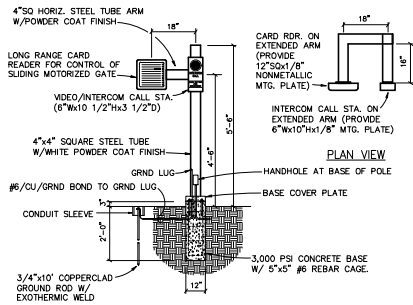


**GENERAL ELECTRICAL INSTALLATION NOTES**

1. THE ENCLOSURE MOUNTING HARDWARE PROVIDE W/ THE CONTROL PANEL SHALL BE UTILIZED TO MAINTAIN THE ENCLOSURE RATING (NEMA TYPE 4 STANDARD).
2. ALL CONDUIT CONNECTIONS TO THE CONTROL PANEL SHOULD ENTER THROUGH THE BOTTOM OF THE ENCLOSURE. ANY CONDUIT ENTRIES IN THE SIDE OR TOP OF THE ENCLOSURE WILL VOID THE WARRANTY.
3. UTILIZE SHIELDED CABLE WHERE INDICATED ON THE SCHEMATIC PROVIDED WITH THE DOOR. FAILURE TO USE SHIELDED CABLE MAY RESULT IN IMPROPER OPERATION OR PREMATURE FAILURE AND WILL VOID WARRANTY.
4. INSTALL ALL LOW VOLTAGE (< 50V) WIRING IN METALLIC CONDUIT SEPARATE FROM MOTOR/BRAKE AND OTHER HIGH VOLTAGE WIRING. FAILURE TO SEPARATE HIGH AND LOW VOLTAGE WILL VOID WARRANTY.
5. DOOR PROVIDED WITH 20 FT SHIELD MOTOR CABLE AND 50 FT SHIELDED ENCODER CABLE (STANDARD).
6. IF SPLICING OF ENCODER CABLE IS NECESSARY, MAINTAIN SHIELDING AT SPLICE.
7. THIS DETAIL OUTLINES THE GENERAL ELECTRICAL REQUIREMENTS FOR THE "HSRD" TYPE. REFER TO ELECTRICAL SCHEMATIC PROVIDED WITH THE DOOR FOR COMPLETE REQUIREMENTS.

**TYPICAL "HSRD" ELECTRICAL SCHEMATIC**

SCALE: N.T.S.

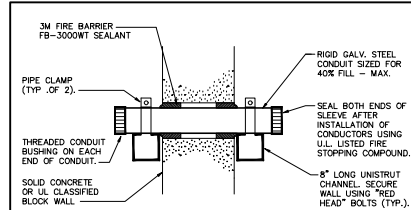


**NOTES**

1. SUBMIT DETAILED AND COMPREHENSIVE FABRICATION DRAWINGS FOR APPROVAL. DRAWINGS SHALL INCLUDE MATERIALS, ELECT. DEVICES, DEVICE ATTACHMENT, HARDWARE SIZES, CLEARANCES, CONDUIT ENTRY, ARRANGEMENT OF ALL COMPONENTS AND OVERALL COORDINATION.
2. ALL MOUNTING HARDWARE SHALL BE STAINLESS STEEL TYPE STANDARD MACHINE THREAD. SELF-TAPPING SCREWS ARE NOT ACCEPTABLE. DRILL AND TAP ALL ATTACHMENTS.
3. DIMENSIONS AND SIZINGS SHOWN ARE PROVIDED FOR GENERAL INTENT ONLY AND INDICATE THE RESULT TO BE ACHIEVED. ACTUAL DIMENSIONS AND SIZINGS SHALL REFLECT INDIVIDUAL SITE CONDITIONS.
4. MOUNTING HEIGHT OF CARD RDR. & INTERCOM CALL-IN STATION ARE CRITICAL. COORDINATE THE ACTUAL MOUNTING HEIGHTS WITH ACTUAL SITE CONDITIONS.

**CARD READER AT GATE "S1"**

SCALE: N.T.S.



**CONDUIT SLEEVE PENETRATION DETAIL**

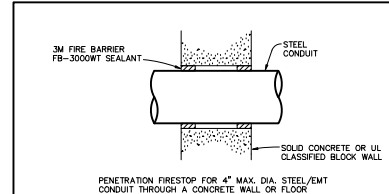
N.T.S.

**SYSTEM DETAILS**

1. SYSTEM JUSTIFICATION: UL THROUGH-PENETRATION FIRESTOP SYSTEM NO. C-AJ-1044.
2. ASSEMBLY: MINIMUM THICKNESS OF SOLID CONCRETE WALL IS 5-1/2" OR MAY BE CONSTRUCTED OF ANY UL CLASSIFIED CONCRETE BLOCKS.
3. RATINGS: F - 4 HR., T - 0 HR., W - CLASS I

**APPLICATION DETAILS**

1. INSTALL THE FIRESTOP SYMMETRICALLY ON BOTH SIDES OF THE WALL ASSEMBLY.
2. MINIMUM ANNULAR SPACE IS 1/4". MAXIMUM ANNULAR SPACE ALLOWABLE IS 1 3/8".
3. APPLIED TO FILL THE ANNULAR SPACE FLUSH WITH TOP SURFACE OF FLOOR. IN WALL ASSEMBLIES REQUIRED CAULK THICKNESS TO BE INSTALLED SYMMETRICALLY ON BOTH SIDES OF WALL FLUSH WITH WALL SURFACE. AT POINT CONTACT LOCATION BETWEEN PENETRANT AND SLEEVE OR BETWEEN PENETRANT AND CONCRETE, A MIN 1/4 IN. (6 MM) DIAM BEAD OF CAULK SHALL BE APPLIED AT TOP SURFACE OF FLOOR AND AT BOTH SURFACES OF WALL.
4. MIN 1 IN. (25 MM) THICKNESS OF MINERAL WOOL BATT INSULATION REQUIRED IN ANNULAR SPACE ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY. MIN 1 IN. (25 MM) THICKNESS OF CAULK TO BE INSTALLED FLUSH WITH EACH SURFACE OF FLOOR OR WALL ASSEMBLY.



**SYSTEM DETAILS**

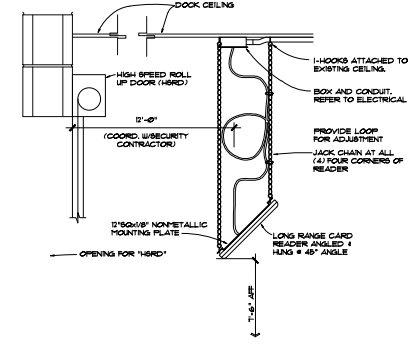
1. SYSTEM JUSTIFICATION: UL THROUGH-PENETRATION FIRESTOP SYSTEM NO. C-AJ-1044.
2. ASSEMBLY: MINIMUM THICKNESS OF SOLID CONCRETE WALL IS 5-1/2" OR MAY BE CONSTRUCTED OF ANY UL CLASSIFIED CONCRETE BLOCKS.
3. RATINGS: F - 4 HR., T - 0 HR., W - CLASS I
4. PENETRATING ITEM(S): NOMINAL 4" DIAMETER (OR SMALLER) STEEL/EMT CONDUIT. CONDUIT SHALL BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL OR FLOOR ASSEMBLY.

**APPLICATION DETAILS**

1. INSTALL THE FIRESTOP SYMMETRICALLY ON BOTH SIDES OF THE WALL ASSEMBLY.
2. MINIMUM ANNULAR SPACE IS 1/4". MAXIMUM ANNULAR SPACE ALLOWABLE IS 1 3/8".
3. APPLIED TO FILL THE ANNULAR SPACE FLUSH WITH TOP SURFACE OF FLOOR. IN WALL ASSEMBLIES REQUIRED CAULK THICKNESS TO BE INSTALLED SYMMETRICALLY ON BOTH SIDES OF WALL FLUSH WITH WALL SURFACE. AT POINT CONTACT LOCATION BETWEEN PENETRANT AND SLEEVE OR BETWEEN PENETRANT AND CONCRETE, A MIN 1/4 IN. (6 MM) DIAM BEAD OF CAULK SHALL BE APPLIED AT TOP SURFACE OF FLOOR AND AT BOTH SURFACES OF WALL.
4. MIN 1 IN. (25 MM) THICKNESS OF MINERAL WOOL BATT INSULATION REQUIRED IN ANNULAR SPACE ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY. MIN 1 IN. (25 MM) THICKNESS OF CAULK TO BE INSTALLED FLUSH WITH EACH SURFACE OF FLOOR OR WALL ASSEMBLY.

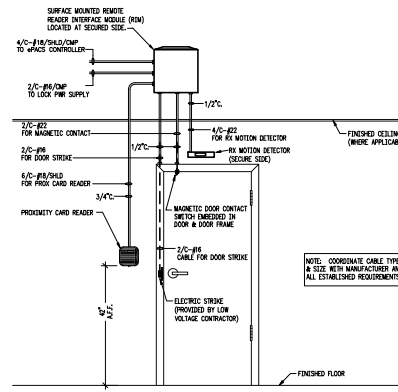
**FIRE RATED CONDUIT PENETRATION DETAIL**

N.T.S.



**TYPICAL LONG RANGE READER @ "HSRD"**

SCALE: N.T.S.

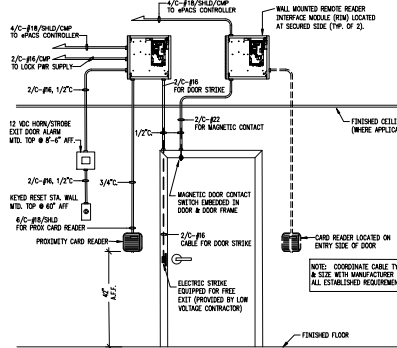


**NOTES**

1. PROVIDE ELECTRO MAGNETIC LOCK & SURFACE MOUNTED DOOR CONTACT FOR EXISTG. DOORS NOT PRESENTLY EQUIPPED WITH #FACS DEVICES (UNLESS OTHERWISE NOTED).

**TYPICAL CARD READER - SINGLE DOOR CONFIGURATION**

SCALE: N.T.S.

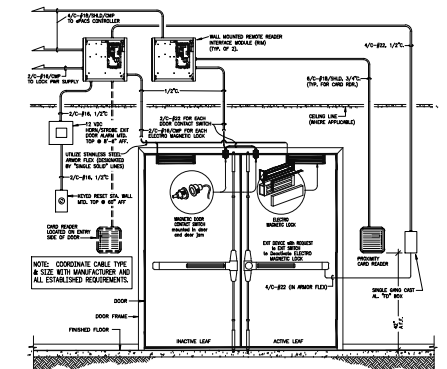


**NOTES**

1. PROVIDE ELECTRO MAGNETIC LOCK & SURFACE MOUNTED DOOR CONTACT FOR EXISTG. DOORS NOT PRESENTLY EQUIPPED WITH #FACS DEVICES (UNLESS OTHERWISE NOTED).
2. EMERGENCY EXIT ALARM SHALL BE 12VDC, EQUIPPED WITH BATTERY BACK-UP AND PROVIDED BY THE LOW VOLTAGE SUBCONTRACTOR.

**TYPICAL CARD READER - SINGLE DOOR CONFIGURATION**

SCALE: N.T.S.



**NOTES**

1. EMERGENCY EXIT ALARM SHALL BE 12VDC, EQUIPPED WITH BATTERY BACK-UP AND PROVIDED BY THE LOW VOLTAGE SUBCONTRACTOR.

**TYPICAL CARD READER - DOUBLE DOOR CONFIGURATION**

SCALE: N.T.S.

