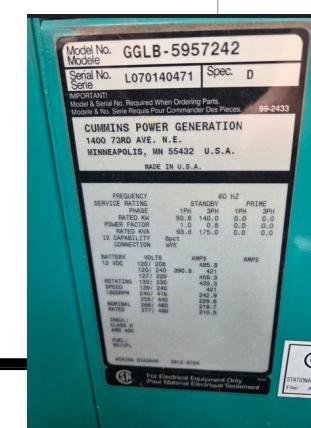


ONE CA FIELD VISIT SHALL BE INCLUDED TO REVIEW THE INSTALL

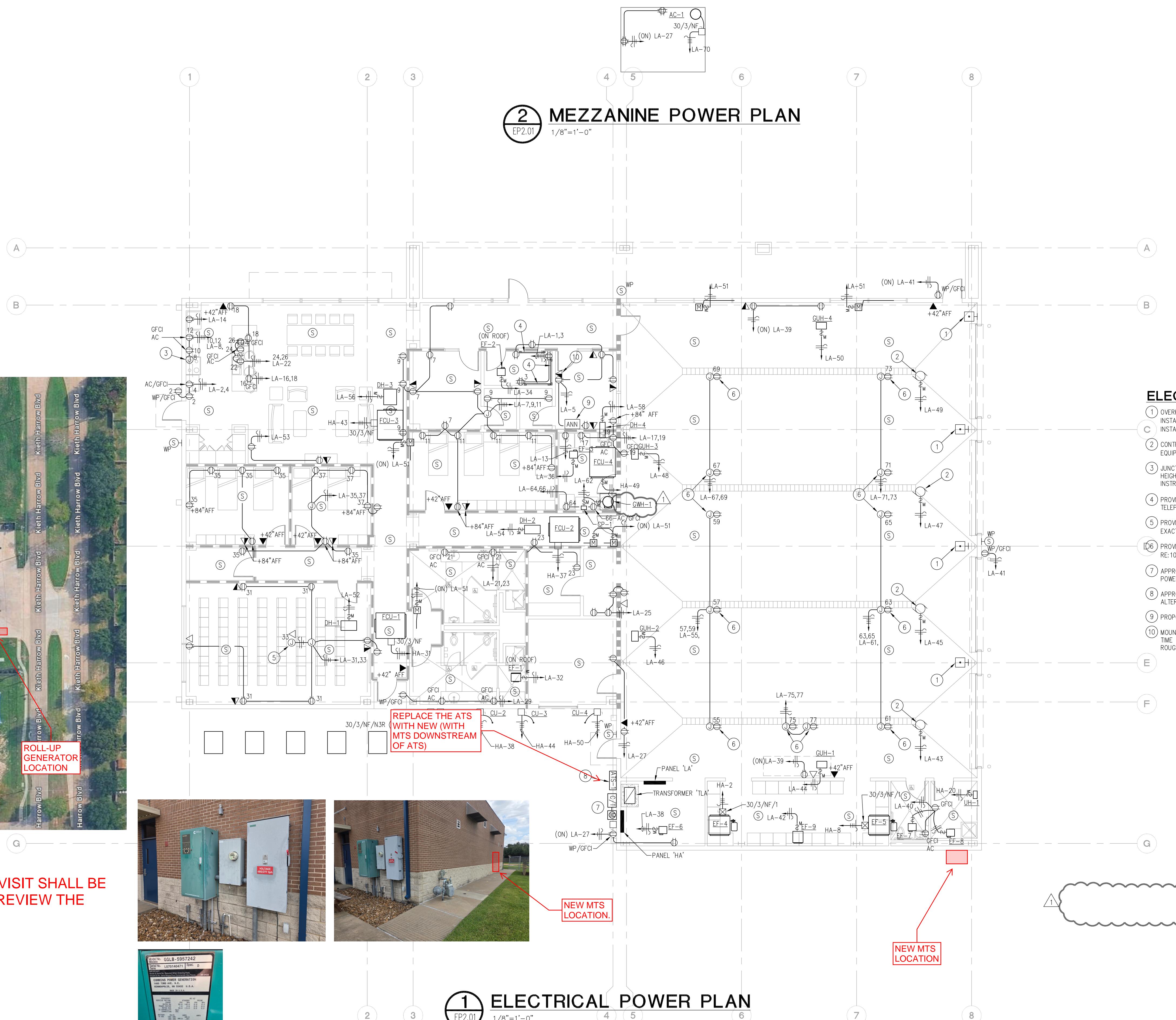


1 ELECTRICAL POWER PLAN

2 MEZZANINE POWER PLAN

EP2.01

1/8"=1'-0"



