SYMBOLS & ABBREVIATIONS SCHEDULE

RECEPTACLES

LP2,12 — DUPLEX RECEPTACLE OUTLET, 18" A.F.F., 20AMP COMMERCIAL GRADE GROUNDING TYPE WITH MATCHING COVERPLATE. TAG INDICATES PANELBOARD & BRANCH CIRCUIT THAT IT IS CONNECTED TO.

LP2,12 — GFCI RECEPTACLE OUTLET, 18" A.F.F., 20AMP COMMERCIAL GRADE GROUNDING TYPE WITH MATCHING COVERPLATE. TAG INDICATES PANELBOARD & BRANCH CIRCUIT THAT IT IS CONNECTED TO.

LP2,12 — INDICATES (2) 20 AMP, COMMERCIAL GRADE RECEPTACLES IN 2-GANG BOX UNDER A COMMON MATCHING COVERPLATE. RECEPTACLES SHALL BE GROUNDING TYPE. TAG INDICATES PANELBOARD & BRANCH CIRCUIT THAT IT IS CONNECTED TO.

LP2,10,12 — RANGE OR DRYER OUTLET VERIFY RECEPTACLE NEMA CONFIGURATION, RATING & INSTALLATION HEIGHT WITH SELECTED EQUIPMENT SUPPLIER. TAG INDICATES PANELBOARD & BRANCH CIRCUIT THAT IT IS CONNECTED TO. COVER PLATES SHALL BE STAINLESS STEEL.

LP2,12 — SPECIAL PURPOSE RECEPTACLE AS CALLED FOR ON DRAWINGS OR AS REQUIRED BY EQUIPMENT MANUFACTURER. VERIFY NEMA CONFIGURATION. TAG INDICATES PANELBOARD & BRANCH CIRCUIT THAT IT IS CONNECTED TO.

LP2,12 — FLOOR MOUNTED RECEPTACLE AS CALLED FOR ON DRAWINGS OR AS REQUIRED BY EQUIPMENT MANUFACTURER. UNLESS OTHERWISE NOTED, PROVIDE RECESSED IN CONCRETE WITH A METAL COVER. TAG INDICATES PANELBOARD & BRANCH CIRCUIT THAT IT IS CONNECTED TO.

SURFACE MOUNTED WIREMOLD TYPE RACEWAY. PROVIDE LENGTH AS INDICATED ON DRAWINGS WITH A MANUFACTURER STANDARD OUTLET SPACING.

FB1 — COMBINATION FLOOR BOX, PROVIDE POURED CONCRETE BACKBOX WITH METAL COVERPLATE. PROVIDE WITH SEPARATE POWER & DATA COMPARTMENTS. PROVIDE (2) DUPLEX RECEPTACLES & (2) DATA PORTS.

POWER

J — WALL MOUNTED JUNCTION BOX, SIZE AS INDICATED OR PROVIDE MINIMUM SIZE REQUIRED BY LATEST EDITION OF NATIONAL ELECTRICAL CODE (NFPA 70-NEC).

J — CEILING MOUNTED JUNCTION BOX, SIZE AS INDICATED OR PROVIDE MINIMUM SIZE REQUIRED BY LATEST EDITION OF NATIONAL ELECTRICAL CODE (NFPA 70-NEC).

PROVIDE COMPLETE ELECTRICAL CONNECTION TO EQUIPMENT INDICATED (INCLUDING DISCONNECT, CONDUCTORS, RACEWAY, & OTHER REQUIRED HARDWARE. XX-X INDICATES EQUIPMENT TAG. REFER TO MECHANICAL EQUIPMENT SCHEDULE FOR ADDITIONAL INFORMATION.

EMERGENCY POWER OFF BUTTON (EPO). PROVIDE WHERE INDICATED ON DRAWINGS. PROVIDE ALL REQUIRED INTERFACES AS CALLED FOR ON DRAWINGS OR REQUIRED BY EQUIPMENT MANUFACTURER.

TYPICAL WALL — ELECTRICAL PANELBOARD, SURFACE MOUNTED. UNLESS OTHERWISE NOTED, INSTALL AT 72" A.F.F. TO THE TOP OF THE BOX.

TYPICAL WALL — ELECTRICAL PANELBOARD, FLUSH MOUNTED. UNLESS OTHERWISE NOTED, INSTALL AT 72" A.F.F. TO THE TOP OF THE BOX.

ELECTRICAL PIECE OF EQUIPMENT. REFER TO DRAWINGS FOR ADDITIONAL INFORMATION.

LIGHTING

T42,a,13 — LUMINAIRE (RECESSED). REFER TO LUMINAIRE SCHEDULE FOR ADDTIONAL INFORMATION. UPPERCASE LETTER INDICATES TYPE IN LUMINAIRE SCHEDULE, LOWERCASE LETTER INDICATES TYPE OF SWITCHED LEG, NUMBER INDICATES CIRCUIT IN PANELBOARD

S42,b,12 — LUMINAIRE (SURFACE OR PENDANT MOUNTED). REFER TO LUMINAIRE SCHEDULE FOR ADDTIONAL INFORMATION. UPPERCASE LETTER INDICATES TYPE IN LUMINAIRE SCHEDULE, LOWERCASE LETTER INDICATES TYPE OF SWITCHED LEG, NUMBER INDICATES CIRCUIT IN PANELBOARD

A8 c 17 — COMPACT FLUORESCENT, HID, OR INCANDESCENT DOWNLIGHT. REFER TO LUMINAIRE SCHEDULE FOR ADDTIONAL INFORMATION. UPPERCASE LETTER INDICATES TYPE IN LUMINAIRE SCHEDULE, LOWERCASE LETTER INDICATES TYPE OF SWITCHED LEG, NUMBER INDICATES CIRCUIT IN PANELBOARD

AW8 d 19 — COMPACT FLUORESCENT, HID, OR INCANDESCENT WALLWASHER. REFER TO LUMINAIRE SCHEDULE FOR ADDTIONAL INFORMATION. UPPERCASE LETTER INDICATES TYPE IN LUMINAIRE SCHEDULE, LOWERCASE LETTER INDICATES TYPE OF SWITCHED LEG, NUMBER INDICATES CIRCUIT IN PANELBOARD

EM — PROVIDE LUMINAIRE AS INDICATED. LUMINAIRES SHALL BE CONNECTED EMERGENCY CIRCUIT OR PROVIDED WITH EMERGENCY BATTERY BACKUP BALLAST. REFER TO LUMINAIRE SCHEDULE FOR ADDITIONAL INFORMATION.

K$ III abc — WALL SWITCH, ROMAN NUMERAL INDICATES NUMBER OF SWITCHES GANGED UNDER ONE COVERPLATE. LOWER CASE LETTERS INDICATE SWITCHING. "K" INDICATES KEYED SWITCH. PROVIDE WITH MATCHING COVERPLATES

WALL MOUNTED DIMMER CONTROLLER DESIGNED & MANUFACTURED FOR LIGHTING THAT IT IS CONTROLLING (INCANDESCENT OR FLUORESCENT).

OS — LOW VOLTAGE CEILING MOUNTED OCCUPANCY SENSOR WITH DUAL TECHNOLOGY SENSING & 360° VIEW CAPABILITY. PROVIDE COMPLETE WITH ALL REQUIRED RELAYS & WIRING AS REQUIRED BY SELECTED EQUIPMENT MANUFACTURER.

OS — WALL MOUNTED OCCUPANCY SENSOR TYPE SWITCH.

PC — PHOTOCELL. PROVIDE COMPLETE WITH ALL REQUIRED MOUNTING HARDWARE & INTERCONNECTION TO CONTROLLER AS SPECIFIED.

VS — LOW VOLTAGE CEILING MOUNTED VACANCY SENSOR (MANUAL ON, AUTO OFF) WITH DUAL TECHNOLOGY SENSING & 360° VIEW CAPABILITY. PROVIDE COMPLETE WITH ALL REQUIRED RELAYS & WIRING AS REQUIRED BY SELECTED EQUIPMENT MANUFACTURER.

LCR — LIGHTING ROOM CONTROLLER. PART OF DIGITAL LIGHTING CONTROL SYSTEM. PROVIDE 2-RELAY MINIMUM. REFER TO FLOOR PLANS LOCATIONS WHERE BI-LEVEL SWITCHING IS REQUIRED.

ELCU — EMERGENCY LIGHTING CONTROL UNIT. PART OF DIGITAL LIGHTING CONTROL SYSTEM. DEVICE SHALL ALLOW FOR CONTROL OF EMERGENCY LUMINAIRES OPERABLE DURING NORMAL STATE. UL 924 LISTED.

EXIT SIGN (LED TYPE), SHALL BE EITHER WITH BATTERY BACKUP OR CONNECTED TO EMERGENCY LIGHTING CIRCUIT. REFER TO LUMINAIRE SCHEDULE FOR ADDITIONAL INFORMATION. VERIFY SHEVRON DIRECTION IN FIELD, PROVIDE AS REQUIRED. BATTERY CAPACITY SHALL MEET OR EXCEED MINIMUM OPERATION TIME REQUIRED BY CODE.

TYPICAL SITE LUMINAIRE (EXACT SYMBOL MAY VARY). SHALL INCLUDE LUMINAIRE HEAD, POLE, & CONCRETE BASE. REFER TO LUMINAIRE SCHEDULE & SITE LIGHTING PLAN FOR ADDITIONAL INFORMATION.

FIRE ALARM

FIRE ALARM SYSTEM SMOKE SENSOR. (CEILING MOUNTED) PROVIDE & INSTALL ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER.

FIRE ALARM SYSTEM HEAT DETECTOR. UNLESS OTHERWISE NOTED, PROVIDE COMBINATION FIXED (135°F) & RATE-OF-RISE (15° PER MINUTE) TYPE DEVICE. PROVIDE & INSTALL ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER.

F 190°F — FIRE ALARM SYSTEM HEAT DETECTOR. PROVIDE WITH FIXED TEMPERATURE SENSING ELEMENT (190°F OR AS OTHERWISE NOTED). PROVIDE & INSTALL ALL REQUIRED WIRING AS BY SELECTED MANUFACTURER.

CO — FIRE ALARM SYSTEM CARBON MONOXIDE DETECTOR. PROVIDE & INSTALL ALL REQUIRED WIRING AS BY SELECTED MANUFACTURER.

FIRE ALARM SYSTEM DUCT DETECTOR. PROVIDE COMPLETE INSTALLATION INCLUDING SAMPLING TUBES EXTENDING THE FULL WIDTH OF DUCT. PROVIDE & INSTALL ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER.

TS — FIRE ALARM SYSTEM REMOTE TEST STATION. PROVIDE WHERE INDICATED ON DRAWING & INTERFACE WITH DETECTION DEVICE INDICATED. PROVIDE & INSTALL ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER.

F — FIRE ALARM SYSTEM MANUAL PULL STATION. PROVIDE COMPLETE INSTALLATION INCLUDING SAMPLING TUBES EXTENDING THE FULL WIDTH OF DUCT. PROVIDE & INSTALL ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER.

FIRE ALARM SYSTEM WATER FLOW SWITCH. PROVIDE COMPLETE INTERFACE BETWEEN FLOW SWITCH & FIRE ALARM CONTROL PANEL. PROVIDE & INSTALL ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER.

FIRE ALARM SYSTEM TAMPER SWITCH. PROVIDE COMPLETE INTERFACE BETWEEN TAMPER SWITCH & FIRE ALARM CONTROL PANEL. PROVIDE & INSTALL ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER.

XXXcd — FIRE ALARM SYSTEM AUDIO/VISUAL NOTIFICATION APPLIANCE (WALL MOUNTED BETWEEN 80" TO 96", INSTALL NOT CLOSER THEN 6" TO THE FINISHED CEILING). PROVIDE & INSTALL ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER. UNLESS OTHERWISE NOTED, PROVIDE 15cd VISUAL DEVICE.

XXXcd — FIRE ALARM SYSTEM VISUAL NOTIFICATION APPLIANCE (WALL MOUNTED BETWEEN 80" TO 96", INSTALL NOT CLOSER THEN 6" TO THE FINISHED CEILING). PROVIDE & INSTALL ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER. UNLESS OTHERWISE NOTED, PROVIDE 15cd VISUAL DEVICE.

FIRE ALARM SYSTEM AUDIO NOTIFICATION APPLIANCE (WALL MOUNTED BETWEEN 80" TO 96", INSTALL NOT CLOSER THEN 6" TO THE FINISHED CEILING). PROVIDE & INSTALL ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER.

FA — FIRE ALARM SYSTEM WATER FLOW ALARM INTERFACE. PROVIDE COMPLETE ELECTRICAL INTERFACE TO ALARM (PROVIDED & INSTALLED BY SPRINKLER CONTRACTOR, WIRED BY ELECTRICAL CONTRACTOR). PROVIDE & INSTALL ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER.

ZAM — FIRE ALARM SYSTEM ZONE ADDRESSABLE MODULE. PROVIDE WHERE REQUIRED PER SPECS/DETAILS. PROVIDE & INSTALL ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER.

CZAM — FIRE ALARM SYSTEM CONTROLLABLE ZONE ADDRESSABLE MODULE. PROVIDE WHERE REQUIRED PER SPECS/DETAILS. PROVIDE & INSTALL ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER.

IAM — FIRE ALARM SYSTEM INDIVIDUAL ADDRESSABLE MODULE. PROVIDE WHERE REQUIRED PER SPECS/DETAILS. PROVIDE & INSTALL ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER.

FSR — FIRE ALARM SYSTEM FAN SHUT-DOWN RELAY. PROVIDE WHERE REQUIRED PER SPECS/DETAILS. CONTACT RATING SHALL MATCH FAN MOTOR FEEDER RATING. PROVIDE & INSTALL ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER.

ISO — FIRE ALARM SYSTEM ISOLATION MODULE. PROVIDE WHERE REQUIRED PER SPECS/DETAILS. INSTALL EVERY 25TH INITIATING DEVICE ON SLC LOOP. PROVIDE & INSTALL ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER.