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FT. MYERS, FL 33913  
941.938.4444  
www.rollyengineering.com

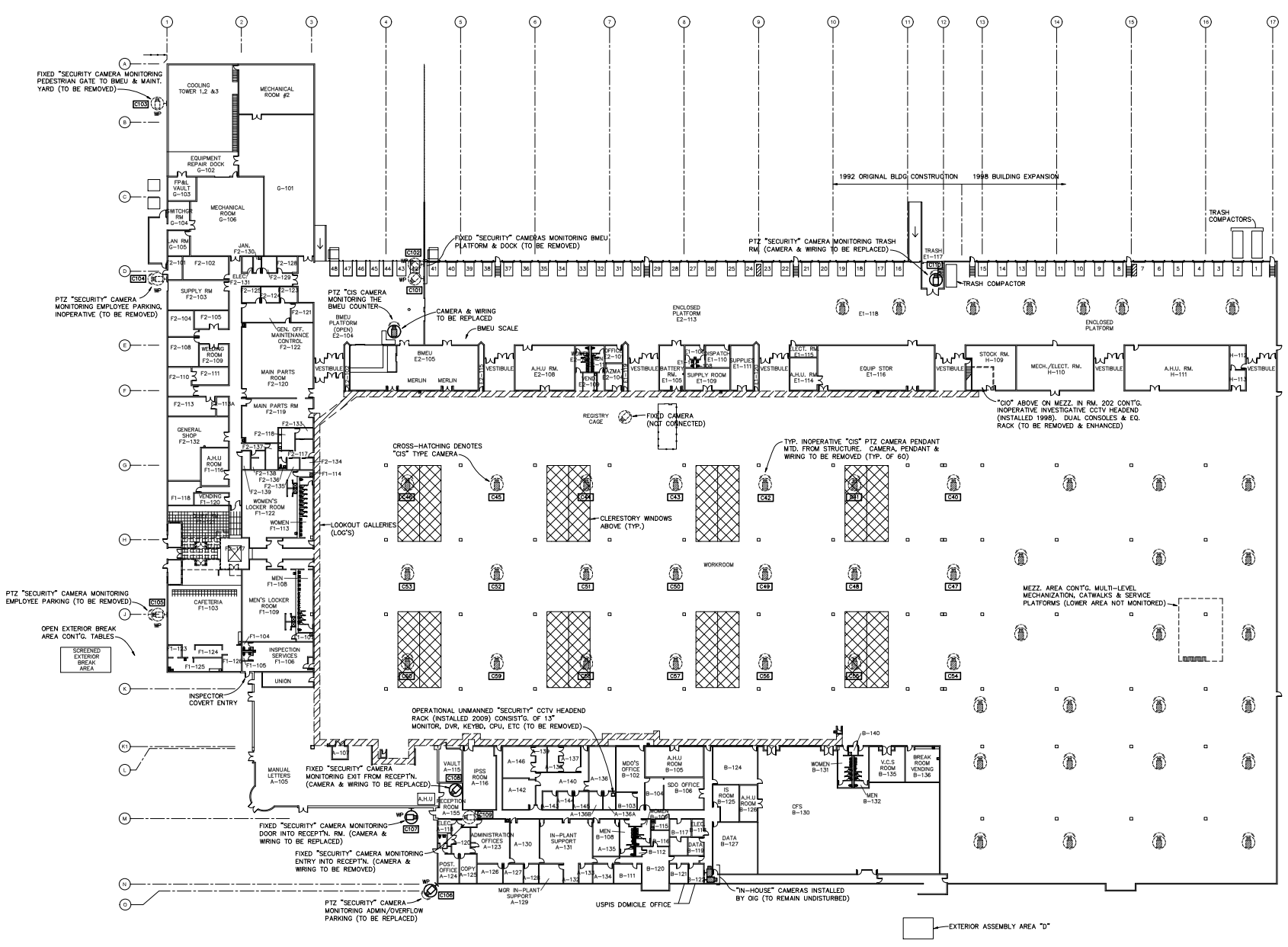
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revisions	2022-03-03
sheet name	GENERAL DETAILS



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FT. MYERS, FL 33913  
K65332

**MAG 4**  
1000 NORTH WINDY ROAD, SUITE 500, FT. MYERS, FL 33908  
813.234.4444 | info@mag4.com | www.mag4.com

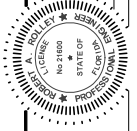
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LAST SAVED:



EXISTING FLOOR PLAN - CCTV SYSTEM  
SCALE: 1" = 30'-0"

consultant  
**ROLLEY ENGINEERING INC.**  
1000 West 44th St., Suite 201  
Tampa, FL 33607  
Phone: 813.241.4444  
Fax: 813.241.4444

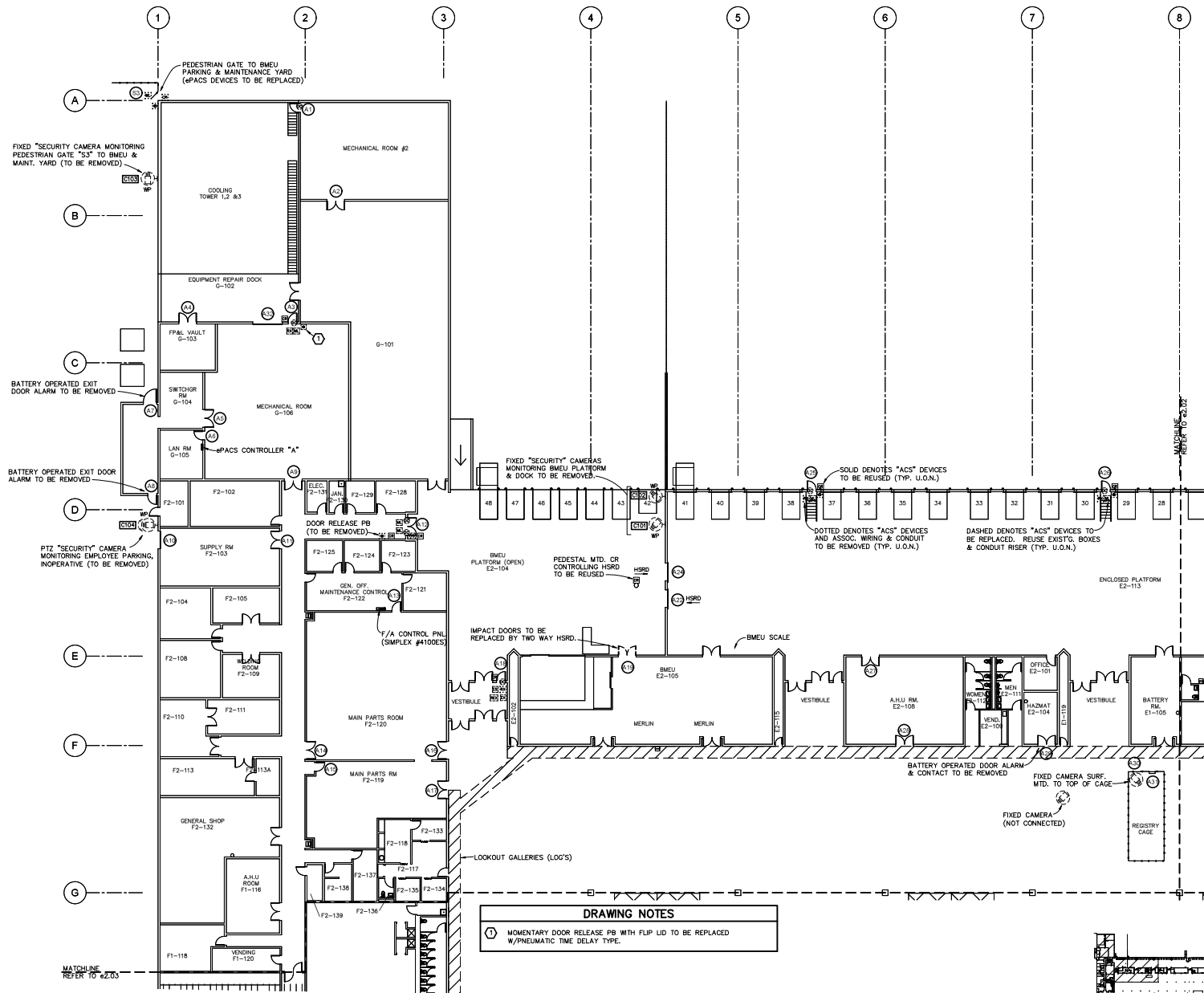
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project phases	2022-03-03
sheet title	EXISTING FLOOR PLAN - CCTV



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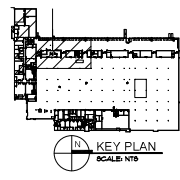


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**DRAWING NOTES**  
 1 MOMENTARY DOOR RELEASE PB WITH FLIP LID TO BE REPLACED W/PNEUMATIC TIME DELAY TYPE.

EXISTING FLOOR PLAN 'ZONE A' - ePACS & CCTV SYSTEMS  
 SCALE: 1/16" = 1'-0"



consultant  
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 1000 West 44th Street, Suite 201  
 Ft. Myers, FL 33907  
 Phone: (813) 938-4444  
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revisions	19013
project phases	STATE OF FLORIDA
sheet number	2022-03-03
project name	EXISTING ZONE A-ePACS & CCTV

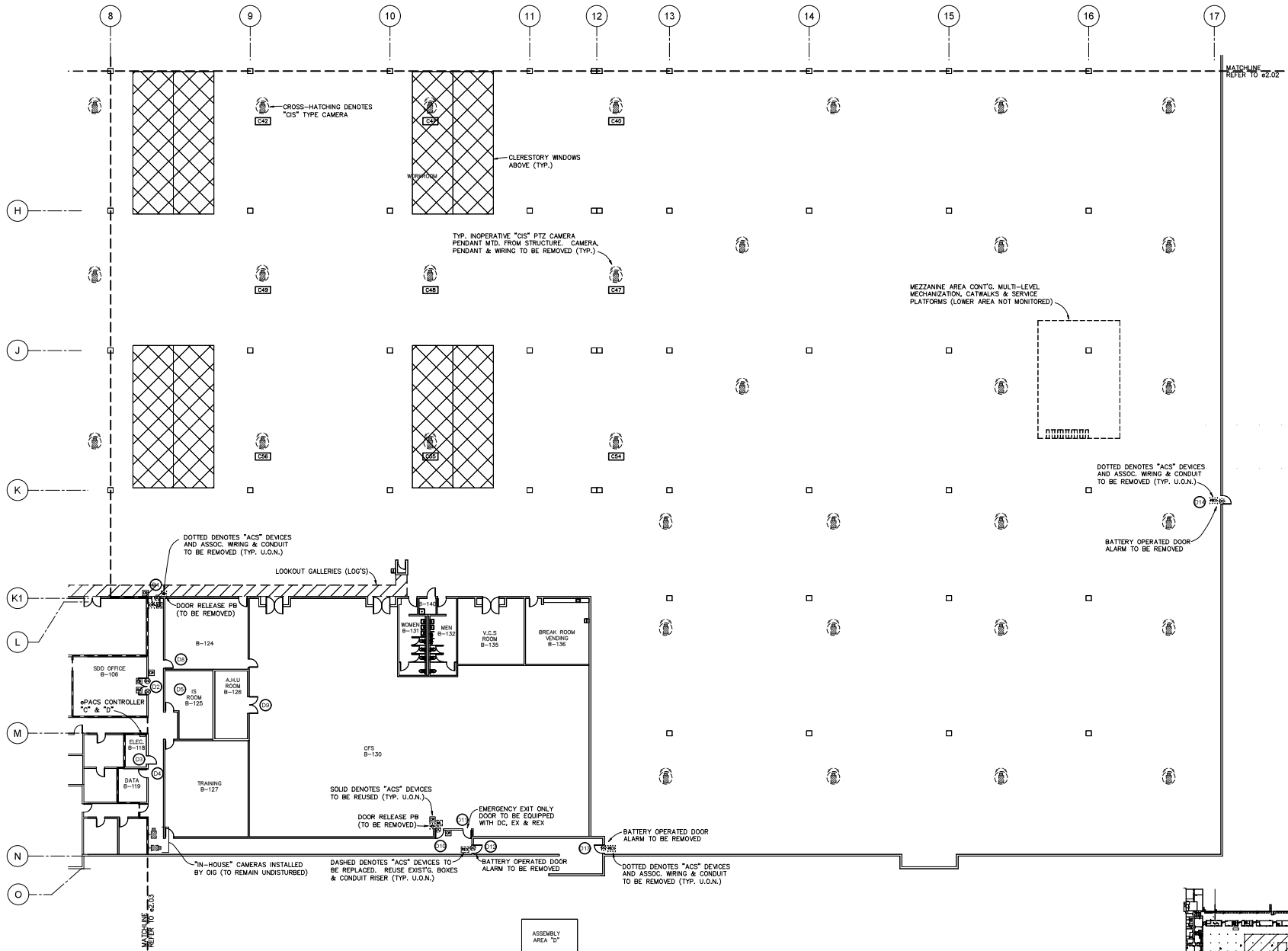
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 FT MYERS, FL 33913  
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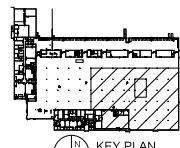


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ASSEMBLY AREA "D"

EXISTING FLOOR PLAN /ZONE D' - ePACS & CCTV SYSTEMS  
 SCALE: 1/8" = 1'-0"

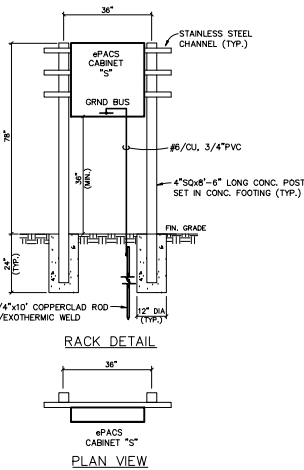
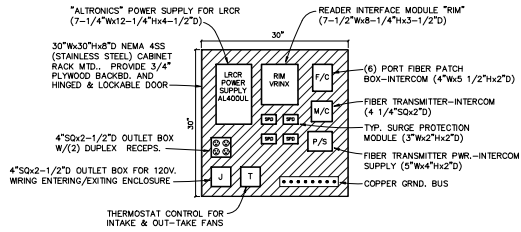


consultant  
**ROLLEY ENGINEERING INC.**  
 14080 JETPORT LOOP  
 FT. MYERS, FL 33913  
 TEL: 888-888-8888  
 FAX: 888-888-8888

revisions	19013
project phases	2022-03-03
DATE	2022-03-03
BY	JMB/JDB
CHECKED BY	JMB/JDB
DATE	2022-03-03
PROJECT	EXIST'G ZONE D-ePACS & CCTV

