE		120/240V, SINGLE PHASE, THREE WIRE			
KVA	FEEDER	CONDUIT	BREAKER	FEEDER	CONDUIT	BREAKER	GND. ELEC. SIZE
25	2 #4, 1 #8 GND.	1 1/2"	80A/2P	2 #3, 1 #1/0 NEUTRAL, 1 #6 GND.	1 1/2"	125A/2P	# 6

-ALL CONDUCTORS SHALL BE COPPER -REFER TO SPECIFICATIONS 26 22 22.

			RICAL LOAD ANA			y Buildir
		480 / 2	77, 3 [°] -PHASE,	- 4	-WIRE	
	KVA	DESCRIP	TION			NE
		LIGHTING:				
l(b)	25.9	INTERIOR =	21,77	VA I	X 125%	220-
(b)	6.3	EXTERIOR =	500	VA (X 125%	220-
		POWER:				
	6.9	RECEPTACI	ES = 5,83	3 VA		220-
	45.1	MISCELLAN	EOUS = 5,00	VA (
					QUANTITY	
	0.0	KITCHEN =		VA (0	220-
	0.0	ELEVATORS	3 = 1	VA (0	620-
	0.0	FUTURE PO	WER	VA (
		HVAC:				
	69.1	COOLING =	58,06	I VA		220-
	0.0	HEATING =		VA (220-
	5.0	FANS =	200	VA (220-
	0.0		fW =	VA (220-
	0.0			VA (220-
	0.0	00	NDENSATE =	VA (220-
	1.3	25% LARGE	ST MOTOR = 60	VA (220-
		PLUMBING:				
	6.0	WATER HEA	TER = 300	VA (
	0.0	DRINKING F	OUNTAIN =	VA (
	0.0	CIRCULATIN	G PUMP =	VA (
	165.5					TOT
AMPS:	199.1					TOT
ICE SIZE:	400.0					SER
E AMPACITY:	200.9					SPA

ECTRICAL LOA				y Building	
180'/277', 3`-	PHASE,	4	-WIRE		
SCRIPTION				NEC	KVA
NNG:					
ERIOR =	21,774	VA	X 125%	220-10(b)	27.2
TERIOR =	5000	VA	X 125%	220-10(b)	6.3
ER:					
CEPTACLES =	5,833	VA		220-13	5.8
CELLANEOUS =	5,000	VA			5.0
			QUANTITY		
CHEN =	0	VA	0	220-20	0.0
EVATORS =	0	VA	0	620-14	0.0
TURE POWER	0	VA			0.0
2					
OLING =	58,064	VA		220-21	58.1
ATING =	0			220-21	0.0
NS =	2000	VA		220-21	2.0
MPS: CHW =	0	VA		220-21	0.0
HWV =	0	VA		220-21	0.0
CONDENSATE =	0	VA		220-21	0.0
6 LARGEST MOTOR =	600	VA		220-14	0.6
(BING:					
TER HEATER =	3000	VA			3.0
INKING FOUNTAIN =	0	VA			0.0
CULATING PUMP =	0	VA			0.0
				TOTAL =	108.0
				TOTAL AMPS:	129.9
				SERVICE SIZE:	200.0
				SPARE AMPACITY:	70.1

/ SERVICE	PROJECT	SAN ANTONIO, TX
≥ Ш	2	DRIVE

KRC

Marmon Mox

N. St.

ARC 700

CAPITAL PORT DRIVE SAN ANTONIO, ENTEI Z NSOC ()



Checked Date 03/20/2015 PROJECT No. 14019
 PROJECT No. 14019

 Revisions

 1
 03/27/15
 ADDENDUM 1

 0
 03/27/15
 ADDENDUM 2

 3
 04/17/15
 ADDENDUM 2

 4
 04/27/15
 ADDENDUM 4

 5
 05/22/15
 ASI No. 1

 6
 09/24/15
 PR No. ______GEN

 7
 09/24/15
 PR No. ______GEN

 9
 09/21/15
 PR No. ______GEN

 9
 10/01/15
 ASI No. 0.12

 10
 01/12/16
 PR__PP HOUSE

HEET TITLE ELECTRICAL ONE-LINE DIAGRAM



ELECTRICAL LOAD ANALYSIS - Administration Building 480 / 277 , 3 -PHASE, 4 -WIRE DESCRIPTION NEC LIGHTING: INTERIOR = 28,185 VA X 125% 5000 VA X 125% 20-10(b) EXTERIOR = 20-10(b POINER-RECEPTACLES = MISCELLANEOUS : 9,395 VA 15,201 VA 0-13 QUANTI QUA 0 VA 0 0 VA 0 0 VA 0 KITCHEN = 220-20 620-14 ELEVATORS = FUTURE POWER HVAC COOLING = 82.600 VA 20-21 59500 VA 7392 VA 2800 VA 0 VA 0 VA HEATING = 20-21 FANS = 20-21 PANS = PUMPS: CHW = HW = CONDENSATE = 20-21 20-21 20-21 25% LARGEST MOTOR = PLUMBING: WATER HEATER = 4963 VA 20-14 6000 VA 0 VA 0 VA DRINKING FOUNTAIN = CIRCULATING PUMP OTAL AMPS:

RVICE SIZE

0005 . 6

EL EGENIG

n Building - 9	9395 sf	ELECTRICAL LOA				Building
IEC	KVA	DESCRIPTION				NEC
		LIGHTING:		_		
20-10(b)	35.2	INTERIOR =	20,730	VA	X 125%	220-10(b
20-10(b)	6.3	EXTERIOR =	5000	VA	X 125%	220-10(b)
		POWER:				
20-13	9.4	RECEPTACLES =	6,910	VA		220-13
	15.2	MISCELLANEOUS =	45,100	VA		
					QUANTITY	
20-20	0.0	KITCHEN =	0	VA	0	220-20
20-14	0.0	ELEVATORS =	0	VA	0	620-14
	0.0	FUTURE POWER	0	VA		
		HVAC:				
20-21	82.6	COOLING =	69,100			220-21
20-21	0.0	HEATING =	0	VA		220-21
20-21	7.4	FANS =	5000			220-21
20-21	2.8	PUMPS: CHW =		VA		220-21
20-21	0.0	HWV =	0	VA		220-21
20-21	0.0	CONDENSATE =				220-21
20-14	5.0	25% LARGEST MOTOR =	1250	VA		220-14
		PLUMBING:				
	6.0	WATER HEATER =	6000			
	0.0	DRINKING FOUNTAIN =	0	VA		
	0.0	CIRCULATING PUMP =	0	VA		
OTAL =	169.8					TOTAL =
OTAL AMPS:	204.3					TOTAL A
ERVICE SIZE:	400.0					SERVICE
PARE AMPACITY:	195.7					SPARE

AS-BUILTS

(1) E401A

N.T.S.

06-08-2016

1	2	3	4	5

						Pan	elbo	ard I	IA						35	XN	IC Rating lew xisting	
480/2	77 Wye V		Phase,	4 Wire	Mains	Type:		0 A N						X Single			Moun	
	1.5	ection			l	10		400 A E	US	(Coj	pper)			Double			X Surface	
	Type 1 -													Feed - Thru			Flush	
NOTE	Load (VA	() Type		Descr			Wire	CB	C		CB	Wir	e	Description		Type	Load (VA)	NOT
				SPA	\RE			0 A 0		2	A 0			SPARE				
	62958 V.	Rece ptacl e;		τ.	LA		1	125 A	3 5 7	468	100 A	3		HA-1		н	42300 VA	
	2198 VA	L; EL	0	CORRIDOR	LIGHT	NG	12	20 A	9	10	20 A	12	EXT	ERIOR LIGHTS		L	305 VA	
		MT:								12				SPACE				
	13296 V.	A MT; M		AHU	LN1		12	20 A		16	20 A	12	: CI	STERN PUMP		м	3324 VA	
										18	30 A	10	FPB	-1.04, 1.11, 1.12		н	5738 VA	
	78945 V	A C; M		ACCI	U-N1		1	110 A		20	20 A	12		FPB-1.02		н	3000 VA	
	3324 VA	MT:		PCHP-N1			12	20 A	23 25		20 A	12		EWH-1		WH; M	6000 VA	
	16500 V			FPB-1.0	05, 1.06		10	25 A	29 31	28 30 32	20 A	12	F	FPB-1.01, 1.03		н	10000 VA	
										34								
	2458 V/			LIGHTING		S	12	20 A		36	30 A	10	F	PB-1.09,1.10		н	20224 VA	
				SPA				20 A		38								
				SPA				20 A		40	0 A 0	-		SPARE				
	(2014)	 Load	Ļ.,	SPA Conn		Ect		20 A Diversity	41		20 A E.C. (20	12	LIGHTIN Load Type	G MULTI-PURP		L	1324 VA	
				41770 V		FCL 61.97%		25885 V			E.C. (20 210.20(a		(L)Lighting	Conn. 6493 VA		CL 00%	Dive 8116	
		(R)Rece		41770 V		65.00%		25885 V/ 4323 V/		1.1	210.20(a			6493 VA 78 VA		00%	98	
		(K)Kitch		6650 V 84353 \		65.00%		4323 VA	· .		620 14		(EL)Ext. Ltg.	/8 VA	125	.00%	98	VA
		(C)Cool									020.14		(E)Elevators					
	0.60 (F)Fans 1400 VA 100.0				100.00% 100.00% 100.00%		99762 V. 1400 VA 10014 V.	Č.		220.5		(WH)Wat. Htr. (MT)Lrg. Motor (SP)Sub Pnl.	6000 VA 13296 VA		.00%	6001		
63	0.00	WiWeł	der									- 1	. ,					
	Total Ci			27394		VA =	329					Lo	ation of Panel:					

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																35		VIC Rating			
						Pan	elbo	ard I	ΗA	1								New			
	77 Wve					-		0.4.1		_				_			- 1	Existing			
480/2		Volt, 3 Section	Phase,	4 Wire	Main	is Type:									X Single Double			Moun			
					۱ I	/LO		100 A E	us	(Co	pper)							X Surface			
	Type 1 -														Feed - Thru			Flush			
NOTE	Load (V)	() Type		Descr	iption		Wire	CB		KT	CB	Win	re		Description		Type	Load (VA)	NOTE		
	11000 V	а н		FPB-	1.08		12	20 A	1 3 5		20 A	12	2		FPB-1.07		н	11000 VA			
	9500 V	н		FPB-	1.13		10	25 A	7911		20 A	12	2		FPB-1.14		н	10800 VA			
		-		30/3 S	PARE			30 A	13	14	20 A				20/3 SPARE						
								30 A		16	20 A				-						
				-				30 A	17	18	20 A										
				20/3 S	PARE			20 A	19	20	20 A			FRON	T GATE OPENE	R					
							20 A	21	22	20 A											
								20 A	23	24	20 A										
				40/3 S	PARE			40 A		26	30 A			FRON	T GATE OPENE	R					
				- 40/3 SPARE -						40 A		28	30 A								
								40 A		30	30 A										
				SPA						32				SPACE							
				SPA						34					SPACE						
				SPA						36					SPACE						
				SP/						38			_		SPACE						
				SPA					39						SPACE						
			_	SPA						42					SPACE						
	. (2014)	Load		Conn	-	Fct.	_	Diversit	/		E.C. (20		Load 1		Conn.	F F	ct.	Dive	rsity		
		(R)Rece (K)Kitch								1	210.20(a		(L)Lightir (EL)Ext.								
22	0.60	(C)Cool	ing					0 VA		1	620.14		(E)Eleva	tors		1					
22	0.60	(H)Heat	ing	42300 \	/A	100.00%		42300 V.	A				(WH)Wa	t. Htr.							
22		(F)Fans							220.5		(MT)Lra.	Motor		1							
63		(M)Misc (W)Web					(SP)Sub Pnl.														
		onnecte		4230	0 VA	VA =	= 51.4									_					
	Total Los			4230	0 VA	VA =	51	A				Location of Panel: ELEC A107									

						Pan	elbo	ard L	.A	1						10	XN	UC Rating lew Existing		
120/2	08 Wye \	/olt, 3	Phase,	4 Wire	Mains	s Type:		0 A N	ICB						X Single			Mour	ting	
	1.5	Section						100 A B	us	(Co	oper)				Double			X Surface		
	Type 1 -					10								1	Feed - Thru				Flush	
NOTE	Load (VA	() Type		Descr	ption		Wire	CB	С	KΤ	CB	Wire		-	Description		Type	Load (VA)	NOTE	
	2000 V/	м	DATA I	EQUIPMEN	IT REC	EPTACLE	10	30 A	1	2	30 A	10	DATA	EQU	IPMENT RECEP	TACLE	м	2000 VA		
	180 VA	R	SI	ECURITY E	QUIPN	IENT	12	20 A	5	6	20 A	12		REC	CEPTS IT ROOM		R	720 VA		
	2000 V/			EUH			12	20 A	7	8	20 A	12			LOOR BOXES		R	720 VA		
	2000 07	(In, m		EOH	1-1		12	20 A	9	10	20 A	15		MODL	JLAR FURNITUR	tΕ	R	900 VA		
	720 VA			ODULAR F			12	20 A		12	20 A	12			JLAR FURNITUR		R	1080 VA		
	1080 V/			ODULAR F			12	20 A		14	20 A	12			JLAR FURNITUR		R	360 VA		
	1080 V/		MODULAR FURNITURE MOLDULAR FURNITURE							16	20 A	12		MODU	JLAR FURNITUR	tΕ	R	1080 VA		
	720 VA						12	20 A		17 18 20 A				SPARE						
	600 VA									20	20 A			SPARE						
	200 VA		A131	ELECTRO		ENSORS	12	20 A		22				SPARE						
				SPA							0 A			SPARE						
				SPA				0 A		26	20 A			SPARE						
				SPA				0 A		28	20 A				SPARE			**		
	0 VA	M		CIRCULATI	ON PU	IMP Fct	12	20 A		30	20 A	12			DENSATE PUM		R	430 VA		
	(2014)		Туре	Conn.	-		_	Diversity			E.C. (20		Load T		Conn.	P P	ct.	Dive	rsity	
		(R)Rece		9070 V	A	100.00%		9070 VA			210.20(a		(L)Lightin							
		(K)Kitch											(EL)Ext. I							
		(C)Cool						0 VA			620.14		(E)Elevat							
	220.60 (H)Heating 2000 VA		A	100.00%		2000 VA					(WH)Wat									
22		(F)Fans								1	220.5		(MT)Lrg.							
63	(M)Misc. 4000 VA 100.0 630.00 (W)Welder				100.00%		4000 VA					(SP)Sub	Pnl.							
	Total Connected Load: 15870 VA VA						44 A Location of Panel: ELEC A107													
	Total Los	d (Dive	rsified):	VA =	44	A				LO	cation of I	anel:	ELEU A107							