FACP — TYPICAL FIRE ALARM CONTROL PANEL. SURFACE OR FLUSH MOUNTED. PROVIDE WHERE INDICATED ON FLOOR PLANS. INSTALL APPROXIMATELY 72" A.F.F. TO TOP OF BOX. PROVIDE DEDICATED 120VAC, 20A/1P CIRCUIT & INSTALL ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER.

NACP — FIRE ALARM NOTIFICATION APPLIANCE CONTROL PANEL (POWER SUPPLY). PROVIDE WHERE INDICATED ON FLOOR PLANS. INSTALL APPROXIMATELY 72" A.F.F. TO TOP OF BOX. PROVIDE DEDICATED 120VAC, 20A/1P CIRCUIT & INSTALL ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER.

R.A. — FIRE ALARM SYSTEM REMOTE ANNUNCIATOR PANEL. PROVIDE WHERE INDICATED ON FLOOR PLANS. INSTALL APPROXIMATELY 72" A.F.F. TO TOP OF BOX. PROVIDE INTERFACE TO FACP & INSTALL ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER.

DATA (SYSTEMS)

DATA DROP LOCATION, UNLESS OTHERWISE NOTED, PROVIDE MINIMUM OF (2) DROPS, INSTALL 18" A.F.F., EXTENSION RING & ASSOCIATED JACKS. PROVIDE 3/4" EMT CONDUIT TO NEAREST ACCESSIBLE CEILING SPACE. PROVIDE WITH COVERPLATE.

TELEPHONE DROP LOCATION, UNLESS OTHERWISE NOTED INSTALL 18" A.F.F., EXTENSION RING & ASSOCIATED JACK. PROVIDE 3/4" EMT CONDUIT TO NEAREST ACCESSIBLE CEILING SPACE. PROVIDE WITH COVERPLATE.

COMBINATION DATA & TELEPHONE DROP LOCATION, UNLESS OTHERWISE NOTED, PROVIDE MINIMUM OF (2) DATA DROPS & (1) VOICE DROP, INSTALL 18" A.F.F., EXTENSION RING & ASSOCIATED JACK. PROVIDE 3/4" EMT CONDUIT TO NEAREST ACCESSIBLE CEILING SPACE. PROVIDE WITH COVERPLATE.

TV — TELEVISION CONNECTION DROP (COAX CABLE & DATA DROP), VERIFY FINAL LOCATION PRIOR TO INSTALLATION. PROVIDE WITH DUPLEX RECEPTACLE UNDER THE SAME COVERPLATE.

WIRELESS ACCESS POINT, CEILING MOUNTED. PROVIDE DATA CONNECTION & ALL REQUIRED WIRING FOR COMPLETE INSTALLATION. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

PUBLIC ADDRESS & SOUND SYSTEM

SP — SPEAKER, WALL MOUNTED. SHALL INCLUDE ALL REQUIRED ELECTRICAL WORK INCLUDING BACKBOX & ALL REQUIRED WIRING AS REQUIRED BY AUDIO SYSTEM MANUFACTURER.

SP — HORN TYPE, WALL MOUNTED. SHALL INCLUDE ALL REQUIRED ELECTRICAL WORK INCLUDING BACKBOX & ALL REQUIRED WIRING AS REQUIRED BY AUDIO SYSTEM MANUFACTURER.

SP — SPEAKER, CEILING MOUNTED. SHALL INCLUDE ALL REQUIRED ELECTRICAL WORK INCLUDING BACKBOX & ALL REQUIRED WIRING AS REQUIRED BY AUDIO SYSTEM MANUFACTURER.

VC — VOLUME CONTROL, WALL MOUNTED. SHALL INCLUDE ALL REQUIRED ELECTRICAL WORK INCLUDING BACKBOX & ALL WIRING AS REQUIRED BY AUDIO SYSTEM MANUFACTURER.

AM — AMPBIENT SENSING MICROPHONE, COORDINATE EXACT LOCATION. SHALL INCLUDE ALL REQUIRED ELECTRICAL WORK INCLUDING BACKBOX & ALL WIRING AS REQUIRED BY AUDIO SYSTEM MANUFACTURER.

ICM — INTERCOM STATION

SECURITY & ACCESS CONTROL (SYSTEMS)

CCTV CAMERA, VERIFY FINAL LOCATION PRIOR TO INSTALLATION. SHALL INCLUDE ALL REQUIRED ELECTRICAL WORK INCLUDING BACKBOX, MOUNTING HARDWARE, & ALL WIRING AS REQUIRED BY SECURITY SYSTEM MANUFACTURER. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

CR — CARD READER, VERIFY FINAL LOCATION PRIOR TO INSTALLATION. SHALL INCLUDE ALL REQUIRED ELECTRICAL WORK INCLUDING BACKBOX & ALL WIRING AS REQUIRED BY SECURITY SYSTEM MANUFACTURER.

DR — DOOR RELEASE CONNECTION TO DOOR HARDWARE, VERIFY FINAL LOCATION PRIOR TO INSTALLATION. SHALL INCLUDE ALL REQUIRED ELECTRICAL WORK & ALL WIRING AS REQUIRED BY SECURITY SYSTEM MANUFACTURER.

KP — KEYPAD STATION, VERIFY FINAL LOCATION PRIOR TO INSTALLATION. SHALL INCLUDE ALL REQUIRED ELECTRICAL WORK INCLUDING BACKBOX & ALL WIRING AS REQUIRED BY SECURITY SYSTEM MANUFACTURER.

WC — WINDOW CONTACT, VERIFY FINAL LOCATION PRIOR TO INSTALLATION. SHALL INCLUDE ALL REQUIRED ELECTRICAL WORK & ALL WIRING AS REQUIRED BY SECURITY SYSTEM MANUFACTURER.

DC — DOOR CONTACT, VERIFY FINAL LOCATION PRIOR TO INSTALLATION. SHALL INCLUDE ALL REQUIRED ELECTRICAL WORK & ALL WIRING AS REQUIRED BY SECURITY SYSTEM MANUFACTURER.

MOTION SENSOR, SURFACE MOUNTED, VERIFY FINAL LOCATION PRIOR TO INSTALLATION. SHALL INCLUDE ALL REQUIRED ELECTRICAL WORK & ALL WIRING AS REQUIRED BY SECURITY SYSTEM MANUFACTURER.

GBS — GLASS BREAK SENSOR AND ALL REQUIRED ELECTRICAL WORK AND ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER.

CONDUIT SYSTEM SCHEDULE

LOCATION	CONDITION 1	CONDITION 2	CONDUIT TYPE	SIZE (MINIMUM)
UNDER-GROUND	CONCRETE ENCASED	BENDS, OVER 10 DEGREES	RGS	1"
		CONUIT RISERS	RGS	1"
		CONDUITS WITHIN 6-INCHES OF EXIT FROM ENCASEMENT	RGS	1"
		OTHER	AS INDICATED ON THE DRAWINGS	1"
	DIRECT BURIAL	CLASSIFIED (HAZARDOUS AREAS)	RGS	1"
		OTHER	SCHEDULE 40	1"
ABOVE-GROUND	OUTSIDE	WET LOCATIONS	RGS	3/4"
		OTHER	RGS	3/4"
	INSIDE	WITHIN 6-INCHES OF FLOOR	RGS	3/4"
		CONCEALED IN STUD WALLS IN ADMINISTRATION PART OF THE BUILDING	EMT	3/4"
		CONCEALED IN MASONRY WALLS OF ADMINISTRATION PART OF THE BUILDING	RGS	3/4"
		CONCEALED ABOVE ACT OR GWB CEILING IN ADMINISTRATION PART OF THE BUILDING	EMT	3/4"
		EXPOSED IN ADMINISTRATION BUILDING	EMT	3/4"
		CONCEALED IN STUD WALLS OF MAINTENANCE PART OF THE BUILDING	EMT	3/4"
		CONCEALED IN MASONARY WALLS OF MAINTENANCE PART OF THE BUILDING	RGS	3/4"
		CONCEALED ABOVE ACT OR GWB CEILING IN MAINTENANCE PART OF THE BUILDING	EMT	3/4"
		RECESSED MOUNTED LIGHTING FIXTURES	FMC OR LTFMC	3/4"
		ROTATING OR VIBRATING EQUIPMENT	FMC OR LTFMC	3/4"
		SERVICE LANE S2 WASH AREA	RGS	3/4"
		CHASSIS WASH ROOM M1 SERVICE LANE S2 FUELING AREA	RGS WITHIN 10'-0" OF FINISHED FLOOR	3/4"
		OTHER	RGS	3/4"
CLASSIFIED (HAZARDOUS AREAS)	INSIDE AND OUTSIDE		RGS	3/4"

GENERAL NOTES: (FOR ALL DRAWINGS)

A. THE DRAWINGS ARE DIAGRAMMATIC & INDICATE GENERALLY THE LOCATIONS OF THE MATERIAL & EQUIPMENT. THESE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS POSSIBLE.

B. MINOR DETAILS NOT USUALLY SHOWN OR SPECIFIED, BUT NECESSARY FOR PROPER INSTALLATION & OPERATION, SHALL BE INCLUDED IN THE CONTRACTOR'S BID, THE SAME AS IF HEREIN SPECIFIED OR SHOWN.

C. ALL MATERIAL & INSTALLATION SHALL BE IN ACCORDANCE WITH LATEST EDITION OF THE NATIONAL ELECTRIC CODE, LATEST EDITION OF LOCAL CODES, & ORDINANCES.

D. ALL CONDUITS ON EXPOSED WORK SHALL BE RUN AT RIGHT ANGLES TO, & PARALLEL WITH, THE SURROUNDING WALL & SHALL CONFORM TO THE FORM OF THE CEILING. NO DIAGONAL RUNS WILL BE ALLOWED. BENDS IN PARALLEL CONDUIT RUNS SHALL BE CONCENTRIC. ALL CONDUIT SHALL RUN PERFECTLY STRAIGHT & TRUE.

E. ALL CONDUIT RUNS ARE TO BE CONCEALED IN WALLS, CEILINGS, OR IN THE SLAB. CONTRACTOR SHALL COORDINATE CONDUIT INSTALLATION DURING BUILDING CONSTRUCTION WITH OTHER TRADES. RUN SURFACE RACEWAY ONLY WHERE CALLED FOR OR SHOWN ON THE DRAWINGS. EXPOSED CONDUIT SHALL ONLY BE INSTALLED WHERE MEANS OF CONCEALING DOES NOT EXIST. CONTRACTOR IS TO NOTIFY ENGINEER & GET OWNERS APPROVAL PRIOR TO RUNNING EXPOSED CONDUITS.

F. A MAXIMUM OF (3) CIRCUITS CAN BE GROUPED TOGETHER IN A HOMERUN CONDUIT. EACH CIRCUIT SHALL HAVE SEPARATE NEUTRAL, GROUPING OF NEUTRALS SHALL NOT BE ACCEPTABLE. EACH CIRCUIT SHALL ALSO HAVE A GROUND WIRE SIZED PER NEC. USING CONDUIT, OR MC CABLE AS GROUND PATH SHALL NOT BE ACCEPTABLE. CABLE MUST BE SUPPORTED PER NEC, GROUPING OF GROUND WIRES [(1) GROUND PER (3) CIRCUITS] IS ACCEPTABLE. MAXIMUM 6' LENGTH OF MC CABLE ALLOWED FOR A WHIP CONNECTION TO LUMINAIRE ONLY.

G. COORDINATE ALL LUMINAIRE & CEILING MOUNTED EQUIPMENT LOCATIONS & MOUNTING HARDWARE WITH ARCHITECTURAL CEILING PLANS PRIOR TO CONSTRUCTION.

H. THE CONTRACTOR IS RESPONSIBLE FOR ALL REQUIRED COSTS FOR SEALING ALL PENETRATIONS THROUGH FIRE & SMOKE WALLS USING UL APPROVED SEALANT & METHODS.

I. ALL COMMUNICATIONS OUTLET LOCATIONS ARE DIAGRAMMATIC & MUST BE FIELD VERIFIED WITH OWNER'S FURNITURE LOCATIONS PRIOR TO CONSTRUCTION. NO EXTRA COMPENSATION WILL BE GIVEN FOR FAILURE TO VERIFY EXACT LOCATION PRIOR TO CONSTRUCTION.

J. CONTRACTOR SHALL PROVIDE INFORMATION LABELS ON ALL RECEPTACLES, PANELBOARDS, JUNCTION BOXES, WALL SWITCHES, & DISCONNECT SWITCHES. LABELS SHALL BE PHENALIC TYPE WITH BLACK BACKGROUND & WHITE ENGRAVED LETTERING. LABEL SHALL INDICATED CIRCUIT/FEEDER SOURCE & EQUIPMENT ID NAME.

K. THE CONTRACTOR IS RESPONSIBLE FOR ALL TERMINATIONS REQUIRED WITH THE CAT 6 CABLE BEING INSTALLED.

ABBREVIATIONS

WP	INDICATES WEATHERPROOF DEVICE OR EQUIPMENT
WG	INDICATES DEVICE SHALL HAVE WIRE GUARD PROTECTION
A.F.F.	ABOVE FINISHED FLOOR
A.F.G.	ABOVE FINISHED GRADE
(ETR)	EXISTING EQUIPMENT SHALL REMAIN IN PLACE
OC	OVER COUNTER (INSTALL 6" ABOVE COUNTER HEIGHT)
UC	UNDER COUNTER (INSTALL 6" BELOW THE BOTTOM OF COUNTER)
VNAC	VISUAL NOTIFICATION APPLIANCE CIRCUIT
ANAC	AUDIO NOTIFICATION APPLIANCE CIRCUIT
SLC	SIGNALING LINE CIRCUIT
ATS	AUTOMATIC TRANFER SWITCH
HP	HORSEPOWER
kW	KILOWATT
VFD	VARIABLE FREQUENCY DRIVE

GENERAL SYMBOLS NOTE:

THIS SYMBOLS & ABBREVIATIONS SCHEDULE IS FOR THE ELECTRICAL CONTRACTOR REFERENCE ONLY. NOT ALL SYMBOLS OR ABBREVIATIONS MAY APPLY TO THIS PARTICULAR PROJECT. ANY ADDITIONS OR OMMISSIONS FROM THIS SCHEDULE DOES NOT IMPLY INCLUSION AND / OR EXCLUSION OF ANY PARTICULAR ITEM FROM THE PROJECT.