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 813.24.4441 | jmb@maginc.com | jdb@maginc.com | jmb@maginc.com

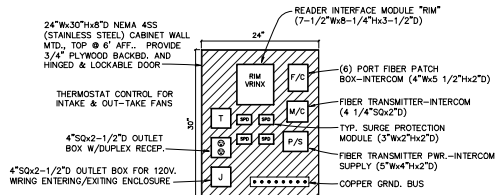


**ePACS TERMINAL CABINET 'S' - DETAIL**  
SCALE: 1"=1'-0"

**NOTES**

1. ALL COMPONENTS SHALL BE SECURELY FASTENED TO THE BACKBOARD USING FACTORY BRACKETS & APPROPRIATE WOOD SCREWS. EXCESS CABLE LENGTHS SHALL BE PROPERLY LOOPED AND SECURED USING HOOK & LOOP STRAPS; TIE-WRAPS ARE NOT ACCEPTABLE.
2. THE 120 VOLT WIRING Routed w/ THE CABINET SHALL BE CONTAINED IN CONDUIT. OPEN 120 VOLT WIRING IS NOT ACCEPTABLE.
3. ePACS TERMINAL CABINETS SHALL NOT CONTAIN OCTV COMPONENTS. THE ePACS SYS. SHALL UTILIZE INDEPENDENT WIRING, RACEWAYS & CABINETS.
4. PROVIDE SURGE PROTECTION AT BOTH ENDS OF ALL LOW VOLTAGE COPPER WIRING ENTERING & EXITING THE CABINET. PROVIDE 120 VOLT SPD'S (EDCO #FAS-100F) @ QUAD. RECEPT., (4) PER RECEPT..

**ePACS TERMINAL CABINET 'S' (INTERIOR LAYOUT) - DETAIL**  
SCALE: 1"=1'-0"



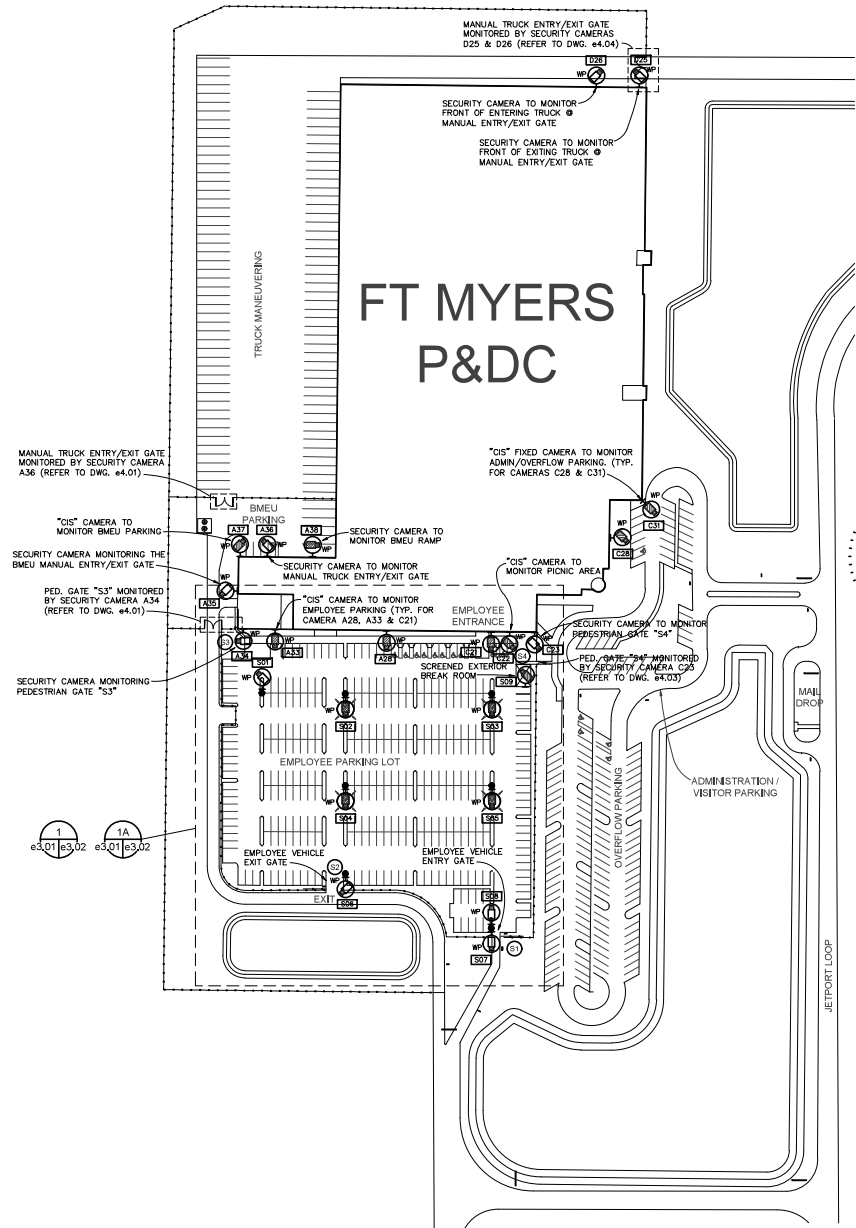
**COORDINATION NOTES - EXTERIOR SITE WORK**

1. ALL UNDERGROUND CONDUIT ROUTINGS SHALL BE COORD. WITH EXIST'G U/G UTILITIES PRIOR TO INSTALLATION OF CONDUIT. SITUATIONS EXIST WHERE CONDUITS AND UTILITIES OCCUPY THE SAME AREA.
2. PRIOR TO INSTALLATION OF CONDUIT EXISTING U/G PIPING/CONDUIT SHALL BE "TRACED" USING "GPI" DETECTION AND MARKED. NEW TRENCHING SHALL BE "HAND DUG" TO AVOID EXISTING UTILITIES. CONTRACTOR SHALL BE RESPONSIBLE FOR SAW CUTTING AND PATCHING OF EXISTING PAVING.
3. PROVIDE RED DETECTABLE WARNING TAPE 12" ABOVE ALL PROPOSED U/G CONDUIT ROUTINGS. TAPE SHALL BE SUITABLE FOR DIRECT BURIAL, 6"AMMILS & DETECTABLE BY METAL DETECTOR WHEN BURIED UP TO 2'-6" DEEP.
4. ALL UNDERGROUND CONDUITS SHALL BE BURIED, TOP @ 24" BFG, MINIMUM.
5. ALL UNDERGROUND CONDUITS SHALL TURN UP THRU EARTH UTILIZING "ROSC" ELBOWS & RISERS.
6. EXIST'G. ABANDONED U/G CONDUITS MAY BE REUTILIZED, IF FOUND ACCEPTABLE.
7. SPLICES BELOW GRADE ARE NOT ACCEPTABLE.

**NOTES**

1. ALL COMPONENTS SHALL BE SECURELY FASTENED TO THE BACKBOARD USING FACTORY BRACKETS & APPROPRIATE WOOD SCREWS. EXCESS CABLE LENGTHS SHALL BE PROPERLY LOOPED AND SECURED USING HOOK & LOOP STRAPS; TIE-WRAPS ARE NOT ACCEPTABLE.
2. THE 120 VOLT WIRING Routed w/ THE CABINET SHALL BE CONTAINED IN CONDUIT. OPEN 120 VOLT WIRING IS NOT ACCEPTABLE.
3. ePACS TERMINAL CABINETS SHALL NOT CONTAIN OCTV COMPONENTS. THE ePACS SYS. SHALL UTILIZE INDEPENDENT WIRING, RACEWAYS & CABINETS.
4. PROVIDE SURGE PROTECTION AT BOTH ENDS OF ALL LOW VOLTAGE COPPER WIRING ENTERING & EXITING THE CABINET. PROVIDE 120 VOLT SPD'S (EDCO #FAS-100F) @ DUPLEX RECEPT., (2) PER RECEPT..

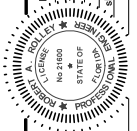
**ePACS TERMINAL CABINET 'N' (INTERIOR LAYOUT) - DETAIL**  
SCALE: 1"=1'-0"



**PROPOSED SITE PLAN - CCTV (ISIP) SYSTEM & ePACS**  
SCALE: 1"=80'-0"

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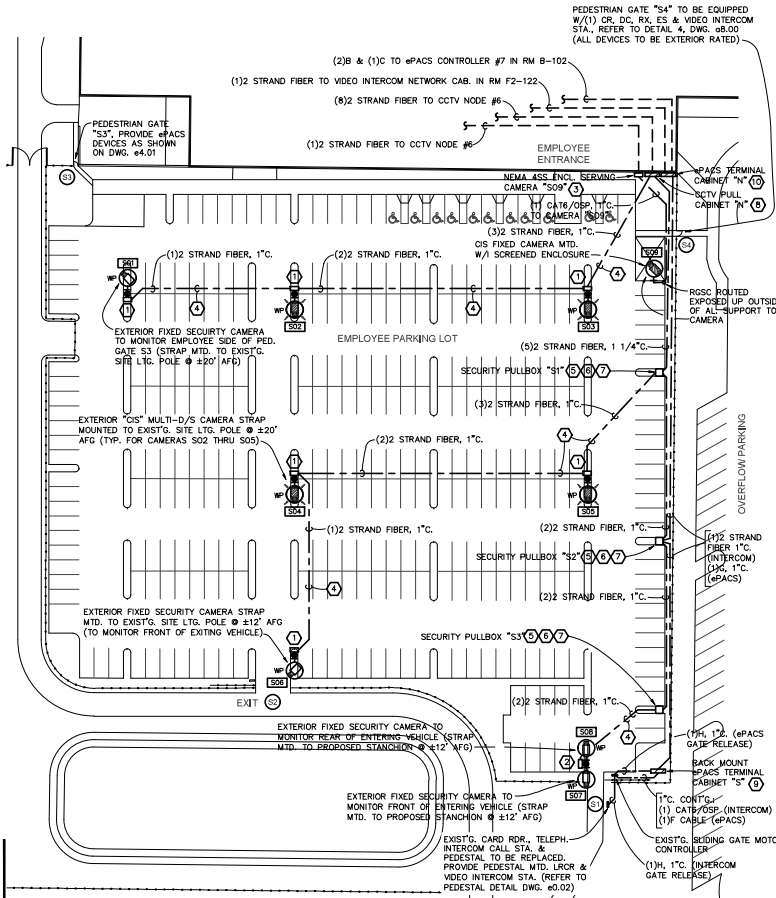
project phases	19013
revisions	2022-03-03
sheet name	SITE PLAN-CCTV & ePACS



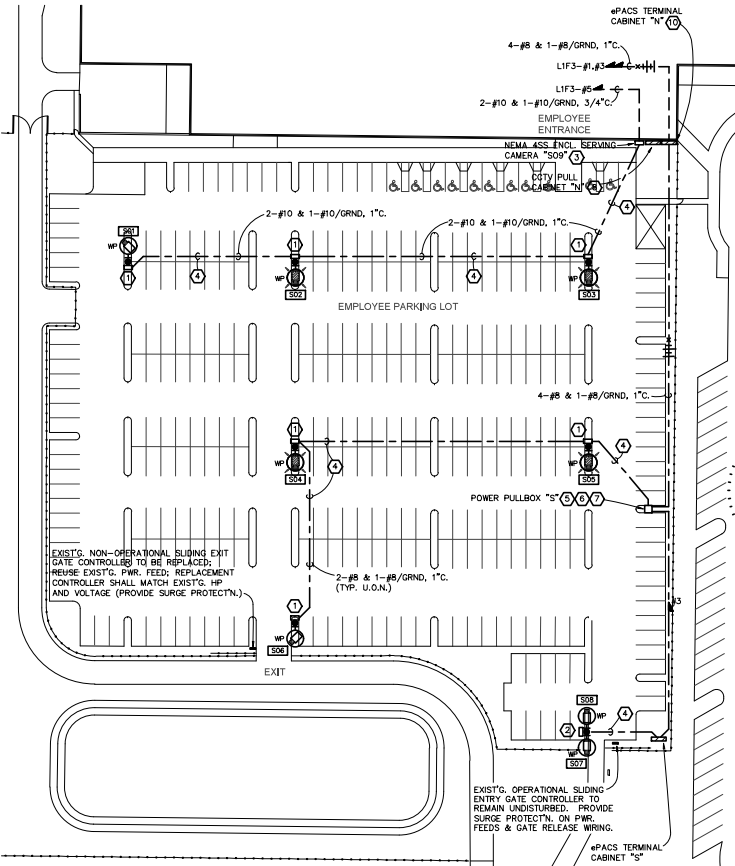
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K65332