					Pan	elbo	ard L	.A							ΧN	IC Rating lew xisting	
420/2	00.146-0.146		Phase, 4 Win	Maine	Type:		250 A N	10D	_				X Single		-	Mour	a la cara
120/2		nt, a	F1850, 4 WH	2 Mains	Type.		400 A B						Double			X Surfa	
				M	св		400 A B	US	(00)	pper)						X Suna Flush	
	Type 1 -N					Wire	CB .		кт	CB	Wir		Feed - Thru		_	Flush	
NOTE	Load (VA)			cription									Description				NC
	240 VA	L	DISPLAY			12	20 A	1	2	20 A	12		RECEPTACLES		R	900 VA	
	540 VA	R		PTACLES		12	20 A		4	20 A	12		RECEPTACLE		R	1080 VA	-
	1080 VA	R		PTACLE		12	20 A		6	20 A	12		RECEPTACLE		R	360 VA	
	1080 VA	R		PTACLE		12	20 A	7	8	20 A	12		FACP		М	250 VA	
	720 VA	R		PTACLE		12	20 A		10	20 A	12		RECEPTACLE		R	540 VA	
	1080 VA	R		PTACLE		12	20 A		12	20 A	12		RECEPTACLE		R	1260 VA	
	360 VA	R		JECTOR		12	20 A		14		12		OOR BOX RECEPT		R	1080 VA	
	360 VA	R		PTACLE		12	20 A		16	20 A	12		RECEPTACLE		R		
	1080 VA	R		PTACLE		12	20 A		18	20 A	12		RECEPTACLE		R	1620 VA	Г
	720 VA	R		PTACLE		12	20 A		20	20 A	12		RECEPTACLE		R	360 VA	Г
	360 VA	R	RECE	PTACLE		12	20 A	21	22	20 A	12		RECEPTACLE		R	540 VA	
	360 VA	R	RECE	PTACLE		12	20 A	23	24	20 A	12		RECEPTACLE		R	540 VA	Г
	180 VA	R	MC	NITOR		12	20 A	25	26	20 A	12		RECEPTACLE		R	900 VA	
	360 VA	R	RECE	PTACLE		12	20 A	27	28	20 A	12		RECEPTACLE		R	540 VA	\vdash
	500 VA	M	E	DF-1		12	20 A	29	30	20 A	12		RECEPTACLE	_	R	720 VA	t
	900 VA	R	PECE	PTACLE		12	20.4	34	32	20 A	12	VE	NDING MACHINE	-	к	750 VA	⊢
	1000 VA	K		WASHER		12	20 A		34	20 A	12		NDING MACHINE	-	K	750 VA	+
	840 VA	R		POSAL		12	20 A		36	20 A	12		DISHWASHER		R	1500 VA	+
	750 VA	K		G MACHI	VE	12	20 A		38	20.4	12		CROWAVE/GFCI		R	1500 VA	+
	360 VA	R		PTACLE	16	12	20 A		40	20 A	12		FERIGERATOR		ĸ	1200 VA	⊢
	1200 VA	K		GERATOR		12	20 A		40	20 A	12		RECEPTACIE		R	1200 VA 900 VA	+
	1200 VA 1500 VA	R		APPLIANC		12	20 A		42	20 A	12		MONITOR		R	180 VA	+
	1500 VA 740 VA	M	FUTURE			12	20 A		44	20 A	12		RECEPTACLE	_	R	180 VA 900 VA	-
	1200 VA	M	M Room A			12	20 A		40	20 A	12		RECEPTACLE		R	540 VA	+
	1200 VA	R		PTACLE	24,11	12	20 A		50	20 A	12		RECEPTACLE		R	540 VA	⊢
		-							52		-	-		_	-		+
	2704 VA	C; M		U,DS N2		12	20 A	53	54	20 A	12		DSCU/DS N1	- 1	; M	2704 VA	
	180 VA	Re	WP GFI F	ECEPTA	CLE	12	20 A		56	20 A	12		T. RECEPTACLE		R	1080 VA	
						1.00			58	20 A	12		EF-1, EF-2		F	1400 VA	
	180 VA	R	MONITO	OR RECEP	PΤ	12	20 A	59	60	20 A	12		P LOCKERS RECE		R	1620 VA	Г
								61	62	20 A	12		P LOCKERS RECE		R	900 VA	Г
								63		20 A		FRONT	GATE IDF PEDAS	STAL			
									66								
									68	20 A		FRONT	GATE IDF PEDAS	STAL			
								69									
									72	20 A	12		ICE MACHINE		К	1000 VA	
		Rece						73		40 A			SPD2	_	**		
	15870 VA	ptacl	1	A-1		3	100 A		76	40 A							
		e;							78	40 A							
				PACE					80				SPACE				
				PACE				81	82			_	SPACE				
				PACE				83	84		-		SPACE				1
	. (2014)	Load			Fct.		Diversity			E.C. (20		Load Type	Conn.	Fct		Dive	
		Rece			61.97%		25885 V/		1 3	210.20(a		(L)Lighting	240 VA	125.0	0%	300	VA (
22	0.56 (P	()Kitch	en 6650	VA	65.00%		4323 VA		1			(EL)Ext. Ltg.					
22	0.60 (0	Cool	ng 5408	VA	100.00%		5408 VA		1	620.14		(E)Elevators					
22	0.60 0	()Heat	ng 2000	VA	100.00%		0 VA					WHWat. Htr					
)Fans	1400		100.00%		1400 VA		1	220.5		(MT)Lrg. Mote					
22		/Misc			100.00%		6690 VA			AAU.0		(SP)Sub Pnl.	1				
0.24		VWeb			100.00%		0000 99				- 1	or joab Phil.					
03	Total Cor			958 VA	VA =	18/		_	+		_				_	_	_
													I: ELEC A107				

					Lig	nting Fixture Schedule		
TYPE	MANUFACTUR	CATALOG #	MOUNTING	#LAMPS	LAMP	VOLTAGE	INPUT WATTS	REMARKS
A1	LITHONIA	2GTL 4 40L FW LP840	LAY-IN	LED	1	277 V	40 VA	LED LAY-IN TROFFER.
A1E	LITHONIA	2GTL 4 40L FW LP840 EL7L	LAY-IN	LED	1	277 V	40 VA	SAME AS LIGHT FIXTURE A1 WITH EMERGENCY BATTERY PACK.
C1	LITHONIA	ZL1N L46 5000LM L/LENS 40K 80CRI PLR WH WGZ48	SURFACE	LED	1	277 V	42 VA	LED LINEAR STRIP LIGHT FIXTURE. PROVIDE WITH WIREGUARD.
C1E	LITHONIA	C 2 32 MVOLT GEB10IS WGC	SUSPENDED	F32T8/TL84/XLL/ALTO	2	277 V	55 VA	SAME AS FIXTURE C1. PROVIDE WITH EMERGENCY BATTERY PACK
D1	GOTHAM	EVO 41/22 8WR MD LS 277	RECESSED	LED	1	277 V	39 VA	8" LED RECESSED CAN.
D1E	GOTHAM	EVO 41/22 8AR MD LS 277 EL	RECESSED	LED	1	277 V	39 VA	SAME AS LIGHT FIXTURE D1 WITH EMERGENCY BATTERY PACK AND INTEGRAL TEST SWITCH.
D2	GOTHAM	EVO 41/22 8DFD 120 ISD BC	RECESSED	LED	1	277 V	39 VA	8" LED RECESSED CAN SHOWER LIGHT.
P1	EUREKA	6309 W40 S 2 BDIM-W B4MR16	PENDANT	LED	1	277 V	110 VA	PENDANT FIXTURE. PROVIDE WITH CABLE TO SUSPEND AT 13' AFF, MEASURE TO BOTTOM OF FIXTURE
P3	EUREKA	4233XB LED.11.40 277 DV 24-STEM RC WH	PENDANT	LED	1	277 V	11 VA	PENDANT FIXTURE, SUSPENDED 5' AFF TO BOTTOM OF FIXTURE.
W1	LITHONIA	WSR LED 1 10A700/40K SR2 MVOLT DDBXD	SURFACE	LED	1	277 V	24 VA	LED WALL PACK. MOUNT FIXTURE AT 9' AFF, MEASURED TO BOTTOM OF FIXTURE.
W2	GOTHAM	3155JDJA 2XLED4.40 277V DV RC SC WH	SURFACE	LED	1	277 V	18 VA	WALL MOUNT FIXTURE LISTED FOR WET LOCATIONS.
W3	GOTHAM	3455KDH 2XLED.4.40 277 ANTE CFR	SURFACE	LED	1	277 V	8 VA	WALL MOUNT FIXTURE LISTED FOR WET LOCATIONS.
W4	GOTHAM	EVO CYL 41/14 6AR ND MVOLT EZB WM	SURFACE	LED	1	277 V	18 VA	EXTERIOR SCONCE LIGHT FIXTURE. PROVIDE FINISHED COLOR OF DARK BRONZE
X1	LITHONIA	LQM S W 3 R ELN SDFIFA	SURFACE	LED		277 V	5 VA	THERMOPLASTIC EXIT SIGN WITH SELF-DIAGNOSTICS.
X2	LITHONIA	ELM2 LED SD	SURFACE	LED	1	277 V	5 VA	THERMOPLASTIC EMERGENCY LIGHT WITH SELF-DIAGNOSTICS.
X3	GOTHAM	AEN DB EXT	SURFACE	LED	1	277 V	5 VA	WALL MOUNTED EXTERIOR EGRESS LIGHT FIXTURE











 Old Marmon Mak, LIP Unsubharmon Mak, LIP Unsubhard reproduction prohibited. Drawn DBR Checked DBR Date 03/20/2015 PROJECT No. 14019 Revisions 2 04/03/15 ADDENDUM 2 5 05/22/15 ASI No. 1