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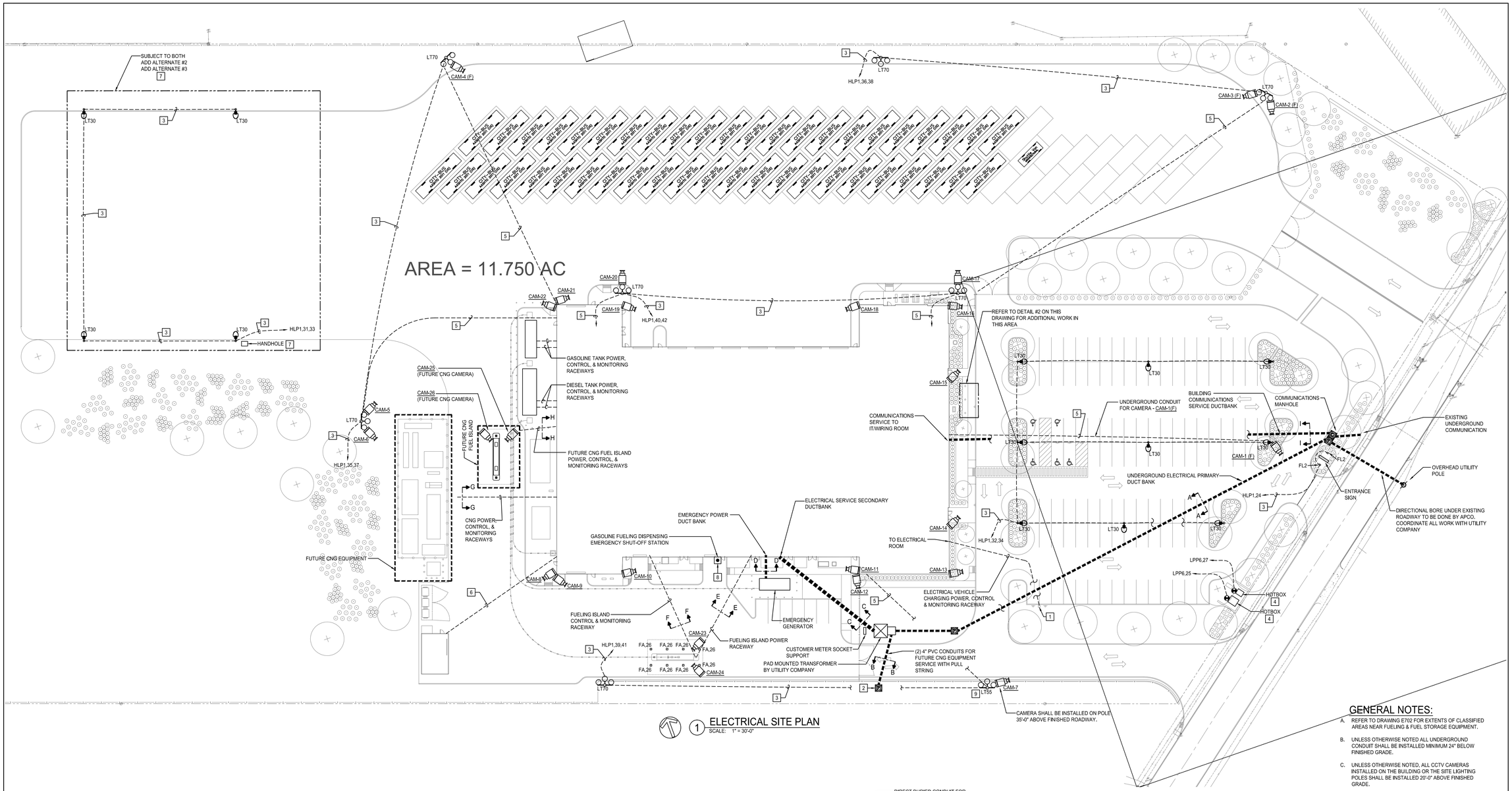
Revision Number	Issued by	Revision Description	Revision Date

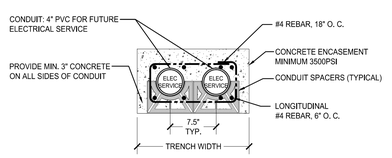
DWG. TITLE
ELECTRICAL SYMBOLS, ABBREVIATIONS, & NOTES

DATE	09/24/2014		
SCALE	AS NOTED		
DWN.	RB	CHK.	PTV
PROJ. No.	444505		
DWG. No.	E001		

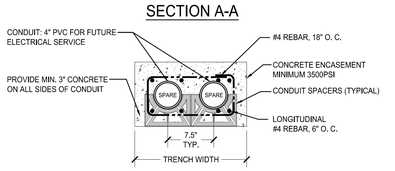
DATE/TIME PRINTED: 9/23/2014 6:16:43 PM FILEPATH: P:\444505 GLTC OM SCHEMATIC DESIGN\16. CAD\DWG\ELEC\COMPOSITE\E001



1 ELECTRICAL SITE PLAN
SCALE: 1" = 30'-0"



SECTION A-A



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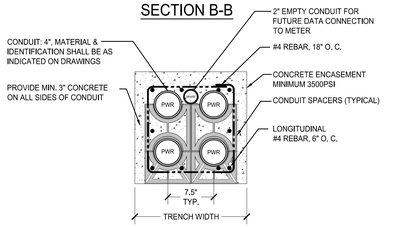

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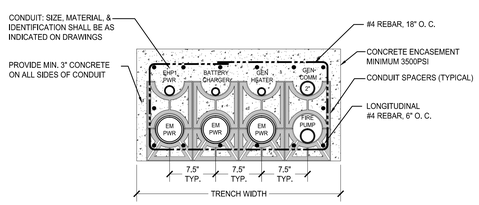


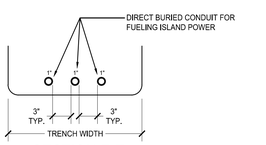
SECTION D-D

NOTES FOR ALL DUCTBANK SECTIONS:

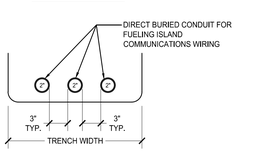
A. PROVIDE CONTINUOUS MARKER TAPE IN TRENCH BACKFILL, PER NEC 2014.

B. LEAVE PULLROPE IN ALL SPARES.

C. TIE ALL CONDUIT DOWN TO PREVENT SHIFTING DURING CONCRETE POUR.



SECTION E-E



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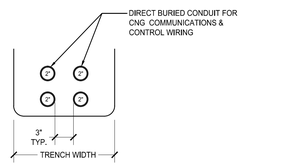

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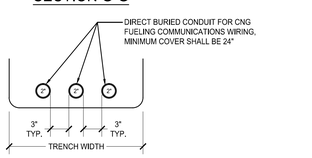

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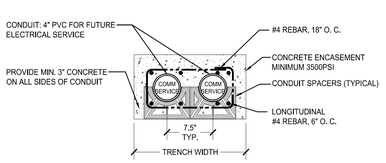

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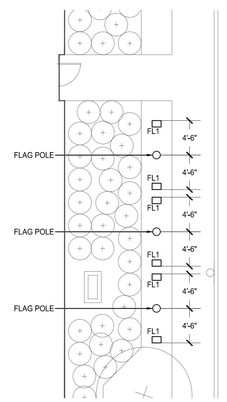

2 FLAG POLE LIGHTING DETAIL
SCALE: NONE

GENERAL NOTES:

A. REFER TO DRAWING E702 FOR EXTENTS OF CLASSIFIED AREAS NEAR FUELING & FUEL STORAGE EQUIPMENT.

B. UNLESS OTHERWISE NOTED ALL UNDERGROUND CONDUIT SHALL BE INSTALLED MINIMUM 24" BELOW FINISHED GRADE.

C. UNLESS OTHERWISE NOTED, ALL CCTV CAMERAS INSTALLED ON THE BUILDING OR THE SITE LIGHTING POLES SHALL BE INSTALLED 20'-0" ABOVE FINISHED GRADE.

X CONSTRUCTION NOTES:

1. PROVIDE DUAL PORT, LEVEL 2 PEDESTAL ELECTRIC VEHICLE CHARGING STATION. PROVIDE COMPLETE WITH CONCRETE BASE & ALL REQUIRED WIRING. PROVIDE (4) #8 AWG & #10 GND IN 1" CONDUIT TO ELECTRICAL ROOM. IN THE SAME TRENCH INSTALL DATA CONDUIT WITH (2) CAT 6 CABLES IN 1" CONDUIT. CHARGING STATION SHALL BE MANUFACTURED BY GE, MODEL # EVDRN3 OR EQUAL.
2. PROVIDE 5' x 5' x 5' MANHOLE FOR FUTURE CNG FUELING EQUIPMENT SERVICE.
3. PROVIDE (2) #8 AWG & #10 GND IN 1" PVC CONDUIT UNDERGROUND FOR SITE LIGHTING. CONNECT TO PANELBOARD AS INDICATED. PROVIDE MINIMUM 24" COVER.
4. PROVIDE 20A/1P BRANCH CIRCUIT FOR HOTBOX, INSTALL (2) #8 AWG & #10 GND IN 1" PVC CONDUIT UNDERGROUND. MAKE FINAL CONNECTION TO GFCI & HEATER LOCATED INSIDE. CONNECT TO CIRCUITS AS INDICATED.
5. PROVIDE 1" PVC CONDUIT 24" BELOW FINISHED GRADE FOR CCTV CAMERA WIRING.
6. PROVIDE (3) 1" CONDUITS UNDERGROUND MINIMUM 24" BELOW FINISHED GRADE TO BE USED FOR POWER, LIGHTING & SECURITY WIRING FOR THE STORAGE SHED. REFER TO FLOOR PLAN DRAWINGS FOR WIRING INFORMATION.
7. THE OUTLINED WORK SHALL BE PART OF BOTH ADD ALTERNATE #2 & ADD ALTERNATE #3. REFER TO DIVISION 01 SPECIFICATIONS FOR ADDITIONAL INFORMATION. AS PART OF BASE BID PROVIDE IN-GROUND HANDHOLE WHERE SHOWN & WIRING TO IT FOR FUTURE CONNECTION OF SITE LIGHTING. WIRING SHALL BE CONNECTED TO PANEL AS SHOWN.
8. GASOLINE PUMP EMERGENCY SHUT OFF SWITCH ON WALL, 48" ABOVE FINISHED GRADE. PROVIDE POWER INTEGRITY IA-ESOCAT/TTD OR EQUAL. STATION SHALL DISCONNECT ALL POWERED CONDUCTORS TO THE DISPENSER AS WELL AS ALL OF THE REMOTE PUMPING EQUIPMENT.
9. COORDINATE LIGHT POLE BASE LOCATION WITH RETAINING WALL CONSTRUCTION.

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COMMONWEALTH OF VIRGINIA
PETER T. VOMACHESKY, SR.
Reg. No. 042134
PROFESSIONAL ENGINEER

Revision Number	Issued by	Revision Description	Revision Date

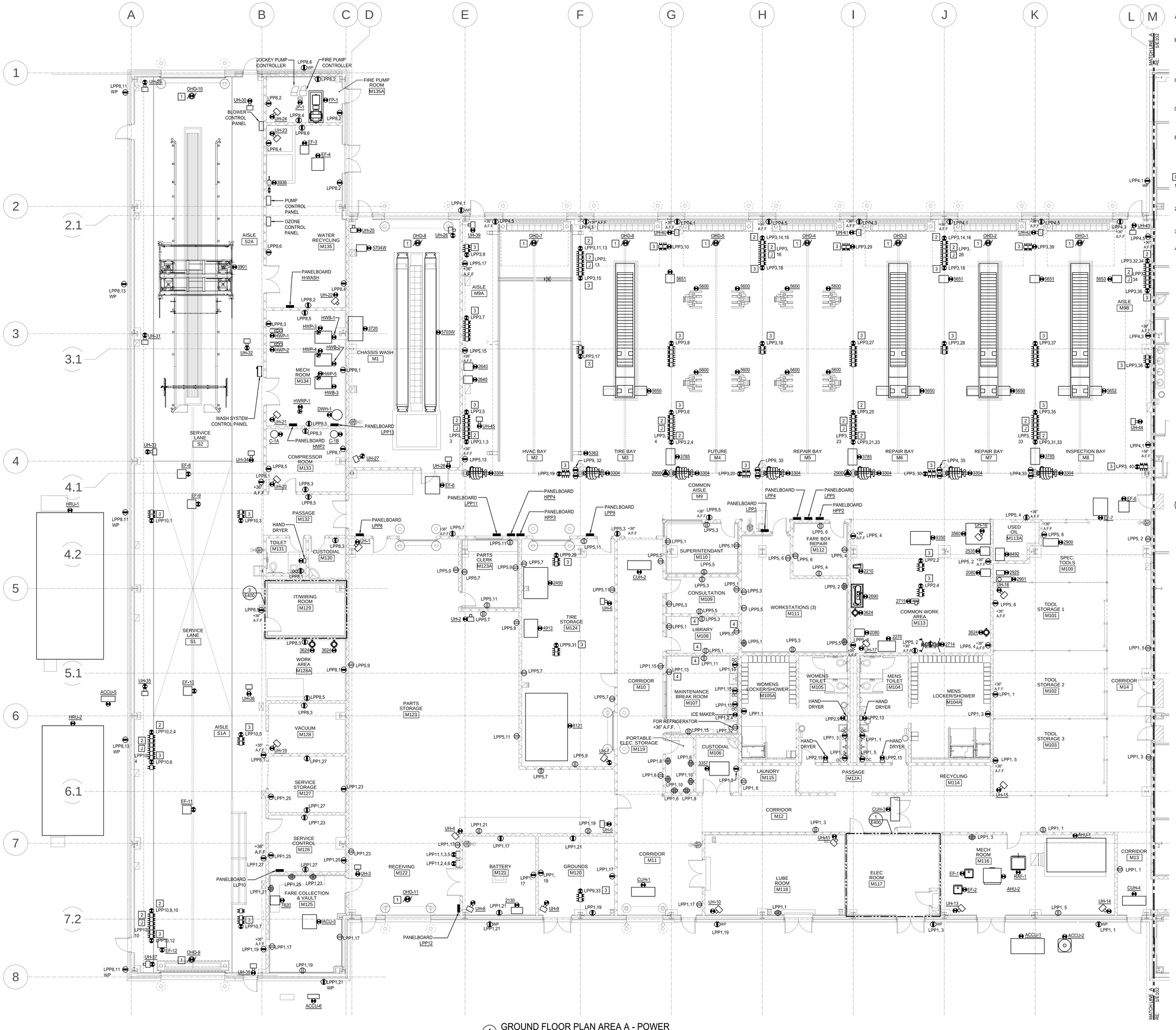
DWG. TITLE

ELECTRICAL SITE PLAN

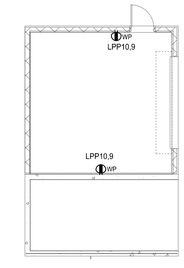
DATE	09/24/2014		
SCALE	AS NOTED		
DWN.	RB	CHK.	PTV
PROJ. No.	444505		

DWG. No.