- ### DRAWING NOTES
- ① 12"wx18"hx8" NEMA 4SS ENCL. (HINGED & LOCKABLE) HOUSING RECP., FIBER PATCH PNL, FIBER CONVERTER, INJECTOR & PWR SUPPLY. STRAP MOUNT TO POLE OR STANCHION, BOTTOM @ 24" ABOVE CONC. BASE (REFER TO DETAIL DWG. e3.03).
  - ② 12"wx24"hx8" NEMA 4SS ENCL. (HINGED & LOCKABLE) HOUSING (2) RECP'S, FIBER PATCH PNL'S, (2) FIBER CONVERTERS, (2) INJECTORS & (2) PWR SUPPLIES. STRAP MOUNT TO POLE OR STANCHION, BOTTOM @ 24" ABOVE CONC. BASE (REFER TO DETAIL DWG. e3.03).
  - ③ 12"wx18"hx8" NEMA 4SS ENCL. (HINGED & LOCKABLE) HOUSING RECP., FIBER PATCH PNL, FIBER CONVERTER, INJECTOR & PWR SUPPLY. WALL MTD. TOP @ 6' AFF. ADJACENT TO CCTV PULL CABINET "N" (REFER TO DETAIL DWG. e3.03).
  - ④ CONDUIT SHALL BE DIRECTIONALLY BORED BELOW EXIST'G. PAVING, TOP @ 24" BFG.. PROVIDE #10/THWN/CU WIRE.
  - ⑤ 17"x30"x30" POLYMER CONC. TYPE PULLBOX W/BASE & HEAVYDUTY BOLT/DOWN COVER. QUAZITE #PGT730DA30/PGT730HAA0.
  - ⑥ WIRING W/ PULLBOX SHALL BE LOOPED AROUND SIDES OF PULLBOX AND NEATLY RACKED AND TIED TO SIDES OF BOX. PROVIDE 18" GALV. CABLE RACKS ON SIDES OF BOX. PROVIDE 10 FT. SERVICE LOOPS W/ PULLBOXES. WIRING LAYING ON BOTTOM OF BOX OR ROUTED ACROSS THE CENTER OF PULLBOX IS UNACCEPTABLE. SPLICES W/ PULLBOX IS NOT PERMITTED.
  - ⑦ PULLBOX SHALL BE SET LEVEL W/GRADE IN 6" DEEP GRAVEL BED, 4" ALL AROUND EACH SIDE & BOTTOM. COORD. FINAL LOC'TN. W/ ALL U/G UTILITIES, SIDEWALKS & "GPS".
  - ⑧ 18"wx24"hx8" NEMA 4SS CCTV PULL CABINET "N" WALL MTD. TOP @ 6' AFF.. LOOP FIBER WIRING W/ CABINET W/O SPLICES. PROVIDE HINGED & LOCKABLE DOOR W/ PLYWOOD BACKBD..
  - ⑨ PROVIDE ePACS CABINET "S", RACK MTD. AS DESCRIBED BELOW:  
 QTY: 1  
 PRODUCT DESCRIPTION: 30"wx30"hx20" NEMA 4SS STAINLESS STEEL ENCLOSURE W/ PLYWOOD BACKBD. AND HINGED, LOCKABLE DOOR (REFER TO DETAIL DWG. e3.01). HOFFMAN, B-LINE OR APPROVED EQUAL.  
 (1) FACTORY INSTALLED INTAKE FAN WITH RAIN HOOD (THERMOSTAT CONTROLLED).  
 (1) FACTORY INSTALLED OUT TAKE FAN WITH RAIN HOOD (THERMOSTAT CONTROLLED).  
 (1) 120 VOLT QUADRAPLEX 4X4 OUTLET.  
 (1) LONG RANGE READER POWER SUPPLY.  
 (1) READER INTERFACE MODULE.  
 (1) FIBER PATCH PNL. (INTERCOM)  
 (1) FIBER TRANSMITTER & P/S (INTERCOM)  
 (1) COPPER GROUND BUS  
 LOT SURGE PROTECTORS (ALL 120V. & LOW VOLTAGE CONDUCTORS).  
 LOT TERMINALS STRIPS AS NECESSARY.  
 DRIVE 3/4"x10" COPPERCLAD ROD W/EXOTHERMIC WELD BELOW CABINET. BOND ROD TO GROUND BUS W/ CABINET USING #4/CU/GRND..
  - ⑩ PROVIDE ePACS CABINET "T", WALL MTD. TOP @ 6'-0" AFF., AS DESCRIBED BELOW:  
 QTY: 1  
 PRODUCT DESCRIPTION: 24"wx30"hx8" NEMA 4SS STAINLESS STEEL ENCLOSURE W/ PLYWOOD BACKBD. AND HINGED, LOCKABLE DOOR (REFER TO DETAIL DWG. e3.01). HOFFMAN, B-LINE OR APPROVED EQUAL.  
 (1) FACTORY INSTALLED INTAKE FAN WITH RAIN HOOD (THERMOSTAT CONTROLLED).  
 (1) FACTORY INSTALLED OUT TAKE FAN WITH RAIN HOOD (THERMOSTAT CONTROLLED).  
 (1) 120 VOLT DUPLEX 4X4 OUTLET.  
 (1) READER INTERFACE MODULE.  
 (1) FIBER PATCH PNL. (INTERCOM)  
 (1) FIBER TRANSMITTER & P/S (INTERCOM)  
 (1) COPPER GROUND BUS  
 LOT SURGE PROTECTORS (ALL 120V. & LOW VOLTAGE CONDUCTORS).  
 LOT TERMINALS STRIPS AS NECESSARY.  
 DRIVE 3/4"x10" COPPERCLAD ROD W/EXOTHERMIC WELD BELOW CABINET. BOND ROD TO GROUND BUS W/ CABINET USING #4/CU/GRND..



**PROPOSED PARTIAL SITE PLAN - CCTV (ISIP) SYSTEM & ePACS**  
 SCALE: 1"=40'-0"

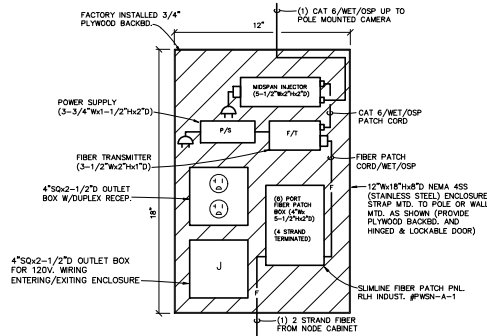
**PROPOSED PARTIAL SITE PLAN - ELECTRICAL POWER**  
 SCALE: 1"=40'-0"

**FT. MYERS P&DC**  
**SECURITY UPGRADES**  
 14080 JETPORT LOOP  
 FT MYERS, FL 33913  
 K65332

consultant  
 revisions  
 project phases  
 19013  
 State, Job# 2022-03-03  
 sheet name  
 SITE PLAN-CCTV & ePACS

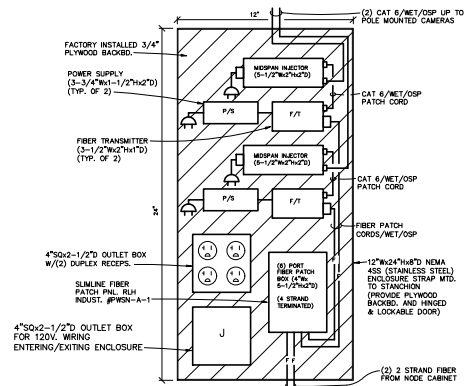
ROLLEY ENGINEERING INC.  
 14000 W. UNIVERSITY BLVD. SUITE 200  
 FT. MYERS, FL 33907  
 (813) 241-4444 | [email]

1909-1010.dwg March 04 2010 10:55am  
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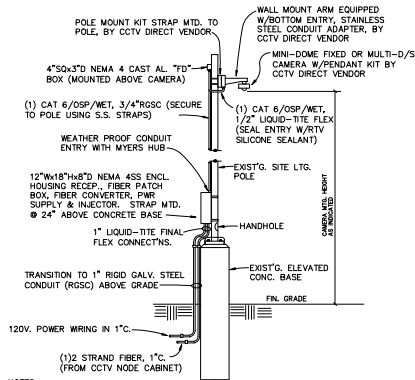
- NOTES**
1. THE NEMA 4SS ENCLOSURE, BACKBOARD, FIBER PATCH PNL., SPD'S, RECP'S, & 120 VOLT WRING, PATCH CORDS AND CABLING SHALL BE PROVIDED BY THE CONTRACTOR. INJECTORS, FIBER TRANSMITTERS AND POWER SUPPLIES ARE FURNISHED BY THE CCTV DIRECT VENDOR.
  2. ALL COMPONENTS SHALL BE SECURELY FASTENED TO THE BACKBOARD USING FACTORY BRACKETS & APPROPRIATE WOOD SCREWS. USE OF DOUBLE SIDED ADHESIVE HOOK & LOOP STRAPS IS NOT ACCEPTABLE.
  3. FIBER TRANSMITTERS SHALL NOT BE SECURED ATOP OF THE INJECTORS.
  4. PATCH CORDS SHALL BE AS LONG AS NECESSARY FOR THE APPLICATION, BUT AS SHORT AS POSSIBLE TO AVOID LARGE CABLE BUNDLES.
  5. EXCESS CABLE LENGTHS SHALL BE PROPERLY LOOPED AND SECURED USING HOOK & LOOP STRAPS; TE-WRAPS ARE NOT ACCEPTABLE.
  6. THE 120 VOLT WRING ROUTED W/ THE ENCLOSURE SHALL BE CONTAINED IN CONDUIT. OPEN 120 VOLT WRING IS NOT ACCEPTABLE. PROVIDE 120 VOLT SPD'S (EODC #FAS-100P @ RECP'S).
  7. A 6 FT. FIBER OPTIC SERVICE LOOP SHALL BE INSTALLED WITHIN THE ENCLOSURE. SERVICE LOOP SHALL BE INSTALLED SUCH THAT THE MINIMUM BEND RADIUS IS NOT EXCEEDED. ONCE THE FIBER REACHES THE PATCH PANEL, THERE SHALL BE NO LESS THAN 3 FEET OF UNSHEATHED FIBER INSTALLED NEATLY IN STORAGE TRAY PRIOR TO TERMINATORS BEING INSTALLED.
  8. THIS DETAIL IS TYP. FOR THE ENCLOSURES SERVING CAMERAS S01 THRU S09.

**NEMA 4SS EXTERIOR ENCLOSURE - SINGLE CAMERA POLE**  
 SCALE: N.T.S.



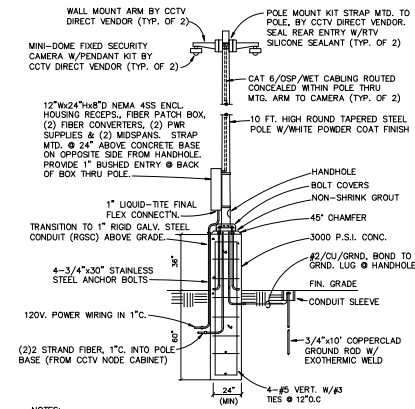
- NOTES**
1. THE NEMA 4SS ENCLOSURE, BACKBOARD, FIBER PATCH PNL., SPD'S, RECP'S, & 120 VOLT WRING, PATCH CORDS AND CABLING SHALL BE PROVIDED BY THE CONTRACTOR. INJECTORS, FIBER TRANSMITTERS AND POWER SUPPLIES ARE FURNISHED BY THE CCTV DIRECT VENDOR.
  2. ALL COMPONENTS SHALL BE SECURELY FASTENED TO THE BACKBOARD USING FACTORY BRACKETS & APPROPRIATE WOOD SCREWS. USE OF DOUBLE SIDED ADHESIVE HOOK & LOOP STRAPS IS NOT ACCEPTABLE.
  3. FIBER TRANSMITTERS SHALL NOT BE SECURED ATOP OF THE INJECTORS.
  4. PATCH CORDS SHALL BE AS LONG AS NECESSARY FOR THE APPLICATION, BUT AS SHORT AS POSSIBLE TO AVOID LARGE CABLE BUNDLES.
  5. EXCESS CABLE LENGTHS SHALL BE PROPERLY LOOPED AND SECURED USING HOOK & LOOP STRAPS; TE-WRAPS ARE NOT ACCEPTABLE.
  6. THE 120 VOLT WRING ROUTED W/ THE ENCLOSURE SHALL BE CONTAINED IN CONDUIT. OPEN 120 VOLT WRING IS NOT ACCEPTABLE. PROVIDE 120 VOLT SPD'S (EODC #FAS-100P @ F.A. RECP'S).
  7. A 6 FT. FIBER OPTIC SERVICE LOOP SHALL BE INSTALLED WITHIN THE ENCLOSURE. SERVICE LOOP SHALL BE INSTALLED SUCH THAT THE MINIMUM BEND RADIUS IS NOT EXCEEDED. ONCE THE FIBER REACHES THE PATCH PANEL, THERE SHALL BE NO LESS THAN 3 FEET OF UNSHEATHED FIBER INSTALLED NEATLY IN STORAGE TRAY PRIOR TO TERMINATORS BEING INSTALLED.
  8. THIS DETAIL IS TYP. FOR THE POLE MTD. ENCLOSURES SERVING CAMERAS S07/S08.

