

IFB 17-068B Electrical Gear and Equipment Addition **ADDENDUM No. 1** October 13, 2017

A. Clarifications

- 1. Please reference the revised drawings attached as part of this Addendum.
- 2. Please reference the revised Cost Form attached as part of this Addendum.

B. Questions and Answers

1. **Question:** Should PSTA delete the 4 cord reels as they are not needed?

Response: The cord reels have been deleted from the drawings.

2. Question: Should PSTA change quantity of Receptacles for Portable Column Lifts from 10 to 11?

Response: The quantity of receptacles has been increased to 11.

3. Question: Can PSTA add Alternate #5 "50A. Welding Outlet" to the cost form?

Response: See attached revised Cost Form.

4. Question: Can apprentices, trainees, and/or helpers work on a project covered by the Davis-Bacon or related Acts (DBRA), and what wage rates must they be paid?

Response: See below verbiage from United States Department of Labor Website: https://www.dol.gov/whd/programs/dbra/faqs/trainees.htm

Individuals who meet the following definition may be employed as Apprentices on DBRA projects:

(a) A person employed and individually registered in a bona fide apprenticeship program registered with the U.S. Department of Labor, Employment and Training Administration, Bureau of Apprenticeship and Training, or with a State Apprenticeship Agency recognized by the Bureau,

or

(b) A person in the first 90 days of probationary employment as an apprentice in such an apprenticeship program, who is not individually registered in the program, but who has been properly certified to be eligible for probationary employment as an apprentice.

Trainees employed must be persons registered in a construction occupation under a program which has been approved in advance by the U.S. Department of Labor, Employment and Training Administration, as meeting its standards for on-the-job training programs and which have been so certified by that Administration.





Information on wage rates paid to apprentices and trainees is not reflected in Davis-Bacon wage determinations. Similarly, their addition through the additional classification procedure (conformance) is neither necessary nor appropriate. On projects funded by the Federal-Aid Highway Act, apprentices and trainees certified by the Secretary of Transportation are not covered by Davis-Bacon labor standards.

The proper wage rates to be paid to apprentices and trainees are those specified by the particular programs in which they are enrolled, expressed as a percentage of the journeyman rate on the wage determination. In the event employees reported as apprentices or trainees on a covered project have not been properly registered within the meaning of the Regulations and the contract stipulations, or are utilized at the job site in excess of the ratio to journeymen permitted under the approved program, they must be paid the applicable wage rates for laborers and mechanics employed on the project performing in the classification of work they actually performed. This applies regardless of work classifications which may be listed on the submitted payrolls and regardless of their level of skill.

Helper classifications may be issued in or added to a wage determination only where the (a) the duties of the helpers are clearly defined and distinct from those of the journeyman classification and from the laborer, (b) the use of such helpers is an established prevailing practice in the area, and (c) the term "helper" is not synonymous with "trainee" in an informal training program.

All other Bid terms and conditions originally issued remain unchanged.

REMINDER: Make sure you mark "Addendum No. 1" on Attachment "1" Acknowledgement of Addendum and remember to sign and return Acknowledgement Addendum form with your submittal package. Failure to do so may result in the disqualification of your Bid submittal.

The IFB is revised to the extent specifically amended by this Addendum #1. Otherwise, all provisions of the IFB remain in effect.

Eric L. Haubner Purchasing Agent II **Pinellas Suncoast Transit Authority** ehaubner@psta.net





REVISED 10/13/17

ATTACHMENT 3 BID FORM

(Required with Bid Submittal)

The undersigned hereby agrees to furnish the items as listed below in accordance with the specifications contained herein. All charges must be included on the Bid Form and must include all associated costs for the services being proposed.

Bidder shall provide all material, labor, equipment, programming, testing and commissioning required for an extension of the existing maintenance building electrical power distribution system as described in these documents and the attached drawings.

	Description	Quantity	Unit Cost	Extended Cost
1	Receptacles for Portable Column Lifts	<mark>11</mark>		
		T	OTAL BASE BID	
2	Roller Brake Dyno Machine (Add Alternate #1)	1		
3	Parallelogram Lift Machine (Add Alternate #2)	1		
4	Wheel Alignment Machine (Add Alternate #3)	1		
5	30 AMP Three Phase 208V Receptacle (Add	1		
	Alternate #4)			
<mark>6</mark>	50 AMP Welding Outlet (Add Alternate #5)	<mark>1</mark>		

By signature on this document, Bidder acknowledges and agrees that its offer includes and accepts all terms, conditions, and specifications of PSTA's Bid solicitation as originally published, without exception, change or alteration of any kind, except as may have been published by PSTA in official amendments prior to this date of submittal.

Bidder's Name:	Date:	
Authorized Representative's Signature:		
Authorized Representative: Name/Title:		



PINELLAS SUNCOAST TRANSIT AUTHORITY

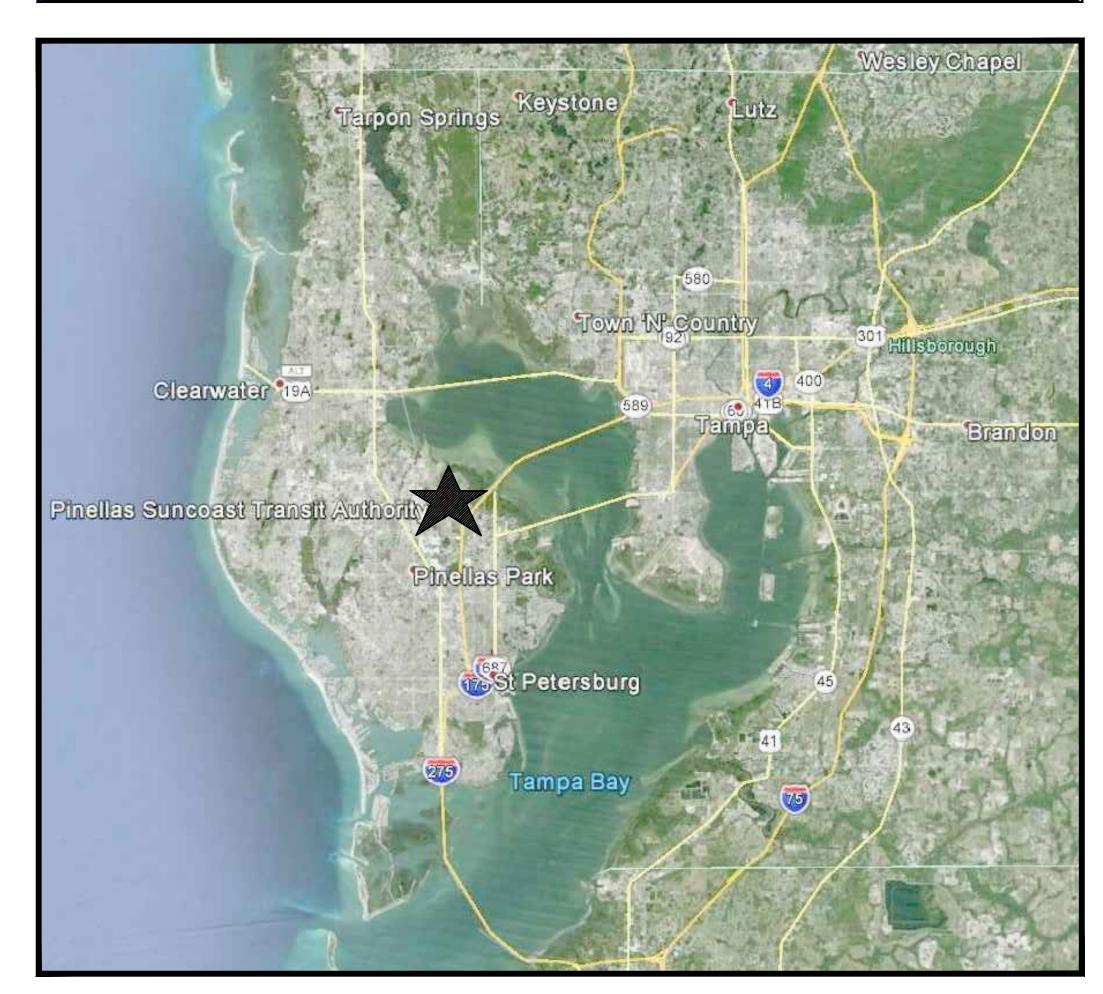
ELECTRICAL GEAR AND EQUIPMENT ADDITION

3201 SCHERER DRIVE

ST. PETERSBURG, FLORIDA 33716

04/18/2017

			DRAWING LIST					
			PINELLAS SUNCOAST TRANSIT AUTHORITY					
		3201 SCHERER DRIVE, ST. PETERSBURG, FL 33716						
		BRIDGE CRANE AND GEAR ADDITION						
		HE# 16- 409						
NC	DRAWING	DWG #	DRAWING TITLE					
			MECHANICAL					
1	16409-E-0.1	E-0.1	ELECTRICAL SITE PLAN					
2	16409-E-1.1	E-1.1	ELECTRICAL MAINT. BUILDING FIRST FLOOR - SECTION A					
3	16409-E-1.2	E-1.2	ELECTRICAL MAINT. BUILDING FIRST FLOOR - SECTION B					
4	16409-E-1.3	E-1.3	ELECTRICAL MAINT. BUILDING FIRST FLOOR - SECTION C					
5	16409-E-1.4	E-1.4	ELECTRICAL FUEL AND REVENUE BUILDINGS					
6	16409-E-2.1	E-2.1	ELECTRICAL RISER DIAGRAM					
7	16409-E-2.2	E-2.2	ELECTRICAL PANEL SCHEDULES					