Panelboard LD	10000 AIC Rati X New	ing			Panolh	oard HB			14000 AIC Rating X New				Panell	oard LB				10000 AIC R: X New	tating
120/208 Wye Volt, 3 Phase, 4 Wire Mains Type: 150 A MCB X Single	Existing	lounting	480/277 Wye Volt,		Mains Type:	0 A MCB		X Single	Existing Mountin			nase, 4 Wire Mair		400 A MCB			X Single	Existin	Mounting
1 Section MCB 225 A BUS (Copper) Double Feed - Thru	FI	urface lush	1 Secti Type 1 -Nem	a Rating	MLO	400 A BUS (Copper		Double Feed - Thru	X Surface Flush		1 Section Type 1 -Nema Rat	ing 1	исв	400 A BUS			Double Feed - Thru		Surface Flush
NOTE Load UA) Type Description Wire CB CKT CB Wire Description 8320 VA M ASPHAULT TRUCK HEATER 50 A 1 2 4 50 A ASPHAULT TRUCK HEATER	Type Load (ER M 8320		NOTE Load (VA) T) 4986 VA F;	M 2x EF		e CB CKT C 1 2 20 A 3 4 20	B Wire A 12	2x EF-4	F 7000 VA		Load (VA) Type 1440 VA R 720 VA R	RECEPTS RECEPTS		re CB C 2 20 A 1 2 20 A 3 2 20 A 5		Vire D 12 R	RECEPTS	Type Load R 360	d (VA) NOTE 0 VA
3610 VA MT AIR COMPRESSOR 8 30 A 7 18 20 A 10 LIGHTS/RECEPTACLES	M 1500		4000 VA P.	2.0 2.0 2.0 2.0	12	5 6	A 12	2X EP-4			180 VA R 1200 VA K	RECEPTS			6 20 A 8 20 A		QUIPMENT		0 VA
9 10 40 A SPD2			3000 VA V	/H EWH	H-1 12	20 A 9 10 50	A 8	BRIDGE CRANE	MT: M 41550 VA		540 VA R 720 VA R	RECEPTS	1	2 20 A 9 2 20 A 11	10 20 A	12 C	CHU-F2-1 RECEPTS	H; M 600	0 VA
1000 VA L FUELISLAND LIGHTS 10 20 A 13 14 40 A -				L SITE LIG	RE GHTING 12	20 A 13 14 20 A 15 16 80	A 4	T-LD	L; MT; 24250 VA		500 VA M 900 VA R	RECEPTS	1	2 20 A 13 2 20 A 15	14 20 A 16 20 A	12 R	RECEPTS RECEPTS F-1, EF-2	R 720 R 540	0 VA 0 VA
SPACE - 17 18 SPARE 0 A 19 20			1974 VA E	L SITE LIG	VRE	20 A 17 18 20 A 19 20 20		SPARE		-	1200 VA H; M	RADIANT HEATE	RS 1	2 20 A 17 19	18 20 A 20			F 106	
SPACE 21 22 SPACE SPACE 23 24 SPACE		-		- SPAR	RE	20 A 21 22 20 20 A 23 24 20		LIGHTING	L; EL 2742 VA L; EL 3627 VA		5198 VA C; M	CU-F2-1	1	2 20 A 21 23	22 20 A	12	CU-F2-2	C; M 288	38 VA
REFER TO SITE PLAN FOR CORF				- SPAR	BE	20 A 25 26 20 A 27 28 20 20 A 29 30	A 12	PRESSURE WAHSER	WH 5750 VA		6498 VA MT; M	AIR COMPRESS	OR 1	2 20 A 27	28		-3, DSCU-F2-3	C; M 291	
SIZE FOR ALL LOADS FED FROM	1 PANEL I	<u>LD.</u>		- SPAR	RF	20 A 31 32 20 20 A 33 34 20		SPARE EXT. LIGHTING	EL 1688 VA	-	2912 VA C; M	DS-F2-3, DSCU-F	F2-3 1	2 20 A 31 33	30 20 A 32 34	12 DS-F2	-1, DSCU-F2-1	C; M 291	12 VA
36 36 37 38 37 38 36 37 38 36 37 38 36 37 38 36 37 38 37 37 38 37 37 38 37 37 38 37 37 38 37 37 38 37 37 38 37 37 37 37 37 37 37 37 37 37 37 37 37			P	SPA		20 A 35 36		SPACE		-	3610 VA MT;	FCU-F2-2	1	2 20 A 37	36 200 A	3/0	LB1	MT; 4863 M; W	20 VA
39 40 41 42			94262 VA 6			41 42 -		SPACE SPACE		-	720 VA R	RECEPTS	1	2 20 A 41		12 P	CU-F21-1	MT: M 433	32 VA
N.E.C. (2014) Load Type Conn. Fct. Diversity N.E.C. (2014) Load Type Conn. 220.44 (R)Receptacle 210.20(a) (L)Lighting 2500 VA	Fct. E 125.00% 3	Diversity 3125 VA	220.44 (R)R	ad Type Conn. eceptacle 13140 V	/A 88.05%	11570 VA 210.2	(2014) Load Ty 20(a) (L)Lighting	8767 VA	Fct. Diversi 125.00% 10959	VA	0 VA M 1000 VA M	DRYPIPE COMPRE TRUCK SCAL			44 46 20 A 48 20 A		ARM EXPANDER	M 250	0 VA
220.56 (K)Kitchen (EL)Ext. Ltg. 220.60 (C)Ccoling 0 VA 620.14 (E)Elevators			220.60 (C)C	ooling 16822 V	/A 100.00%	1200 VA 16822 VA 620		rs	125.00% 6835 V		2000 VA H; M	RISER ROOM HE/		2 20 A 49	50 20 A	12 SECL	JRITY PANEL	Po 0	VA
220.60 (H)Heating 0 VA (WH)Wat. Hz. 220.60 (F)Fans 220.5 (MT)Lrg. Motor 3610 VA	125.00% 4	4513 VA	220.60 (F)F	eating 3800 VA ans 13046 VA	/A 100.00%	0 VA 13046 VA 221		fotor 78000 VA	100.00% 8750 V 113.32% 88388 V	VA	180 VA R 200 VA M	AIR DRYER ELECTRONIC FAU SPD2	CETS 1	 40 A 55 	52 20 A 54 20 A 56 20 A	IDF PEDAST	AL AT TRUCK SC AL AT TRUCK SC AL AT SOUTH G	ATE	
(M)Misc. 18140 VA 100.00% 18140 VA (SP)Sub Pnl. 630.00 (W)Weider 24250 VA VA = 67 A			(M)A 630.00 (W)/ Total Conne	tisc. 25140 V. Velder 20000 V. cted Load: 196333	/A 100.00%	25140 VA 20000 VA 236 A	(SP)Sub F			-		- SPARE		40 A 59	58 20 A 60 20 A 62 20 A		AL AT SOUTH G SPARE SPARE	ATE	
Total Load (Diversified): 25778 VA VA = 57 A Location of Panel:			Total Load (D	iversified): 204910	0 VA VA = 2	295 A 246 A	Location of P	anel: ELEC F109		-		SPARE SPARE SPARE		 20 A 63 	62 20 A 64 20 A 66 20 A		SPARE SPARE		
_	10000 AIC Ratin	19								-		SPARE SPARE SPARE		20 A 67 20 A 69 20 A 71	68 20 A		SPARE SPARE SPARE		
Panelboard LB1	X New Existing											SPARE		 20 A 73 	70 20 A 72 20 A 74		SPACE		
120/208 Wye Volt, 3 Phase, 4 Wire Mains Type: 0 A MCB X Single 1 Section MLO 225 A BUS (Copper) Double	Su	ounting urface								-		SPACE SPACE SPACE		75	76 78 80		SPACE SPACE SPACE		
Type 1 -Nema Rating Feed - Thru NOTE Load (VA) Type Description Wire CB CKT CB Wire Description	X Flu Type Load (V	/A) NOTE								-		SPACE		81	82		SPACE SPACE		
1600 VA MT: OH DOORS 12 20 A 1 2 04 12 ROLLUP DOOR MT:	MT; M 800 V									N.E.C. 220	.44 (R)Recept	acle 13140 VA	Fct. 88.05%	Diversity 11570 VA	N.E.C. (2014 210.20(a)) Load Type (L)Lighting	Conn.	Fct.	Diversity
6240 VA MT: M VEHICLE LIFT 8 40 A 5 6 20 A 12 OH DOORS 540 VA R RECEPTACLES 12 20 A 19 10 20 A 12 HVLS FAN - BA-1	MT; 1600 V MT 1920 V									220		1200 VA 16822 VA	100.00% 100.00%	1200 VA 16822 VA	620.14	(EL)Ext. Ltg. (E)Elevators			
10000 VA M; W WELDER 6 60 A 11 12 50 A 8 VEHICLE LIFT	MT; M 6240 V									220 220	60 (F)Fans	1060 VA	100.00% 100.00%	0 VA 1060 VA	220.5	(WH)Wat. Htr. (MT)Lrg. Motor	32840 VA	104.95%	34465 VA
360 VA R RECEPTACLES 12 20 A 15 16 60 A 6 WELDER 0 VA MT: PORTABLE WELDER 6 60 A 17 18 60 A 6 WELDER	M; W 10000 \									630	(M)Misc. (W)Welde	7000 VA 20000 VA	100.00% 100.00%	7000 VA 20000 VA		(SP)Sub Pnl.			
720 VA R RECEPTS 12 20 A 21 22 R0 A 6 PORTABLE WELDER	R 360 V										Total Connected I Total Load (Diversi			272 A 262 A		ocation of Panel: E	ELEC F109		
2500 VA M SPECIAL RECEPTACLE 10 30 A 25 26 20 A 12 RECEPTS	R 720 V																		
720 VA R RECEPTACLES 12 20 A 27 28 360 VA R RECEPTACLES 12 20 A 29 30 A 10 SPECIAL RECEPTACLE																			
31 32 20 A 12 RECEPTACLES	M 2500 V	A					BA	ASE BID - L	IGHT FIXTU	RE SCHEDI	JLE								
SPARE - 20.4 33 34 20.4 12 RECEPTACLES	R 720 V	A A	TYPE	MANUFACTUR ER	CATALC	0G#	BA	ASE BID - L	IGHT FIXTUR #LAMPS	RE SCHEDU	JLE	INPUT WATTS			REMARKS				
SFARE 20A 37152 20A 12 RECEPTACLES SFARE - 20A 37152 20A 12 RECEPTACLES SFARE - 20A 37153 00A 6 PORTALE FINAL SFARE - 20A 37153 00A 6 PORTALE FINAL 	R 720 V/ R 720 V/ MT: 0 VA	A	TYPE A1	MANUFACTUR ER	CATALC 2GT8 3 32 FW A12					VOLTAGE 277 V	JLE	INPUT WATTS 86 VA		' LAY-IN FIXTU	JRE				
	R 720 V/ R 720 V/ MT: 0 VA 	A A	A1 A1E	ER LITHONIA LITHONIA	2GT8 3 32 FW A12 2GT8 3 32 FW A1212	2125 GEB10IS 25 GEB10IS EL14	MOUNTING LAY-IN LAY-IN	LAMP F32T8/TL84/XLL/ALT G F32T8/TL84/XLL/ALT O		VOLTAGE 277 V 277 V	JLE	86 VA 86 VA	SAI	IE AS 'A1' EXC	JRE EPT WITH EM	ERGENCY			
- - - - - RECEPTALES - RECEPTALES - - - - 20.4 31.9 20.4 12 RECEPTALES - - - 30.42 - 20.4 31.9 20.4 12 RECEPTALES - - - 30.42 - 20.4 31.9 20.4 10.9 20.4 10.9 20.4 10.9 20.4 10.9 20.4 10.9 20.4 10.4 20.4 10.4 20.4 10.4 20.4 10.0 20.9 (L.1.4) Last Type Conn 20.4 10.4 20.4 10.4 20.4 10.4 20.4 10.4 20.4 10.4 20.4 10.4 20.4 10.4 20.4 10.4 20.4 10.4 20.4 10.4 20.4 10.4 20.4 10.4 20.4 10.4 20.4 10.4 20.4 10.4 10.4 20.4 10.4 20.4 10.4	R 720 V/ R 720 V/ MT: 0 VA 	A	A1	ER LITHONIA LITHONIA	2GT8 3 32 FW A12	2125 GEB10IS 25 GEB10IS EL14	MOUNTING LAY-IN	LAMP F32T8/TL84/XLL/ALT O	#LAMPS	VOLTAGE 277 V	JLE	86 VA	SAI BA 4 Li Will	IE AS 'A1' EXC TTERY BACKU MP HIGH BAY REGUARD AND	JRE EPT WITH EM P FIXTURE. PR SUSPENSION	OVIDE WITH			
- - - - RECEPTALES RECEPTALES - - - 20A 31 M 20A 72 RECEPTALES - - - 30 M 20 73 M 72 RECEPTALES - - - 30 M 72 RECEPTALES 72 RECEPTALES - - - 30 M 6 72 RECEPTALES 72 - - - 30 M 60 70 M 70 M 70 M - - - - 30 M 70 M 70 M 70 M 70 M - - - - SPARE - 20 A 14 L 70 A 70 M 70 M - - - - SPARE - 20 A 14 L 70 A 70 M	R 720 V/ R 720 V/ MT: 0 VA 	A A	A1 A1E	ER LITHONIA LITHONIA LITHONIA IBZ	2GT8 3 32 FW A12 2GT8 3 32 FW A1212	2125 GEB10IS 25 GEB10IS EL14 B10IS OUTCTR 2WGX	MOUNTING LAY-IN LAY-IN	LAMP F32T8/TL84/XLL/ALT G F32T8/TL84/XLL/ALT O	#LAMPS	VOLTAGE 277 V 277 V	JLE	86 VA 86 VA	SAI BA 4 L WIF CA CO SAI	ME AS 'A1' EXC ITERY BACKUI MP HIGH BAY REGUARD AND BLES/HARDWA DRDINATE WIT ME AS A2 WITH	JRE EPT WITH EM P SUSPENSION RE. SUSPEN TH EQUIPMEN EMERGENC'	OVIDE WITH			
- -	R 720 V/ R 720 V/ MT: 0 VA 	A	A1 A1E A2	ER LITHONIA LITHONIA LITHONIA IBZ	2GT8 3 32 FW A12 2GT8 3 32 FW A1212 2GT8 4 WDU NLWG GEB	2125 GEB 10IS 25 GEB 10IS EL 14 810IS OUTCTR 2WGX 810IS OUTCTR 2WGX	MOUNTING LAY-IN LAY-IN SUSPENDED	LAMP F32T8/TL84/XLL/ALT O F32T8/TL84/XLL/ALT O F54T5/841/HO/ALTO	#LAMPS	VOLTAGE 277 V 277 V 277 V 277 V		86 VA 86 VA 216 VA	SAI BA' 4 L Will CA CA SAI SAI	ME AS 'A1' EXC ITERY BACKU MP HIGH BAY REGUARD AND BLES/HARDWA ORDINATE WIT ME AS A2 WITH S INNER 2 LAM	IRE FIXTURE PR SUSPENSION RE SUSPENSION IN EQUIPMEN I EMERGENCY	OVIDE WITH D AT 20' AFF, T Y BATTERY PACK			