**NEMA 4SS EXTERIOR ENCLOSURE - DUAL CAMERA POLE**  
 SCALE: N.T.S.



- NOTES**
1. DETAIL DRAWN AS AN END-OF-LINE CAMERA. PROVIDE ADD'L CONDUITS FOR INTERMEDIATE CAMERA LOCATIONS REQUIRING ENTERING & EXITING CONDUITS.
  2. THIS DETAIL IS TYP. FOR POLE MOUNTED CAMERAS S01 THRU S06.

**POLE MOUNTED CAMERA DETAIL - SINGLE CAMERA (EXISTING CONSTRUCTION)**  
 SCALE: N.T.S.



- NOTES**
1. DETAIL DRAWN AS AN END-OF-LINE CAMERA. PROVIDE ADD'L CONDUITS FOR INTERMEDIATE CAMERA LOCATIONS REQUIRING ENTERING & EXITING CONDUITS.
  2. COMPLETE ASSEMBLY W/BASE, POLE & CAMERA SHALL WITHSTAND 180 MPH (3 SEC. GUST) OR 139 MPH BASIC WIND SPEED (FASTEST MILE). PROVIDE BOLT COVER & STAINLESS STEEL ANCHOR BOLTS.
  3. THIS DETAIL IS TYP. FOR STANCHION MTD. CAMERAS S07/S08.

**POLE MOUNTED CAMERA DETAIL - DUAL CAMERA (NEW CONSTRUCTION)**  
 SCALE: N.T.S.

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 revisions  
 19013  
 2022-03-03  
 project phase  
 issue date  
 sheet number  
 POLE MTD. CAMERA DETAILS

100% COMPLETE  
 NO FIELD CHANGES  
 STATE OF FLORIDA  
 PROFESSIONAL SEAL  
 LICENSE NO. 12513  
 EXPIRES 12/31/2024

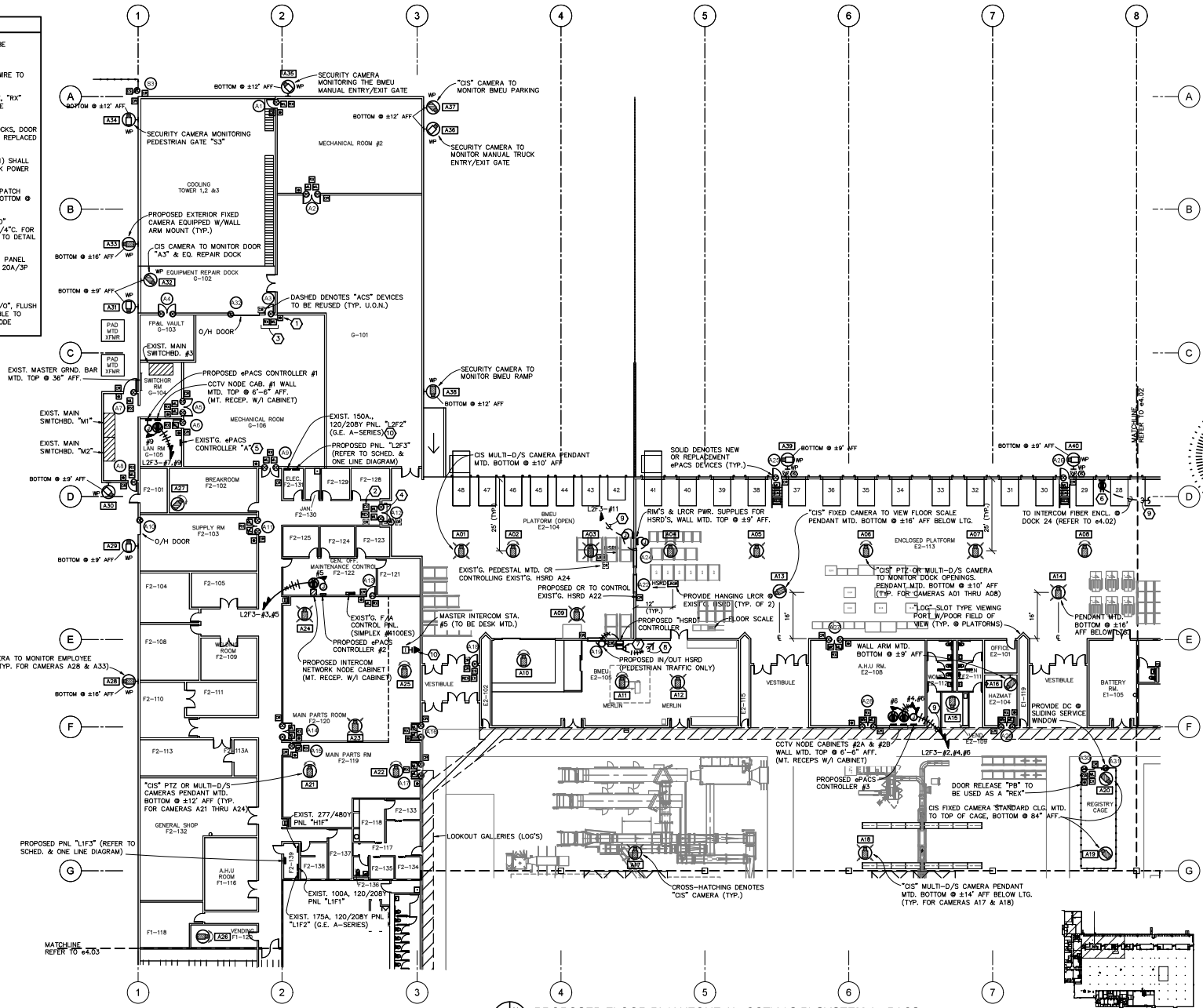
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**e3.03**  
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**DRAWING NOTES**

- 1 EXIST'G. MOMENTARY FLIP-LID, DOOR RELEASE PUSHBUTTON TO BE REPLACED BY PNEUMATIC TIME DELAY PUSHBUTTON. REWIRE TO REPLACEMENT "RM".
- 2 PROVIDE 12 VDC EM. EXIT ALARM W/KEYED RESET SWITCH AND WIRE TO REPLACEMENT "RM".
- 3 EXIST'G. DOOR LEAF TO BE REPLACED. PROVIDE NEW MAG. LOCK, "RX" SENSOR, DOOR CONTACT & ASSOC. WIRING. EXIST'G. "RM" TO BE REPLACED AND RE-TERMINATED TO EXIST'G. CONTROLLER.
- 4 EXIST'G. DOOR LEAVES TO BE REPLACED. PROVIDE NEW MAG. LOCKS, DOOR CONTACTS, EXIT ALARM & ASSOC. WIRING. EXIST'G. "RM" TO BE REPLACED AND RE-TERMINATED TO EXIST'G. CONTROLLER.
- 5 EXIST'G. ePACS, (16) DOOR CONTROLLER (VANDERBILT # SRNX-1) SHALL BE SERVICED TO ENSURE ITS PROPER OPERATION. EXIST'G. LOCK POWER SUPPLIES & BATTERIES SHALL BE REPLACED.
- 6 18"SOA8"0 INTERCOM ENCL. CONTG. CONTG. FIBER PATCH PNL., FIBER TRANSMITTER, PWR. SUPPLY & RCPT., WALL MTD. BOTTOM @ ±12" AFF. U.O.N.. REFER TO DETAIL DWG. e7.04.
- 7 PROVIDE 3/30/100E FUSIBLE DISC. MTD. ABOVE PROPOSED "HSRD" CONTROLLER. PROVIDE 3-#10 & 1-#10/GRND, 3/4", WITH 1-3/4" C. FOR CONTROLS FROM CONTROLLER TO MOTOR TERMINAL BOX. REFER TO DETAIL DWG. e0.02.
- 8 PROPOSED "HSRD" (2 HP @ 208V.) SHALL BE FED FROM EXIST'G. PANEL "L2F2". REPLACE EXIST'G. 20A/1P BRKR. #38, #40 & #42 WITH 20A/3P BRKR. NEW BRKR. TO MATCH EXIST'G.
- 9 PROVIDE #10/THWN/CU CONDUCTORS (TYP. FOR ENTIRE RUN).
- 10 PROVIDE 4"SO. OUTLET BOX EQUIPPED W/SINGLE JACK/CAT 6 "T"/O. FLUSH WALL MTD. BOTTOM @ 24" AFF. PROVIDE CAT6/OMP/PATCH CABLE TO MASTER #5. ROUTE (1) CAT 6 CABLE TO INTERCOM NETWORK NODE CABINET.



**PROPOSED FLOOR PLAN 'ZONE A' - CCTV (ISIP) SYSTEM & ePACS**  
SCALE: 1/64" = 1'-0"

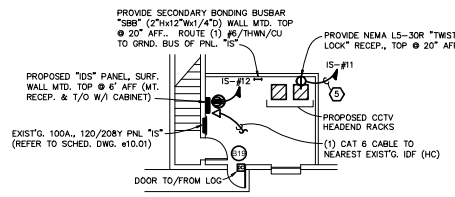


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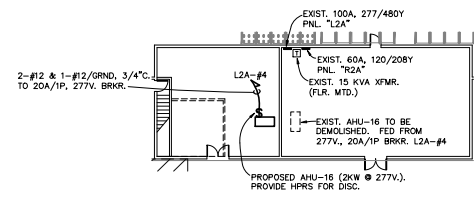
consultant  
**ROLLEY ENGINEERING INC.**  
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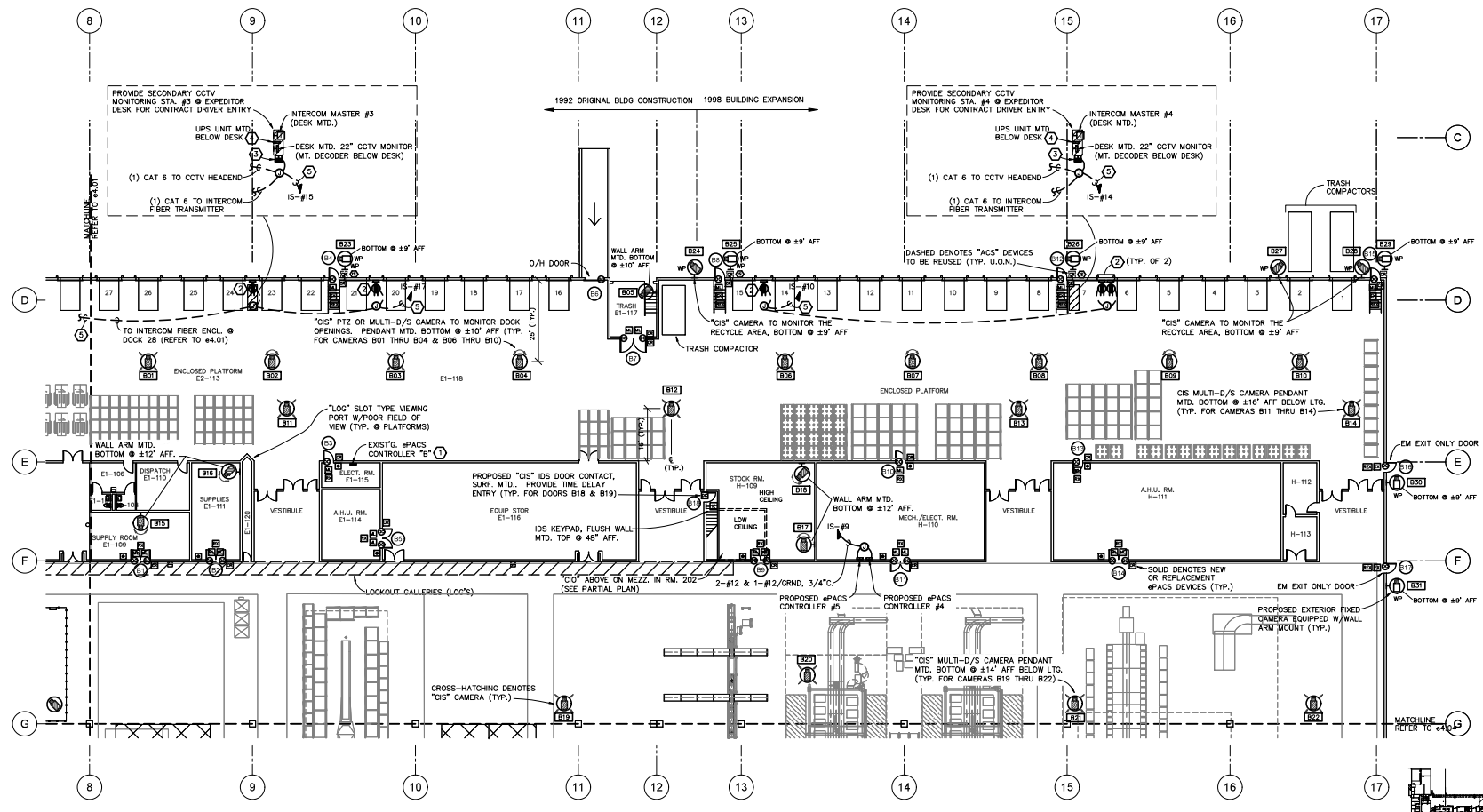
- DRAWING NOTES**
- EXIST'G. #PACS, (16) DOOR CONTROLLER (VANDERBILT # SRCKN-1) SHALL BE SERVICED TO ENSURE ITS PROPER OPERATION. EXIST'G. LOCK POWER SUPPLIES & BATTERIES SHALL BE REPLACED.
  - 18"SQx48" INTERIOR VIDEO ENCLOSURE CONT'G. FIBER PATCH PNL., FIBER TRANSMITTER, PWR. SUPPLY & RECP., WALL MTD. BOTTOM @ ±12" AFF., U.O.N. REFER TO DETAIL DWG. 47.04.
  - PROVIDE 2-3/4"x3/16" DUAL SECTION, STEEL DATA/PWR POLE CONT'G. (1) DUPLEX, NEMA 5-20R RECP., (2) CAT6/RJ45 JACKS, WIREMOLD #301P-4V (GRAY).
  - PROVIDE 1000VA/900 WATT, LINE INTERACTIVE TOWER TYPE UPS W/(18) MINUTE BATTERY RESERVE @ 450 WATTS. TRIP-LITE #SRN1T00RMA2U.
  - PROVIDE #10/THMN/CU CONDUCTORS (TYP. FOR ENTIRE RUN).