SCOPE OF WORK

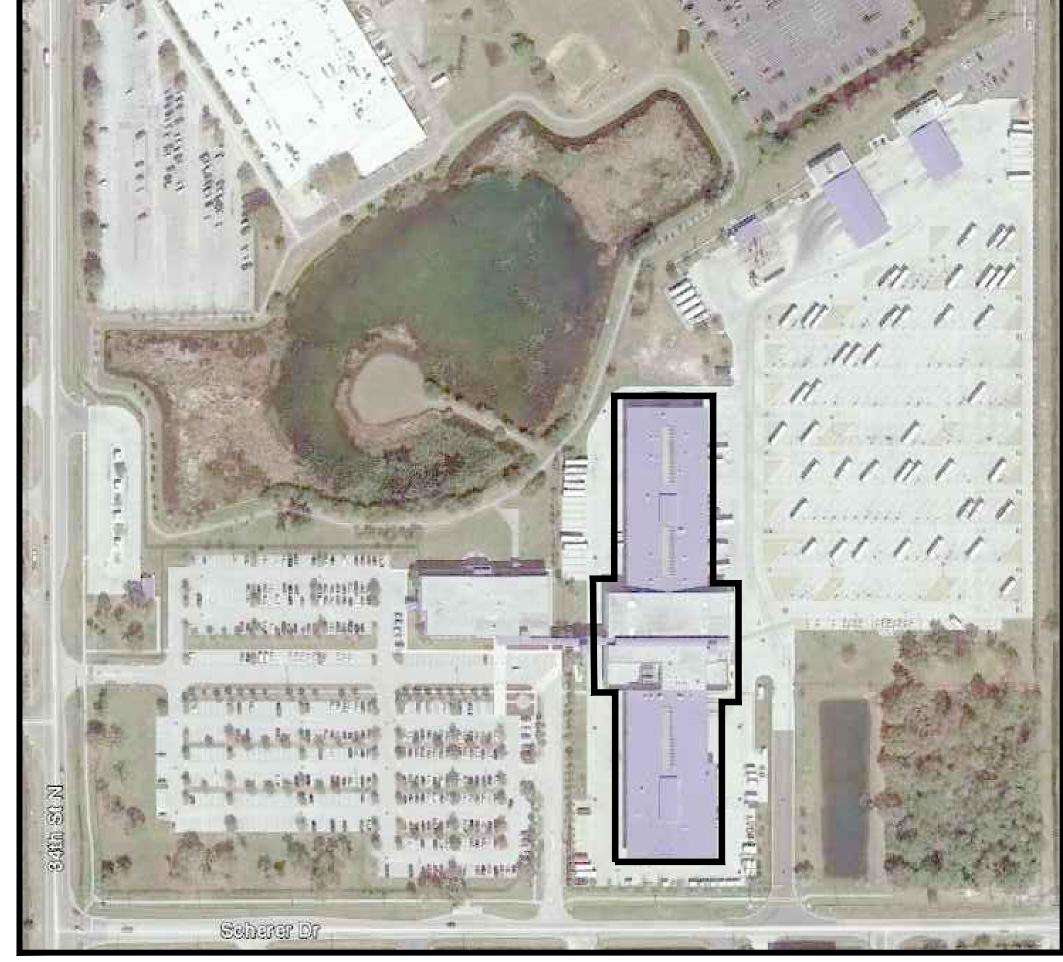
INSTALLED BY OTHERS:

(10) RECEPTACLES FOR PORTABLE COLUMN LIFTS

- ROLLER BRAKE DYNO MACHINE (ADD ALTERNATE #1)
- (1) PARALLELOGRAM LIFT MACHINE (ADD ALTERNATE #2)
- (1) WHEEL ALIGNMENT MACHINE (ADD ALTERNATE #3)
- 30 AMP THREE PHASE 208V RECEPTACLE (ADD ALTERNATE #4)
- ALL EQUIPMENT WILL BE POWERED FROM AN EXTENSION OF THE EXISTING ELECTRICAL SERVICE IN THE MAINTENANCE BUILDING.
- WORKMANSHIP FOR ALL ELECTRICAL SYSTEMS SHALL BE NEAT AND PROFESSIONAL AND SHALL COMPLY WITH CURRENT NECA/NEIS INSTALLATION STANDARDS.
- AMPLE SPACE ON SITE IS AVAILABLE FOR MATERIAL STAGING AND LAY DOWN AREAS. THE STAGING/LAY DOWN AREAS SHALL BE COORDINATED WITH THE OWNER AND PROPERLY SEPARATED AND SECURED WITH FENCING. THE OWNER WILL NOT PROVIDE SECURE STORAGE FOR ANY MATERIAL OR EQUIPMENT.

FAMILIARITY OF WORK

MEANS FOR COMPENSATION ADJUSTMENTS.







HAHN ENGINEERING, INC.

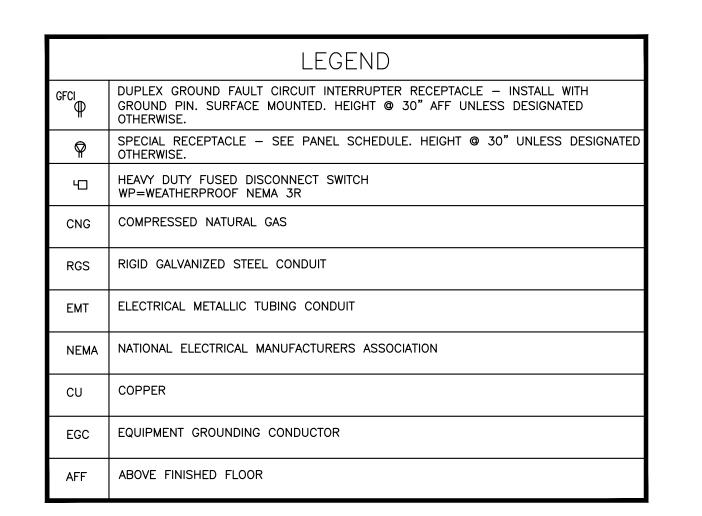
MECHANICAL & ELECTRICAL CONSULTING

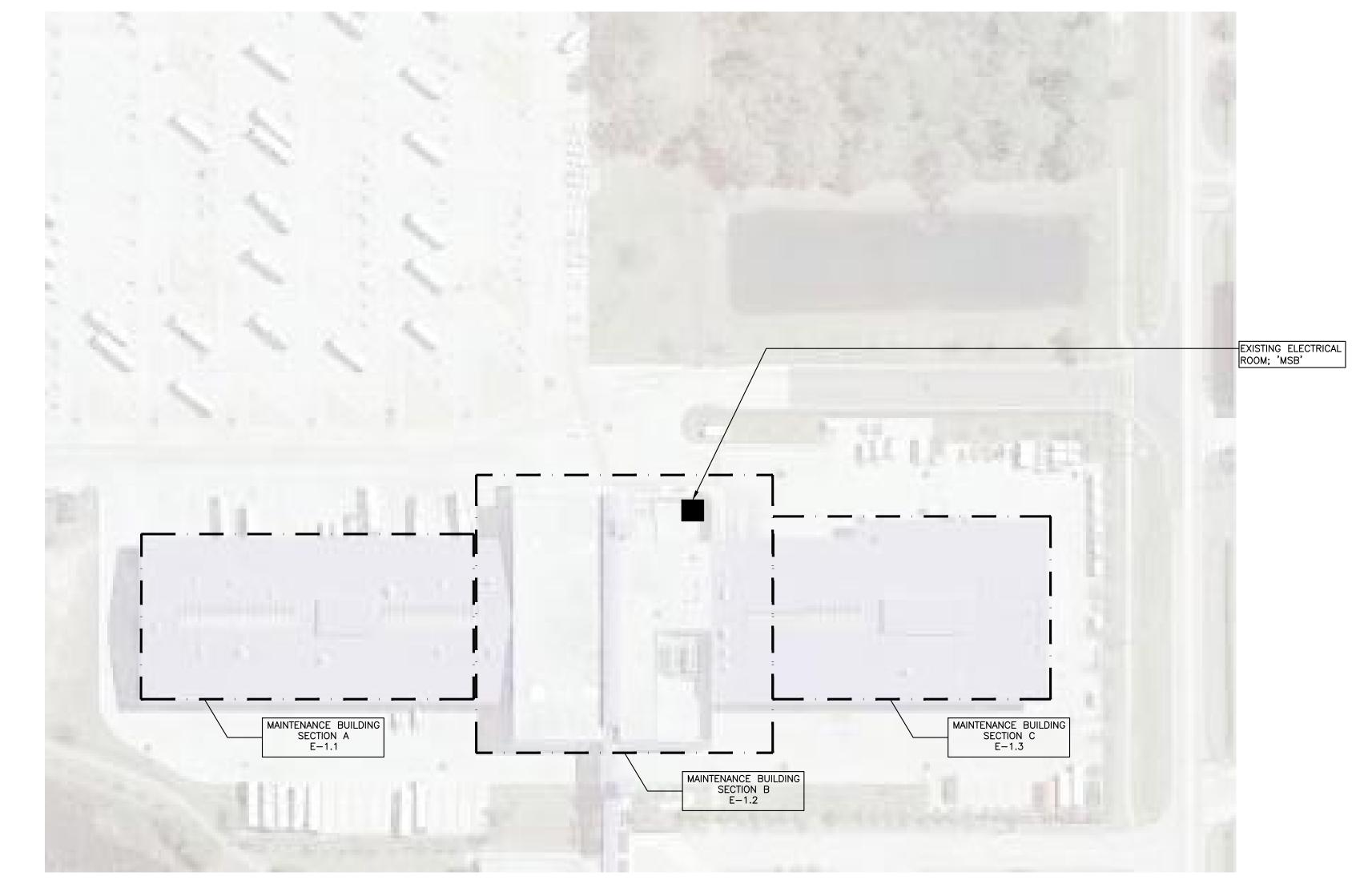
3060 S. DALE MABRY TAMPA, FLORIDA 33629

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Phone 813.831.8599 813.835.7046