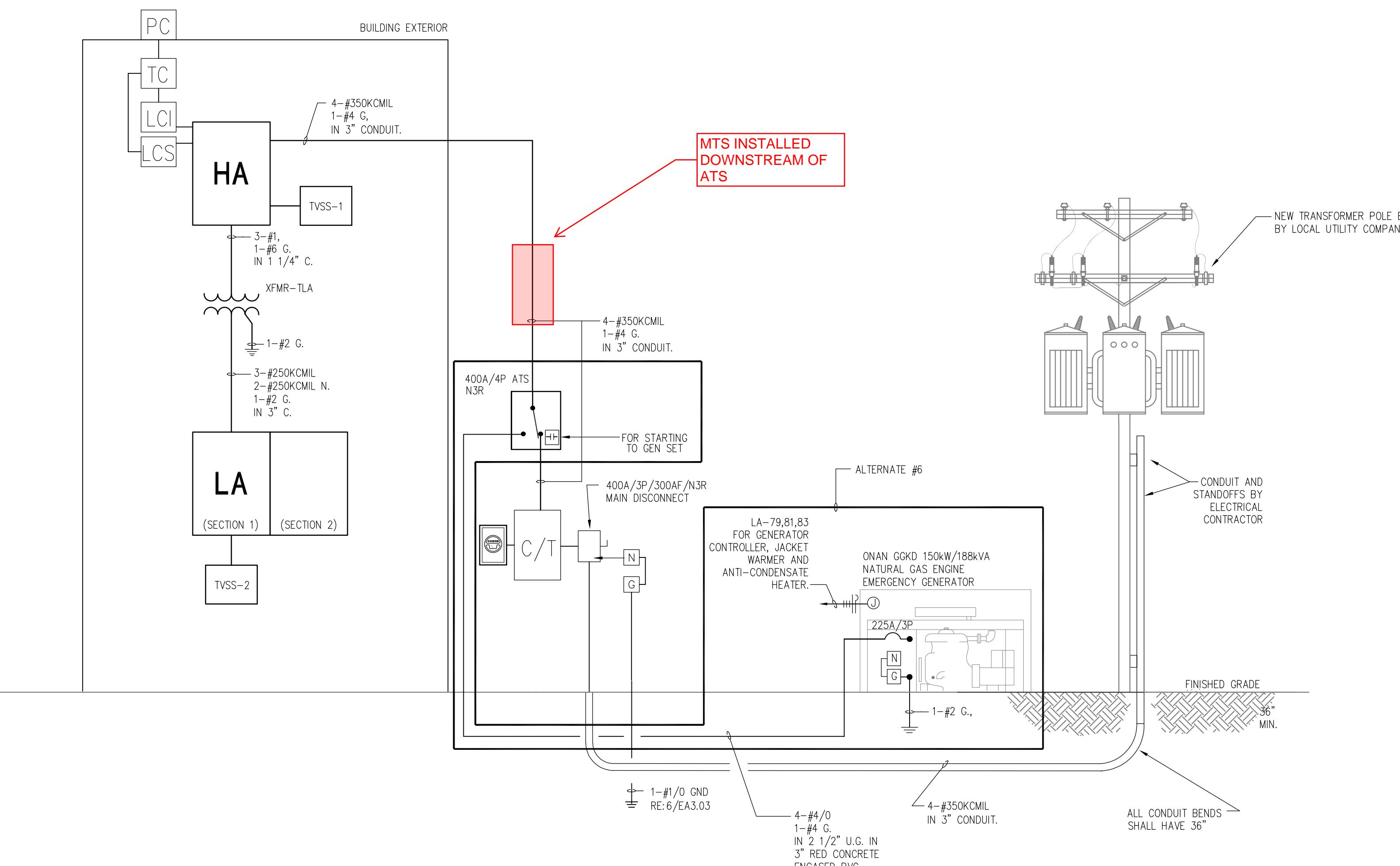
ELECTRICAL KEYED NOTES:

- ① OVERHEAD DOOR CONTROLLER PROVIDED BY DOOR CONTRACTOR AND INSTALLED BY DIVISION 16. REFER TO MANUFACTURE'S REQUIREMENTS FOR INSTALLATION. (TYPICAL)
- ② CONTRACTOR SHALL COORDINATE LOCATION OF OVERHEAD DOOR WITH EQUIPMENT MANUFACTURER. (TYPICAL)
- ③ JUNCTION BOX FOR CONNECTION OF VENT HOOD. COORDINATE EXACT HEIGHT WITH MILLWORK AND EQUIPMENT MANUFACTURERS INSTALLATION INSTRUCTIONS PRIOR TO ROUGH-IN.
- ④ PROVIDE 4'X8'X3/4" FIRE RATED PLYWOOD PAINTED TO MATCH WALL TELEPHONE BOARD.
- ⑤ PROVIDE J-BOX ABOVE CEILING FOR PROJECTOR LOCATION. COORDINATE EXACT LOCATION WITH OWNER/ARCHITECT PRIOR TO ROUGH-IN.
- ⑥ PROVIDE CORD REEL WITH 120V DUPLEX RECEPTACLE AT THIS LOCATION. RE:10/E.3.01 FOR ADDITIONAL INFORMATION.
- ⑦ APPROXIMATE LOCATION OF FUSED SERVICE DISCONNECT, C/T CABINET AND POWER COMPANY METER.
- ⑧ APPROXIMATE LOCATION OF AUTOMATIC TRANSFER SWITCH ATS-1 UNDER ALTERNATE #6.
- ⑨ PROPOSED LOCATION OF GENERATOR ANNUNCIATOR PANEL.
- ⑩ MOUNT RECEPTACLE AND DATA DROP HIGH ON WALL FOR CONNECTION OF TIME CLOCK. COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.

DATE
6/01/06

PROJECT NO.
05015

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1
E3.01

ELECTRICAL ONE LINE AND SCHEDULES

NOT TO SCALE

FIRE STATION #12 LIGHT FIXTURE SCHEDULE					
TYPE	MANUFACTURER	MOUNTING	LAMPS	VOLTS	REMARKS
A1	LIGHTOLIER #SPS2GFSVA332-277-HI	RECESSED	(3) F032/835/XP/ECO	277	2'x4' LINEAR FLUORESCENT RECESSED LIGHT FIXTURE WITH (1) 1 LAMP AND (1) 2 LAMP. PROGRAM START BALLAST RATED AT 10% OR LESS THD
A2	LIGHTOLIER #SPS2GFSVA232-277-HI	RECESSED	(2) F032/835/XP/ECO	277	2'x4' LINEAR FLUORESCENT RECESSED LIGHT FIXTURE WITH (1) 2 LAMP. PROGRAM START BALLAST RATED AT 10% OR LESS THD
A3	LIGHTOLIER #SPS2GFSVA332-277-H3-3G	RECESSED	(3) F032/835/XP/ECO	277	2'x4' LINEAR FLUORESCENT RECESSED LIGHT FIXTURE WITH (1) 3 LAMP. PROGRAM START BALLAST RATED AT 10% OR LESS THD
B1	LIGHTOLIER #TF4A232-277-HI	PENDANT	(2) F032/835/XP/ECO	277	4' LINEAR FLUORESCENT INDUSTRIAL STRIP FIXTURE WITH 15% UP LIGHT. PROVIDE CHAIN HANGER KIT #AH5 CSP AND WIRE GUARD KIT #AWG5W CSP. PROVIDE (1) 2 LAMP PROGRAM START BALLAST
B2	LIGHTOLIER #JS4A232-277-HI	PENDANT	(2) F032/835/XP/ECO	277	4' LINEAR FLUORESCENT LENSED FIXTURE WITH (1) 2 LAMP PROGRAM START BALLAST
B3	LIGHTOLIER #STBWA254-277-PV-EM	PENDANT	(4) F032/835/XP/ECO	277	8' LINEAR FLUORESCENT WET LOCATION LISTED FIXTURE WITH REINFORCED POLYESTER FIBERGLASS HOUSING AND HIGH IMPACT DR ACRYLIC LENS. PROVIDE (1) 4 LAMP PROGRAM START BALLAST.
C	LIGHTOLIER #SPS2GFSVA26U-277-HI	RECESSED	(2) FB032/835XP/6	277	2'x2' FLUORESCENT LIGHT FIXTURE WITH .125" THICK ACRYLIC LENS
D1	LIGHTOLIER #0098DVWH-8242UV	RECESSED	(2) CF32DT/E/IN/835	277	9" DIAMETER VANDAL RESISTANT, WET LOCATION LISTED DROP LENS FIXTURE
D2	LIGHTOLIER #0098VWH-8242UV	RECESSED	(2) CF32DT/E/IN/835	277	9" DIAMETER VANDAL RESISTANT, WET LOCATION LISTED FLUSH LENS FIXTURE
F	QUALITY LIGHTING #FL32-5X4-MH-400-BK277-YBSF-FD-BLS	GRADE	(1) MS400/HOR	277	GROUND MOUNTED FLAG POLE SPOT LIGHT. CONTRACTOR SHALL PROVIDE 2" PIPE BURIED IN GROUND FOR MOUNTING OF YOKE BRACKET
G	KENALL #H1121D-C-DB-32P-2-277	SURFACE	(2) CF32DT/E/IN/835	277	12" SQUARE, WET LOCATION LISTED HIGH ABUSE LIGHT FIXTURE
J	QUALITY LIGHTING #PDM24-4-MH250-SL-277-CWB-187C-FD	WALL	(1) 250W MH	277	POLE MOUNTED HID LIGHT FIXTURE WITH SQUARE THROW/DISTRIBUTION. PROVIDE A 20 FOOT POLE KW#SP20-5.0-7-BR2-DW10 ON A 2'-6" BASE. VERIFY FINISH WITH ARCHITECT PRIOR TO ORDERING
S1	QUALITY LIGHTING #PDM24-S-MH400-SL-480-SA-187C-FD	POLE	(1) MS400/HOR/BT28	480	
X1	EMERGI-LITE #WW-SVXN-1-R	SURFACE	L.E.D. SUPPLIED	277	SURVIVALL SERIES, SINGLE FACE, NEMA 4X, EXIT SIGN. KNOCK OUT CHEVRONS AS INDICATED ON DRAWINGS
X2	EMERGI-LITE #WW-SVXN-2-R	SURFACE	L.E.D. SUPPLIED	277	SURVIVALL SERIES, DOUBLE FACE, NEMA 4X, EXIT SIGN. KNOCK OUT CHEVRONS AS INDICATED ON DRAWINGS