E100



1 GROUND FLOOR PLAN AREA A - POWER
SCALE: 1/8"=1'-0"



2 STORAGE BLDG - POWER
SCALE: 1/8"=1'-0"

GENERAL NOTES:

A. REFER TO DRAWING E702 FOR ADDITIONAL INFORMATION ON THE EXTENDS OF CLASSIFIED ZONES NEAR THE CEILING.

B. UNLESS OTHERWISE NOTED ALL ELECTRICAL WORK SHALL BE INSTALLED OUTSIDE OF THE CLASSIFIED AREA. ELECTRICAL EQUIPMENT THAT IS INSTALLED IN CLASSIFIED (HAZARDOUS) LOCATIONS, CLASS 1, DIVISION 1 & CLASS 1, DIVISION 2 SHALL BE LISTED FOR SUCH USE.

C. REFER TO MECHANICAL EQUIPMENT CONNECTION SCHEDULE ON DRAWING E501 FOR ADDITIONAL REQUIREMENTS FOR CONNECTING MECHANICAL EQUIPMENT.

D. WIRING TO THE STORAGE BUILDING SHALL BE INSTALLED IN UNDERGROUND CONDUIT FROM THE BUILDING. REFER TO DRAWING E100 FOR ADDITIONAL INFORMATION.

E. FOR ADDITIONAL INFORMATION FOR THE INSTALLATION OF EXTERIOR RECEPTACLES REFER TO DETAIL 5 ON DRAWING 5400.

X CONSTRUCTION NOTES:

1. OVERHEAD DOOR CONNECTION REFER TO MECHANICAL EQUIPMENT CONNECTION SCHEDULE FOR ADDITIONAL REQUIREMENTS ASSOCIATED WITH OVERHEAD DOORS.
2. RUN (2) POWER FEEDS AS SHOWN IN PLAN. (1) FEED IS FOR RIH UNIT & SECOND FEED TO RUN THROUGH RIH UNIT TO SOLENOID JUNCTION BOX ABOVE.
3. POWER CIRCUIT SHALL BE CONNECTED TO ELECTRICAL OUTLET SUPPLIED WITH REEL.
4. COORDINATE MOUNTING HEIGHT OF THIS RECEPTACLE WITH MOUNTING HEIGHT OF TV CONNECTION LOCATION. REFER TO SYSTEM PLANS & ARCHITECTURAL ELEVATIONS FOR ADDITIONAL INFORMATION.

GLTC

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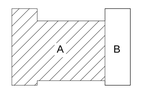

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Revision Number	Issued by	Revision Description	Revision Date

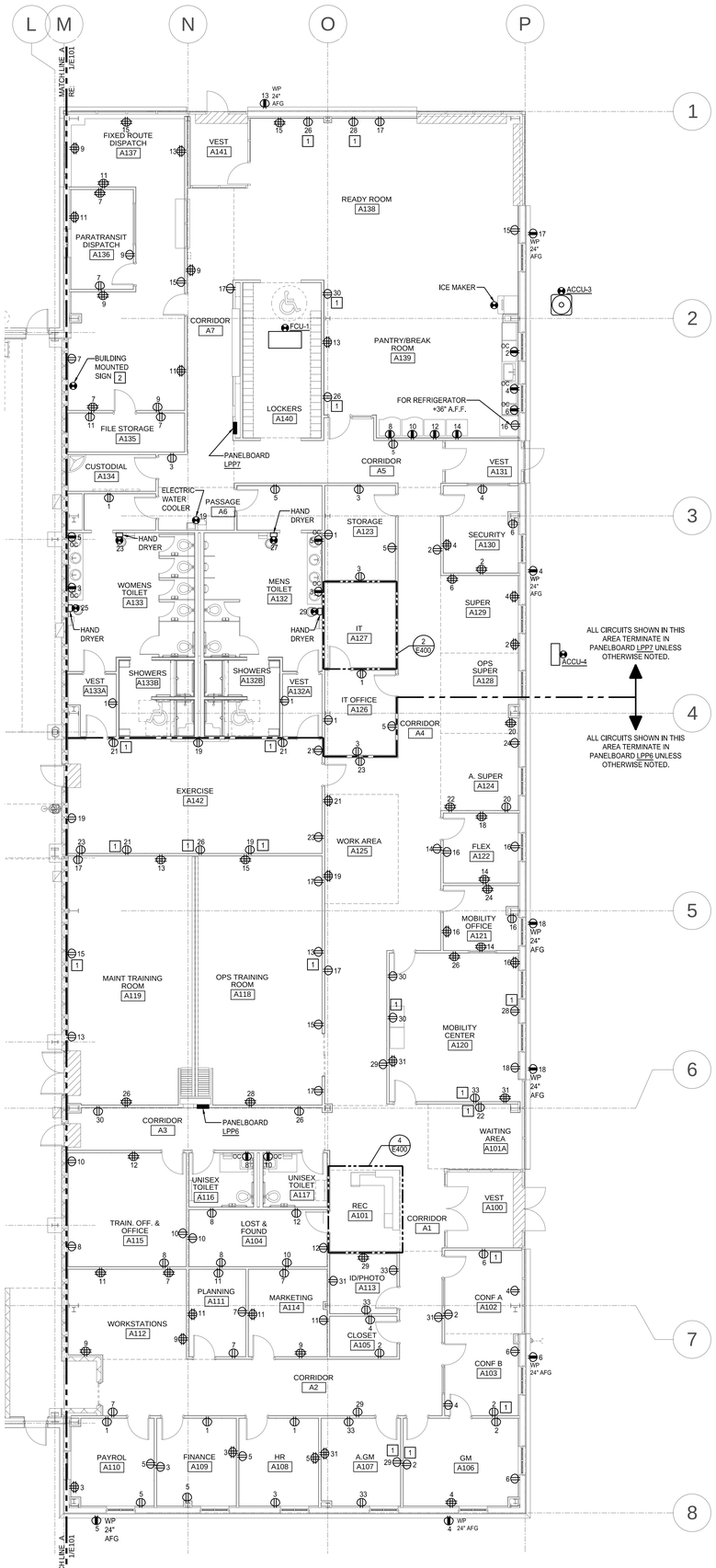
DWG. TITLE

GROUND FLOOR PLAN

AREA A - POWER

DATE	09/24/2014		
SCALE	AS NOTED		
DWN.	RB	CHK.	PTV
PROJ. No.	444505		
DWG. No.			

E101



1 GROUND FLOOR PLAN AREA B - POWER
SCALE: 1/8"=1'-0"

GENERAL NOTES:

A. REFER TO MECHANICAL EQUIPMENT CONNECTION SCHEDULE ON DRAWING E501 FOR ADDITIONAL REQUIREMENTS FOR CONNECTING MECHANICAL EQUIPMENT.

X CONSTRUCTION NOTES:

1. COORDINATE MOUNTING HEIGHT OF THIS RECEPTACLE WITH MOUNTING HEIGHT OF TV CONNECTION LOCATION. REFER TO SYSTEM PLANS & ARCHITECTURAL ELEVATIONS FOR ADDITIONAL INFORMATION.
2. PROVIDE 20A/1P CIRCUIT TO BUILDING MOUNTED SIGN. SIGN SHALL BE LOCATED ON THE EXTERIOR WALL ABOVE THE ADMINISTRATION PART OF THE BUILDING.

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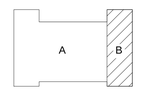

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KEY PLAN

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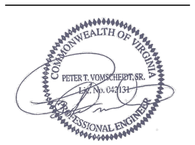


Revision Number	Issued by	Revision Description	Revision Date

DWG. TITLE

GROUND FLOOR

PLAN AREA B - POWER

DATE	09/24/2014
SCALE	AS NOTED
DWN.	RB
CHK.	PTV
PROJ. No.	444505

DWG. No.

E102

PLOTTED: 9/24/2014 3:14 PM BY: DANIELS, CHRISTOPHER J. DOCUMENT1.DWG

GENERAL NOTES:

A. UNLESS OTHERWISE NOTED ALL LIGHTING SHOWN ON THIS PLAN SHALL BE CONNECTED TO PANELBOARD HLP1, CIRCUIT AS INDICATED.

B. UNLESS OTHERWISE NOTED ALL EMERGENCY LIGHTING (LABELED AS 'EM' SHALL BE CONNECTED TO PANELBOARD EHP1, CIRCUIT AS INDICATED.

C. ALL EXIT SIGNS SHOWN ON THIS DRAWING SHALL BE CONNECTED TO PANELBOARD EHP1, CIRCUIT #24.

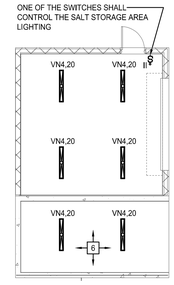
D. REFER TO DRAWING E702 FOR ADDITIONAL INFORMATION ON THE EXTENDS OF CLASSIFIED ZONES NEAR THE CEILING.

E. UNLESS OTHERWISE NOTED ALL ELECTRICAL WORK SHALL BE INSTALLED OUTSIDE OF THE CLASSIFIED AREA. ELECTRICAL EQUIPMENT THAT IS INSTALLED IN CLASSIFIED (HAZARDOUS) LOCATIONS, CLASS 1, DIVISION 1 & CLASS 1, DIVISION 2 SHALL BE LISTED FOR SUCH USE.

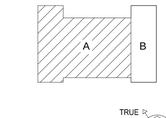
[X] CONSTRUCTION NOTES:

1. LIGHTING IN THIS AREA SHALL BE SUSPENDED TO A HEIGHT OF 11'-0" ABOVE FINISHED FLOOR.
2. INSTALL LUMINAIRE AT 14'-0" ABOVE FINISHED GRADE.
3. INSTALL LUMINAIRE AT 8'-6" ABOVE FINISHED GRADE & CENTERED OVER THE DOOR.
4. UNLESS OTHERWISE NOTED, TYPE HBN24 LUMINAIRES IN THIS AREA SHALL BE INSTALLED AT 16'-0" ABOVE FINISHED FLOOR. SUSPEND FROM STRUCTURE ABOVE.
5. PROVIDE PHOTOCELL COMPATIBLE WITH THE LIGHTING CONTROL SYSTEM TO ALLOW FOR DAYLIGHT HARVESTING. DIMMABLE BALLAST SHALL PROVIDED IN THE LUMINAIRES.
6. INSTALL LIGHTING IN THIS AREA TO THE UNDERSIDE OF METAL STRUCTURE. PROVIDE GRS CONDUIT TO FIXTURES & PAINT TO TO MATCH STRUCTURE.