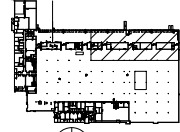
CIO ABOVE ON MEZZ. IN RM 202  
SCALE: 1/8" = 1'-0"



STOCK RM H-109 & MECH/ELECT RM H-110  
SCALE: 1/8" = 1'-0"



PROPOSED FLOOR PLAN 'ZONE B' - CCTV (ISIP) SYSTEM & #PACS  
SCALE: 1/8" = 1'-0"



KEY PLAN  
SCALE: N/D

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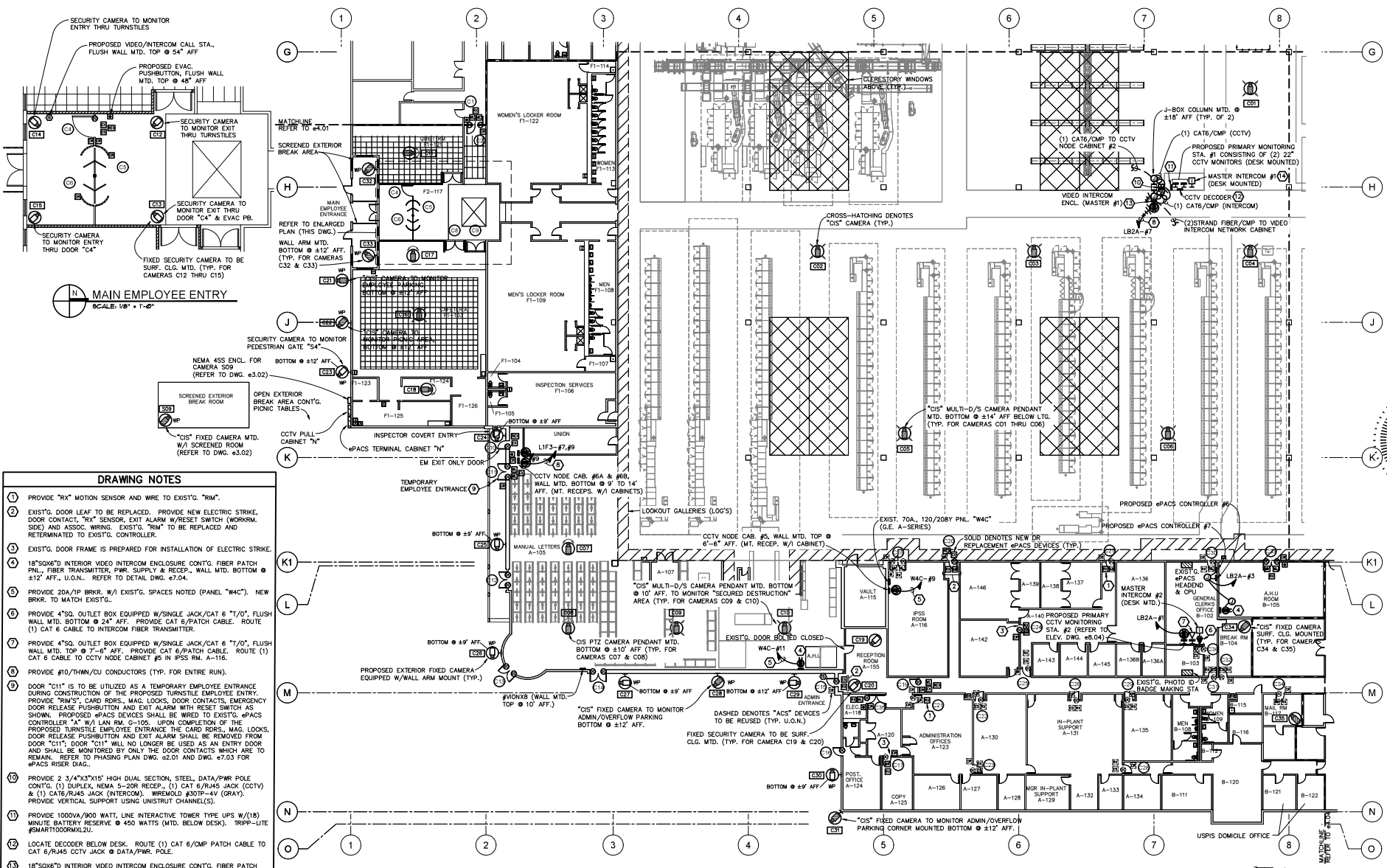
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DESIGNED BY: JMB/JFB  
CHECKED BY: JMB/JFB  
PROJECT NO.: 1805-10.01

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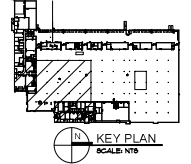
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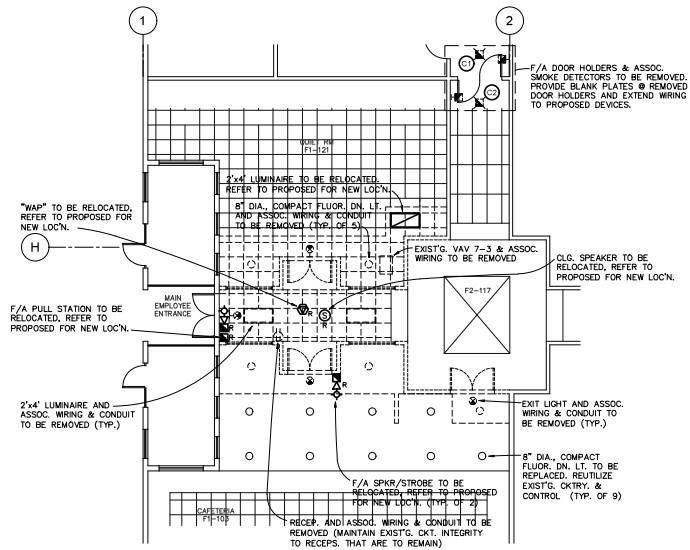


- DRAWING NOTES**
- 1 PROVIDE "RX" MOTION SENSOR AND WIRE TO EXIST'G. "RIM".
  - 2 EXIST'G. DOOR LEAF TO BE REPLACED. PROVIDE NEW ELECTRIC STRIKE, DOOR CONTACT, "RX" SENSOR, EXIT ALARM W/RESET SWITCH (WORKRM. SIDE) AND ASS'G. WIRING. EXIST'G. "RIM" TO BE REPLACED AND RE-TERMINATED TO EXIST'G. CONTROLLER.
  - 3 EXIST'G. DOOR FRAME IS PREPARED FOR INSTALLATION OF ELECTRIC STRIKE.
  - 4 18"SQX6"D INTERIOR VIDEO INTERCOM ENCLOSURE CONT'G. FIBER PATCH PNL., FIBER TRANSMITTER, PWR. SUPPLY & RECP., WALL MTD. BOTTOM @ #12" AFF., U.O.N.L. REFER TO DETAIL DWG. #7-04.
  - 5 PROVIDE 20A/1P BRKR. W/1 EXIST'G. SPACES NOTED (PANEL "W4C"). NEW BRKR. TO MATCH EXIST'G.
  - 6 PROVIDE 4"SQ. OUTLET BOX EQUIPPED W/SINGLE JACK/CAT @ "1/0", FLUSH WALL MTD. BOTTOM @ 24" AFF. PROVIDE CAT 6/PATCH CABLE. ROUTE (1) CAT 6 CABLE TO INTERCOM FIBER TRANSMITTER.
  - 7 PROVIDE 4"SQ. OUTLET BOX EQUIPPED W/SINGLE JACK/CAT @ "1/0", FLUSH WALL MTD. TOP @ 7'-6" AFF. PROVIDE CAT 6/PATCH CABLE. ROUTE (1) CAT 6 CABLE TO CCTV NODE CABINET #2 IN PWS RM. A-116.
  - 8 PROVIDE #10/THHN/CU CONDUCTORS (TYP. FOR ENTIRE RUN).
  - 9 DOOR "C11" IS TO BE UTILIZED AS A TEMPORARY EMPLOYEE ENTRANCE DURING CONSTRUCTION OF THE PROPOSED TURNSTILE EMPLOYEE ENTRY. PROVIDE "RIM" S, CARD RDERS., MAG. LOCKS, DOOR CONTACTS, EMERGENCY DOOR RELEASE PUSHBUTTON AND EXIT ALARM W/RESET SWITCH AS SHOWN. PROPOSED ePACS DEVICES SHALL BE WIRED TO EXIST'G. ePACS CONTROLLER "A" W/1 LAN RM. G-105. UPON COMPLETION OF THE PROPOSED TURNSTILE EMPLOYEE ENTRANCE THE CARD RDERS., MAG. LOCKS, DOOR RELEASE PUSHBUTTON AND EXIT ALARM SHALL BE REMOVED FROM DOOR "C11". DOOR "C11" WILL NO LONGER BE USED AS AN ENTRY DOOR AND SHALL BE MONITORED BY ONLY THE DOOR CONTACTS WHICH ARE TO REMAIN. REFER TO PHASING PLAN DWG. #2-01 AND DWG. #7-03 FOR ePACS RISER DIAG.
  - 10 PROVIDE 2 3/4"X3"X15" HIGH DUAL SECTION, STEEL, DATA/PWR POLE CONT'G. (1) DUPLEX, NEMA 5-20R RECP., (1) CAT 6/RJ45 JACK (CCTV) & (1) CAT6/RJ45 JACK (INTERCOM). WIREMOLD #307P-4V (GRAY). PROVIDE VERTICAL SUPPORT USING UNISTRUT CHANNEL(S).
  - 11 PROVIDE 1000VA/900 WATT LINE INTERACTIVE TOWER TYPE UPS W/1(8) MINUTE BATTERY RESERVE @ 450 WATTS (MTD. BELOW DESK). TRIP-LITE #SMART1000RXL2U.
  - 12 LOCATE DECODER BELOW DESK. ROUTE (1) CAT 6/CMP PATCH CABLE TO CAT 6/RJ45 CCTV JACK @ DATA/PWR. POLE.
  - 13 18"SQX6"D INTERIOR VIDEO INTERCOM ENCLOSURE CONT'G. FIBER PATCH PNL., FIBER TRANSMITTER, PWR. SUPPLY & RECP., COLUMN MTD. BOTTOM @ #18" AFF. REFER TO DETAIL DWG. #7-04.
  - 14 ROUTE (1) CAT6/CMP PATCH CORD FROM INTERCOM MASTER TO CAT6/RJ45 INTERCOM JACK @ DATA/PWR. POLE.