- -	R 720 V/ R 720 V/ MT: 0 VA 	A A	A1 A1E A2 A2E C1	ER LITHONIA LITHONIA IITHONIA LITHONIA LITHONIA	2GT8 3 32 FW A12 2GT8 3 32 FW A1212 2454 WDU NLWG GEB 2 454 WDU NLWG GEB 2 2 32 GEB10IS 1	2125 GEB10IS 25 GEB10IS EL 14 810IS OUTCTR 2WGX 810IS OUTCTR 2WGX HC36WGZ48	MOUNTING LAY-IN LAY-IN SUSPENDED SUSPENDED SURFACE	LAMP F32T8/TL84/XLL/ALT 0 F32T8/TL84/XLL/ALT 0 F54T5/841/H0/ALTO F34T5/841/H0/ALTO F32T8/TL84/XLL/ALT 0	# LAMPS 3 3 4 4 4	VOLTAGE 277 V 277 V 277 V 277 V 277 V	JLE	86 VA 86 VA 216 VA 216 VA 55 VA	SAI BA 4 L WII CA CO SAI FO 2.L WII HA UN	ME AS 'A1' EXC ITERY BACKUI MIP HIGH BAY REGUARD AND SLESHARDWA DRDINATE WIT ME AS A2 WITH E AS A2 WITH E AS A2 WITH RE AS A2 WITH ME AS A2 WITH RE AS A3 WI	JRE EPT WITH EM P FIXTURE. PR SUSPENSION HE EQUIPMEN HEMERGENCY IPS TRIP FIXTURE D, SUSPENSIO SPEND AT 9' A ACE MOUNT	OVIDE WITH D AT 20' AFF, T Y BATTERY PACK D ROVIDE DN CABLE AND FF WHERE			
- -	R 720 V/ R 720 V/ MT: 0 VA 	A A	A1 A1E A2 C1 C1E	ER LITHONIA LITHONIA LITHONIA LITHONIA LITHONIA LITHONIA	2GT8 3 32 FW A12 2GT8 3 32 FW A1212 2 454 WDU NLWG GEB Z 454 WDU NLWG GEB Z 2 32 GEB10IS H Z 2 32 GEB10IS H	2125 GEB10IS 25 GEB10IS EL14 810IS OUTCTR 2WGX 810IS OUTCTR 2WGX HC36WGZ48 EL	MOUNTING LAY-IN LAY-IN SUSPENDED SUSPENDED SURFACE SURFACE	LAMP F32T8/TL8/XLI/ALT F32T8/TL8/XLI/ALT F54T5/841/HO/ALTO F54T5/841/HO/ALTO F54T5/841/HO/ALTO F32T8/TL8/XLI/ALT F32T8/TL8/XLI/ALT	# LAMPS 3 3 4 4 4	VOLTAGE 277 V 277 V 277 V 277 V 277 V 277 V	JLE	86 VA 86 VA 216 VA 216 VA 55 VA 55 VA	SAI BA' VAI CO SAI FO 2-L WT HA UN SAI EM	ME AS 'A1' EXC TTERY BACKU MAP HIGH BAY EGUARD AND LES/HARDWA DRDINATE WI ME AS A2 WITH ME AS A2 WITH ME AS A2 WITH ME AS A2 WITH AND LINEAR S H WIREGUAR SOWARE. SUS ABLE TO SURF ME AS FIXTURE	IRE EPT WITH EM P FIXTURE PR SUSPENSION RE. SUSPEN INS EMERGENC'S IPS TRIP FIXTURE D, SUSPENSIC SUSPENSIC ACC MOUNT E C1. PROVID	OVIDE WITH D AT 20' AFF, T BATTERY PACK PROVIDE N CABLE AND FF WHERE E WITH			
- -	R 720 V/ R 720 V/ MT: 0 VA 	A A	A1 A1E A2 C1 C1E C2	ER LITHONIA LITHONIA LITHONIA LITHONIA LITHONIA LITHONIA LITHONIA LITHONIA	2GT8 3 32 FW A12 2GT8 3 32 FW A1212 2 454 WDU NLWG GEB 2 454 WDU NLWG GEB EL 2 2 32 GEB10IS H 2 2 32 GEB10IS H 2 2 32 GEB10IS H 2 2 32 GEB10IS H	2125 GEB 1015 25 GEB 1015 EL 14 31015 OUTCTR 2WGX 81015 OUTCTR 2WGX HC360WG248 EL C360WG248 EL LT GEB 10PS	MOUNTING LAY-IN LAY-IN SUSPENDED SUSPENDED SURFACE	LAMP F32T8/TL84/XLL/ALT 0 F32T8/TL84/XLL/ALT 0 F54T5/841/H0/ALTO F34T5/841/H0/ALTO F32T8/TL84/XLL/ALT 0	# LAMPS 3 3 4 4 4	VOLTAGE 277 V 277 V 277 V 277 V 277 V 277 V 277 V 277 V		86 VA 86 VA 216 VA 216 VA 55 VA 55 VA 55 VA	SAI BA 4 LL WII CAU CO SAI FOI UN UN SAI EM EM 2-L 2-L SAI SAI SAI	AE AS 'A1' EXC TTERY BACKUI MIP HIGH BAY BEGUARD AND BLESHARDWA DRDINATE WIT IME AS A2 WITH R INNER 2 LAM MIP LINEAR S H WIREGUAR BALE TO SURR ME AS FIXTURE SUBLE TO SURR ME AS FIXTURE AND LINEAR S ME AS C2 WITH	IRE EPT WITH EM P FIXTURE PR SUSPENSION RE SUSPEN IN EQUIPMENT ISS TRIP FIXTURE D, SUSPENSIO SPEND AT 97 A ACE MOUNT ECT. PROVID TERY PACK TRIP FIXTURE	OVIDE WITH D AT 20' AFF, T T VBATTERY PACK PROVIDE ON CABLE AND FF WHERE E WITH , ENCLOSED VBATTERY			
- -	R 720 V/ R 720 V/ MT: 0 VA 	A A	A1 A1E A2 C1 C1E	ER LITHONIA LITHONIA LITHONIA LITHONIA LITHONIA LITHONIA LITHONIA LITHONIA	2GT8 3 32 FW A12 2GT8 3 32 FW A1212 2 454 WDU NLWG GEB Z 454 WDU NLWG GEB Z 2 32 GEB10IS H Z 2 32 GEB10IS H	2125 GEB 1015 25 GEB 1015 EL 14 25 GEB 1015 EL 14 31015 OUTCTR 2WGX HC36WG248 C36WG248 EL LT GEB 10PS EB 10PS EL 9W 277	MOUNTING LAY-IN LAY-IN SUSPENDED SUSPENDED SURFACE SURFACE	LAMP F3278/TL64/3LUALT 6/278/TL64/3LUALT 6/278/TL64/3LUALT 6/278/TL64/3LUALT 6/278/TL64/3LUALT 6/278/TL64/3LUALT 6/278/TL64/3LUALT	# LAMPS 3 3 4 4 4	VOLTAGE 277 V 277 V 277 V 277 V 277 V 277 V		86 VA 86 VA 216 VA 216 VA 55 VA 55 VA	SAI BA 4 LL WII CA CO SAI FOI UN UN SAI EM 2-L SAI PA LEI	AE AS 'A1' EXC TTERY BACKUI MIP HIGH BAY KEGUARD AND XLESHARDWA DRDINATE WII AE AS A2 WITH R INNER 2 LAM MIP LINEAR S H WIREGUAR ROWARE, SUS ABLE TO SURP ME AS FIXTUR SOURCE SUS ABLE TO SURP ME AS C2 WITH X S STRIP FIXTUR	IRE EPT WITH EMP P FIXTURE PR SUSPENSION RE. SUSPENSION RE. SUSPENSION PS THE FIXTURE TEMPERST PS THE FIXTURE TEMP FI	OVIDE WITH D AT 20' AFF, T T VBATTERY PACK PROVIDE ON CABLE AND FF WHERE E WITH , ENCLOSED VBATTERY			
- -	R 720 V/ R 720 V/ MT: 0 VA 	A A	A1 A1E A2 C1 C1E C2E C3 D2	ER LITHONIA LITHONIA LITHONIA BZ LITHONIA LITHONIA LITHONIA LITHONIA LITHONIA LITHONIA LITHONIA LITHONIA	2GT8 3 32 FW A12 2GT8 3 32 FW A12 2GT8 3 32 FW A12 2 454 WDU NLWG GEB 2 454 WDU NLWG GEB 2 454 WDU NLWG GEB 2 2 32 GEB1018 H 2 2 32 GEB1018 H DMW 2 32 MVOL DMW 2 32 MVOL DMW 2 32 MVOL DMW 2 12L E21 L EVO 4122 80FD	2125 GEB 1015 25 GEB 1015 EL 14 31015 OUTCTR 2WGX 31015 OUTCTR 2WGX 41015 OUTCTR 2WGX 4103 OUTCTR 2WGX 4104 OUTCTR 2WGX 41004 OUTCTR 2WGX 41004 OUTCTR 2WGX 410	MOUNTING LAY-IN LAY-IN SUSPENDED SUSPENDED SURFACE SURFACE SURFACE SURFACE LAY-IN RECESSED	LAMP F3278/TL84/ALUALT 0 F3278/TL84/ALUALT F5475841/H0/ALTO F5475841/H0/ALTO F3278/TL84/ALUALT 0 F3278/TL84/ALUALT 0 F3278/TL84/ALUALT 0 F3278/TL84/ALUALT 0 EED	# LAMPS 3 3 4 4 4	VOLTAGE 277 V 277 V		86 VA 86 VA 216 VA 216 VA 55 VA 55 VA 55 VA 55 VA 55 VA 30 VA 39 VA	SAL BA' BA' WI CA CA CA CO CO CO SAL SAL SAL SAL SAL SAL SAL SAL SAL SAL	HE AS 'AT EXC ITERY BACKU ITERY BACKU HOLE BAT REGURAD AND LESHARDW. DORINATE WI' RINER 2 LAN MP LINERS COURT ERGENCY BAT MMP LINERS COURT ERGENCY BAT STRIP FIXTU STRIP FIXTU	JRE JEPT WITH EM P FIXTURE. PR SUSPENSION RE. SUSPENSION RE. SUSPENSION I EMERGENCY PS TRIP FIXTURE O, SUSPENSION ACCE MOUNT FOR FIXTURE CT. PROVID TERY PACK. TRIP FIXTURE I EMERGENCY RE WITH BUIL ISOR C CAN AND 0-0	OVIDE WITH D AT 20' AFF, T BATTERY PACK PROVIDE IN CABLE AND FF WHERE E WITH , ENCLOSED 7 BATTERY T IN TO DIMMING.			
- -	R 720 V/ R 720 V/ MT: 0 VA 	A A	A1 A1E A2 C1 C1E C2E C3 D2 W1	ER LITHONIA LITHONIA BZ LITHONIA BZ LITHONIA BZ LITHONIA LITHONIA LITHONIA LITHONIA LITHONIA LITHONIA LITHONIA LITHONIA KORAM	2GT8 3 32 FW A12 2GT8 3 32 FW A12 2GT8 3 32 FW A12 2454 WDU NLWG GEB 2 454 WDU NLWG GEB 2 2 32 GEB1015 H 2 2 32 GEB1015 H DMW 2 32 GM/GL DMW 2 32 GM/GL DMW 2 32 GM/GL DW 2 32 SM/GLT GE WL 12 12 E2TU ULY 12 E2TU ULY 12 E2TU SR LED 1 10A70046K	2125 GEB10IS 25 GEB10IS EL 14 810IS OUTCTR 2WGX 810IS OUTCTR 2WGX 810IS OUTCTR 2WGX 810IS OUTCTR 2WGX 810IS OUTCTR 2WGX 810IS CLARK 2000 2000 CLARK 2000 CLARK 2000 2000 CLARK 2000 CLARK 20000 CLARK 2000 CLARK	MOUNTING LAY-IN LAY-IN SUSPENDED SUSPENDED SURFACE SURFACE SURFACE LAY-IN RECESSED SURFACE	LAMP F3278/TL84/3/LUALT 0 F3278/TL84/3/LUALT 0 F3475841/HO/ALTO F3278/TL84/3/LUALT F3278/TL84/3/LUALT F3278/TL84/3/LUALT F3278/TL84/3/LUALT F3278/TL84/3/LUALT ED LED LED	# LAMPS 3 3 4 4 4	VOLTAGE 277 V 277 V		86 VA 86 VA 216 VA 216 VA 55 VA 55 VA 55 VA 55 VA 55 VA 30 VA 30 VA 24 VA	SAL BA' BA' WI WI WI CAD CO CO CO SAL SAL SAL SAL SAL SAL SAL SAL SAL SAL	ME AS 'AT EXC TTERY BACKLU MP HIGH BAY BELSHARD AND BELSHARD WIND RDINATE WIT ME AS AZ WITT ME AS AZ WITT ME AS AZ WITT MINER 2 LAM NOT AND A AND AND AND MP LINEAR S MINER 2 LAM BALE TO SURF. MINER 2 LAM MP LINEAR S MINER 2 LAM MINER AND AND MINERAL S MINER AND AND MINERAL S MINER AND AND MINERAL S MINER AND AND MINERAL S MINERAL S MI	JRE JEPT WITH EM P FIXTURE. PF SUSPENSION RE. SUSPENSION RE. SUSPENSION I EMERGENCY PS TRIP FIXTURE O, SUSPENSION ACE MOUNT FIXTURE CT. PROVID TERY PACK TRIP FIXTURE I EMERGENCY RE WITH BUIL ISOR O CAN AND O- MOUTOM OF PD JOTOM OF PD JOTOM OF PD JOTOM OF PD JOTOM OF PD	IOVIDE WITH D AT 20' AFF, T BATTERY PACK . PROVIDE IN CABLE AND FF WHERE E WITH . ENCLOSED / BATTERY T IN IGV DIMMING. IRE AT 9' AFF, TURE.			
- -	R 720 V/ R 720 V/ MT: 0 VA 	A A	A1 A1E A2 C1 C1E C2E C3 D2	ER LITHONIA LITHONIA LITHONIA BZ LITHONIA LITHONIA LITHONIA LITHONIA LITHONIA LITHONIA LITHONIA LITHONIA	2GT8 3 32 FW A12 2GT8 3 32 FW A12 2GT8 3 32 FW A12 2 454 WDU NLWG GEB 2 454 WDU NLWG GEB 2 454 WDU NLWG GEB 2 2 32 GEB1018 H 2 2 32 GEB1018 H DMW 2 32 MVOL DMW 2 32 MVOL DMW 2 32 MVOL DMW 2 12L E21 L EVO 4122 80FD	2125 GEB10IS 25 GEB10IS EL14 310IS OUTCTR 2WGX HC36WG248 EL LT GEB10PS EB10PS EL5W 277 P840 NES7 0 120 ISD BC SR2 M/OLT DNAXD ELN SDFIFA	MOUNTING LAY-IN LAY-IN SUSPENDED SUSPENDED SURFACE SURFACE SURFACE SURFACE LAY-IN RECESSED	LAMP F3278/TL84/ALUALT 0 F3278/TL84/ALUALT F5475841/H0/ALTO F5475841/H0/ALTO F3278/TL84/ALUALT 0 F3278/TL84/ALUALT 0 F3278/TL84/ALUALT 0 F3278/TL84/ALUALT 0 EED	# LAMPS 3 3 4 4 4	VOLTAGE 277 V 277 V		86 VA 86 VA 216 VA 216 VA 55 VA 55 VA 55 VA 55 VA 55 VA 30 VA 39 VA	SAL BA 4 L L VIII CA CO CO SAL FO VIII VIII VIII VIII VIII VIII VIII V	HE AS 'AT' EXC ITTERY BACKUI ITTERY BACKUI ITTERY BACKUI SEGUARD AND SEGUARD AND SEGUARD AND SEGUARD AND RESURPTION AND SEGUARD RESURPTION AND SEGUAR	IRE EEPT WITH EM P SUSPENSION REE. SUSPENSION REE. SUSPENSION REE. SUSPENSION PROVIDENT FOR THE SUSPENSION PROVIDENT FOR THE SUSPENSION PROVIDENT FOR THE SUSPENSION TERY PACK TRIP FUTURE E CT. PROVIDE SOR E WITH BUS SOR MOUNT FOR DITOM OF FR EXT SIGN WICS	IOVIDE WITH 1 C 27 AFF, 1 C 27 AFF, 1 C 20 AFF, 1 C 2			
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SELF-DIAGNOSTICS WALL MOUNTED EXTERIOR EGRESS LIGHT