ONE OF THE SWITCHES SHALL CONTROL THE SALT STORAGE AREA LIGHTING



2 STORAGE BLDG - LIGHTING
SCALE: 1/8"=1'-0"



KEY PLAN

TRUE

1 GROUND FLOOR PLAN AREA A - LIGHTING
SCALE: 1/8"=1'-0"

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PROFESSIONAL ENGINEER

Revision Number	Issued by	Revision Description	Revision Date

DWG. TITLE

GROUND FLOOR PLAN

AREA A - LIGHTING

DATE	09/24/2014
SCALE	AS NOTED
DWN.	RB
CHK.	PTV
PROJ. No.	444505
DWG. No.	E103

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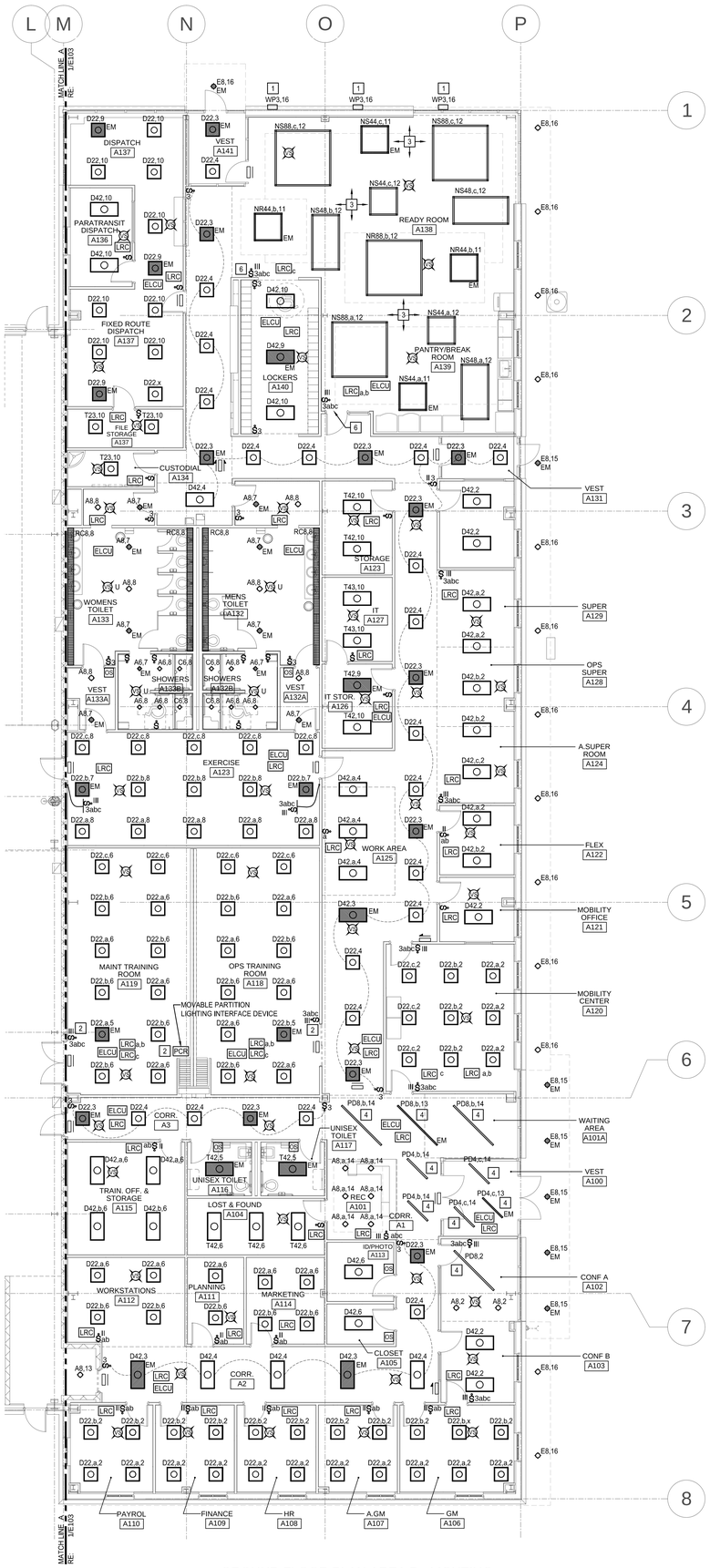

1 GROUND FLOOR PLAN AREA B - LIGHTING
SCALE: 1/8"=1'-0"

GENERAL NOTES:

A. UNLESS OTHERWISE NOTED ALL LIGHTING SHOWN ON THIS PLAN SHALL BE CONNECTED TO PANELBOARD HLP1, CIRCUIT AS INDICATED.

B. UNLESS OTHERWISE NOTED ALL EMERGENCY LIGHTING (LABELED AS 'EM' SHALL BE CONNECTED TO PANELBOARD EHP1, CIRCUIT AS INDICATED.

C. ALL EXIT SIGNS SHOWN ON THIS DRAWING SHALL BE CONNECTED TO PANELBOARD EHP1, CIRCUIT #1.

[X] CONSTRUCTION NOTES:

1. INSTALL THIS LUMINAIRE AT 10'-10" ABOVE FINISHED GRADE.
2. PROVIDE INTERFACE DEVICE TO BE CONNECTED TO THE PARTITION. WHEN THE ROOM IS DIVIDED THE SYSTEM SHALL ALLOW EACH SIDE OF THE ROOM TO BE SWITCHED INDEPENDENTLY. WHEN THE ROOM IS NOT DIVIDED THE SWITCHING SHALL FUNCTION AS 3-WAY SWITCH & LIGHTING SHALL BE COMBINED & FUNCTION IN BOTH PARTS OF THE ROOM.
3. ALL SUSPENDED LIGHTING IN THIS ROOM SHALL BE INSTALLED AT 9'-0" ABOVE FINISHED FLOOR. PROVIDE AIRCRAFT CABLE OF VARIOUS LENGTHS TO ACCOMMODATE THE INSTALLATION HEIGHT & CEILING PANELS THAT VARY IN ELEVATION.
4. INSTALL THIS SUSPENDED LUMINAIRE AT 13'-6" ABOVE FINISHED FLOOR.
5. PROVIDE EACH OF THE SINGLE GANG SWITCHES AS TWO BUTTON FOR CONTROL OF DIRECT & INDIRECT LIGHTING SEPARATE.

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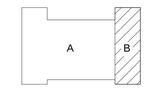

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Revision Number	Issued by	Revision Description	Revision Date

DWG. TITLE

GROUND FLOOR PLAN

AREA B - LIGHTING

DATE	09/24/2014
SCALE	AS NOTED
DWN.	RB
CHK.	PTV
PROJ. No.	444505

DWG. No.

E104

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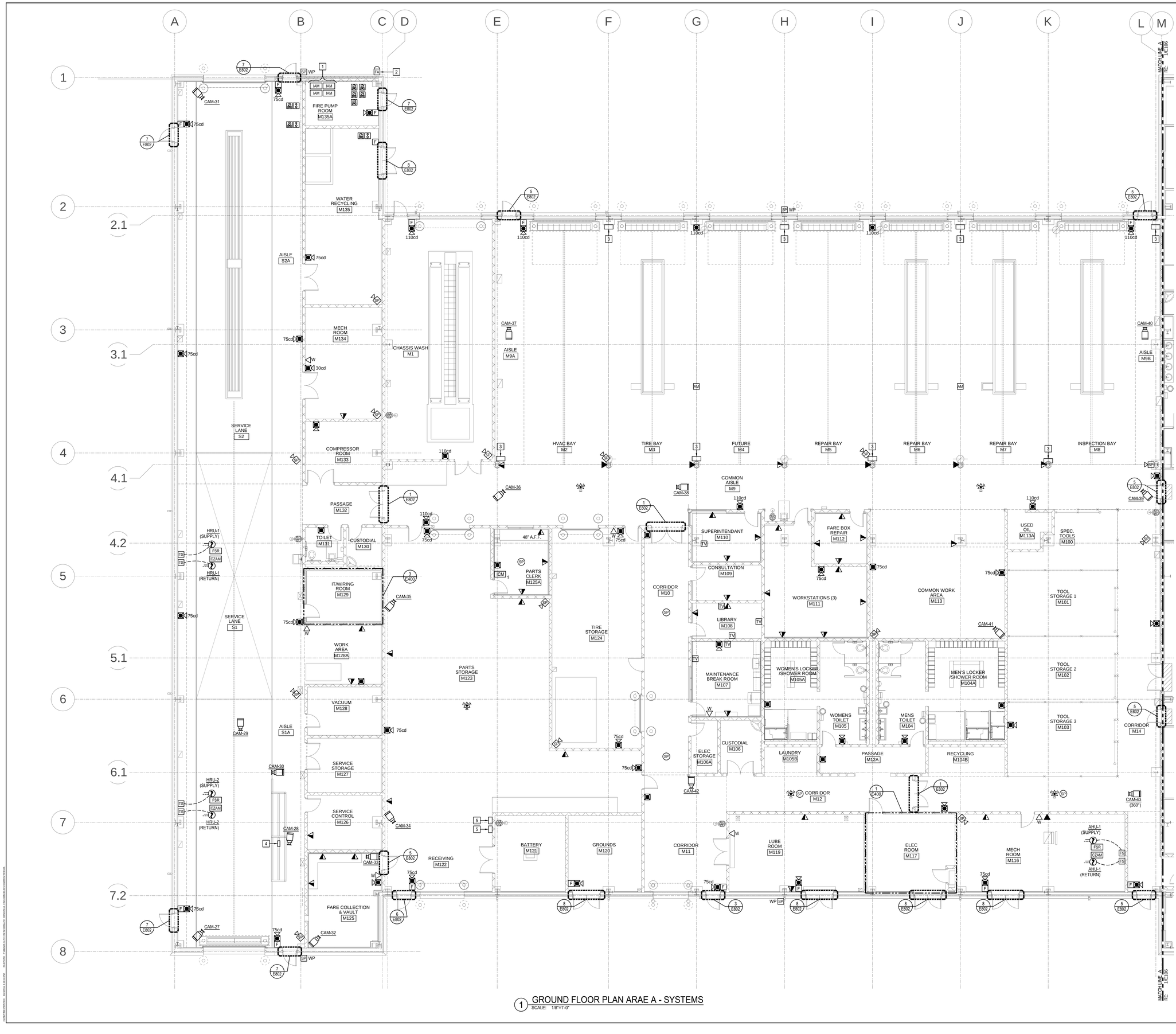

1 GROUND FLOOR PLAN ARAE A - SYSTEMS
SCALE: 1/8"=1'-0"

GENERAL NOTES:

A. REFER TO DRAWING E702 FOR ADDITIONAL INFORMATION ON THE EXTENDS OF CLASSIFIED ZONES NEAR THE CEILING.

B. UNLESS OTHERWISE NOTED ALL ELECTRICAL WORK SHALL BE INSTALLED OUTSIDE OF THE CLASSIFED AREA, ELECTRICAL EQUIPMENT THAT IS INSTALLED IN CLASSIFIED (HAZARDOUS) LOCATIONS, CLASS 1, DIVISION 1 & CLASS 1, DIVISION 2 SHALL BE LISTED FOR SUCH USE.

C. REFER TO MECHANICAL EQUIPMENT CONNECTION SCHEDULE ON DRAWING E501 FOR ADDITIONAL REQUIREMENTS FOR CONNECTING MECHANICAL EQUIPMENT.

D. WIRING TO THE STORAGE BUILDING SHALL BE INSTALLED IN UNDERGROUND CONDUIT FROM THE BUILDING. REFER TO DRAWING E100 FOR ADDITIONAL INFORMATION.

X CONSTRUCTION NOTES:

1. PROVIDE (4) ADDRESSABLE MODULES & INTERFACE TO FIRE PUMP CONTROLLER TO REPORT EACH OF THE FOLLOWING CONDITIONS:
   - FIRE PUMP RUNNING
   - FIRE PUMP LOSS OF LINE POWER
   - FIRE PUMP LINE-POWER PHASE REVERSAL
   - FIRE PUMP CONNECTION TO ALTERNATE POWER

   INSTALL EACH MODULE IN A SEPARATE JUNCTION BOX.
2. ELECTRICAL WATER FLOW ALARM BELL, TO BE PROVIDED WITH SPRINKLER SYSTEM. SHALL BE INSTALLED & WIRED BY ELECTRICAL.
3. PROVIDE ETHERNET CONNECTION FOR FUELING SYSTEM REMOTE ISLAND HEAD INSTALLED ON WALL.
4. PROVIDE ETHERNET CONNECTION FOR FUELING SYSTEM REMOTE ISLAND HEAD MOUNTED ON PEDESTAL. INSTALL 1" CONDUIT EMBEDDED IN CONCRETE TO THE NEAREST WALL TO BE EXTENDED IN TO DATA ROOM.
5. PROVIDE ETHERNET CONNECTION FOR VEEDER-ROOT CONTROLLER INSTALLED ON WALL.

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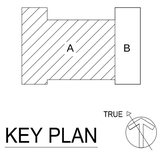

KEY PLAN

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COMMONWEALTH OF VIRGINIA
PETER T. VOMSCHEIDT, SR.
Lic. No. 042134
PROFESSIONAL ENGINEER

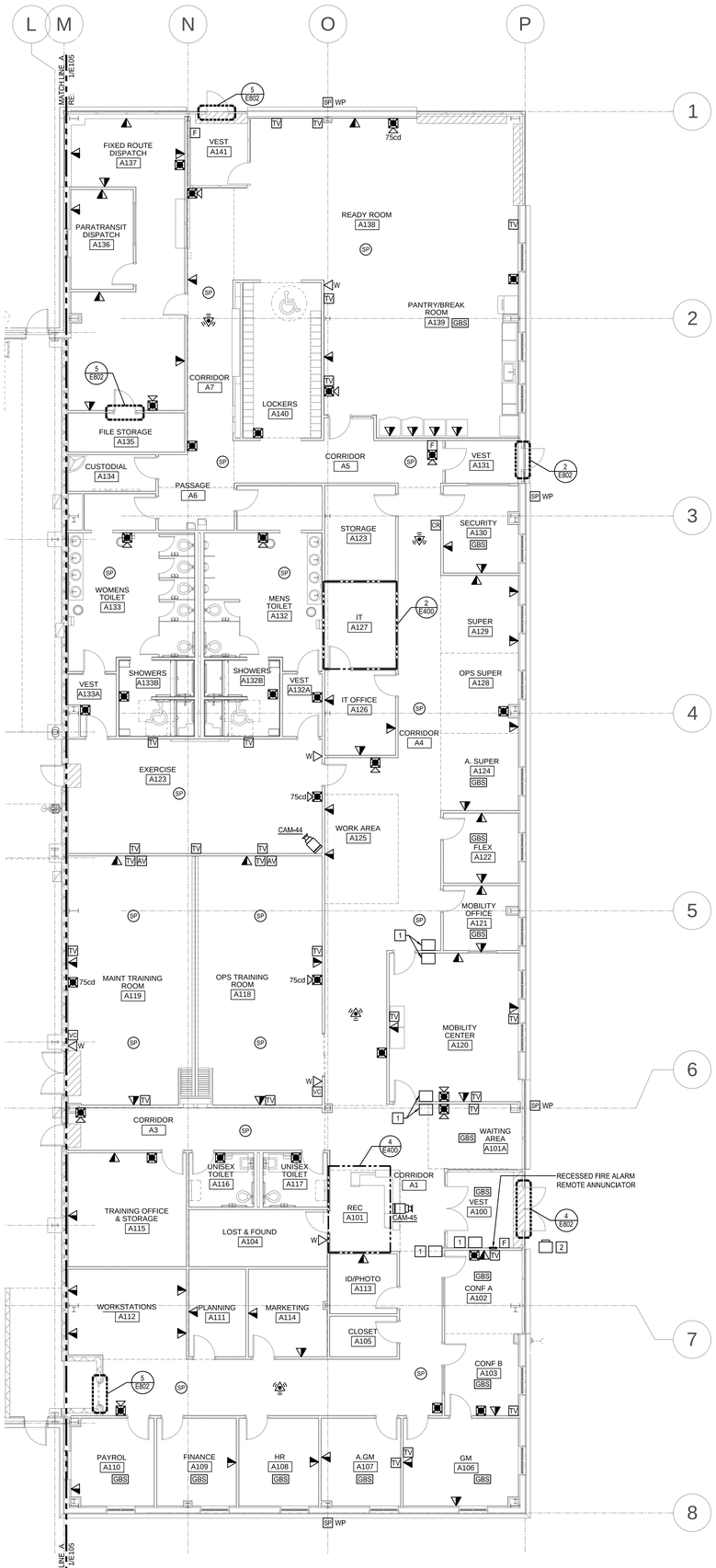
Revision Number	Issued by	Revision Description	Revision Date

DWG. TITLE

GROUND FLOOR PLAN

AREA A - SYSTEMS

DATE	09/24/2014
SCALE	AS NOTED
DWN.	RB
CHK.	PTV
PROJ. No.	444505
DWG. No.	E105



1 GROUND FLOOR PLAN AREA B - SYSTEMS
SCALE: 1/8"=1'-0"

CONSTRUCTION NOTES:

X

1. PROVIDE A RECESSED WORK BOX AT THIS LOCATION WITH A 3/4" CONDUIT UP TO TOP OF DOOR FOR WIRING BY DOOR OPENER SUPPLIER.
2. PROVIDE A RECESSED WORK BOX AT OUTDOOR BOLLARD WITH A 3/4" CONDUIT UP TO TOP OF DOOR FOR WIRING BY DOOR OPENER SUPPLIER.