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\}	1	06/01/2017	ADDENDUM #1
\	2	09/14/2017	ADDENDUM #2
}	3	10/11/2017	ADDENDUM #3
}			
}			







		GENERAL NOTES
	WORK SHALL MEET OR EXCEED REGULATORY REQUIREMENTS, INCLUDING LATEST EDITION OF THE NFPA 101 (LIFE SAFETY CODE), THE NATIONAL ELECTRICAL CODE 2011, FLORIDA BUILDING CODE 5TH EDITION (2014) AND LOCAL REQUIREMENTS & BUILDING CODES. EQUIPMENT, FIXTURES, SWITCHES, STARTERS, CONTACTORS, CONTROLS, DEVICES, CONNECTIONS, BOXES, MOUNTING	13. PROVIDE GREEN GROUND WIRE IN EACH RACEWAY, SIZE WIRE IN ACCORDANCE WITH TABLE 250.122 OF THE NEC. 14. PANELBOARDS SHALL BE CIRCUIT BREAKER TYPE AS MANUFACTURED BY SIEMENS, OR AS NOTED. PANELBOARDS SHALL HAVE A HINGED LOCKING DOOR. PANELS RATED 600 AMPS AND LARGER SHALL HAVE HINGES ON THE COVER SO THAT THE COVER IS SUPPORTED AND MAY SWING TO 26. PROVIDE A DEDICATED NEUTRAL FOR ALL CIRCUITS. 27. WHERE GFCI RECEPTACLES ARE SHOWN, A SEPARATE GFCI DEVICE SHALL BE PROVIDED, THEY SHALL NOT BE SLAVED. 28. PRIOR TO COMPLETION OF THE PROJECT, PROVIDE WRITTEN CERTIFICATION FOR EACH LIFE SAFETY AND LOW VOLTAGE ELECTRICAL SYSTEM.
3.	SUPPORTS, HARDWARE, WIRE, CONDUIT & ACCESSORIES SHALL BE PER PLANS AND SPECIFICATIONS FOR COMPLETE AND OPERATING ELECTRICAL SYSTEMS. CIRCUIT NUMBERS INDICATED ON THE DRAWINGS ARE FOR REFERENCE USE, CONTRACTOR TO BALANCE THE LOADS IN ALL PANELS IN WHICH WORK IS PERFORMED. MAINTAIN COMPLETE AS—BUILT DRAWINGS. PROVIDE ELECTRONIC AS—BUILT DRAWINGS AT COMPLETION OF PROJECT. ELECTRONIC SET OF DRAWINGS WILL BE PROVIDED OFR USE TO UPDATE THROUGHOUT PROJECT.	SO THAT THE COVER IS SUPPORTED AND MAY SWING TO THE SIDE WHEN THE COVER BOLTS ARE REMOVED. 15. PROVIDE A TYPEWRITTEN CIRCUIT DIRECTORY WITH PROTECTIVE COVERING. WIRES IN PANEL SHALL BE TAGGED WITH CIRCUIT NUMBER. CIRCUIT BREAKERS FOR MECHANICAL EQUIPMENT SHALL BE HACR TYPE. 16. CIRCUIT BREAKERS, TRANSFORMERS, DISCONNECT SWITCHES, MOTOR STARTERS AND OTHER ELECTRICAL APPARATUS INSTALLED FOR THE OPERATION OF ANY EQUIPMENT SHALL BE PROPERLY IDENTIFIED WITH ENGRAVED LAMINATED
	PROVIDE ENGRAVED NAMEPLATES FOR ALL ELECTRICAL EQUIPMENT.	PLASTIC NAMEPLATES ATTACHED TO EQUIPMENT BY STAINLESS STEEL SCREWS.
	PROVIDE REQUIRED CONDUIT & CABLE PENETRATIONS THROUGH PARTITIONS, WALLS, FLOORS, SLABS & ROOFS, WITH APPROVED FIRE SEALANT COMPOUND.	17. WIREWAYS, PULLBOXES, OUTLETS AND JUNCTION BOXES SHALL BE PROPERLY SIZED PER THE NATIONAL ELECTRICAL CODE. ALL PULLBOXES AND OUTLET BOXES SHALL BE PLAINLY COLOR CODED AND HAVE WIRING TAGGED TO
	CONDUCTORS SHALL BE COPPER, 600 VOLT WITH MINIMUM SIZE OF #12 AWG THWN / THHN, UNLESS OTHERWISE SPECIFIED. WIRE SIZES OF #10 AND LARGER SHALL BE STRANDED.	INDICATE PANEL AND CIRCUIT NUMBERS. 18. DISCONNECT SWITCHES SHALL BE SIEMENS SAFETY SWITCHES. SWITCHES SHALL BE HEAVY DUTY AND RATED FOR THE PROPER VOLTAGE. SWITCHES SHALL BE RATED AS INDICATED ON THE DRAWINGS FOR SIZE, NUMBER OF
/.	EQUIPMENT SHALL BE RATED FOR MAXIMUM AVAILABLE VOLTAGE AND GROUND FAULT CURRENT. ALL EQUIPMENT SHALL HAVE U. L. LISTING.	POLES AND TYPE ENCLOSURE. 19. FUSES SHALL BE BUSSMAN CURRENT LIMITING TYPE.
	CONTRACTOR SHALL COORDINATE ELECTRICAL REQUIREMENTS AND MAKE FINAL CONNECTIONS OF EQUIPMENT FURNISHED BY OTHER TRADES.	20. WHERE RECEPTACLES ARE INSTALLED CLOSER THAN 72" FROM EDGE OF SINK OR LAV, RECEPTACLE SHALL BE OF THE GROUND FAULT CIRCUIT INT. TYPE, OR SERVED BY A GFCI BREAKER.
	CONTRACTOR SHALL MAINTAIN A COMPLETE TEMPORARY POWER SYSTEM DURING CONSTRUCTION. COORDINATE ALL POWER OUTAGES & CHANGEOVERS WITH THE OWNER.	21. EXTERIOR RECEPTACLES SHALL BE WP GFCI TYPE WITH WP WHILE IN USE COVER. PROVIDE RECEPTACLE AT ELECTRICAL EQUIPMENT.
	CONTRACTOR SHALL GUARANTEE MATERIALS AND WORKMANSHIP FOR ONE YEAR. CONTRACTOR SHALL OBTAIN AND PAY FOR PERMITS AND INSPECTIONS.	22. BRANCH CIRCUIT CONDUCTORS SHALL BE SIZED FOR NO MORE THAN 3% VOLTAGE DROP AT THE FARTHEST POINT. 20 AMPERE BRANCH CIRCUITS SHALL HAVE MINIMUM SIZE
~ 2.	EXPOSED EXTERIOR CONDUIT SHALL BE RIGID GALVANIZED STEEL. ALL EXPOSED INTERIOR CONDUIT SHALL BE ELECTRICAL METALLIC TUBING. CONDUIT INSTALLED BELOW SLAB OR UNDERGROUND MAY BE SCHEDULE 40 PVC OR RIGID GALVANIZED STEEL PAINTED WITH HEAVY COAT OF BITUMASTIC PAINT (3/4" MINIMUM). CONDUIT SHALL BE CONCEALED WHERE POSSIBLE. CONCEALED CONDUIT IN WALLS AND CEILINGS SHALL BE EMT. EMT FITTINGS SHALL BE DIE CAST SET SCREW TYPE AT DRY INTERIOR LOCATIONS. EMT FITTINGS AT DAMP, OR WET LOCATIONS SHALL BE DIE CAST COMPRESSION RAIN—TIGHT TYPE. ALL WIRING SHALL BE IN CONDUIT.	#10 COPPER HOMERUN WIRING FOR CIRCUITS OVER 57' LONG & #8 COPPER HOMERUN WIRING FOR CIRCUITS OVER 150' LONG. 23. DISPOSE OF LAMPS, BALLASTS, & OTHER HAZARDOUS MATERIALS IN ACCORDANCE WITH FEDERAL, STATE, LOCAL, & EPA REGULATIONS. 24. PROVIDE FLEXIBLE CONDUIT & WIRING CONNECTION TO MOTORS & VIBRATING EQUIPMENT. 25. OUTDOOR EQUIPMENT, CONDUIT & CONNECTIONS SHALL BE WEATHERPROOF.