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SERVICE CENTER PROJECT CAPITAL PORT DRIVE SAN ANTONIO,TX **NSOC NEW**

San Antonio Water System Oraum DBR
 Date 03/20/2015
 PROJECT No. 14019
 Revisions

SHEET TRUE ELECTRICAL SCHEDULE -FLEET BLDG SHEET RG. E502 **AS-BUILTS**

06-08-2016

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221	0.60	(C)Co		1			0 VA		1	620 14			Elevators	1				
	0.60	(H)Hes		1800 V	A 100.009		1800 V/		1				HWat. Htr.					
	0.60	(F)Far		1800 V	100.009	•	1000 V/	•	1	220.5			H)Wat. Htr. T)Lrg. Moto					
22	2.00			500 V	A 100.003		500 VA		1	220.5			1 jurg. Moto PISub Pnl.					
	0.00	(M)Mis		500 V.	100.00%	•	DUU VA					(SP	rjsup Pnl.					
63			ed Load	-	OVA VA =				-					1	1			
						8 /			1		Lo	cati	on of Panel	ELEC S111				
	Total Lo	ad (Div	ersified)	: 302	0 VA VA =	87					_							

		BA	SE BID -	LIGHT FIXTUR	RE SCHE	EDULE		
TYPE	MANUFACTUR	CATALOG #	MOUNTING	LAMP	#LAMPS	VOLTAGE	INPUT WATTS	REMARKS
A1	LITHONIA	2GT8 3 32 FW A12125 GEB10IS	LAY-IN	F32T8/TL84/XLL/ALTO	3	277 V		3-LAMP LENSED TROFFER, DUAL BALLAST.
A1E A2	LITHONIA	2GT8 3 32 FW A12125 GEB10IS EL14 IBZ 454 WDU NLWG GEB10IS OUTCTR 2WGX	LAY-IN SUSPENDED	F32T8/TL84/XLL/ALTO F54T5/TL84/HO/ALTO	3	277 V 277 V	86 VA 216 VA	SAME AS FIXTURE A1. HI-LUMEN BATTERY PACK 4-LAMP HIGH BAY.
A2E	LITHONIA	IBZ 454 WDU NLWG GEB10IS OUTCTR 2WGX	SUSPENDED	F54T5/TL84/HO/ALTO	4	277 V	216 VA	SAME AS A2 WITH EMERGENCY BATTERY PACK
C1	LITHONIA	Z 2 32 GEB10IS HC36WGZ48	SUSPENDED	F32T8/TL84/XLL/ALTO	2	277 V	55 VA	2-LAMP LINEAR STRIP FIXTURE. PROVIDE WITH WIREGUARD
C1E	LITHONIA	Z 2 32 GEB10IS HC36WGZ48 EL	SUSPENDED	F32T8/TL84/XLL/ALTO	2	277 V		SAME AS FIXTURE C1. PROVIDE WITH EMERGENCY BATTERY PACK
C2	LITHONIA	C 2 32 MVOLT GEB10IS WGC	SUSPENDED	F32T8/TL84/XLL/ALTO	2	277 V	55 VA	2-LAMP LINEAR STRIP FIXTURE. PROVIDE WITH WIREGUARD
W1	LITHONIA	WSR LED 1 10A700/40K SR2 MVOLT DNAXD	SURFACE	LED	0	277 V		LED WALL PACK. MOUNT FIXTURE AT 9' AFF, MEASURED TO BOTTOM OF FIXTURE.
X3	LITHONIA	AFN DB EXT	SURFACE	LED	1	277 V	6 VA	WALL MOUNTED EXTERIOR EGRESS LIGHT FIXTURE

		ALTERI	NATE 1B	- LIGHT FIX	TURE \$	SCHEDU	LE	
TYPE	MANUFACTUR	CATALOG #	MOUNTING	LAMP	# LAMPS	VOLTAGE	INPUT WATTS	REMARKS
A1	LITHONIA	2GTL 4 40L FW LP840	LAY-IN	LED	1	277 V		2x4" LAY-IN LED FIXTURE
A1E	LITHONIA	2GT8 3 32 FW A12125 GEB10IS EL14	LAY-IN	LED	1	277 V		SAME AS 'A1' EXCEPT WITH EMERGENCY BATTERY BACKUP
A2	LITHONIA	IBZ 454 WDU NLWG GEB10IS OUTCTR 2WGX	SUSPENDED	LED	1	277 V		HIGH BAY LED FIXTURE. PROVIDE WITH SUSPENSION CABLES/HARDWARE. SUSPEND AT 20' AFF, COORDINATE WITH EQUIPMENT
C2	LITHONIA	DMW 2 32 MVOLT GEB10PS	SUSPENDED	LED	1	277 V	50 VA	LED LINEAR STRIP FIXTURE, ENCLOSED
X2	LITHONIA	ELM2 LED SD	SURFACE	LED	1	277 V	5 VA	THERMOPLASTIC EMERGENCY LIGHT WITH SELF-DIAGNOSTICS
X3	LITHONIA	AFN DB EXT	SURFACE	LED	1	277 V	6 VA	WALL MOUNTED EXTERIOR EGRESS LIGHT FIXTURE

1B	- LIGHT FIX	TURE S	SCHEDU	LE	
ING	LAMP	# LAMPS	VOLTAGE	INPUT WATTS	REMARKS
IN	LED	1	277 V	39 VA	2x4" LAY-IN LED FIXTURE
IN	LED	1	277 V	39 VA	SAME AS 'A1' EXCEPT WITH EMERGENCY BATTERY BACKUP
IDED	LED	1	277 V	216 VA	HIGH BAY LED FIXTURE. PROVIDE WITH SUSPENSION CABLES/HARDWARE. SUSPEND AT 20' AFF, COORDINATE WITH EQUIPMENT
IDED	LED	1	277 V	50 VA	LED LINEAR STRIP FIXTURE, ENCLOSED
VCE	LED	1	277 V	5 VA	THERMOPLASTIC EMERGENCY LIGHT WITH SELF-DIAGNOSTICS
VCE	LED	1	277 V	6 VA	WALL MOUNTED EXTERIOR EGRESS LIGHT



Mathing Nation No. 223, 94927 210, 223, 25827 ARCHITECTURE 210, 223, 94927 210, 223, 25827 200 N. St. May's Suite 1600 San Antonio, TX 78205

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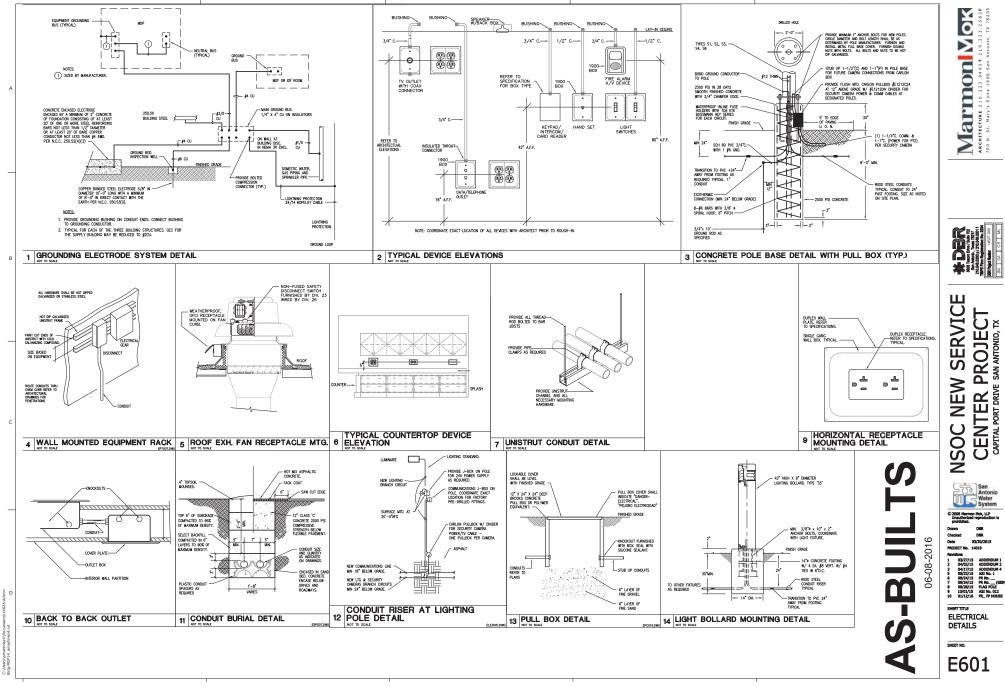
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San Antonio Water System

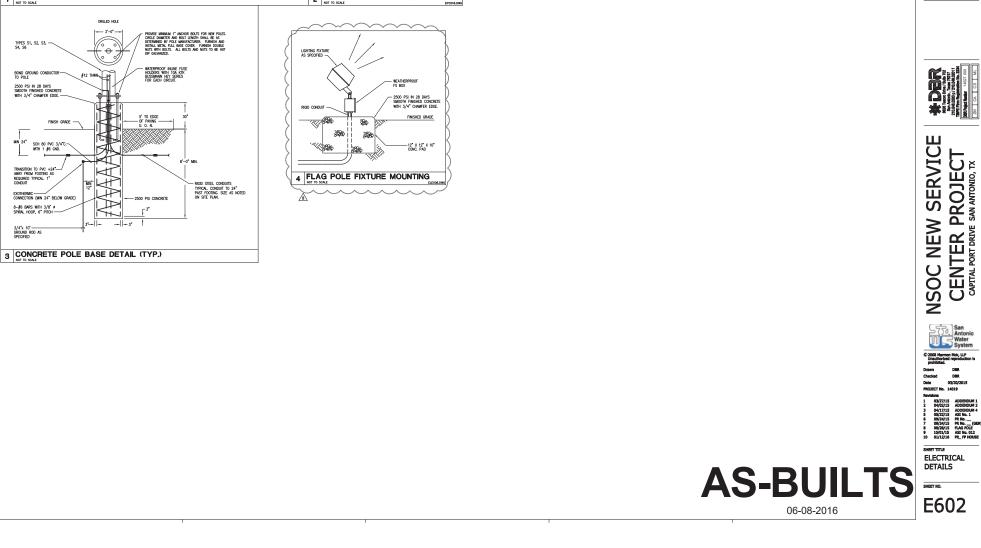
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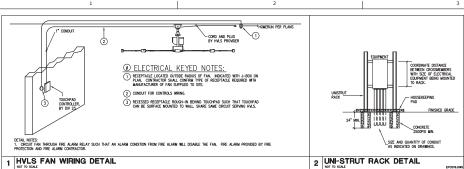
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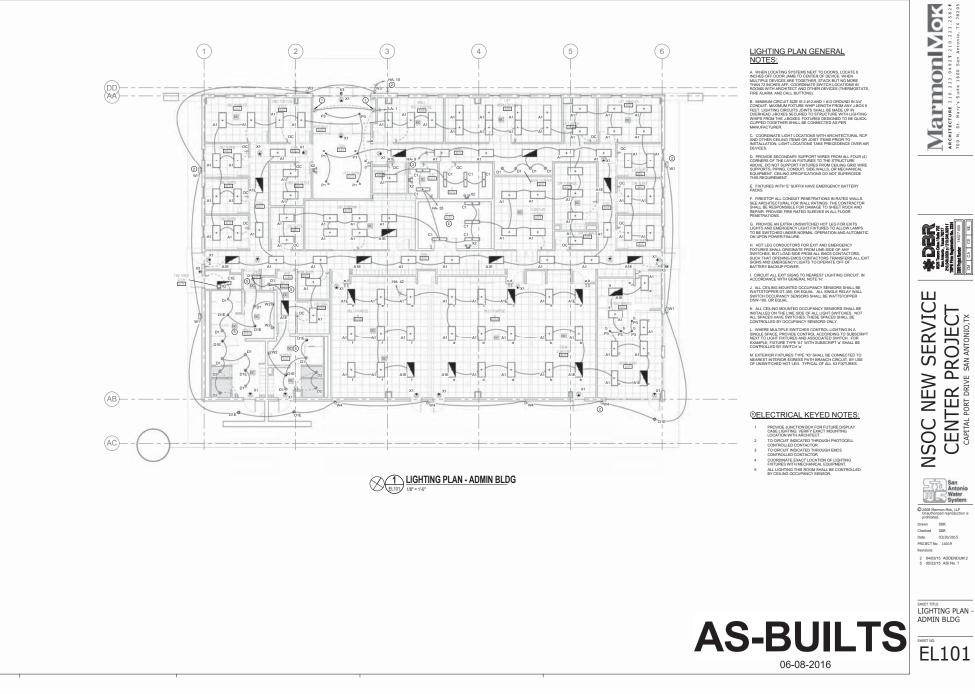