GREATER LYNCHBURG TRANSIT COMPANY
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PROJECT ADDRESS:
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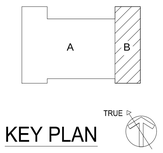

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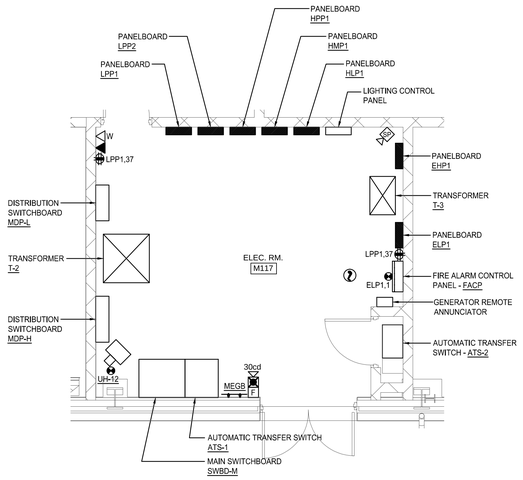
DWG. TITLE

GROUND FLOOR PLAN

AREA B - SYSTEMS

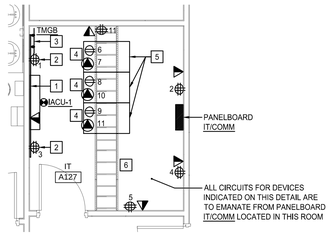
DATE	09/24/2014
SCALE	AS NOTED
DWN.	RB
CHK.	PTV
PROJ. No.	444505
DWG. No.	E106

2014 WENDEL WENDEL - ALEXANDRIA, VA 703.299.8718 - ARCHITECTURE ENGINEERING LANDSCAPE ARCHITECTURE SURVEYING



ENLARGED SCALE
ELECTRICAL ROOM M117

1 SCALE: 1/4"=1'-0"

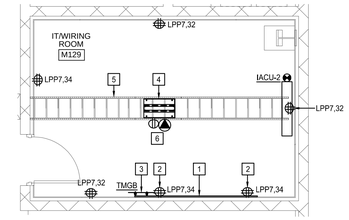


ENLARGED SCALE
IT ROOM A127

2 SCALE: 1/4"=1'-0"

X IT ROOM A127 NOTES:

1. PROVIDE (1) 4'x8'x3/4" PLYWOOD, FIRE RETARDANT, PAINTED TO MATCH ADJACENT WALL FINISH.
2. PROVIDE (1) QUAD RECEPTACLE, 20A, QUAD I.G. CONNECT TO DEDICATED CIRCUIT AS INDICATED.
3. PROVIDE GROUND BAR WITH #6 GROUND WIRE CONNECTED TO THE BUILDING COMMUNICATIONS GROUNDING SYSTEM.
4. PROVIDE DEDICATED 20A, I.G. RECEPTACLE, & (1) DEDICATED 20A, L5-20 I.G. , PROVIDE ONE OF EACH PER PACK. INSTALL ON SIDE OF CABLE LADDER TRAY.
5. PROVIDE FLOOR MOUNTED EQUIPMENT RACK ENCLOSURE WITH VERTICAL CABLE MANAGEMENT.
6. PROVIDE 18" WIDE LADDER CABLE TRAY MOUNTED ABOVE DATA RACKS. FIELD VERIFY EXACT LOCATION WITH FINAL RACK LOCATION.

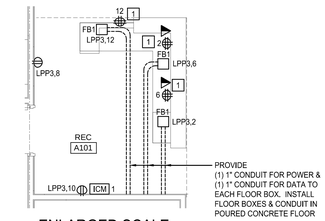


ENLARGED SCALE
IT/WIRING ROOM M129

3 SCALE: 1/4"=1'-0"

X IT/WIRING M129 NOTES:

1. PROVIDE (1) 4'x8'x3/4" PLYWOOD, FIRE RETARDANT, PAINTED TO MATCH ADJACENT WALL FINISH.
2. PROVIDE (1) QUAD RECEPTACLE, 20A, QUAD I.G. CONNECT TO A DEDICATED CIRCUIT AS INDICATED.
3. PROVIDE GROUND BAR WITH #6 GROUND WIRE CONNECTED TO THE BUILDING COMMUNICATIONS GROUNDING SYSTEM.
4. PROVIDE FLOOR MOUNTED 2-POST RACK WITH VERTICAL CABLE MANAGEMENT.
5. PROVIDE 18" WIDE LADDER CABLE TRAY SYSTEM. INSTALLED ABOVE DATA RACK. FIELD VERIFY EXACT LOCATION WITH FINAL RACK LOCATION.
6. PROVIDE (1) DEDICATED 20A RECEPTACLE, I.G., & (1) DEDICATED 20A L5-20 I.G., PER RACK. INSTALL ON SIDE OF CABLE LADDER TRAY ABOVE THE RACK.

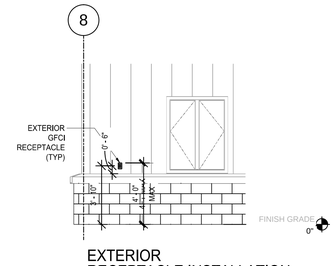


ENLARGED SCALE
RECEPTION A101

4 SCALE: 1/4"=1'-0"

X RECEPTION AREA A101 NOTES:

1. THESE DEVICES SHALL BE MOUNTED IN FLOOR BOXES.



EXTERIOR
RECEPTACLE INSTALLATION

5 SCALE: NTS

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COMMONWEALTH OF VIRGINIA
PETER T. VOMSCHEID, SR.
Reg. No. 042134
PROFESSIONAL ENGINEER

Revision Number	Issued by	Revision Description	Revision Date

DWG. TITLE

ENLARGED PLANS -

POWER & SYSTEMS LAYOUTS

DATE	09/24/2014
SCALE	AS NOTED
DWN.	RB
CHK.	PTV
PROJ. No.	444505

DWG. No.

E400

3/27/2014 7:56:55 AM P:\444505 GLTC\Drawings\Revit\Drawings\E400 ENLARGED PLANS - POWER & SYSTEMS LAYOUTS.dwg