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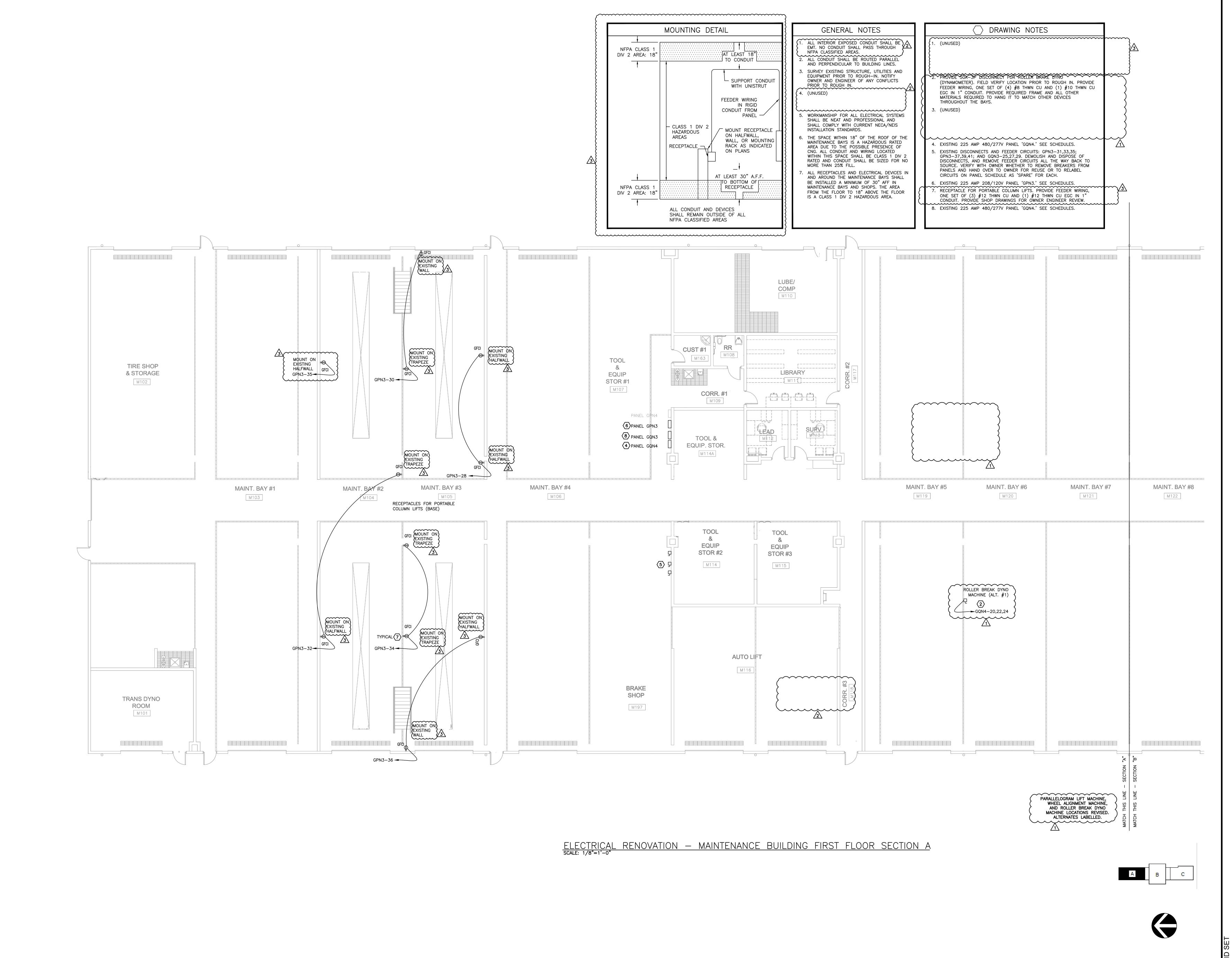
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ADDENDUM 1 06/01/2017

ADDENDUM 2 09/14/2017

ADDENDUM 3 10/10/2017

> PSTA RICAL GEAR AND MENT ADDITION DRIVE, ST. PETERBURG, FL 33716

ELECTRICAL GEAR AND EQUIPMENT ADDITION 3201 SCHERER DRIVE, ST. PETERSBURG FLORIDA 33716

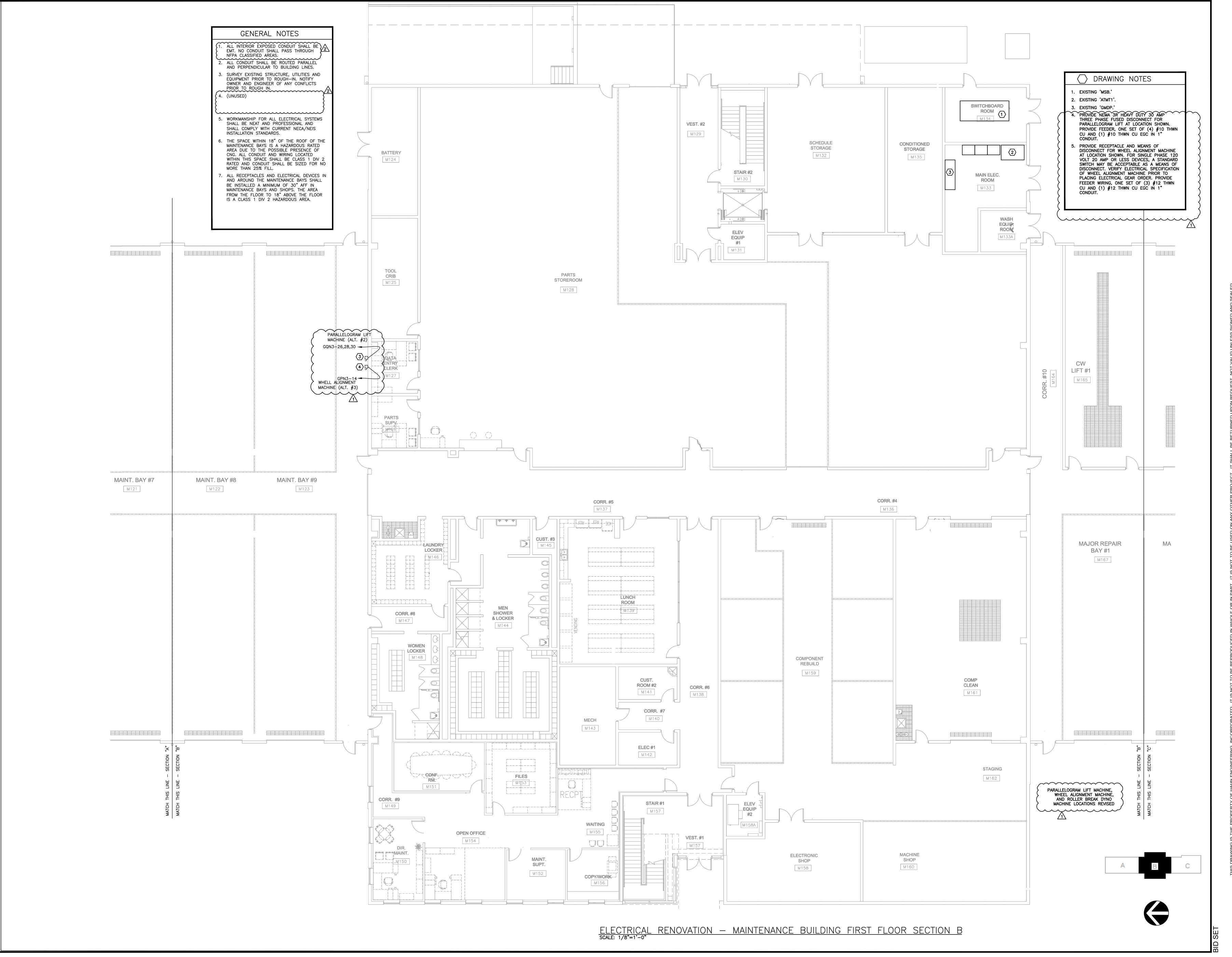
ELECTRICAL
MAINT. BUILDING
FIRST FLOOR
SECTION A
1/8" = 1'-0"

TLE 16409-Elec.dwg

0B 16-409

16-409 J.D.E. J.J.H.

E-1.



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ADDENDUM 1 06/01/2017 ADDENDUM 2 09/14/2017

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CTRICAL GEAR AND
UIPMENT ADDITION
ER DRIVE, ST. PETERBURG, FL 33716

ELECTRICAL GEAR AND EQUIPMENT ADDITION 3201 SCHERER DRIVE, ST. PETERSBURG FLORIDA 33716

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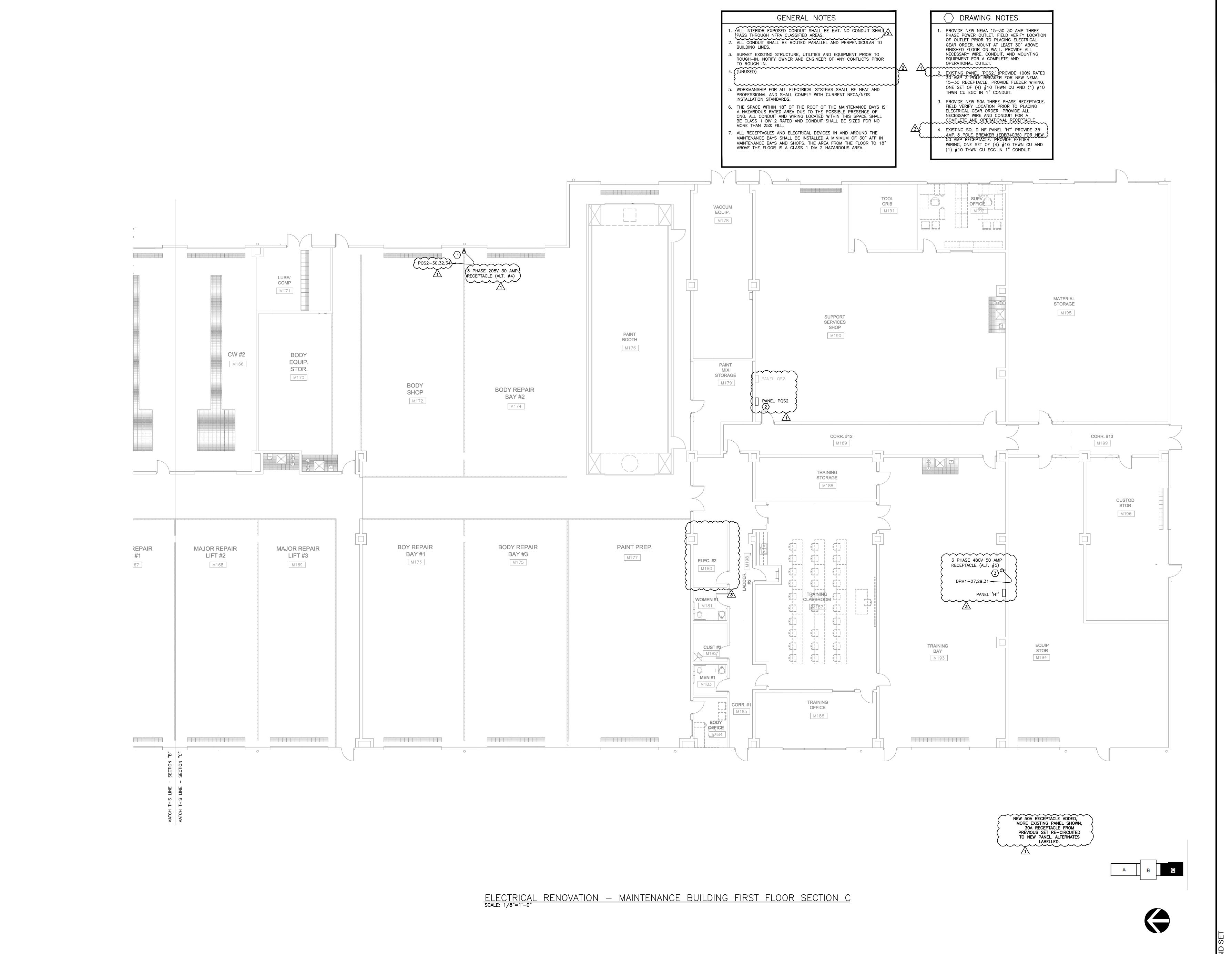
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MAINT. BUILDING
FIRST FLOOR
SECTION B
ALE 1/8" = 1'-0"