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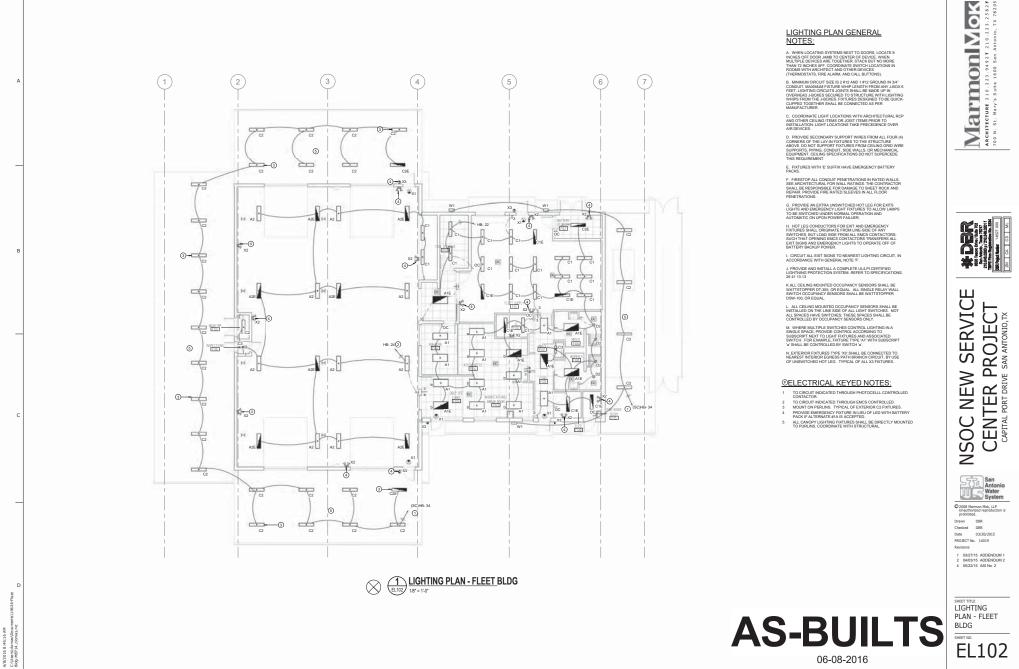
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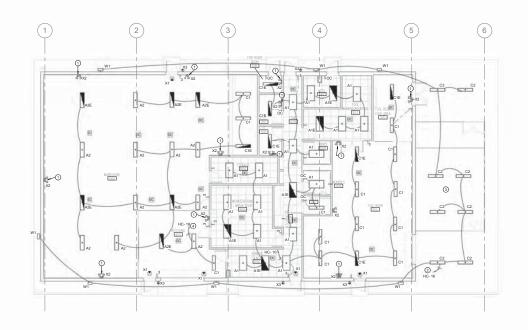
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LIGHTING PLAN GENERAL NOTES:

A. WHEN LOCATING SYSTEMS NEXT TO DOORS, LOCATE 8 INCHES OFF DOOR JAMB TO CENTER OF DEVICE. WHEN MULTIPLE DEVICES ARE TOGETHER, STACK BUT NO MORE THAN 72 INCHES AFF. COORDINATE SWITCH LOCATIONS IN ROOMS WITH ARCHITECT AND OTHER DEVICES (THERMOSTATS, FIRE ALARM, AND CALL BUTTONS)



LIGHTING PLAN - SUPPLY BLDG \bigotimes

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A. WHEN LOCATING SYSTEMS NEXT TO DOORS. LOCATE 8 A "WHEN LOCATING STSTEMS REALT TO DUCKS. LOCATE B INCHES OFF DOOR JAMB TO CENTER OF DEVICE. WHEN MULTIPLE DEVICES ARE TOGETHER, STACK BUT NO MORE THAN 72 INCHES AFF. COORDINATE SWITCH LOCATIONS IN ROOMS WITH ARCHITECT AND TOTHER DEVICES (THERMGSTRTS, FIRE JAMD, AND CALL BUTTONS).

B. MINIMUM CIRCUIT SIZE IS 2 #12 AND 1 #12 CRCUND IN 34" CONDUCT. MAXIMUM FXTURE WHIP LENGTH FROM ANY JBOX6 FEET. LIGHTNG CIRCUITS JOINTS SHALL BE MADE UP IN OVERHEAD JBOXES SECURED TO STRUCTURE WITH LIGHTING WHIPS FROM THE JAOXES. FXTURES DESIGNED TO BE QUICK-CLIPPED TOGETHER SHALL BE CONNECTED AS PER MANUFACTURER.

C. COORDINATE LIGHT LOCATIONS WITH ARCHITECTURAL RC AND OTHER CEILING ITEMS OR JOIST ITEMS PRIOR TO INSTALLATION. LIGHT LOCATIONS TAKE PRECEDENCE OVER AIR DEVICES. HITECTURAL RCI

D. PROVIDE SECONDARY SUPPORT WIRES FROM ALL FOUR (4) CORNERS OF THE LAY.IN FIXTURES TO THE STRUCTURE ABOVE. DO NOT SUPPORT FIXTURES FROM CELLING GRID WIRE SUPPORTS, PINING, CONDUIT, SIDE WALLS, GRI MECHANICAL EQUIPMENT. CELLING SPECIFICATIONS DO NOT SUPERCEDE THIS REQUIREMENT.

E. FIXTURES WITH 'E' SUFFIX HAVE EMERGENCY BATTERY PACKS.

F. FIRESTOP ALL CONDUIT PENETRATIONS IN RATED WALLS. SEE ARCHITECTURAL FOR WALL RATINGS. THE CONTRACTOR SEE ARCHITECTURAL FOR WALL RATINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO SHEET ROCK AND REPAIR. PROVIDE FIRE RATED SLEEVES IN ALL FLOOR PENETRATIONS.

G. PROVIDE AN EXTRA UNSWITCHED HOT LEG FOR EXITS LIGHTS AND EMERGENCY LIGHT FIXTURES TO ALLOW LAMPS TO BE SWITCHED UNDER NORMAL OPERATION AND AUTOMATIC ON UPON POWER FAILURE.

H. HOT LEG CONDUCTORS FOR EXIT AND EMERGENCY FIXTURES SHALL ORIGINATE FROM LINE-SIDE OF ANY SWITCHES BUILT DAD SIDE FROM ALL EMES CONTACTORS SUCH THAT OPENING EMES CONTACTORS TRANSFERS ALL EXIT SIGNS AND EMERGENCY LIGHTS TO OPERATE OFF OF BATTERY BACKUP POWER.

I. CIRCUIT ALL EXIT SIGNS TO NEAREST LIGHTING CIRCUIT, IN ACCORDANCE WITH GENERAL NOTE 'H'.

J. ALL CEILING MOUNTED OCCUPANCY SENSORS SHALL BE WATTSTOPPER DT-385, OR EQUAL. ALL SINGLE RELAY WALL SWITCH OCCUPANCY SENSORS SHALL BE WATTSTOPPER DSW-100, OR EQUAL.

K ALL CEILING MOUNTED OCCUPANCY SENSORS SHALL E INSTALLED ON THE LINE SIDE OF ALL LIGHT SWITCHES. N ALL SPACES HAVE SWITCHES, THESE SPACES SHALL BE CONTROLLED BY OCCUPANCY SENSORS ONLY.

L WHERE MULTIPLE SWITCHES CONTROL LIGHTING IN A SINGLE SPACE, PROVIDE CONTROL ACCORDING TO SUBSORIPT NEXT TO LIGHT FIXTURES AND ASSOCIATED SWITCH. FOR EXAMPLE, FIXTURES TYPE 'A1' WITH SUBSOF '4' SHALL BE CONTROLLED SWITCH 'A'.

M. EXTERIOR FIXTURES TYPE 'X3' SHALL BE CONNECTED TO NEAREST INTERIOR EGRESS PATH BRANCH CIRCUIT.

ELECTRICAL KEYED NOTES:

- PROVIDE EMERGENCY FIXTURE IN LIEU OF LED WITH BATTERY PACK IF ALTERNATE #18 IS ACCEPTED. TO CIRCUIT INDICATED THROUGH PHOTOCELLL CONTROLLED CONTACTOR.
- ALL CANOPY LIGHTING FIXTURES SHALL BE DIRECTLY MOUNTED TO PURLINS. COORDINATE WITH STRUCTURAL 3
- 4 TO CIRCUIT INDICATED THORUGH EMCS CONTROLLER



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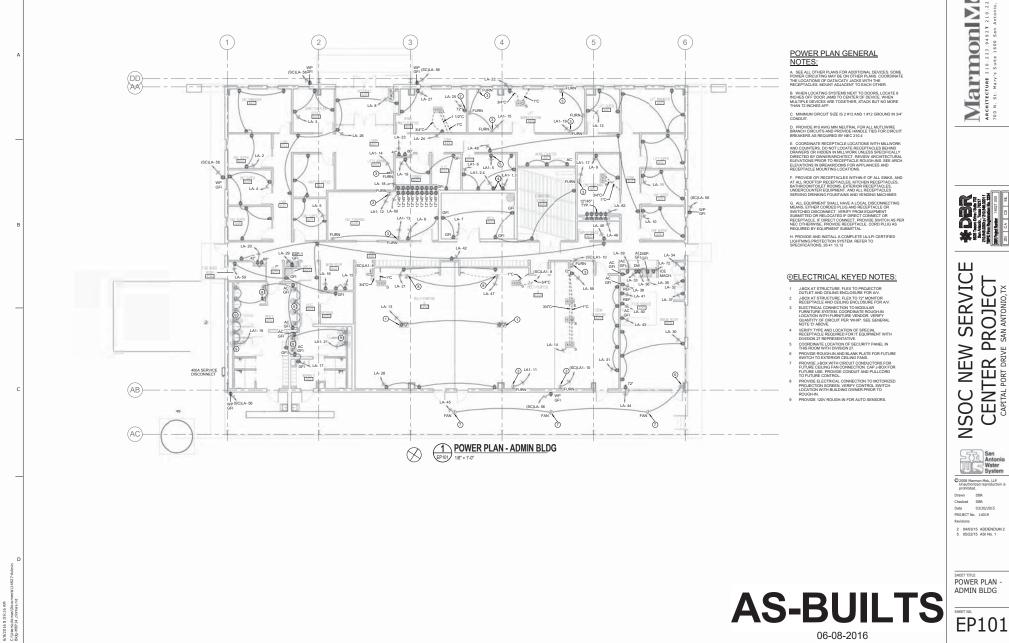
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Drawn DBR Checked DBR Date 03/20/2015 PROJECT No. 14019

Revisions 2 04/03/15 ADDENDUM 2

SHEET TITLE LIGHTING PLAN -SUPPLY BLDG

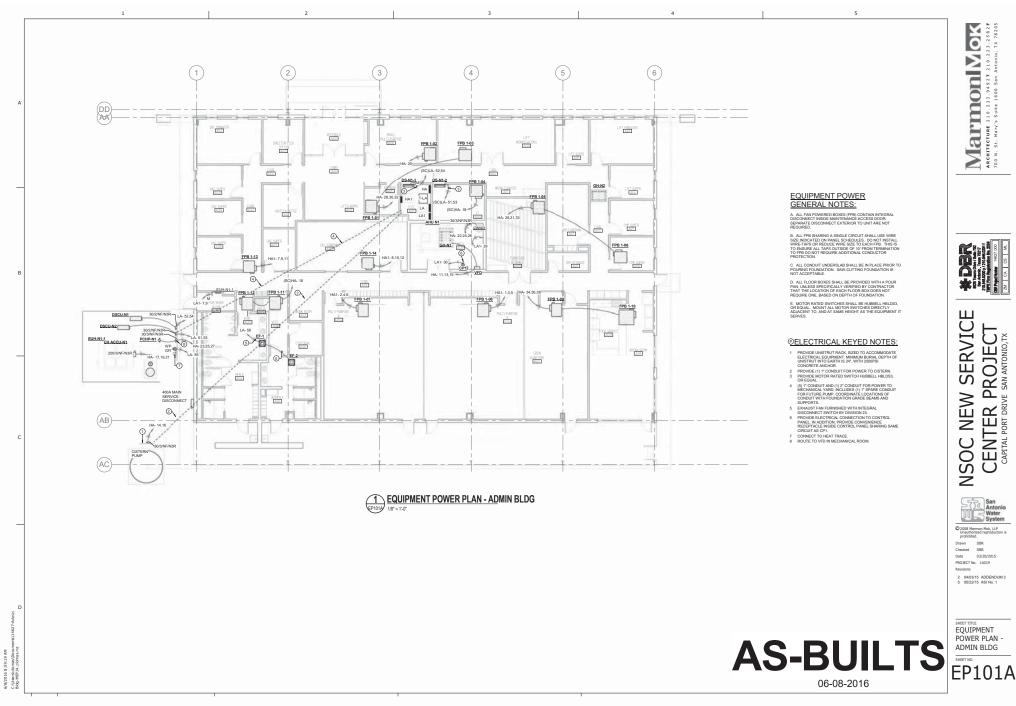




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06-08-2016



POWER PLAN GENERAL NOTES:

A SEE ALL OTHER PLANS FOR ADDITIONAL DEVICES. SOME POWER CIRCUITING MAY BE ON OTHER PLANS. COORDINATE THE LOCATIONS OF DATACATV JACKS WITH THE RECEPTACLES. MOUNT ADJACENT TO EACH OTHER.

B. WHEN LOCATING SYSTEMS NEXT TO DOORS, LOCATE 8 INCHES OFF DOOR JAMB TO CENTER OF DEVICE. WHEN MULTIPLE DEVICES ARE TOGETHER, STACK BUT NO MORE THAN 72 INCHES AFF.

C. MINIMUM CIRCUIT SIZE IS 2 #12 AND 1 #12 GROUND IN 3/4" CONDUIT.

D. PROVIDE #10 AWG MIN NEUTRAL FOR ALL MUTLIWIRE BRANCH CIRCUITS AND PROVIDE HANDLE TIES FOR CIRCUIT BREAKERS AS REQUIRED BY NEC 210.4

E. COORDINATE RECEPTACLE LOCATIONS WITH MILLWORK AND COUNTERS. DO NOT LOCATE RECEPTACLES BEHIND DRIWERS OR NOTOEN IN MILLWORK UNLESS SPECIFICALLY DIRECTED BY OWNERARCHITECT. REVEW ARCHITECTURAL LEVANTIONS PRINCE TO RECEPTACLE ROUGHINS. SEE ARCHITECTURAL RECEPTACLE ROUGHINS. SEE ARCHITECTURAL ROUGHING LOCATIONS.