LUMINAIRE SCHEDULE

TYPE	DESCRIPTION	LENS	BALLAST	LAMPS	BASIS OF DESIGN
A6	NOMINAL 6" DIAMETER, RECESSED, LENSED, COMPACT FLUORESCENT DOWNLIGHT WITH FOLLOWING MINIMUM SPECIFICATIONS: PARABOLIC SHAPED REFLECTOR, HORIZONTALLY ORIENTED LAMPS. WHITE CEILING TRIM. INTEGRAL JUNCTION BOX, PRE-WIRED TO BALLAST & LAMPHOLDER ASSEMBLIES. PROVIDE COMPLETE WITH REQUIRED HARDWARE, ADJUSTABLE HANGERS, & CEILING CLIPS FOR INSTALLATION IN GWB TYPE CEILINGS. UL LISTED FOR DAMP LOCATIONS	DIFFUSE GLASS LENS	(1) ELECTRONIC, <10% THD, MULTI VOLT	(1) F26TT/841, 4-PIN, TRIPLE TUBE, 4100K, MIN. CRI 82	PORTFOLIO - CD6S126 SERIES OR EQUAL
C6	NOMINAL 6" DIAMETER, RECESSED, LENSED, COMPACT FLUORESCENT SHOWER LIGHT WITH FOLLOWING MINIMUM SPECIFICATIONS: PARABOLIC SHAPED REFLECTOR, HORIZONTALLY ORIENTED LAMPS. WHITE CEILING TRIM DESIGNED & MANUFACTURED TO BE USED IN SHOWERS. INTEGRAL JUNCTION BOX, PRE-WIRED TO BALLAST & LAMPHOLDER ASSEMBLIES. PROVIDE COMPLETE WITH REQUIRED HARDWARE, ADJUSTABLE HANGERS, & CEILING CLIPS FOR INSTALLATION IN GWB TYPE CEILINGS. UL LISTED FOR DAMP LOCATIONS	PROVIDE NONCONDUCTIVE SHOWER TRIM	(1) ELECTRONIC, <10% THD, MULTI VOLT	(1) F26TT/841, 4-PIN, TRIPLE TUBE, 4100K, MIN. CRI 82	ARCHITECTURAL STAR - AH6TE126UV SERIES WITH SHOWER TRIM
A8	NOMINAL 8" DIAMETER, RECESSED, LENSED, COMPACT FLUORESCENT DOWNLIGHT WITH FOLLOWING MINIMUM SPECIFICATIONS: PARABOLIC SHAPED REFLECTOR, HORIZONTALLY ORIENTED LAMPS. WHITE CEILING TRIM. INTEGRAL JUNCTION BOX, PRE-WIRED TO BALLAST & LAMPHOLDER ASSEMBLIES. PROVIDE COMPLETE WITH REQUIRED HARDWARE, ADJUSTABLE HANGERS, & CEILING CLIPS FOR INSTALLATION IN GWB TYPE CEILINGS.	FLAT OPAL LENS	(1) ELECTRONIC, <10% THD, MULTI VOLT	(2) F26TT/841, 4-PIN, TRIPLE TUBE, 4100K, MIN. CRI 82	PORTFOLIO - C8226 SERIES OR EQUAL
E8	NOMINAL 8" DIAMETER, RECESSED, LENSED, COMPACT FLUORESCENT DOWNLIGHT WITH FOLLOWING MINIMUM SPECIFICATIONS: PARABOLIC SHAPED REFLECTOR, HORIZONTALLY ORIENTED LAMPS. WHITE CEILING TRIM. INTEGRAL JUNCTION BOX, PRE-WIRED TO BALLAST & LAMPHOLDER ASSEMBLIES. PROVIDE COMPLETE WITH REQUIRED HARDWARE, ADJUSTABLE HANGERS, & CEILING CLIPS REQUIRED FOR INSTALLATION WHERE SHOWN ON DRAWINGS. UL LISTED FOR WET LOCATION.	FLAT OPAL LENS	(1) ELECTRONIC, <10% THD, MULTI VOLT, COLD WEATHER RATED.	(1) F42TT/841, 4-PIN, TRIPLE TUBE, 4100K, MIN. CRI 82	PORTFOLIO - C8142 SERIES OR EQUAL
FA	OUTDOOR, RECESSED LED CANOPY MOUNTED LUMINAIRE WITH FOLLOWING MINIMUM SPECIFICATIONS: HOUSING SHALL BE DIE CAST ALUMINUM ASSEMBLY, INTEGRAL LED DRIVER IN A SEALED WEATHER TIGHT ENCLOSURE. UL LISTED FOR WET LOCATIONS, IP66 MINIMUM. **WIDE SYMETRIC SYMMETRIC** DISTRIBUTION OPTIC. LUMINAIRE SHALL BE DESIGNED & MANUFACTURED IN COMPLIENCE WITH IESNA LM-79 & LM-80.	NONE	(1) ELECTRONIC LED DRIVER MULTI VOLT	(1) 64 LED ARRAY, 8,125 LUMENS, 4000K	McGRAW-EDISON - LRC SERIES OR EQUAL
T23	2X2, 3-LAMP, RECESSED, STATIC, LENSED FLUORESCENT TROFFER WITH FOLLOWING MINIMUM SPECIFICATIONS: COLD ROLLED STEEL HOUSING WITH FULL LENGTH STIFFENERS ADDED FOR HOUSING RIGIDITY. UNIT SHALL BE DESIGNED FOR INSTALLATION IN GRID TYPE CEILING. PROVIDE ALL REQUIRED MOUNTING HARDWARE. DOOR TRIM SHALL BE FULL SIZE, FLUSH WHITE, EXTRUDED ALUMINUM WITH SPRING LATCHES. PAINTED AFTER FABRICATION.	A19 PATTERN ACRYLIC (0.156" THICK)	(1) ELECTRONIC, <10% THD, MULTI VOLT	(3) F14W/T5/841 FLUORESCENT 4100K, HIGH CRI	METALUX - 2GR5 SERIES OR EQUAL
T42	2X4, 2-LAMP, RECESSED, STATIC, LENSED FLUORESCENT TROFFER WITH FOLLOWING MINIMUM SPECIFICATIONS: COLD ROLLED STEEL HOUSING WITH FULL LENGTH STIFFENERS ADDED FOR HOUSING RIGIDITY. UNIT SHALL BE DESIGNED FOR INSTALLATION IN GRID TYPE CEILING. PROVIDE ALL REQUIRED MOUNTING HARDWARE. DOOR TRIM SHALL BE FULL SIZE, FLUSH WHITE, EXTRUDED ALUMINUM WITH SPRING LATCHES. PAINTED AFTER FABRICATION.	A19 PATTERN ACRYLIC (0.156" THICK)	(1) ELECTRONIC, <10% THD, MULTI VOLT	(2) F28W/T5/841 FLUORESCENT 4100K, HIGH CRI	METALUX - 2GR5 SERIES OR EQUAL
T43	2X4, 3-LAMP, RECESSED, STATIC, LENSED FLUORESCENT TROFFER WITH FOLLOWING MINIMUM SPECIFICATIONS: COLD ROLLED STEEL HOUSING WITH FULL LENGTH STIFFENERS ADDED FOR HOUSING RIGIDITY. UNIT SHALL BE DESIGNED FOR INSTALLATION IN GRID TYPE CEILING. PROVIDE ALL REQUIRED MOUNTING HARDWARE. DOOR TRIM SHALL BE FULL SIZE, FLUSH WHITE, EXTRUDED ALUMINUM WITH SPRING LATCHES. PAINTED AFTER FABRICATION.	A19 PATTERN ACRYLIC (0.156" THICK)	(1) ELECTRONIC, <10% THD, MULTI VOLT	(3) F28W/T5/841 FLUORESCENT 4100K, HIGH CRI	METALUX - 2GR5 SERIES OR EQUAL
DL1	LED DOCKLIGHT WITH MINIMUM SPECIFICATIONS: HOUSING SHALL BE DIE CAST ALUMINUM & MANUFACTURED TO BE COMPATIBLE WITH STANDARD DOCKLIGHT ADJUSTABLE ARM. PROVIDE WITH 60" ARM. FACTORY TESTED TO MEET IES LM-79 & LM-80 STANDARDS. UL LISTED FOR WET LOCATIONS. PROVIDE RECEPTACLE AT EACH LOCATION WHERE DOCKLIGHT IS MOUNTED. REFER TO DRAWINGS FOR CIRCUIT NUMBER.	IMPACT RESISTANT, OPTICALLY CLEAR ACRYLIC	CONSTANT CURRENT LED DRIVER	(5) CREE HIGH INTENSITY LEDS WITH 12° OPTICS	ENERGY FOCUS - LEDDL SERIES OR EQUAL
D22	2X2, 2-LAMP, RECESSED, STATIC, ARCHITECTURAL FLUORESCENT TROFFER WITH FOLLOWING MINIMUM SPECIFICATIONS: 20 GA. STEEL HOUSING, SEALED LAMP COMPARTMENT, MATTE WHITE REFLECTORS FINISHED WITH HIGH REFLECTANCE PAINT. BOTTOM ACCESS TO THE LAMPS BY REMOVING THE CENTER DIFFUSER	CENTER DIFFUSER-EXTRUDED ACRYLIC	(1) ELECTRONIC, <10% THD, MULTI VOLT	(2) F14W/T5/841 FLUORESCENT 4100K, HIGH CRI	FOCAL POINT - APOLLO 2 (FMA2) SERIES OR EQUAL
D42	2X4, 2-LAMP, RECESSED, STATIC, ARCHITECTURAL FLUORESCENT TROFFER WITH FOLLOWING MINIMUM SPECIFICATIONS: 20 GA. STEEL HOUSING, SEALED LAMP COMPARTMENT, MATTE WHITE REFLECTORS FINISHED WITH HIGH REFLECTANCE PAINT. BOTTOM ACCESS TO THE LAMPS BY REMOVING THE CENTER DIFFUSER. PROVIDE WITH DUAL BALLAST TO ACCOMMODATE BI-LEVEL SWITCHING WHERE INDICATED ON PLANS.	CENTER DIFFUSER-EXTRUDED ACRYLIC	(1) ELECTRONIC, <10% THD, MULTI VOLT OR (2) ELECTRONIC BALLASTS TO ACCOMMODATE BI-LEVEL SWITCHING WHERE INDICATED ON PLANS	(2) F28W/T5/841 FLUORESCENT 4100K, HIGH CRI	FOCAL POINT - APOLLO 2 (FMA2) SERIES OR EQUAL
VN4	4FT LONG, SURFACE OR PENDANT MOUNTED, LED, VAPORTITE LUMINAIRE WITH NON-METALIC HOUSING & ACRYLIC LENS. STAINLESS STEEL LATCHES. PRECISION OPTICS FOR **WIDE** DISTRIBUTION. UL LISTED FOR WET LOCATIONS. LUMINAIRE SHALL BE DESIGNED & MANUFACTURED IN ACCORDANCE WITH IESNA LM-79 & LM-80 STANDARDS. DLC LISTED.	ONE-PIECE MOLDED ACRYLIC LENS	INTEGRAL LED DRIVER	LONG-LIFE LED SYSTEM ARRAY DELIVERING 5,800 LUMENS, 4000K	METALUX - VT LD2 SERIES OR EQUAL
VW4	4FT LONG, SURFACE OR PENDANT MOUNTED, LED, VAPORTITE LUMINAIRE WITH NON-METALIC HOUSING & ACRYLIC LENS. STAINLESS STEEL LATCHES. PRECISION OPTICS FOR **WIDE** DISTRIBUTION. UL LISTED FOR WET LOCATIONS. LUMINAIRE SHALL BE DESIGNED & MANUFACTURED IN ACCORDANCE WITH IESNA LM-79 & LM-80 STANDARDS. DLC LISTED.	ONE-PIECE MOLDED ACRYLIC LENS	INTEGRAL LED DRIVER	LONG-LIFE LED SYSTEM ARRAY DELIVERING 15,000 LUMENS, 4000K	METALUX - VT4LED SERIES OR EQUAL
SW4	NARROW, 4FT, PENDANT OR SURFACE MOUNTED, LED, LENSED BARE STRIPLIGHT TYPE LUMINAIRE WITH FOLLOWING MINIMUM SPECIFICAITONS: HOUSING SHALL CONSIST OF DIE FORMED CHANNEL THAT IS COLD ROLLED HEAVY GAGE STEEL. CHANNEL HOUSING SHALL CONTAIN LED DRIVER & PROVIDE AN ASSEMBLY FOR MOUNTING LED ARRAYS & CURVED LENSING OPTIONS. LUMINAIRE SHALL DESIGNED & MANUFACTURED TO ALLOW FOR WIDE OPTICAL DISTRIBUTION. LUMINAIRE SHALL BE DESIGNED & MANUFACTURED IN ACCORDANCE WITH IESNA LM-79 & LM-80 STANDARDS. DLC LISTED.	WIDE DISTRIBUTION CURVED ACRYLIC LENS	(1) LED DRIVER, MULTIVOLT	(1) LED ARRAY DELIVERING 4400 LUMENS, 4000K, MINIMUM 82CRI.	METALUX - SNLED LENSED SERIES OR EQUAL
	NARROW, 8FT, PENDANT OR SURFACE MOUNTED, LED, LENSED BARE STRIPLIGHT TYPE LUMINAIRE WITH FOLLOWING MINIMUM SPECIFICAITONS: HOUSING SHALL CONSIST OF DIE FORMED CHANNEL THAT IS COLD ROLLED HEAVY GAGE STEEL. CHANNEL HOUSING SHALL CONTAIN LED DRIVER & PROVIDE AN ASSEMBLY FOR MOUNTING LED ARRAYS & CURVED LENSING OPTIONS. LUMINAIRE SHALL DESIGNED & MANUFACTURED TO ALLOW FOR WIDE OPTICAL DISTRIBUTION. LUMINAIRE SHALL BE DESIGNED & MANUFACTURED IN ACCORDANCE WITH IESNA LM-79 & LM-80 STANDARDS. DLC LISTED.	WIDE DISTRIBUTION CURVED ACRYLIC LENS	(2) LED DRIVER, MULTIVOLT	(1) LED ARRAY DELIVERING 8500 LUMENS, 4000K, MINIMUM 82CRI.	METALUX - SNLED LENSED SERIES OR EQUAL
DL1	LED DOCK LIGHT WITH MINIMUM SPECIFICATIONS: HOUSING SHALL BE DIE CAST ALUMINUM & MANUFACTURED TO BE COMPATIBLE WITH STANDARD DOCKLIGHT ADJUSTABLE ARM. PROVIDE WITH 60" ARM. FACTORY TESTED TO MEET IES LM-79 & LM-80 STANDARDS. UL LISTED FOR WET LOCATIONS.	IMPACT RESISTANT, OPTICALLY CLEAR ACRYLIC	CONSTANT CURRENT LED DRIVER	(5) CREE HIGH INTENSITY LEDS WITH 12° OPTICS	FIBERSTARS - LEDDL SERIES OR EQUAL