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DB 16-409

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ADDENDUM 1 06/01/2017

ADDENDUM 2 09/14/2017

ADDENDUM 3 10/10/2017

PSTA
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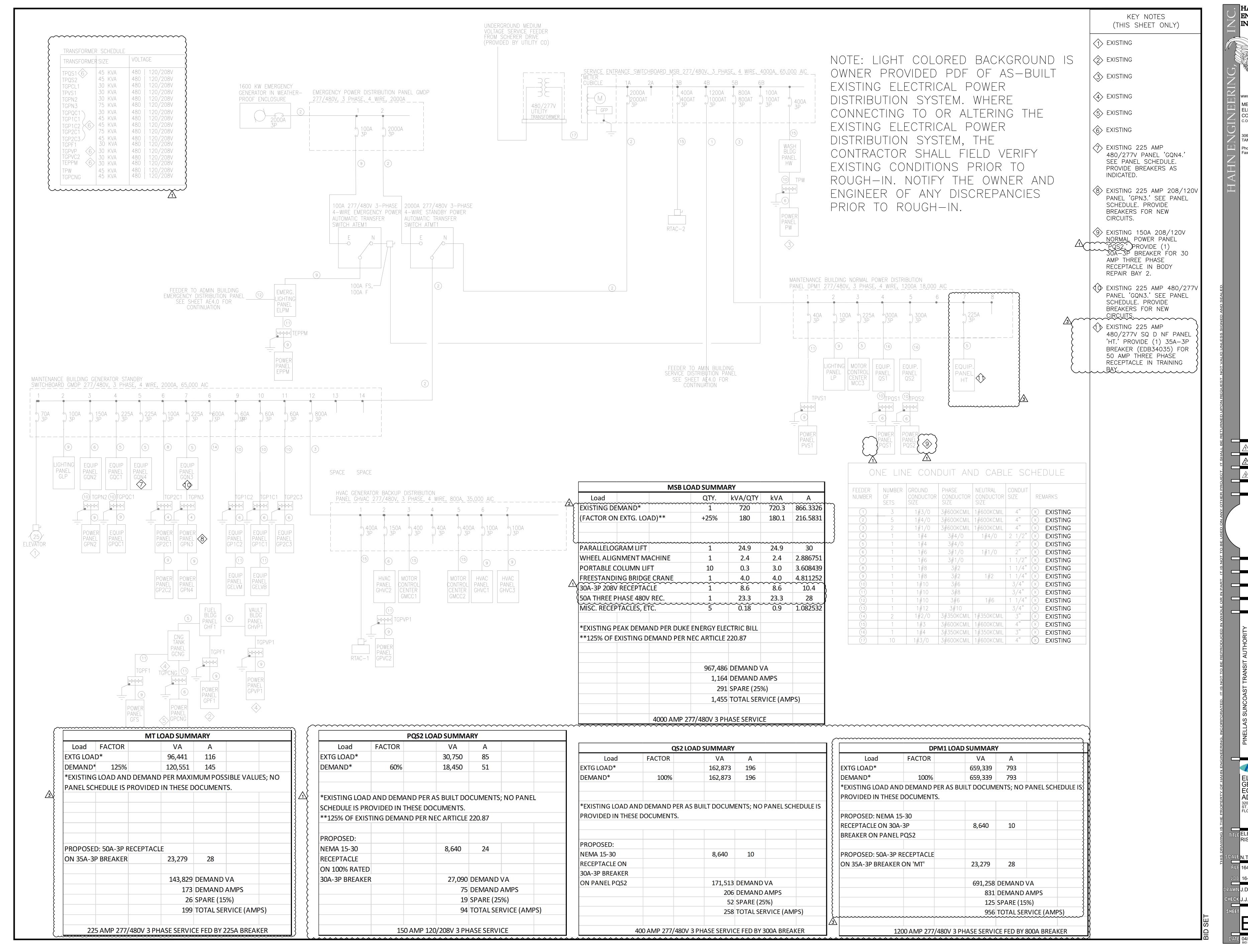
FLORIDA 33716

ELECTRICAL
MAINT. BUILDING
FIRST FLOOR
SECTION C
1/8" = 1'-0"

16409-Elec.dwg
16-409

16-409 J.D.E. J.J.H.

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PSTA

ELECTRICAL RISER DIAGRAM

16409-Elec.dwg

PANEL 'GQN4' **AUTO CALCULATIONS** PANEL GQN4 10/12/17 HERTZ LOAD (VA) 172,785 480 SYM RMS AMPS 22,000 LOW VOLTAGE 277 BREAKER TYPE MCB DIVERSITY(VA) 3 MAIN LUG AMPS 225A MCB 25% C LOAD 172,785 4 FED TOP/BOTTOM TOP TOTAL VA NEUTRAL Y MOUNTING TOTAL KVA 173 GROUND BUS Y/N Y NEMA TYPE NEMA 1 CONN AMPS 208 GND WIRE Y/N Y MANUFACTURER SQUARE D **FACTOR AMPS** WIRE THHN/THW THWN PANEL TYPE NQOD TOTAL AMPS 208 DESIGN AMPS NO.OF POLES MIN. AMPS % FACTOR BUSSING COPPER ISOLATED GND Y CIR # BREAKER CIRCUIT DESCRIPTION Feeder Selection 1 25A-3P EXTG. VEHICLE LIFT BAY 1 EAST ---3 -- LOADS FROM AS-BUILTS ---7 25A-3P EXTG. VEHICLE LIFT BAY 1 WEST ---9 --- LOADS FROM AS-BUILTS ---13 25A-3P EXTG. VEHICLE LIFT BAY 4 EAST ---15 --- LOADS FROM AS-BUILTS -------19 25A-3P EXTG. VEHICLE LIFT BAY 4 WEST ---LOADS FROM AS-BUILTS ---23 ---25 20A-1P SPACE 27 20A-1P SPACE 29 20A-1P SPACE 31 20A-1P SPACE 33 20A-1P SPACE 35 20A-1P SPACE 37 20A-1P SPACE 39 20A-1P SPACE 41 20A-1P SPACE 125A-3P EXISTING DYNAMOMETER ---27000 27000 CIR # BREAKER CIRCUIT DESCRIPTION L2 2 15A-3P EXTG. TIRE MOUNTER LOADS FROM AS-BUILTS ---6 --- ---1,330 ___ 8 15A-3P EXTG. TIRE MOUNTER TIRE SHOF -------LOADS FROM AS-BUILTS ---14 15A-3P EXTG. TIRE MOUNTER TIRE SHOF ---LOADS FROM AS-BUILTS 1,330 1 set of #8 26 20A-1P 28 20A-1P 30 20A-1P SPACE 32 20A-1P 34 20A-1P SPACE 36 20A-1P 38 20A-1P 40 20A-1P SPACE 42 20A-1P SPACE *F.S.B.C. LOAD ESTIMATED BY 1/3HP LATERAL MOTION MOTOR AND 5HP LIFTING MOTOR. CONFIRM PRIOR TO ORDERING GEA LOAD CALCULATIONS FOR PANEL 57,595 VA CONNECTED LOAD L1 57,595 VA CONNECTED LOAD L2 CONNECTED LOAD L3 57,595 VA SUB TOTAL VA 172,785 VA RECEPTACLE LOAD 0 VA LESS 1ST 10,000 VA 10,000 VA REMAINING VA 0 VA 0 VA 50% OF THE REMAINING VA LESS DIVERSITY (PER ARTICLE 220-44 N.E.C.) 0 VA CONTINUOUS LOAD 0 VA X .25 PLUS 25% OF THE CONTINUOUS LOAD 0 VA 0 VA APPLIANCE RECEPTACLE LOAD FOR 1 APPLIANCE, TAKE 100% OF THE LOAD RANGE RECEPTACLE LOAD 0 VA FOR 1 RANGE, TAKE 100% OF THE LOAD 0 VA HVAC LOAD: HEATING>COOLING REMOVE COOLING LOAD