F. PROVIDE GFI RECEPTACLES WITHIN 6' OF ALL SINKS, AND AT ALL ROOFTOP RECEPTACLES, KITCHEN RECEPTACLES, BATHROOMTOILET ROOMS, EXTERIOR RECEPTACLES, UNDERCOUNTER EQUIPMENT, AND ALL RECEPTACLES SERVING DRINKING FOUNTAINS AND VENDING MACHINES

G. ALL EQUIPMENT SHALL HAVE A LOCAL DISCONNECTING MEANS, ETHER CORDED PLUG AND RECEPTACLE OR SWITCHED DISCONNECT, VERITY FROM EQUIPMENT SUBMITTED OR RELOCATED IF DIRECT CONNECT OR RECEPTACLE. IF DIRECT CONNECT, PROVIDE SWITCH AS PER NEC OTHERWISE, PROVIDE RECEPTACLE, CORD PLUG

AS REQUIRED BY EQUIPMENT SUBMITTA H. PROVIDE AND INSTALL A COMPLETE UL/LPI CERTIFIED LIGHTNING PROTECTION SYSTEM. REFER TO SPECIFICATIONS, 26 41 13.13

I. OWNER & OWNER PM TO FIELD VERIFY ALL ELECTRICAL IN FLEET SERVICE BAY PRIOR TO PULLING WIRE.

J. ALL OUTLETS IN FLEET SERVICE BAY TO BE 42* A.F.F.

K. PROVIDE FLEXIBLE CONNECTION TO ALL EQUIPMENT USING LFMC IN SERICE BAY, OR APPROVED EQUAL.

ELECTRICAL KEYED NOTES:

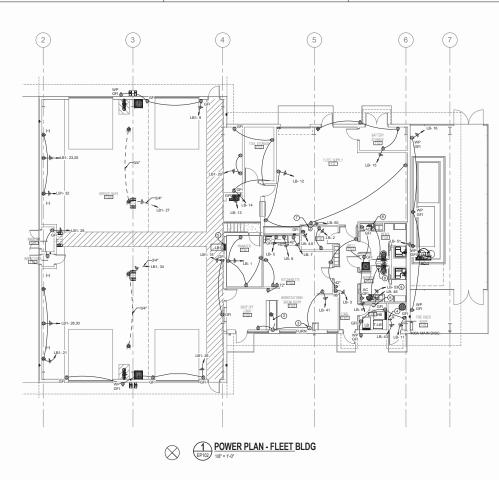
PROVIDE RED MUSHROOM TYPE PUSHBUTTON SWITCH TO OPERATE EXHAUST FAN EF-S SERVING WELDING STATION VENTILATION. MOUNT AT 42°. BOTH PUSHBUTTONS SERVIN WELDER VENTILATION SHALL BE WIRED IN PARALLE. SUCH ENABLING ETHERP USHBUTTON WILL ENGGE EXHAUST FA

COORDINATE RECEPTACLE LOCATION WITH MILLWORK. USE OF MC CABLE PERMITTED FROM JONCTION BOX AT WALL TO QUAD IN 3 ELECTRICAL CONNECTION TO MODULAR FURNITURE SYSTEM. COORDINATE ROUGH-IN LOCATION WITH FURNITURE VENDOR.

RECEPTACLE FOR CONNECTION TO DRYPIPE AIR COMPRESSOR. PROVIDE (4) SPARE 1° CONDUIT FROM PANEL TO ACCESSIBLE SPACE ABOVE PANEL, IN ADDITION TO THE SPARE CONDUITS REQUIRED BY THE SPECIFICATIONS.

PROVIDE 9 T THE SPECIFICATIONS.
 O PROVIDE JADX ROUGHIN AND CIRCUIT FOR FUTURE CONNECTION
 TO FIRE ALARM POWER SUPPLY EXPANDER.
 PROVIDE CONNECTION TO SECURITY PANEL COORDINATE
 LOCATION WITH DIV. 28 INSTALLER.

8 PROVIDE 120V ROUGH-IN FOR AUTO SENSORS.





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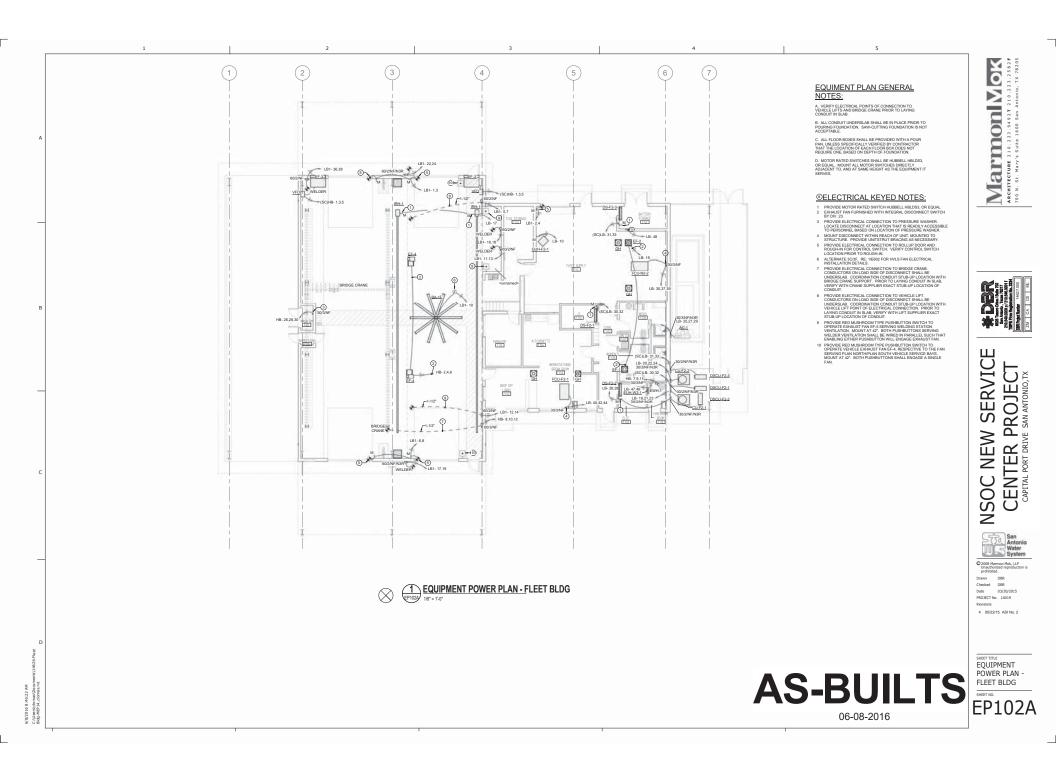
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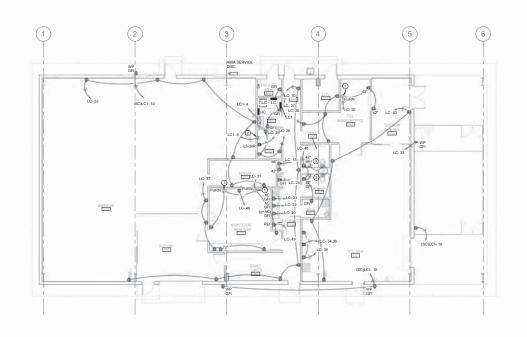
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CENTER PROJECT CAPITAL PORT DRIVE SAN ANTONIO,TX

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POWER PLAN - SUPPLY BLDG \otimes

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A. SEE ALL OTHER PLANS FOR ADDITIONAL DEVICES. SOME POWER CIRCUITING MAY BE ON OTHER PLANS. COORDINATE THE LOCATIONS OF DATACCATV JACKS WITH THE RECEPTACLES. MOUNT ADJACENT TO EACH OTHER.

B. WHEN LOCATING SYSTEMS NEXT TO DOORS, LOCATE 8 INCHES OFF DOOR JAMB TO CENTER OF DEVICE. WHEN MULTIPLE DEVICES ARE TOGETHER, STACK BUT NO MORE THAN 72 INCHES AFF.

C. MINIMUM CIRCUIT SIZE IS 2 #12 AND 1 #12 GROUND IN 3/4" CONDUIT.

D. PROVIDE #10 AWG MIN NEUTRAL FOR ALL MUTLIWIRE BRANCH CIRCUITS AND PROVIDE HANDLE TIES FOR CIRCUIT BREAKERS AS REQUIRED BY NEC 210.4

E. COORDINATE RECEPTACLE LOCATIONS WITH MILLWORK AND COUNTERS. DO NOT LOCATE RECEPTACLES BEHIND DRAWERS OR HIDDEN IN MILLWORK UNLESS SPECIFICALLY DIRECTED BY OWNER/ARCHITECT. REVIEW ARCHITECTURAL LEVATIONS PRIOR TO RECEPTACLE ROUGH-INS. SEE ARCH. ELEVATIONS IN BREAKROOMS RECEPTACLE MOUNTING LOCATIONS. FOR APPI NCES AND

P. PROVIDE GFI RECEPTACLES WITHIN 6' OF ALL SINKS, AND AT ALL ROOFTOP RECEPTACLES, KITCHEN RECEPTACLES, BATHROOMTOILET ROOMS, EXTERIOR RECEPTACLES, UNDERCOUNTER EQUIPMENT, AND ALL RECEPTACLES SERVING DRINKING FOUNTAINS AND VENDING MACHINES

G. ALL EQUIPMENT SHALL HAVE A LOCAL DISCONNEC MEANS, EITHER CORDED PLUG AND RECEPTACLE OR SWITCHED DISCONNECT. VERIFY FROM EQUIPMENT SUBMITTED OR RELOCATED IF DIRECT CONNECT, PROVIDE SWITCH PER NEC OTHERWISE, PROVIDE RECEPTACLE, CORD J AS REQUIRED BY EQUIPMENT SU

H. PROVIDE AND INSTALL & COMPLETE UL/LPI CERTIFIED LIGHTNING PROTECTION SYSTEM. REFER TO SPECIFICATIONS, 26 41 13.13

I. OWNER & OWNER PM TO FIELD VERIFY ALL ELECTRICA IN FLEET SERVICE BAY PRIOR TO PULLING WIRE.

J. ALL OUTLETS IN FLEET SERVICE BAY TO BE 42* A.F.F. K. PROVIDE FLEXIBLE CONNECTION TO ALL EQUIPMENT USING LFMC IN SERICE BAY, OR APPROVED EQUAL.

ELECTRICAL KEYED NOTES:

- ELECTRICAL CONNECTION TO MODULAR FURNITURE SYSTEM. COORDINATE ROUGH-IN LOCATION WITH FURNITURE VENDOR.
- 2
- FURNITURE VENDOR. PROVIDE 120V CONNECTION TO SECURITY PANEL. COORDINATE EXACT LOCATION WITH DIV. 27 INSTALLER. PROVIDE 120V ROUGH-IN FOR AUTO SENSORS. 3

CENTER PROJECT CAPITAL PORT DRIVE SAN ANTONIO,TX NEW NSOC

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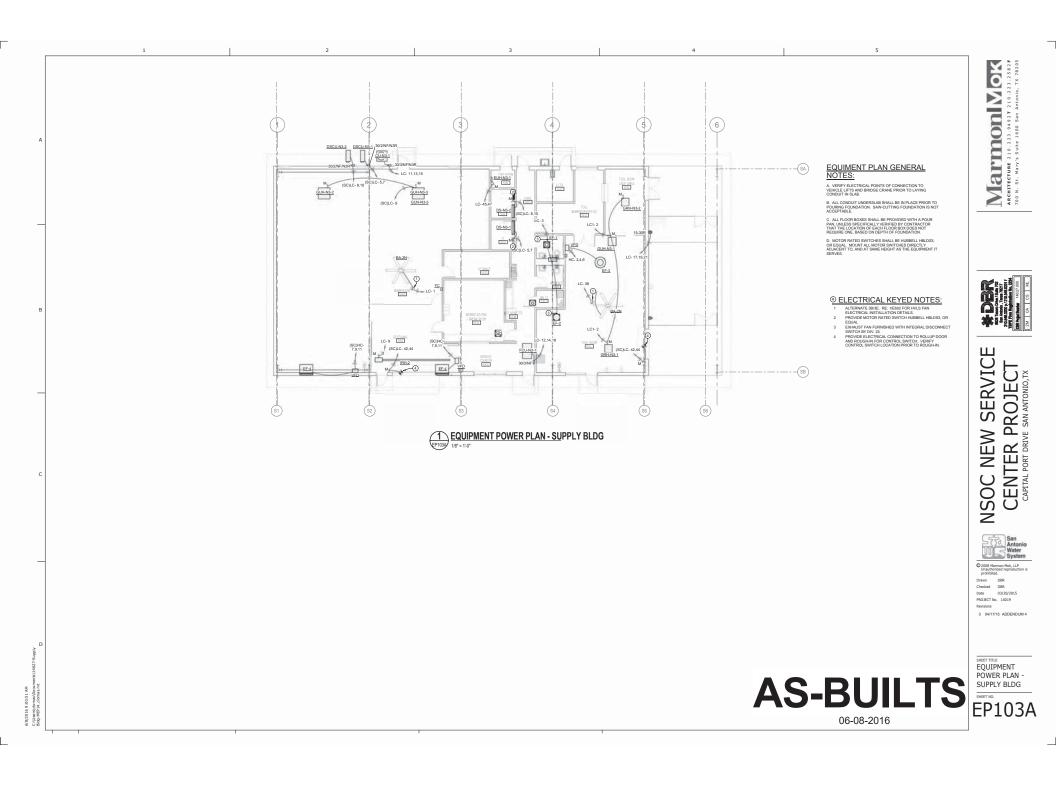