TVSS SCHEDULE			
MARK	MANUFACTURER	MODEL	LIEBERT ACCUGUIDE CABLE SIZE
TVSS 1	LIEBERT	AI-277Y-111	5#10, 1 1/2" C.
TVSS 2	LIEBERT	AI-120Y-111	5#10, 1 1/2" C.

TRANSFORMER SCHEDULE			
MARK	KVA	PRIMARY	SECONDARY
TLA	75	480V, 3PH	208Y/120V, 3PH, 4W
			PAD

FIRE STATION #12 - LOAD ANALYSIS			
480 / 277 , 3 -PHASE 4 -WIRE		Date: 6/26/2006	
DESCRIPTION	NEC	KVA	
LIGHTING:			
INTERIOR =	✓	8,903 S.F. X 3.5 W/S.F. X 125%	220-10(b)
EXTERIOR =		3,000 VA X 125%	220-10(b)
POWER:			
RECEPTACLES =	✓	8,903 S.F. X 1.0 W/S.F.	220-13
MISCELLANEOUS =		8,903 S.F. X 3.0 W/S.F.	26.7
		QUANTITY	
KITCHEN =		17,339 VA 6 65%	220-20
			11.3
HVAC:			
COOLING =		29,998 VA	220-21
HEATING =		9,000 VA	220-21
FANS =		8,902 VA	220-21
25% LARGEST MOTOR =		7,063 VA	220-14
PLUMBING:			
WATER HEATER =		18,000 VA	18.0
DRINKING FOUNTAIN =		3,000 VA	3.0
CIRCULATING PUMP =		500 VA	0.5
		TOTAL =	157.0
		TOTAL AMPS:	188.9
		SERVICE SIZE:	400.0
		SPARE AMPACITY:	211.1
SQUARE FOOTAGE = 8,903			

9/18/06 ISSUED FOR 100% REVIEW
11/17/06 CONSTRUCTION DOCUMENTS FOR ISSUE

NEW FIRE STATION #12
Cy-Fair Volunteer Fire Department
Harris County Emergency Services District No. 9

DATE
6/01/06
PROJECT NO.
05015

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