SUB TOTAL

FACTOR

TOTAL VA

172,785 VA / 1.73 / VOLTAGE --->

0 VA

0 VA

208 AMPS

172,785 VA

172,785 VA

	GQN3	10/12/17	HERTZ	60		AUTO CALCULAT
HI VOLTA		480	SYM RMS AMPS	22,000		LOAD (VA)
LOW VO	LTAGE	277 3	BREAKER TYPE MAIN LUG AMPS	MCB 225A MCB		DIVERSITY(VA) 25% C LOAD
#WIRES		4	FED TOP/BOTTOM	TOP		TOTAL VA
NEUTRAI		Y	MOUNTING	SURFACE		TOTAL KVA
GROUND GND WIF	BUS Y/N RE Y/N	Y	NEMA TYPE MANUFACTURER	NEMA 1 SQUARE D		CONN AMPS FACTOR AMPS
WIRE TH		THWN	PANEL TYPE	NQOD		TOTAL AMPS
FROM	OLEC	GMDP				DESIGN AMPS
NO.OF P MIN. AMF		42 225				
% FACTO		0				
BUSSING ISOLATE		COPPER				
	D OND					
CIR#	BREAKER	CIRCUIT DE		Feeder Selection	L1	L2
3	20A-3P	BLAST CAB EXTG	INET BREAK SHOP		2,700	2,700
5						
7	15A-3P		T AUTO REPAIR BAY		900	
9		EXTG				900
13	15A-3P	VEHICLE LIF	T AUTO REPAIR BAY		1,000	
15		EXTG				1,000
17 19	100A-3P	PANEL GPN	I3 VIA XFMR TPN3		22,270	
21		EXTG				21,010
23	 25A 2D		ADANDONES:			
25 27	35A-3P	DUST VAC (ABANDONED)		0	0
29						
31	20A-1P	SPACE			0	
33 35	20A-1P 20A-1P	SPACE SPACE				0
37	20A-1P	SPACE			0	
39	20A-1P	SPACE				0
41	20A-1P	SPACE				
CIR#	BREAKER	CIRCUIT DE	SCRIPTION		L1	L2
2	110A-3P		ESSOR LUBE & OIL		24,376	
6		EXTG	WN IS MAX ALLOWAE	I E EOR BREAKER)		24,376
8	20A-3P	AIR DRYER			580	
10		EXTG				580
12 14	15A-3P	PORTARI E	LIFT POWER BAY 4		1,000	
16		EXTG	/ OVVEILDAT 4		1,000	1,000
18		_				
20 22	30A-3P	TRASH CON	MPACTOR		1,200	1,200
24		_				1,200
26	30A-3P	PARALLELO	OGRAM LIFT	1 set of #10	5,810	
28 30		_				5,810
32	20A-1P	SPACE			0	
34	20A-1P	SPACE				0
36 38	20A-1P 20A-1P	SPACE SPACE			0	
40	20A-1P 20A-1P	SPACE				0
42	20A-1P	SPACE				
	*F.S.B.C. LOA	D ESTIMATE	D BY 1/3HP LATERAL	MOTION MOTOR ANI	O 5HP LIFTING MC	TOR. CONFIRM PE
	LOAD CALCU		RPANEL			
	CONNECTED					59,836 58,576
	CONNECTED					56,746
	SUB TOTAL V	A				175,158
	RECEPTACLE	LOAD			0	VA
	LESS 1ST 10,				- 10,000	
	REMAINING V	'A			0	VA
	50% OF THE I		/A			VA
	LESS DIVERS	SITY (PER AR	TICLE 220-44 N.E.C.)			0
	CONTINUOUS	LOAD			0	VA
					X .25	
	PLUS 25% OF	THE CONTIN	NUOUS LOAD			0
	. 200 20 /0 OF	L GOIVIII	.5000 LOAD			0
	APPLIANCE R					VA
	FOR 1 APPLIA	ANCE, TAKE	100% OF THE LOAD		- 0	0
	RANGE RECE	PTACLE LOA	AD		0	VA
			6 OF THE LOAD	-	- 0	
		LICATING	COLING		-	0
	HVAC LOAD:		OULING		- 0	
		20,10				0
	OUD TOT:					
	SUB TOTAL					175,158
	FACTOR		0%			0
			2,0			
		1				
	TOTAL VA					175,158