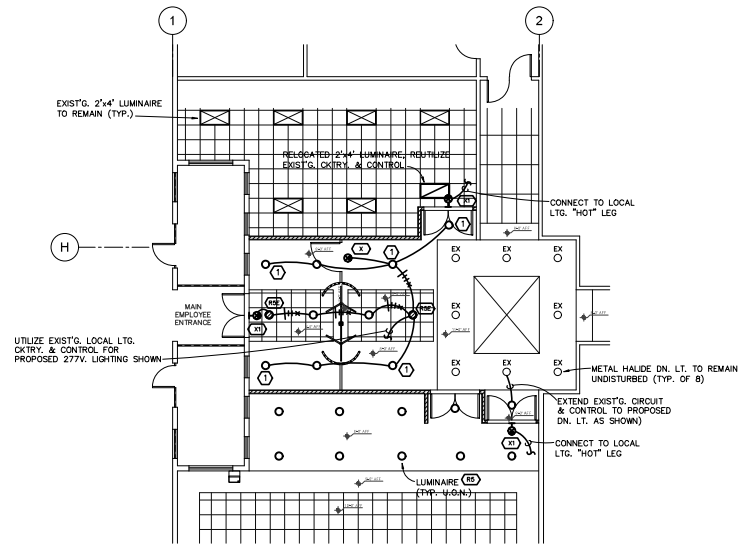
**PROPOSED FLOOR PLAN 'ZONE C' - CCTV (ISIP) SYSTEM & ePACS**  
 SCALE: 1/8" = 1'-0"



consultant  
**ROLLEY ENGINEERING INC.**  
 19013  
 2022-03-03  
 project phases  
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 e4.03



**MAIN EMPLOYEE ENTRY - DEMOLITION ELECTRICAL PLAN**  
SCALE: 1/8" = 1'-0"



**PROPOSED MAIN EMPLOYEE ENTRY - LIGHTING**  
SCALE: 1/8" = 1'-0"

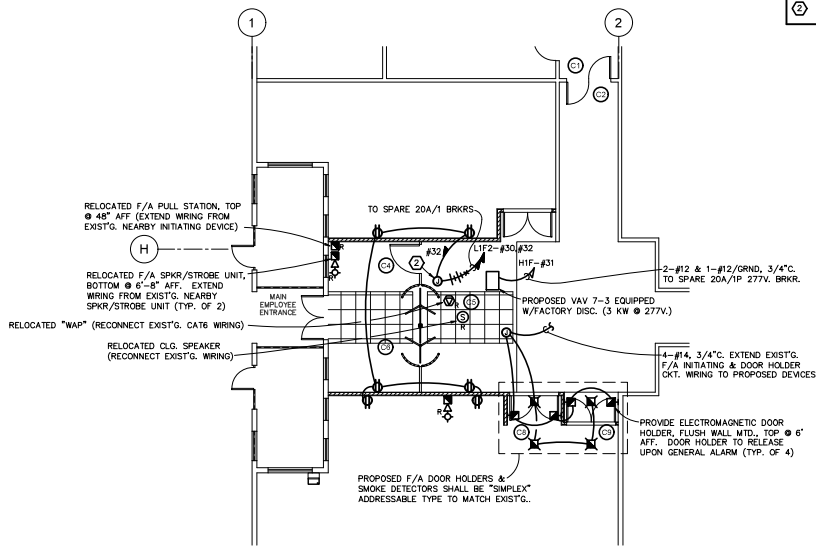
- DRAWING NOTES**
- ① DOWNLIGHT SHALL BE ENCASED W/1 HR FIRE RATED, GYPSUM DRYWALL BOX.
  - ② PROVIDE J-BOX & 120 VOLT CKTRY. FOR PROPOSED TURNSTILE.

**LUMINAIRE SCHEDULE**

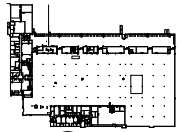
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(E)	15	LED ARRAY (1500 LUMENS) (4000K)	120/277V	6" OPEN "LED" DOWNLIGHT W/WHITE REFLECTOR/FRM. GOTHAM REV06-60/15-6WR-MD-LD-MVOLT-E210	RECESS MID. (SELF FLANKED)
(E2)			120/277-6V	SAME AS TYPE "E2A" EXCEPT EQUIPPED W/ INTERNAL BATTERY PACK. GOTHAM REV06-60/15-6WR-MD-LD-MVOLT-E210-E15	
(E3)	5	LED LIGHT SOURCE		SINGLE FACE BATTERY OPERATED "LED" TYPE EXIT LIGHT W/UNIVERSAL ARROWS, RED LETTERS, NICKEL CADMIUM BATTERY. POLYCARBONATE HOUSING & WHITE FINISH. LITHONIA #LDM-5-W-3-R-120/277-ELN-S0	TOP MTD. (SUPPORT FROM STRUCTURE ABOVE)
(E4)				SAME AS TYPE "E3" EXCEPT BACK MOUNTED. LITHONIA #LDM-5-W-3-R-120/277-ELN-S0	BACK MOUNTED ABOVE DOOR OR TOP @ 7'-6" AFF.

**NOTE:**

- PROVIDE LUMINAIRE SUBMITTAL FOR ENGINEER'S APPROVAL, PRIOR TO INSTALLATION.
- ALL METAL COMPONENTS OF LUMINAIRES SHALL BE FACTORY PAINTED AFTER FABRICATION.
- ALL EMERG. BATTERY PACKS SHALL PROVIDE 90 MINUTES OF ILLUMINATION @ 700 LUMENS.



**PROPOSED MAIN EMPLOYEE ENTRY - POWER & MISC.**  
SCALE: 1/8" = 1'-0"



**KEY PLAN**  
SCALE: NTD

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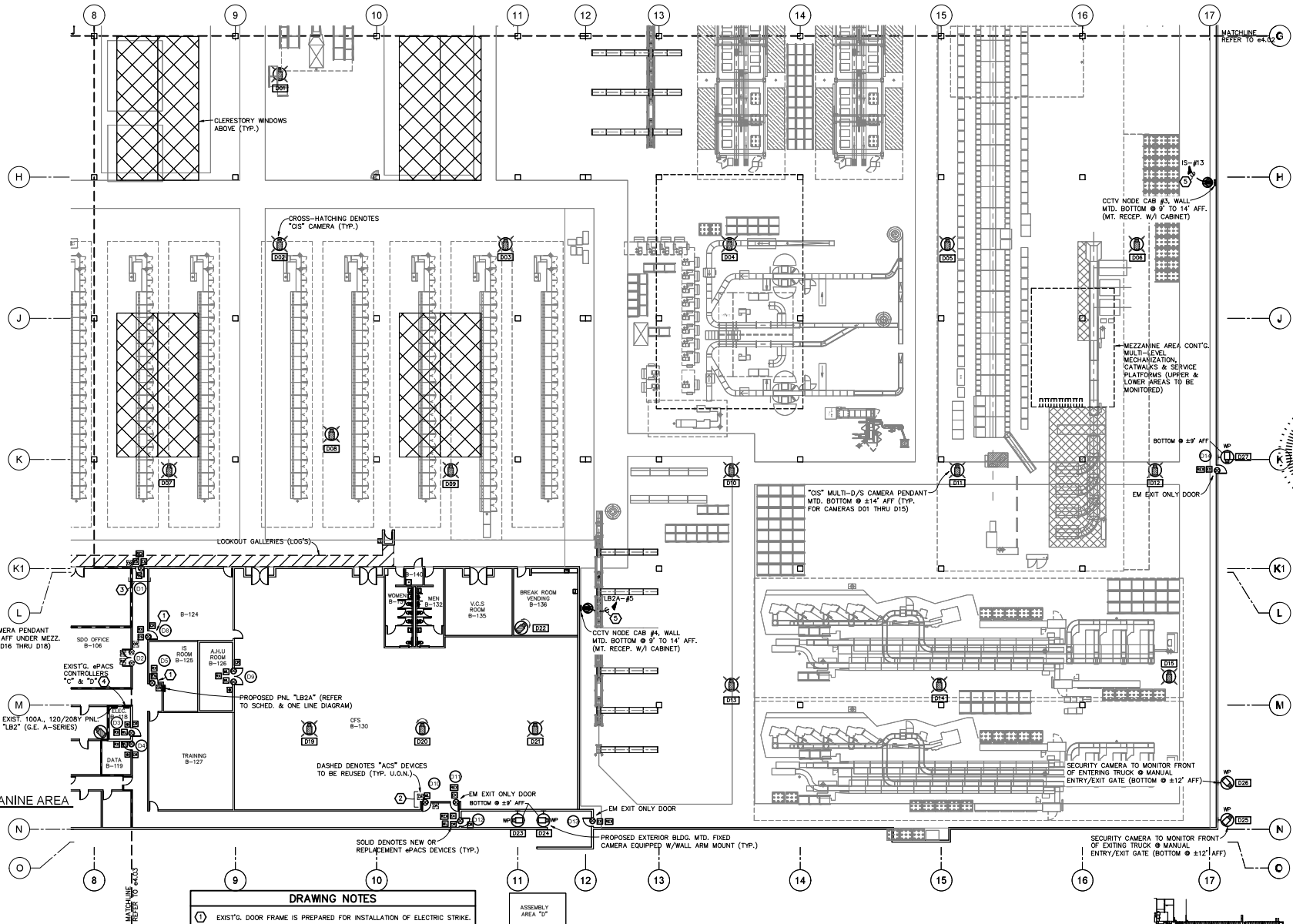
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 sheet 14 of 32

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project phases: 19013  
 revisions: 2022-03-03  
 sheet name: MAIN EMPLOYEE ENTRY

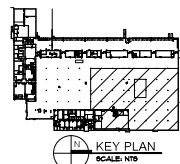
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- DRAWING NOTES**
- EXIST'G. DOOR FRAME IS PREPARED FOR INSTALLATION OF ELECTRIC STRIKE.
  - EXIST'G. DOOR LEAF TO BE REPLACED. PROVIDE NEW MAG. LOCK, DOOR CONTACT & ASSOC. WIRING. EXIST'G. "RIM" TO BE REPLACED AND RETERMINATED TO EXIST'G. CONTROLLER.
  - EXIST'G. DOOR LEAF TO BE REPLACED. PROVIDE NEW ELECTRIC STRIKE, "RX" SENSOR, DOOR CONTACT, EXIT ALARM & ASSOC. WIRING. EXIST'G. "RIM" TO BE REPLACED AND RETERMINATED TO EXIST'G. CONTROLLER.
  - EXIST'G. EPACS, (16) DOOR CONTROLLER (VANDERBILT # SRONX-1) SHALL BE SERVICED TO ENSURE ITS PROPER OPERATION. EXIST'G. LOCK POWER SUPPLIES & BATTERIES SHALL BE REPLACED.
  - PROVIDE #10/THIN/CU CONDUCTORS (TYP. FOR ENTIRE RUN).