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3 04/17/15 ADDENDUM 4



AS-BUILTS SHEET NO. EP103 06-08-2016



VOICE	& DATA SYMBOLS		SECURITY SYMBOLS	AUDIO/VI	SUAL & VIDEO BROADBAND SYMBOL	S	CABLE PLANT & RISER SYMBOLS	1 Г	A.F.F. ABOVE FINISHED FLOOR	ō
VOICE OUTLET, CA	CABLE THPE AS SPECIFIED, MOUNTED +18" A.F.F. UNLESS NOTED	₽	VDED OUTLET, CABLE TYPE AND TERMINATION AS SPECIFIED	•	voed system headend, equipment as specified		CONDUIT FOR GROUND WHE		AER AERIAL 8 BURIED CAT.3/5 CATEGORY 3/5	\geq
VOICE OUTLET, OA	CABLE TYPE AS SPECIFIED, MOUNTED +18" A.F.F. UNLESS NOTED AUMER OF CABLE TERMINUTORS PER LOCATION AS INDICATED	⊕	vded outlet, cable type and termination as specified, flush floor mounted	100	POWER SUPPLY AS SPECIFIED		conduit, size and type as indicated		CATV COMMUNITY ANTENNA TELEVISION CCTV CLOSED CIRCUIT TELEVISION CLT CLOSET C0 CENTRAL OFFICE	u
W VOICE OUTLET, CA	CABLE TYPE AS SPECIFIED, NOUNTED +52" A.F.F. UNLESS NOTED	⊕	VDED OUTLET, KEYNDRE (1) APPLIES	⊳	Ampuner as specified		FIBER OPTIC TERMINATION PANEL, SIZE & TYPE AS SPECIFIED		DEMARC DEMARCATION POINT EMT ELECTRIC METALLIC TUBE	2
VOICE OUTLET, CA	CABLE THPE AS SPECIFIED, MOUNTED +6" ABOVE COUNTER OR SPLASH OTHERWISE	8	VDED BROADCAST OUTLET, CABLE TYPE AND TERMINATION AS SPECIFIED.	DC-8	DIRECTIONAL COUPLER, 48 LOSS LEVEL AS INDICATED	-0	- FIBER OPTIC CABLE, STRAND COUNT & TYPE (SM/AM) AS INDICATED		F.O.C. FIBER OPTIC CABLE GIP GALVANIZED IRON PIPE HH HANDHOLE	n.
	ne outlet, cable type as specified, wounted height as specified	24	MULTIMEDIA OUTLET, MOUNTED +18" AF.F. UNLESS NOTED OTHERWISE, CABLE TYPES AND TERMINITIONS AS SPECIFIED	α	2-WAY VIDED SPLITTER		- UNSHELDED TWISTED PAR (UTP) COPPER CABLE, SIZE & TYPE AS INDICATED		IRC INTERMEDIATE RIGID CONDUIT ISP INSIDE CABLE PLANT IDF INTERMEDIATE DISTRIBUTION FRAME MDF MANN DISTRIBUTION FRAME	JI
VOICE OUTLET, NO UNLESS NOTED OT	NO INSTRUMENT, CABLE TYPE AS SPECIFIED, MOUNTED +18" A.F.F. OTHERWISE	5	MULTIMEDIA ROUCH-IN LOCATION, MOUNTED +18" A.F.F. UNLESS NOTED OTHERWISE. CABLE TIPES AND TERMINATIONS AS SPECIFIED	œ	3-WAY VIDED SPLITTER WITH LOW-LEG INDICATED		Shelded Twisted PAR (STP) COPPER CABLE, SIZE & TYPE AS INDICATED		MDF MAIN DISTRIBUTION FRAME MH MANHOLE MM MULTIMODE OSP OLITISDE CARLE PLANT	Marmon
VOICE OUTLET, KE	KEYNOTE (1) APPLIES	8	MULTIMEDIA CUTLET, CABLE TYPES AND TERMINITIONS AS SPECIFIED, FLUSH FLOOR MOUNTED	۲	2-PORT WDED TAP, 48 LOSS LEVEL AS INDICATED		- CONVIAL COPPER CABLE, SIZE & TYPE AS INDICATED		PB PULLBOX PR PAR PBX PRVATE BRANCH EXCHANGE	OWNER
	Ications pole with X-Number of voice terminations per location	s	PROGRAM SPEAKER, WALL MOUNTED, MOUNTING HEIGHT AS SPECIFIED	8	4-PORT WDED TAP, 48 LOSS LEVEL AS INDICATED	Ø	HANDHOLE OR MANHOLE, SIZE & TIPE AS INDICATED		PDA PRIVALE BROWCH EXCITINGE PVC POLYNNYL CHLORIDE SM SINGLE MODE SP SERVICE PRIVIDER	g STEVEN R.
VOICE OUTLET, CA	CABLE TYPE AS SPECIFIED, FLUSH FLCOR WOUNTED	Ø	Control Panel, wounted +48" AF.F. Unless noted otherwise	(1)	8-PORT WDED TAP, 48 LOSS LEVEL AS INDICATED		PULLBOX, SIZE AND TYPE AS INDICATED		STP SHELDE TWISTED PAIR TB TERMINAL BLOCK UTP UNSHELDED TWISTED PAIR	REL NO. 1
VOICE OUTLET, ON	cable type as specified, subface mounted monument	\$	distributed spewer, celling mounted	XX.X XX.X LOW-FRED.	HIGH/LOW FREQUENCY EOL 48 LEVELS	11-	CONDUIT HOME RUN, QUANTITY, SIZE & TIPE AS INDUCTED		TR TELECOMMUNICATIONS REGION	8000 - 1000 0 5/24/2
DATA OUTLET, CAB OTHERWISE	ABLE TIPE AS SPECIFIED, MOUNTED +18" A.F.F. UNLESS NOTED	M	MCROPHINE TYPE AS SPECIFIED	₹	VIDED CARLE TERMINATION		O CONDUCT FROM TURNED UP, QUANTITY, SIZE & TYPE AS INDICATED			Auros y According
DATA OUTLET, CAB OTHERWISE, X-NU	ABLE TYPE AS SPECIFIED, MOUNTED +18" A.F.F. UNLESS NOTED AUMER OF CABLE TERMINITIONS PER LOCATION	۲	MCROPHONE QUILET		NDED CABLE SPLICE		CONDUIT FUN TURNED DOWN, QUINTITY, SIZE & TIPE AS INDICATED		NOTES	ST ST
	ABLE TYPE AS SPECIFIED, MOUNTED +6" ABOVE COUNTER OR SPLASH OTHERWISE	1	Celung Mounted Antenna	+	VDED IN-LINE EQUIUZER	888	CONDUIT BANK, CUMATTY, SIZE & TYPE AS INDICATED		1. CONTRACTOR SHALL REVEN DRAWINGS AND SPECIFICATIONS THAT WARE UP THE CONTRACT DOCUMENTS AND COMPLETE ALL WORK INCLUDED THEREIN.	
DATA OUTLET, KEY	ewote (1) applies	□	CAMERA		FIBER OPTIC RECEIVER	888	CONDUIT BWAK, CONCRETE ENCASED, QUANTITY, SIZE & TYPE AS INDICATED		 Scale of Technology (rawings is provided for reference only, contractor shall be responsible for proper cable lengths, size of pathways, dimensions, ETC. 	
	Ications pole with X-number of data terminations per location	□¢	Camera Pan/Tilt/200m Camera	ÞØ	FIBER OPTIC TRANSMITTER		CARLE CHASE SLOT, SIZE AS INDICATED		 TECHNOLOGY DRAWINGS SHALL BE USED TO COMPLEMENT THE WRITTEN SPEDIFICATIONS. ANY DISCREMENCY OF CONFLICT WITHIN OR BETWEEN THE DRAWINGS AND 	Щ
DATA OUTLET, CAB	ABLE TYPE AS SPECIFIED, FLUSH FLOOR MOUNTED	œ	CARD READER		.500 COMMUL CHIELE AS SPECIFIED		CARLE SLACK, LEWITH AS INDICATED		4. And DOSTMENT OF CONTLY MINING IN THEM TO EXTENSI THE CHARACT AND STEPTOTOXICS SHILL BE ROOK OF TO THE ATTRICTS OF THE ADDITIV/TOWARD. DOSTMENTS OF CONTLY OF BOOMD TO THE DOSTMENT OF THE CONTLY OF THE CONTLY OF CONTLY OF ADDITION DOSTMENT OF THE ADDITION OF THE CONTLY OF ADDITION TO EXTENSI OF CONTLY AND ADDITION OF ADDITION OF ADDITION THE ADDITION OF ATTRICTS AND ADDITION OF ADDITION OF ADDITION THE ADDITION OF ATTRICTS AND ADDITION OF ADDITION OF ADDITION THE ADDITION OF ATTRICTS AND ADDITION OF ADDITION OF ADDITION THE ADDITION OF ADDITIONOON OF ADDITIONO	ERVICE
	ABLE TYPE AS SPECIFIED, SURFACE MOUNTED MONUMENT	А	DURESS BUTTON		.750 COMMUL CHELE AS SPECIFIED				quintify of work small be provided by the contractor in accordance with the architect's/engineer's interpretation.	≥ i
	utlet, cable type as specified with X-Number of Cable er Location	•	Push Button		RGE CONUNL CHELE AS SPECIFIED					III i
•	NUTLET WITH 1 VOICE RUN AND 1 DATA RUN, CABLE TYPE AS ATED +18" A.F.F. UNLESS MOTED OTHERWISE		ELECTROMAGNETIC DOOR LOCK	ę	WALL MOUNTED WALL CLOCK, MOUNTING HEIGHT AS SPECIFIED					
	OUTLET WITH X-HUNGER OF VOICE TERMINITIONS OF DATA TERMINITIONS, CABLE TYPE AS SPECIFIED, MOUNTED +18" WHED OTHERWISE	0	DOOR POSITION SWITCH	φ₀	DOUBLE SIDED WALL MOUNTED WALL CLOCK, MOUNTING HEIGHT AS SPECIFIED					
VOICE AND DATA I SPLASH UNLESS I	OUTLET, CHALE TYPE AS SPECIFIED, MOUNTED +6" ABOVE COUNTER OR NOTED OTHERWISE	68	glass brow sensor	_>®	CEILING MOUNTED PROJECTOR, MOUNTING HEIGHT AND TYPE AS SPECIFIED					NEW
v	NTED AS AN ANALOG LINE	ES	ELECTING STRIKE	€E	SHORT THROW PROJECTOR, MOUNTING HEIGHT AND TYPE AS SPECIFIED					
•	ICATIONS POLE WITH X-NUMBER OF VOICE TERMINATIONS AND DATA TERMINATIONS PER LOCATION	E.	Interace to dat device electric unich retraction and power transfer provided by dat 8.	P	CONTROL PANEL, AS SPECIFIED	11—		1 -		SOC
	I OUTLET WITH X-NUMBER OF VOICE TERMINITIONS AND Y-NUMBER OF NS, ONBLE TYPE AS SPECIFIED, FLUSH FLOOR MOUNTED	R	REQUEST-TO-EXIT MOTION SENSOR	2	ROUGH-IN LOCATION, INFRASTRUCTURE AS SPECIFIED	11—			INDEX OF DRAWINGS	NS(
	L OUTLET, CHALE TYPE AS SPECIFIED, SURFACE MOUNTED MONUMENT	W	Interface to sump prupp to monitor high water alarm terminals within Interface caginet provided by sump prupp contractor.		LARGE FORMAT FLOOR BOX - OUTLET TYPES AND QUINTITIES AS SPECIFIED	┨┣──			TCOD TECHNOLOGY SYMBOLS, LEGEND, AND ABBREVIATIONS TCOT TECHNOLOGY SITE PLAN	
	TLET, CARLE TYPE AS SPECIFIED, MOUNTED +18" A.F.F. UNLESS MOTED	•		<u> </u>					1101 TECHNOLOGY FIRST FLOOR PLAN - ADMIN BUILDING 1102 TECHNOLOGY FIRST FLOOR PLAN - FLEET BUILDING 1103 TECHNOLOGY FIRST FLOOR PLAN - SUPPLY BUILDING	
•	TLET WITH X-MUNHEER OF FIRER OFTIC STRANDS, CABLE TYPE AS WIED +18" A.F.F. UNLESS WOTED OTHERWISE IN ET CABLE TYPE AS SERVICED MOUNTED AR AGOVE COUNTRE OF	R	PROME WALL MOUNTED INTRUSION KEYFAD. 2" X 4" X 2-1/8" JUNCTION BOX, RUSH, VERTICALLY MOUNTED AT 54" A.F.F. TO BOTTOM OF BOX.	 					1200 TECHNOLOGY IDF ROOM LAYOUTS AND RACK ELEVATIONS 1200 TECHNOLOGY TYPICAL DETAILS	© 2008 Marmon I Unauthorized n prohibited.
	ILET, OAKE TYPE AS SPECIFIED, MOUNTED +6" ABOVE COUNTER OR NOTED OTHERINGE	Ø	PROME INLL MOUNTED INTRUSION WOTICH DETECTOR 2" X 4" X 2-1/8" JUNCTION BOX, RUSH, VERTICALLY MOUNTED AT 64" A.F.F. TO BOTTOM OF BOX INTERACE. TO ELEVATOR CONTRACTOR.	<u> </u>		┨┣──			1301 AUDIO/VISUAL TYPICAL DETAILS 1302 AUDIO/VISUAL SIGNAL FLOW DIAGRAMS AND EQUIPMENT SCHEDULES	Drawn Checked Date 03
	Rations pole with X-number of Fiber optic Strands per	6	PROVED BY ELEVIER CONTRACTOR	<u> </u>		┨┣──				PROJECT No. 140 Revisions
*	TLT, WHLE TYPE AS SPECIFIED, FUSH FLOOR WOUNTED	19 E	PROMOE COOLER/IREZER TEMPERATURE MONITORING SONOR.			┨┠──				RECORD DRAWIN
	TLET, OARLE TYPE AS SPECIFIED, FUSHI FUSHI MUNITED	L.	ALDRY HOLM. HERECARLORE USERUN ALARM WORKARDE, 2" X =" X 2-1/6" JUNCTION BOX, FLUSH, VERTIONLY MOUNTED AT 56" AFF. TO BOTTOM OF BOX	 		1┣─				
	TLET, CARLE TYPE AS SPECIFIED, SURFACE MOUNTED MONUMENT	P	56" AFF. TO BOTTOM OF BOX INTERFACE TO EXIT DEVICE WITH ELECTRIC LATCH REIRACTION WITH BUILT-IN REDUCES-TO-EXIT SMITCH AND FORMER TRANSFER PROVIDED BY DOOR HARDINARE CONTRACTOR ("MORE SAPETY AND EXECUTIVENE REVOIDED BY DOOR HARDINARE	<u> </u>		┨┠──				SHEET TITLE
· · ·			Contractor (power supply and exit device wrand provided by door hardware contractor).	<u> </u>		┨┠──				TECHNOL LEGEND / ABBREVI
R ROUGH-IN LOCATI		\$	Inviex sensor Spare cable for future motion detectors with 10-foot service loop	<u> </u>		┨┣──				SHEET NO.
		\cup	NULL TO THE AND A REAL PROPERTY AND A REAL PRO	L				1 11		T00