II VOLTA .OW VOL	GQN3	10/12/1	1.0		60		AUTO CALCULATION		
UVV VUL		480 277		SYM RMS AMPS BREAKER TYPE	22,000 MCB		LOAD (VA) DIVERSITY(VA)	175,158 0	
HASE	.,,,OL	3			225A MCB		25% C LOAD	0	
WIRES		4		FED TOP/BOTTOM	TOP		TOTAL VA	175,158	
IEUTRAL		Y		MOUNTING	SURFACE		TOTAL KVA	175	
ROUND OND WIR	BUS Y/N F Y/N	Y			NEMA 1 SQUARE D		CONN AMPS FACTOR AMPS	211 0	
VIRE THE		THWN		PANEL TYPE	NQOD		TOTAL AMPS	211	
ROM		GMDP					DESIGN AMPS	225	
O.OF PO		42							
IIN. AMP		225							
6 FACTO BUSSING		0 COPPER							
SOLATE		Y	·						
30L/ (12L	ONB								Χ
CIR#	BREAKER	CIRCUIT	DES	SCRIPTION	Feeder Selection	L1	L2	L3	
	20A-3P		CABI	NET BREAK SHOP		2,700			
3		EXTG					2,700		
5 7	15A-3P	VEHICLE	 = 1 IE	T AUTO REPAIR BAY		900		2,700	
9		EXTG		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			900		
11	<u> </u>							900	
13	15A-3P	and the second second	E LIF	T AUTO REPAIR BAY		1,000			
15		EXTG					1,000		
17 19	100A-3P	PANEL	GDN	3 VIA XFMR TPN3		22,270		1,000	
21		EXTG	۱۷۰ ⊤ات	O VID ALIVIN IFINO			21,010		
23								19,180	
	35A-3P	DUST V	AC (/	ABANDONED)		0			
27							0		
29	 20Δ_1D	SPACE						0	
	20A-1P 20A-1P	SPACE				0	0		
	20A-1P	SPACE						0	
	20A-1P	SPACE				0			
	20A-1P	SPACE					0		
41	20A-1P	SPACE						0	
CID #	BREAKER	CIDCLUT	DEC	SCRIDTION		L1	10	10	
CIR#	110A-3P			SCRIPTION ESSOR LUBE & OIL		24,376	L2	L3	
4		EXTG		I I I I I I I I I I I I I I I I I I I			24,376		
6			HOV	WN IS MAX ALLOWAB	LE FOR BREAKER)			24,376	
	20A-3P		ER!	LUBE & OIL		580			
10		EXTG					580		
12 14	 15A-3P	PORTAR	31 ⊏ '	LIFT POWER BAY 4		1,000		580	
16		EXTG	ا تاب	-" I I OVVLINDAT 4		1,000	1,000		
18								1,000	
20	30A-3P	TRASH	COM	IPACTOR		1,200			
22		EXTG					1,200		
24	 204 2D		<u></u>	ODAM LIET	4			1,200	
26 28	30A-3P	PARALL	.ELO	OGRAM LIFT	1 set of #10	5,810	F 040		
30							5,810	5,810	
	20A-1P	SPACE				0			
	20A-1P	SPACE					0		
	20A-1P	SPACE						0	
	20A-1P 20A-1P	SPACE				0			
		SPACE SPACE				_===	0 	0	
			ATF	D BY 1/3HP LATERAL	MOTION MOTOR AND	5HP LIFTING MO	TOR. CONFIRM PR		RING GEA
				B					
	CONNECTED	LA FIONS	FOF	A STATE OF THE STA	t I				
	CONNECTED			KPANEL			F0 000	VA	
	CONNECTED			< PANEL			59,836 58,576		
	CONNECTED	LOAD L2		< PANEL			59,836 58,576 56,746	VA	
		LOAD L2		Y PANEL			58,576	VA	
		LOAD L2 LOAD L3		Y PANEL			58,576	VA VA	
	CONNECTED SUB TOTAL V	LOAD L2 LOAD L3 A		Y PANEL			58,576 56,746 175,158	VA VA	
	SUB TOTAL V	LOAD L2 LOAD L3 A LOAD		Y PANEL			58,576 56,746 175,158	VA VA	
	CONNECTED SUB TOTAL V	LOAD L2 LOAD L3 A LOAD		Y PANEL		0 - 10,000	58,576 56,746 175,158	VA VA	
	SUB TOTAL V	LOAD L2 LOAD L3 A LOAD 000 VA		YANEL		- 10,000	58,576 56,746 175,158	VA VA	
	SUB TOTAL VARECEPTACLE	LOAD L2 LOAD L3 A LOAD 000 VA				10,000	58,576 56,746 175,158 VA VA	VA VA	
	SUB TOTAL VARECEPTACLE LESS 1ST 10,0 REMAINING V 50% OF THE F	LOAD L2 LOAD L3 A LOAD 000 VA A REMAINII	NG V	/A		10,000	58,576 56,746 175,158 VA VA VA	VA VA	
	SUB TOTAL VARECEPTACLE LESS 1ST 10,0 REMAINING V 50% OF THE F	LOAD L2 LOAD L3 A LOAD 000 VA A REMAINII	NG V			10,000	58,576 56,746 175,158 VA VA VA	VA VA	
	SUB TOTAL VARECEPTACLE LESS 1ST 10,0 REMAINING V 50% OF THE F	LOAD L2 LOAD L3 A LOAD D00 VA A REMAININ	NG V	/A		- 10,000 0 0	58,576 56,746 175,158 VA VA VA	VA VA	
	SUB TOTAL VARECEPTACLE LESS 1ST 10,0 REMAINING V 50% OF THE F	LOAD L2 LOAD L3 A LOAD D00 VA A REMAININ	NG V	/A		- 10,000 0 0	58,576 56,746 175,158 VA VA VA VA	VA VA	
	SUB TOTAL VARECEPTACLE LESS 1ST 10, REMAINING V 50% OF THE F LESS DIVERS CONTINUOUS	LOAD L2 LOAD L3 A LOAD D00 VA A REMAININ	NG V	'A TICLE 220-44 N.E.C.)		- 10,000 0 0	58,576 56,746 175,158 VA VA VA VA	VA VA VA VA	
	SUB TOTAL VARECEPTACLE LESS 1ST 10,0 REMAINING V 50% OF THE F	LOAD L2 LOAD L3 A LOAD D00 VA A REMAININ	NG V	'A TICLE 220-44 N.E.C.)		- 10,000 0 0	58,576 56,746 175,158 VA VA VA VA	VA VA	
	SUB TOTAL VARECEPTACLE LESS 1ST 10,0 REMAINING V 50% OF THE F LESS DIVERS CONTINUOUS PLUS 25% OF	LOAD L2 LOAD L3 A LOAD D00 VA A REMAININ LOAD	NG V	VA TICLE 220-44 N.E.C.)		- 10,000 0 0 X .25	58,576 56,746 175,158 VA VA VA VA O	VA VA VA VA	
	CONNECTED SUB TOTAL V. RECEPTACLE LESS 1ST 10,0 REMAINING V. 50% OF THE F. LESS DIVERS CONTINUOUS PLUS 25% OF APPLIANCE R	LOAD L2 LOAD L3 A LOAD D00 VA A REMAININ ITY (PER LOAD	NG V	VA TICLE 220-44 N.E.C.) NUOUS LOAD LOAD		- 10,000 0 0 0 X .25	58,576 56,746 175,158 VA VA VA VA O VA	VA VA VA VA	
	CONNECTED SUB TOTAL V. RECEPTACLE LESS 1ST 10,0 REMAINING V. 50% OF THE F. LESS DIVERS CONTINUOUS PLUS 25% OF APPLIANCE R	LOAD L2 LOAD L3 A LOAD D00 VA A REMAININ ITY (PER LOAD	NG V	VA TICLE 220-44 N.E.C.)		- 10,000 0 0 X .25	58,576 56,746 175,158 VA VA VA VA O VA	VA VA VA VA	
	CONNECTED SUB TOTAL V. RECEPTACLE LESS 1ST 10,0 REMAINING V. 50% OF THE F. LESS DIVERS CONTINUOUS PLUS 25% OF APPLIANCE R	LOAD L2 LOAD L3 A LOAD D00 VA A REMAININ ITY (PEF LOAD THE CO	NG V	VA TICLE 220-44 N.E.C.) NUOUS LOAD LOAD 100% OF THE LOAD		- 10,000 0 0 X .25	58,576 56,746 175,158 VA VA VA VA O	VA VA VA VA	
	SUB TOTAL VARECEPTACLE LESS 1ST 10,0 REMAINING VARENCE OF THE FORTON OF	LOAD L2 LOAD L3 A LOAD D00 VA A REMAININ ITY (PER LOAD THE CO ECEPTA NCE, TA	NG V	VA TICLE 220-44 N.E.C.) NUOUS LOAD LOAD 100% OF THE LOAD		- 10,000 0 0 X .25	58,576 56,746 175,158 VA VA VA O VA	VA VA VA VA VA	
	SUB TOTAL VARECEPTACLE LESS 1ST 10,0 REMAINING VARENCE OF THE FOR SUPERS CONTINUOUS PLUS 25% OF APPLIANCE REFOR 1 APPLIANCE REFOR 1 RANGE RANGE RECE FOR 1 RANGE	LOAD L2 LOAD L3 A LOAD D00 VA A REMAININ ITY (PER LOAD THE CO ECEPTA NCE, TA PTACLE	NG V R ART	JUOUS LOAD LOAD 100% OF THE LOAD 3 OF THE LOAD		- 10,000 0 0 X .25	58,576 56,746 175,158 VA VA VA O VA	VA VA VA VA	
	SUB TOTAL VARECEPTACLE LESS 1ST 10, REMAINING V 50% OF THE F LESS DIVERS CONTINUOUS PLUS 25% OF APPLIANCE R FOR 1 APPLIA RANGE RECE FOR 1 RANGE HVAC LOAD:	LOAD L2 LOAD L3 A LOAD D00 VA A REMAININ ITY (PEF LOAD THE CO ECEPTA NCE, TA PTACLE TAKE HEATING	NG V R AR ONTIN CLE KE 1 LOA 100%	JUOUS LOAD LOAD 100% OF THE LOAD 3 OF THE LOAD		- 10,000 0 0 X .25	58,576 56,746 175,158 VA VA VA O VA O VA	VA VA VA VA VA	
	SUB TOTAL VARECEPTACLE LESS 1ST 10,0 REMAINING VARENCE OF THE FOR SUPERS CONTINUOUS PLUS 25% OF APPLIANCE REFOR 1 APPLIANCE REFOR 1 RANGE RANGE RECE FOR 1 RANGE	LOAD L2 LOAD L3 A LOAD D00 VA A REMAININ ITY (PEF LOAD THE CO ECEPTA NCE, TA PTACLE TAKE HEATING	NG V R AR ONTIN CLE KE 1 LOA 100%	JUOUS LOAD LOAD 100% OF THE LOAD 3 OF THE LOAD		- 10,000 0 0 X .25	58,576 56,746 175,158 VA VA VA O VA O VA	VA VA VA VA VA VA	
	SUB TOTAL VARECEPTACLE LESS 1ST 10, REMAINING V 50% OF THE F LESS DIVERS CONTINUOUS PLUS 25% OF APPLIANCE R FOR 1 APPLIA RANGE RECE FOR 1 RANGE HVAC LOAD:	LOAD L2 LOAD L3 A LOAD D00 VA A REMAININ ITY (PEF LOAD THE CO ECEPTA NCE, TA PTACLE TAKE HEATING	NG V R AR ONTIN CLE KE 1 LOA 100%	JUOUS LOAD LOAD 100% OF THE LOAD 3 OF THE LOAD		- 10,000 0 0 X .25	58,576 56,746 175,158 VA VA VA O VA O VA	VA VA VA VA VA	
	SUB TOTAL VARECEPTACLE LESS 1ST 10,0 REMAINING VAREMAINING VAREMAI	LOAD L2 LOAD L3 A LOAD D00 VA A REMAININ ITY (PEF LOAD THE CO ECEPTA NCE, TA PTACLE TAKE HEATING	NG V R AR ONTIN CLE KE 1 LOA 100%	JUOUS LOAD LOAD 100% OF THE LOAD 3 OF THE LOAD		- 10,000 0 0 X .25	58,576 56,746 175,158 VA VA VA O VA O VA	VA VA VA VA VA VA VA VA	
	SUB TOTAL VARECEPTACLE LESS 1ST 10, REMAINING V 50% OF THE F LESS DIVERS CONTINUOUS PLUS 25% OF APPLIANCE R FOR 1 APPLIA RANGE RECE FOR 1 RANGE HVAC LOAD:	LOAD L2 LOAD L3 A LOAD D00 VA A REMAININ ITY (PEF LOAD THE CO ECEPTA NCE, TA PTACLE TAKE HEATING	NG V R AR ONTIN CLE KE 1 LOA 100%	JUOUS LOAD LOAD 100% OF THE LOAD 3 OF THE LOAD		- 10,000 0 0 X .25	58,576 56,746 175,158 VA VA VA O VA O VA	VA VA VA VA VA VA VA VA	
	SUB TOTAL VARECEPTACLE LESS 1ST 10,0 REMAINING VAREMAINING VAREMAI	LOAD L2 LOAD L3 A LOAD D00 VA A REMAININ ITY (PEF LOAD THE CO ECEPTA NCE, TA PTACLE TAKE HEATING	NG V R AR ONTIN CLE KE 1 LOA 100%	JUOUS LOAD LOAD 100% OF THE LOAD 3 OF THE LOAD		- 10,000 0 0 X .25	58,576 56,746 175,158 VA VA VA O VA O VA	VA VA VA VA VA VA VA VA	
	SUB TOTAL VARECEPTACLE LESS 1ST 10,0 REMAINING VAREMAINING VAREMAI	LOAD L2 LOAD L3 A LOAD D00 VA A REMAININ ITY (PEF LOAD THE CO ECEPTA NCE, TA PTACLE TAKE HEATING	NG V R AR ONTIN CLE KE 1 LOA 100%	IUOUS LOAD LOAD 100% OF THE LOAD 6 OF THE LOAD		- 10,000 0 0 X .25	58,576 56,746 175,158 VA VA VA O VA O VA	VA VA VA VA VA VA VA VA VA	
	SUB TOTAL VARECEPTACLE LESS 1ST 10,0 REMAINING VAREMAINING VAREMAI	LOAD L2 LOAD L3 A LOAD D00 VA A REMAININ ITY (PEF LOAD THE CO ECEPTA NCE, TA PTACLE TAKE HEATING	NG V R AR ONTIN CLE KE 1 LOA 100%	IUOUS LOAD LOAD 100% OF THE LOAD 6 OF THE LOAD		- 10,000 0 0 X .25	58,576 56,746 175,158 VA VA VA O VA O VA	VA VA VA VA VA VA VA VA VA VA	