5 TYPICAL TROFFER INSTALLATION DETAIL
SCALE: NONE

1 TYPICAL DIGITAL LIGHTING CONTROL SYSTEM DIAGRAM
SCALE: NONE

2 TYPICAL PRIVATE OFFICE LIGHTING CONTROL SYSTEM DIAGRAM
SCALE: NONE

3 TYPICAL CORRIDOR W/EMREGENCY LIGHTING CONTROL SYSTEM DIAGRAM
SCALE: NONE

LUMINAIRE SCHEDULE

TYPE	DESCRIPTION	LENS	BALLAST	LAMPS	BASIS OF DESIGN
RC8	CUSTOM LENGTH, RECESSED, PERIMETER WALL WASHER TYPE, LINEAR FLUORESCENT LUMINAIRE WITH FOLLOWING MINIMUM SPECIFICATION: MAIN BODY HOUSING SHALL BE FABRICATED FROM 20-GAUGE STEEL, 8" APERTURE WITH ALL ELECTRICAL COMPONENTS ACCESSIBLE FROM BELOW. PROVIDE ONE LAMP IN CROSS SECTION. WHITE BOLD BAFFLE. PROVIDE ALL HARDWARE FOR INSTALLATION IN GWB OR ACT TYPE CEILINGS (COORDINATE CELING REQUIREMENTS ON PLANS). REFER TO DRAWINGS FOR EXACT REQUIRED LENGTH. PROVIDE ALL REQUIRED INTERCONNECTION HARDWARE (CORNERS, EXTENSIONS) FOR A COMPLETE SYSTEM LENGTH AS INDICATED. PROVIDE DEDICATED BALLAST FOR CONNECTION TO EMERGENCY BRANCH CIRCUIT. WIRE TO LAMPS WHERE INDICATED ON DRAWINGS.	WHITE BAFFLE	(1) ELECTRONIC, <10% THD, MULTI VOLT	(1) T5 TYPE LAMPS FLUORESCENT 4100K, HIGH CRI. VERIFY QUANTITY REQUIRED FOR THE WHOLE SYSTEM LENGTH	NEO-RAY - 78 SERIES
HBN24	20"x48", SUSPENDED, INDUSTRIAL, HIGH-BAY LED LUMINAIRE WITH FOLLOWING MINIMUM SPECIFICATIONS: HOUSING SHALL CONSIST OF CHANNEL & END PLATES BOTH MANUFACTURED FROM DIE-FORMED STEEL. HOUSING SHALL BE MANUFACTURED WITH PROVISIONS TO STIFFEN THE LUMINAIRE ASSEMBLY. REFLECTORS SHALL BE PRECISION DESIGNED FOR A **NARROW** TYPE DISTRIBUTION. PROVIDE WIRE HOOK & CHAIN SET MOUNTING. PROVIDE CLEAR LENS. REFER TO FLOOR PLANS FOR EXACT LENGTH REQUIRED. LUMINAIRE SHALL BE DESIGNED & MANUFACTURED IN ACCORDANCE WITH IESNA LM-79 & LM-80 STANDARDS, DLC & UL LISTED.	CLEAR POLYCARBONATE	(2) INTEGRAL LED DRIVER, PROVIDE DIMMABLE DRIVER FOR DIMMING VIA PHOTOCELL	LONG-LIFE LED SYSTEM ARRAY DELIVERING 24,000 LUMENS, 4000K	METALUX - HB LED SERIES OR EQUAL
NS44, NS48, & NS88	CUSTOM SHAPE SUSPENDED FLUORESCENT LUMINAIRE ASSEMBLY SYSTEM WITH FOLLOWING MINIMUM SPECIFICATIONS: EACH ASSEMEBLY SHALL CONSIST OF (4) LINEAR FLUORESCENT LUMINAIRES LINKED TO EACH OTHER WITH (4) 90 deg CORNERS. ENTIRE ASSEMBLY SHALL BE APPROXIMATELY 4FT SQUARE FOR NS44, 4FT X8FT FOR NS48 & 8FT SQUARE FOR NS88. AIRCRAFT CABLE SUSPENDED BELOW THE CEILING. LUMINAIRE SHALL CONSIST OF THE FOLLOWING MINIMUM SPECIFICATIONS: EXTRUDED ALUMINUM HOUSING, RECTALINEAR SHAPE OF LENGTH REQUIRED TO ACHIEVE THE NEEDED SYSTEM DIMENSIONS, SNAP IN ACRYLIC LENS DESIGN TO ALLOW ACCESS TO ELECTRICAL COMPONENTS FROM BELOW. PROVIDE 2-LAMP CROSS SECTION, (1) DIRECT & (1) INDIRECT, LAMPS SHALL BE STAGGERED TO MINIMIZE LAMP SOCKET IMAGE FROM BELOW. CORNERS SHALL BE MATCHING DESIGNED FOR SEAMLESS INTEGRATION TO THE LINEAR LUMINAIRE. HOUSING SHALL BE MAXIMUM 3" WIDE.	HIGH TRANSMISSION ACRYLIC DIFFUSER	ELECTRONIC, <10% THD, MULTI VOLT, PROVIDE SEPARATE BALLASTS FOR DIRECT & INDIRECT LAMPING FOR SEPARATE SWTICHING. VERIFY EXACT QUANTITY OF BALLAST REQUIRED FOR THE CUSTOM LENGTH ASSEMBLY.	PROVIDE T5 LAMPING, 4100K, HIGH CRI. VERIFY REQUIRED LAMP LENGTH TO ACCOMMODATE THE CUSTOM LUMINAIRE CONFIGURATION	NEO-RAY - 22DIP STRAIGHT & NARROW SERIES OR EQUAL
NR44, & NR88	CUSTOM SHAPE RECESSED FLUORESCENT LUMINAIRE ASSEMBLY SYSTEM WITH FOLLOWING MINIMUM SPECIFICATIONS: EACH ASSEMEBLY SHALL CONSIST OF (4) LINEAR FLUORESCENT LUMINAIRES LINKED TO EACH OTHER WITH (4) 90 deg CORNERS. ENTIRE ASSEMBLY SHALL BE APPROXIMATELY 4FT SQUARE FOR NR44 & 8FT SQUARE FOR NR88. RECESSED IN THE ACT CEILING. LUMINAIRE SHALL CONSIST OF THE FOLLOWING MINIMUM SPECIFICATIONS: EXTRUDED ALUMINUM HOUSING, RECTALINEAR SHAPE OF LENGTH REQUIRED TO ACHIEVE THE NEEDED SYSTEM DIMENSIONS, SNAP IN ACRYLIC LENS DESIGN TO ALLOW ACCESS TO ELECTRICAL COMPONENTS FROM BELOW. LAMPS SHALL BE STAGGERED TO MINIMIZE LAMP SOCKET IMAGE FROM BELOW. CORNERS SHALL BE MATCHING DESIGNED FOR SEAMLESS INTEGRATION TO THE LINEAR LUMINAIRE. HOUSING SHALL BE MAXIMUM 3" WIDE. SHALL BE THE SAME FAMILY AS THE NS44, NS48, & NS88 LUMINAIRES.	HIGH TRANSMISSION ACRYLIC DIFFUSER	ELECTRONIC, <10% THD, MULTI VOLT VERIFY EXACT QUANTITY OF BALLAST REQUIRED FOR THE CUSTOM LENGTH ASSEMBLY.	PROVIDE T5 LAMPING, 4100K, HIGH CRI. VERIFY REQUIRED LAMP LENGTH TO ACCOMMODATE THE CUSTOM LUMINAIRE CONFIGURATION	NEO-RAY - 22DR STRAIGHT & NARROW SERIES OR EQUAL
PD4	NOMINAL 4FT, SUSPENDED LINEAR FLUORESCENT LUMINAIRE WITH FOLLOWING MINIMUM SPECIFICATIONS: EXTRUDED ALUMINUM HOUSING, RECTALINEAR SHAPE, SNAP IN ACRYLIC LENS DESIGN TO ALLOW ACCESS TO ELECTRICAL COMPONENTS FROM BELOW. PPROVIDE 2-LAMP CROSS SECTION, (1) DIRECT & (1) INDIRECT, LAMPS SHALL BE STAGGERED TO MINIMIZE LAMP SOCKET IMAGE FROM BELOW.	HIGH TRANSMISSION ACRYLIC DIFFUSER CONTINUOUS OVER THE LENGTH OF THE FIXTURE	(1) ELECTRONIC, <10% THD, MULTI VOLT	(2) F28W/T5/841 FLUORESCENT 4100K, HIGH CRI	NEO-RAY - 22DIP STRAIGHT & NARROW SERIES OR EQUAL
PD8	NOMINAL 8FT, SUSPENDED LINEAR FLUORESCENT LUMINAIRE WITH FOLLOWING MINIMUM SPECIFICATIONS: EXTRUDED ALUMINUM HOUSING, RECTALINEAR SHAPE, SNAP IN ACRYLIC LENS DESIGN TO ALLOW ACCESS TO ELECTRICAL COMPONENTS FROM BELOW. PPROVIDE 2-LAMP CROSS SECTION, (1) DIRECT & (1) INDIRECT, LAMPS SHALL BE STAGGERED TO MINIMIZE LAMP SOCKET IMAGE FROM BELOW.	HIGH TRANSMISSION ACRYLIC DIFFUSER CONTINUOUS OVER THE LENGTH OF THE FIXTURE	(2) ELECTRONIC, <10% THD, MULTI VOLT	(4) F28W/T5/841 FLUORESCENT 4100K, HIGH CRI	NEO-RAY - 22DIP STRAIGHT & NARROW SERIES OR EQUAL
LT30	OUTDOOR, POLE MOUNTED, CUSTOM DESIGNED, SINGLE HEAD, FULLY ADJUSTABLE SITE LIGHTING SYSTEM. PROVIDE COMPLETE SYSTEM INCLUDING BASE, POLE, ARM OR BRACKETS, & FULLY ADJUSTABLE LED LUMINAIRE HEADS. POLES SHALL BE 30FT. FIXTURES SHALL BE UL LISTED, DESIGNED & MANUFACTURED FOR OUTDOOR APPLICATIONS. SYSTEM DESIGN SHALL BE COORDINATED WITH MUSCO LIGHITNG.	AS REQUIRED	LED DRIVER	(1) LED LUMINAIRE	MUSCO LIGHTING CUSTOM LIGHTING SYSTEM DESIGN
LT55	OUTDOOR, POLE MOUNTED, CUSTOM DESIGNED, QUAD-HEAD, FULLY ADJUSTABLE SITE LIGHTING SYSTEM. PROVIDE COMPLETE SYSTEM INCLUDING BASE, POLE, ARM OR BRACKETS, & FULLY ADJUSTABLE LED LUMINAIRE HEADS. POLES SHALL BE 55FT. FIXTURES SHALL BE UL LISTED, DESIGNED & MANUFACTURED FOR OUTDOOR APPLICATIONS. SYSTEM DESIGN SHALL BE COORDINATED WITH MUSCO LIGHITNG.	AS REQUIRED	LED DRIVER	(4) LED HEADS	MUSCO LIGHTING CUSTOM LIGHTING SYSTEM DESIGN
LT70	OUTDOOR, POLE MOUNTED, CUSTOM DESIGNED, QUAD-HEAD, FULLY ADJUSTABLE SITE LIGHTING SYSTEM. PROVIDE COMPLETE SYSTEM INCLUDING BASE, POLE, ARM OR BRACKETS, & FULLY ADJUSTABLE LED LUMINAIRE HEADS. POLES SHALL BE 70FT. FIXTURES SHALL BE UL LISTED, DESIGNED & MANUFACTURED FOR OUTDOOR APPLICATIONS. SYSTEM DESIGN SHALL BE COORDINATED WITH MUSCO LIGHITNG.	AS REQUIRED	LED DRIVER	(4) LED HEADS	MUSCO LIGHTING CUSTOM LIGHTING SYSTEM DESIGN
WP1	OUTDOOR,WALL MOUNTED LUMINAIRE WITH FOLLOWING MINIMUM SPECIFICATIONS: HOUSING SHALL BE EXTRUDED ALUMINUM WITH THERMALY ISOLATED DRIVER AND OPTICAL CHAMBERS. INTEGRAL DRIVER AND HEAT SINK. EXTRUDED ALUMINUM ARM MATCHING THE FIXTURE. OPTICS SHALL BE **TYPE II** WITH SPILL CONTROL HOUSE SIDE SHIELD. UL LISTED FOR WET LOCATION (IP66 MINIMUM) THIS LED FIXTURE SHALL BE DESIGNED & TESTED IN ACCORDANCE WITH IESNA LM-79 & 80. PROVIDE COMPLETE WITH FIXTURE WALL MOUNTED BRACKETWINGS. ENTIRE ASSEMBLY SHALL BE FINISHED DARK BRONZE.	NA	(1) INTEGRAL ELECTRONIC LED DRIVERS, RATED FOR OUTDOR COLD WEATHER APPLICATIONS.	EACH HEAD SHALL INCLUDE (5) LED LIGHT BARS PRODUCING NOT LESS THAN 19,651 LUMENS, 4100K	McGRAW-EDISON - GLEON SERIES OR EQUAL
WP2	OUTDOOR,WALL MOUNTED LUMINAIRE WITH FOLLOWING MINIMUM SPECIFICATIONS: ROUNDED WEDGE SHAPED ASSEMBLY, HOUSING SHALL BE HEAVY WALL, DIE-CAST ALUMINUM & REMOVABLE HINGED DOOR FRAME. INTEGRAL ELECTRICAL COMPONENTS. IESNA **TYPE II** OPTICAL DISTRIBUTION. ENTIRE WITH FIXTURE SHALL BE SEALED TO PREVENT DEBRIES INGRESS, UL LISTED FOR WET LOCATIONS. LUMINAIRE SHALL BE MANUFACTURED & TESTED IN COMPLIENCE WITH IESNA LM-79 & LM-80 STANDARDS. LUMINAIRE SHALL ALSO BE DLC LISTED. ENTIRE ASSEMBLY SHALL BE FINISHED DARK BRONZE.	NA	(1) INTEGRAL ELECTRONIC LED DRIVERS, RATED FOR OUTDOR COLD WEATHER APPLICATIONS.	EACH HEAD SHALL INCLUDE (2) LED LIGHT BAR PRODUCING NOT LESS THAN 3,540 LUMENS, 4100K	McGRAW-EDISON - ISW SERIES OR EQUAL
WP3	OUTDOOR,WALL MOUNTED LUMINAIRE WITH FOLLOWING MINIMUM SPECIFICATIONS: ROUNDED WEDGE SHAPED ASSEMBLY, HOUSING SHALL BE HEAVY WALL, DIE-CAST ALUMINUM & REMOVABLE HINGED DOOR FRAME. INTEGRAL ELECTRICAL COMPONENTS. IESNA **TYPE IV** OPTICAL DISTRIBUTION. ENTIRE WITH FIXTURE SHALL BE SEALED TO PREVENT DEBRIES INGRESS, UL LISTED FOR WET LOCATIONS. LUMINAIRE SHALL BE MANUFACTURED & TESTED IN COMPLIENCE WITH IESNA LM-79 & LM-80 STANDARDS. LUMINAIRE SHALL ALSO BE DLC LISTED. ENTIRE ASSEMBLY SHALL BE FINISHED DARK BRONZE.	NA	(1) INTEGRAL ELECTRONIC LED DRIVERS, RATED FOR OUTDOR COLD WEATHER APPLICATIONS.	EACH HEAD SHALL INCLUDE (2) LED LIGHT BAR PRODUCING NOT LESS THAN 4,23140 LUMENS, 4100K	McGRAW-EDISON - ISW SERIES OR EQUAL
FL1	OUTDOOR, GROUND MOUNTED FLOOD LIGHT WITH FOLLOWING MINIMUM SPECIFICAITONS: ONE-PIECE, DIE-CAST ALUMINUM HOUSING WITH MATCHING DOOR ASSEMBLY. SEALED WITH EXTRUDED SILICONE GASKET. SLIPFITTER TYPE INSTALLATION. **TIGHT SPOT BAFFLE** TYPE OPTICS. PROVIDE ALL REQUIRED ACCESSORIES INCLUDING CONCRETE BASE & TENON. UL LISTED FOR WET LOCATIONS. DESIGNED & MANUFACTURED IN ACCORDANCE WITH IESNA LM-79 & LM-80 STANDARDS.	TAMPERED GLASS LENS	(1) INTEGRAL LED DRIVER, 277V	(1) 40LED ARRAY AT 350mA, DELIVERING 2,347 LUMENS	INVUE- VFS SERIES OR EQUAL
FL2	OUTDOOR, GROUND MOUNTED FLOOD LIGHT WITH FOLLOWING MINIMUM SPECIFICAITONS: ONE-PIECE, DIE-CAST ALUMINUM HOUSING WITH MATCHING DOOR ASSEMBLY. SEALED WITH EXTRUDED SILICONE GASKET. SLIPFITTER TYPE INSTALLATION. **MEDIUM SYMETRIC RECTANGULAR** TYPE OPTICS FOR SIGN ILLUMINATION FROM APPROXIMATELY 4FT SETBACK. PROVIDE WITH BARN DOORS. PROVIDE ALL REQUIRED ACCESSORIES INCLUDING CONCRETE BASE & TENON. UL LISTED FOR WET LOCATIONS. DESIGNED & MANUFACTURED IN ACCORDANCE WITH IESNA LM-79 & LM-80 STANDARDS.	TAMPERED GLASS LENS	(1) INTEGRAL LED DRIVER, 277V	(1) 20 LED ARRAY AT 350mA, DELIVERING 2,261 LUMENS	INVUE- VFS SERIES OR EQUAL
EXIT	ILLUMINAITED "EXIT" SIGN. SHALL BE CONCEALED LED TYPE IN WHITE STEEL HOUSING. DESIGNED FOR SELF POWERED OPERATION WITH BATTERY BACKUP & INTEGRAL TEST CPABILITY. UNIVERSAL MOUNTING CAPABILITY. UNIVERSAL SHEVRON STYLE KNOCKOUTS. REFER TO DRAWINGS FOR REQUIRED DIRECTIONS. SHALL BE DESIGNED & MANUFACTURED TO MEET UL 924 STANDARD.	NA	LED DRIVER	LONG LIFE RED LED	SURE-LITES - SLX SERIES OR EQUAL

LUMINAIRE SCHEDULE NOTES

1. CONTRACTOR SHALL VERIFY VOLTAGE SUPPLY TO EACH LUMINAIRE PRIOR TO ORDERING THE APPROVED FIXTURE.
2. ALL LUMINIARES SHALL BE FURNISHED COMPLETE WITH SPECIFIED LAMPS.
3. LUMINAIRES SHALL BE INDEPENDENTLY SUPPORTED IN ACCORDANCE WITH ALL APPLICABLE CODES & SPECIFICATIONS
4. CONTRACTOR SHALL VERIFY CEILING TYPE FOR EACH LUMINAIRE LOCATION & ORDER ACCORDINGLY.

4 TYPICAL DAYLIGHT HARVESTING LIGHTING CONTROL SYSTEM DIAGRAM
SCALE: NONE

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Revision Number	Issued by	Revision Description	Revision Date

DWG. TITLE

LUMINAIRE SCHEDULE

AND

LIGHTING DETAILS

DATE	09/24/2014		
SCALE	AS NOTED		
DWN.	RB	CHK.	PTV
PROJ. No.	444505		
DWG. No.	E500		