ANEL	GPN3	10/12/17	HERTZ	60			AUTO CALCULATION		
II VOLTA	40 - 0 (0.07) (0.07)	208	SYM RMS AMPS	22,000			LOAD (VA)	62,460	
OW VOL	LTAGE	120	BREAKER TYPE	MCB			DIVERSITY(VA)	(2,630)	
PHASE		3	MAIN LUG AMPS	225A MCB			25% C LOAD	0	
#WIRES NEUTRAL		4 Y	FED TOP/BOTTOM MOUNTING	TOP SURFACE			TOTAL VA TOTAL KVA	59,830 60	
	BUS Y/N	Y	NEMA TYPE	NEMA 1			CONN AMPS	166	
GND WIR	10.000.000	Y	MANUFACTURER	SQUARE D			FACTOR AMPS	0	
WIRE THI	HN/THW	THWN	PANEL TYPE	NQOD			TOTAL AMPS	166	
FROM		GQN3					DESIGN AMPS	225	
NO.OF P		42							
MIN. AMF		225							
% FACTO BUSSING		0 COPPER							
ISOLATE		Y							
1002/1121	B GIIB		DIRCUIT, LOAD PER AS	BUILTS					Χ
CIR#	BREAKER	CIRCUIT DE		Feeder Selection		L1	L2	L3	
1	20A-1P		BRAKE SHOP*		D	900			
3	20A-1P	EQ. RCPT.	AUTO BAY*		D		700		
5	20A-1P	EQ. RCPT.	AUTO BAY*		D			720	
7	20A-1P	RCPT. AUTO	V-124014-9		D	720			
9	20A-1P	RCPT. AUTO			D		500		
11	20A-1P		HOSE REEL MTR*		D	0.40		400	
13	20A-1P	RECEPTAC			D	840			
15 17	20A-1P		LES RM. M112* LES RM. M111*		D D		800	360	
17 19	20A-1P 20A-1P		LES RM. M111* LES RM. M113		D	800		360	
21	20A-1P 20A-1P	UNKNOWN			U	800	1,920		
23	20A-1P	UNKNOWN					1,320	1,920	
25	-3r 1 11	SPACE				0		1,920	
27	20A-1P		MP. CONTROL*				300		
29	20A-1P		GAS MONITOR, SYS*		~~~	~~~==	~~~~~	1.920	~~~
31	35A-2P		RIDGE CRANE*		•	2,040			***
33							2,040		
سى35س	20A-1P		COLUMN LIFTS	1 set of #12	سلم		······	600	سس
37	15A-3P	SPARE				0			
39							0		
41								0	
			CIRCUIT, LOAD SHOW	'N IS MAX ALLOW	ABLE				
CIR#	BREAKER	CIRCUIT DE				L1	L2	L3	
2	15A-2P	DOOR OPE	RATOR BAY 4E*			840	940		
4	15A OD	DOOD 005	DATOD DAY 416*				840	940	
6 8	15A-2P	DOOK OPE	RATOR BAY 4W*			040		840	
8 10	15A-2P	N. LIFT*				840	840		
10	13A-ZP	AVTO. BAY	9*				840	840	
14	20A-1P		GNMENT MACHINE	1 set of #12	D	1,920		040	
16	20A-1P	UNKNOWN		. JUL OI IT (Z		1,020	1,920		
18								1,920	
20						1,920			
22	15A-3P	SUMP PUM	P				900		
24								900	
26						900			
28	20A-1P	PORTABLE	COLUMN LIFTS	1 set of #12	D		1,200		
30	20A-1P		COLUMN LIFTS	1 set of #12	D			1,200	
32	20A-1P		COLUMN LIFTS	1 set of #12	D	1,200			
34	20A-1P		COLUMN LIFTS	1 set of #12	D		1,200		
36	20A-1P		COLUMN LIFTS	1 set of #12	D			1,200	
38	100A-3P	PANEL GPN	\4			9,350			
40							7,850		
42								6,360	
	LOAD CALCU	LATIONS FO	R PANFI						
	CONNECTED						22,270	VA	
	CONNECTED						21,010		
	CONNECTED						19,180		
	SUB TOTAL V	Α					62,460	VA	
	RECEPTACLE					15,260			
	LESS 1ST 10,	000 VA			-	10,000	VA		
	DEMANUS	/^				F	\/A		
	REMAINING V		./Λ			5,260			
	50% OF THE	ALIVIAINING \	v A			2,630	v //		
		YTV (DED AE	RTICLE 220-44 N.E.C.)				(2,630)	VA	
	LESS DIVEDS) f (PPP ^-					(2,030)	v/1	
	LESS DIVERS	OIII (PERAR	I .			n	VA		
	LESS DIVERS					X .25			
	CONTINUOUS	LOAD	NUOUS LOAD				0	VA	
	CONTINUOUS	LOAD	NUOUS LOAD				0	VA	
	CONTINUOUS	LOAD THE CONTI				0	0 VA	VA	
	CONTINUOUS PLUS 25% OF	LOAD THE CONTIL			-	0	VA	VA	
	PLUS 25% OF APPLIANCE F	LOAD THE CONTIL	LOAD 100% OF THE LOAD		-	0	VA 0	VA	
	PLUS 25% OF APPLIANCE F FOR 1 APPLIA RANGE RECE	THE CONTIL	E LOAD 100% OF THE LOAD AD		-	0	VA 0	VA	
	PLUS 25% OF APPLIANCE F FOR 1 APPLIA RANGE RECE	THE CONTIL	LOAD 100% OF THE LOAD		-	0	VA 0		
	CONTINUOUS PLUS 25% OF APPLIANCE F FOR 1 APPLIA RANGE RECE FOR 1 RANGE	LOAD THE CONTII RECEPTACLE ANCE, TAKE EPTACLE LOA E, TAKE 1009	E LOAD 100% OF THE LOAD AD % OF THE LOAD		-	0 0	VA 0	VA	
	PLUS 25% OF APPLIANCE F FOR 1 APPLIA RANGE RECE FOR 1 RANGE HVAC LOAD:	LOAD THE CONTII RECEPTACLE ANCE, TAKE PTACLE LOA TAKE 1009 HEATING>C	E LOAD 100% OF THE LOAD AD 6 OF THE LOAD COOLING		-	0 0 0	VA 0 VA 0		
	CONTINUOUS PLUS 25% OF APPLIANCE F FOR 1 APPLIA RANGE RECE FOR 1 RANGE	LOAD THE CONTII RECEPTACLE ANCE, TAKE PTACLE LOA TAKE 1009 HEATING>C	E LOAD 100% OF THE LOAD AD 6 OF THE LOAD COOLING		-	0 0	VA 0 VA 0	VA	
	PLUS 25% OF APPLIANCE F FOR 1 APPLIA RANGE RECE FOR 1 RANGE HVAC LOAD:	LOAD THE CONTII RECEPTACLE ANCE, TAKE PTACLE LOA TAKE 1009 HEATING>C	E LOAD 100% OF THE LOAD AD 6 OF THE LOAD COOLING		-	0 0 0	VA 0 VA 0		
	CONTINUOUS PLUS 25% OF APPLIANCE F FOR 1 APPLIA RANGE RECE FOR 1 RANGE HVAC LOAD: REMOVE CO	LOAD THE CONTII RECEPTACLE ANCE, TAKE PTACLE LOA TAKE 1009 HEATING>C	E LOAD 100% OF THE LOAD AD 6 OF THE LOAD COOLING		-	0 0 0	VA 0 VA 0	VA	
	PLUS 25% OF APPLIANCE F FOR 1 APPLIA RANGE RECE FOR 1 RANGE HVAC LOAD:	LOAD THE CONTII RECEPTACLE ANCE, TAKE PTACLE LOA TAKE 1009 HEATING>C	E LOAD 100% OF THE LOAD AD 6 OF THE LOAD COOLING		-	0 0 0	VA 0 VA 0	VA	
	CONTINUOUS PLUS 25% OF APPLIANCE F FOR 1 APPLIA RANGE RECE FOR 1 RANGE HVAC LOAD: REMOVE COO SUB TOTAL	LOAD THE CONTII RECEPTACLE ANCE, TAKE PTACLE LOA TAKE 1009 HEATING>C	E LOAD 100% OF THE LOAD AD 6 OF THE LOAD COOLING		-	0 0 0	VA 0 VA 0 0 59,830	VA VA	
	CONTINUOUS PLUS 25% OF APPLIANCE F FOR 1 APPLIA RANGE RECE FOR 1 RANGE HVAC LOAD: REMOVE CO	LOAD THE CONTII RECEPTACLE ANCE, TAKE PTACLE LOA TAKE 1009 HEATING>C	E LOAD 100% OF THE LOAD AD 6 OF THE LOAD COOLING		-	0 0 0	VA 0 VA 0 0 59,830	VA	
	CONTINUOUS PLUS 25% OF APPLIANCE F FOR 1 APPLIA RANGE RECE FOR 1 RANGE HVAC LOAD: REMOVE COO SUB TOTAL FACTOR	LOAD THE CONTII RECEPTACLE ANCE, TAKE PTACLE LOA TAKE 1009 HEATING>C	E LOAD 100% OF THE LOAD AD 6 OF THE LOAD COOLING			0 0 0	VA 0 VA 0 59,830 0	VA VA VA VA	
	CONTINUOUS PLUS 25% OF APPLIANCE F FOR 1 APPLIA RANGE RECE FOR 1 RANGE HVAC LOAD: REMOVE COO SUB TOTAL	LOAD THE CONTII RECEPTACLE ANCE, TAKE PTACLE LOA TAKE 1009 HEATING>C	E LOAD 100% OF THE LOAD AD 6 OF THE LOAD COOLING			0 0 0	VA 0 VA 0 0 59,830	VA VA VA VA	

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ADDITION