**PROPOSED FLOOR PLAN 'ZONE D' - CCTV (ISIP) SYSTEM & ePACS**  
 SCALE: 1/8" = 1'-0"

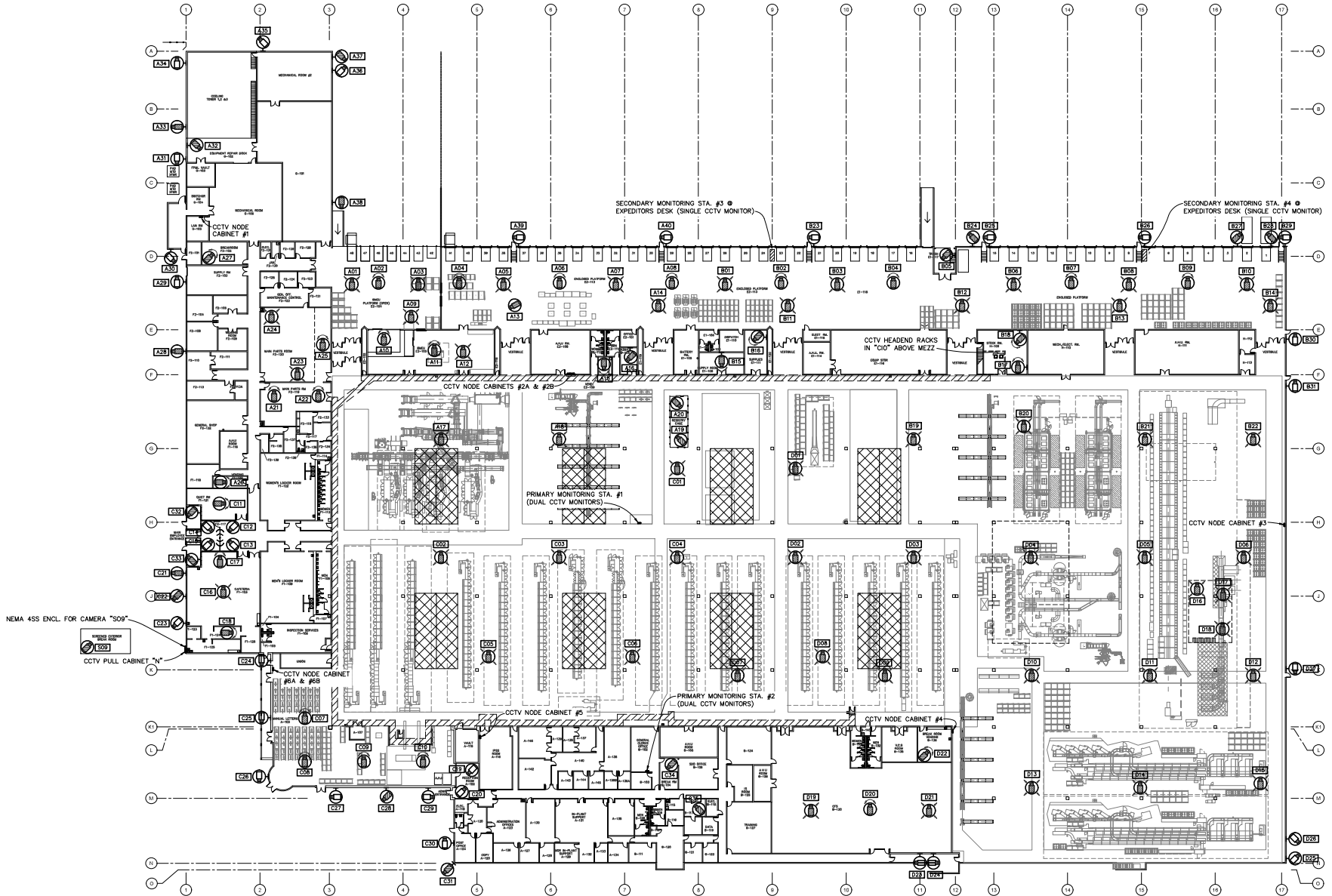



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revisions	19013	2022-03-03
project phases	DESIGN	CONSTRUCTION
client	STATE OF FLORIDA	FLORIDA DEPARTMENT OF TRANSPORTATION
contract no.	19013	2022-03-03
contract date	03/03/2022	
contract value		
contract type		
contract status		
contract description	PROPOSED ZONE D-CCTV & ePACS	


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 **OVERALL BUILDING PLAN - PROPOSED CAMERA POSITIONS**  
 SCALE: 1" = 30'-0"

**OVERALL PLAN NOTE**  
 1. THE PROPOSED CAMERA POSITIONS HAVE BEEN LOCATED ON THIS OVERALL FLOOR PLAN. THE CONTRACTOR SHALL POST AN "AS-BUILT" COPY OF THIS OVERALL PLAN IN THE INVESTIGATIVE OFFICE. PLAN SHALL BE 36"x24" SIZE AND SHALL BE FRAMED AND MOUNTED UNDER GLASS.



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19013
2022-03-03

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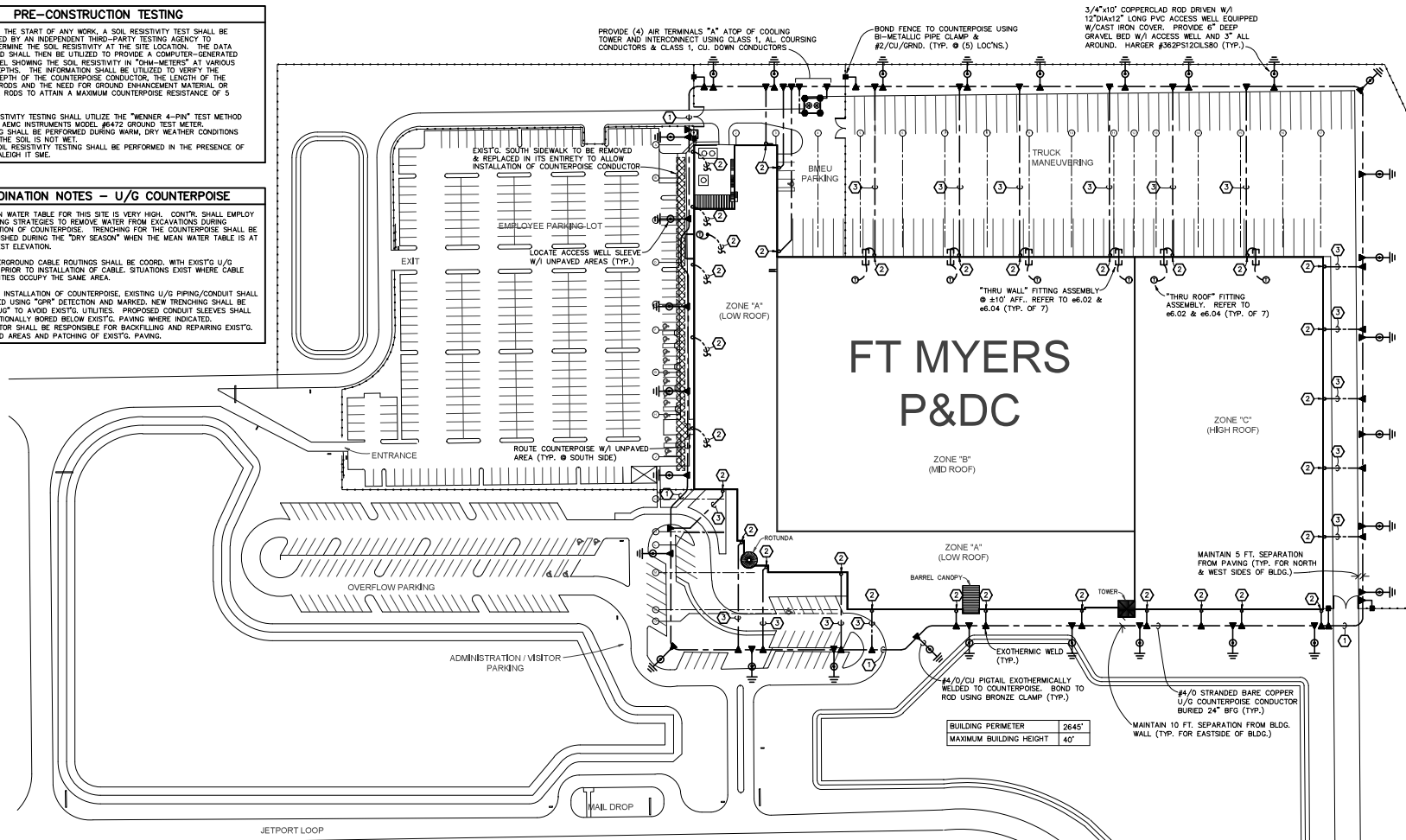


**PRE-CONSTRUCTION TESTING**

- PRIOR TO THE START OF ANY WORK, A SOIL RESISTIVITY TEST SHALL BE PERFORMED BY AN INDEPENDENT THIRD-PARTY TESTING AGENCY TO PRE-DETERMINE THE SOIL RESISTIVITY AT THE SITE LOCATION. THE DATA COLLECTED SHALL THEN BE UTILIZED TO PROVIDE A COMPUTER-GENERATED SOIL MODEL SHOWING THE SOIL RESISTIVITY IN "OHM-METERS" AT VARIOUS LAYER DEPTHS. THE INFORMATION SHALL BE UTILIZED TO VERIFY THE BURIAL DEPTH OF THE COUNTERPOISE CONDUCTOR, THE LENGTH OF THE GROUND RODS AND THE NEED FOR GROUND ENHANCEMENT MATERIAL OR CHEMICAL RODS TO ATTAIN A MAXIMUM COUNTERPOISE RESISTANCE OF 5 OHMS.
- SOIL RESISTIVITY TESTING SHALL UTILIZE THE "MENNEN 4-PIN" TEST METHOD AND THE AEMC INSTRUMENTS MODEL #6472 GROUND TEST METER.
  - TESTING SHALL BE PERFORMED DURING WARM, DRY WEATHER CONDITIONS WHEN THE SOIL IS NOT WET.
  - THE SOIL RESISTIVITY TESTING SHALL BE PERFORMED IN THE PRESENCE OF THE RALEIGH IT SMC.

**COORDINATION NOTES - U/G COUNTERPOISE**

- THE MEAN WATER TABLE FOR THIS SITE IS VERY HIGH. CONTR. SHALL EMPLOY DEWATERING STRATEGIES TO REMOVE WATER FROM EXCAVATIONS DURING INSTALLATION OF COUNTERPOISE. "BENCHING" FOR THE COUNTERPOISE SHALL BE ACCOMPLISHED DURING THE "DRY SEASON" WHEN THE MEAN WATER TABLE IS AT ITS LOWEST ELEVATION.
- ALL UNDERGROUND CABLE ROUTINGS SHALL BE COORD. WITH EXIST'G U/G UTILITIES PRIOR TO INSTALLATION OF CABLE. SITUATIONS EXIST WHERE CABLE AND UTILITIES OCCUPY THE SAME AREA.
- PRIOR TO INSTALLATION OF COUNTERPOISE, EXIST'G U/G PIPING/CONDUIT SHALL BE TRACED USING "GPR" DETECTION AND MARKED. NEW TRENCHING SHALL BE "HAND DUG" TO AVOID EXIST'G UTILITIES. PROPOSED CONDUIT SLEEVES SHALL BE DIRECTIONALLY BORED BELOW EXIST'G PAVING WHERE INDICATED. CONTRACTOR SHALL BE RESPONSIBLE FOR BACKFILLING AND REPAIRING EXIST'G DISTURBED AREAS AND PATCHING OF EXIST'G PAVING.



**TESTING REQUIREMENTS**

- TEST GROUND RESISTANCE OF SYSTEM WITH GROUND RESISTANCE TESTER. GROUND ROD RESISTANCE SHALL NOT EXCEED (5) OHMS. THE RESISTANCE OF THE GROUNDING SYSTEM SHALL NOT EXCEED (5) OHMS. WHERE TEST SHOW RESISTANCE TO-GROUND IS OVER (5) OHMS, TAKE APPROPRIATE ACTION TO REDUCE RESISTANCE TO (5) OHMS, OR LESS, BY DRIVING ADDITIONAL GROUND RODS; THEN RETEST TO DEMONSTRATE COMPLIANCE.
- METHOD FOR TESTING INDIVIDUAL GROUND RODS AND OVERALL GROUNDING SYSTEM SHALL BE ACCOMPLISHED BY THE THREE POINT METHOD PER MILITARY HANDBOOK 419. TEST PROBES SHALL BE PLACED MINIMUM OF 30 FEET AND 60 FEET FROM ROD BEING TESTED. FURNISH TYPE WRITTEN REPORT OF ALL TEST RESULTS.

**BIDDING NOTES**

- THE PROVISIONS SHOWN AND SPECIFIED FOR THE INSTALLATION OF THE BUILDING LIGHTNING PROTECTION AND COUNTERPOISE SYSTEMS (OWGS, #6.01 THRU #6.05) ARE TO BE SEPARATELY PRICED AND QUOTED AS "BID ALTERNATE No. 1".
- THE DESIGN IS BASED ON A LIGHTNING PROTECTION & COUNTERPOISE SYSTEM UTILIZING PRODUCTS MANUFACTURED BY HARGRETT LIGHTNING AND GROUNDING COMPANY. THE DESIGN HAS BEEN COORDINATED WITH ALL SOUTH LIGHTNING PROTECTION LOCATED AT 4759 N.W. 103RD AVE. SUNRISE, FL. 33351. SOUTH FLORIDA BRANCH MGR.: ROGER HARNEY; TEL: (954) 742-4164 email: roger@rlsp.net.

**DRAWING NOTES**

- 2" PVC SLEEVE Ø 24" BFG TO BE DIRECTIONALLY BORED ON EITHER SIDE OF EXIST'G PAVING FOR TRANSPORTATION OF COUNTERPOISE CONDUCTOR.
- CLASS 1, CU. DOWN CONDUCTOR ROUTED DOWN TO U/G COUNTERPOISE EXPOSED & SECURED TO EXTERIOR WALL AND EXOTHERMICALLY WELDED TO THE COUNTERPOISE. PROVIDE NONMETALLIC "HALF PIPE" PROTECTIVE COVER AROUND CONDUCTOR UP TO 6'-6" AFG.
- 2" PVC SLEEVE Ø 24" BFG TO BE DIRECTIONALLY BORED BELOW EXIST'G PAVING FOR TRANSPORTATION OF DOWN CONDUCTOR.



PROPOSED SITE PLAN - UNDERGROUND COUNTERPOISE (ALTERNATE No.1)  
SCALE: 1"=60'-0"



KEY PLAN  
SCALE: NTD

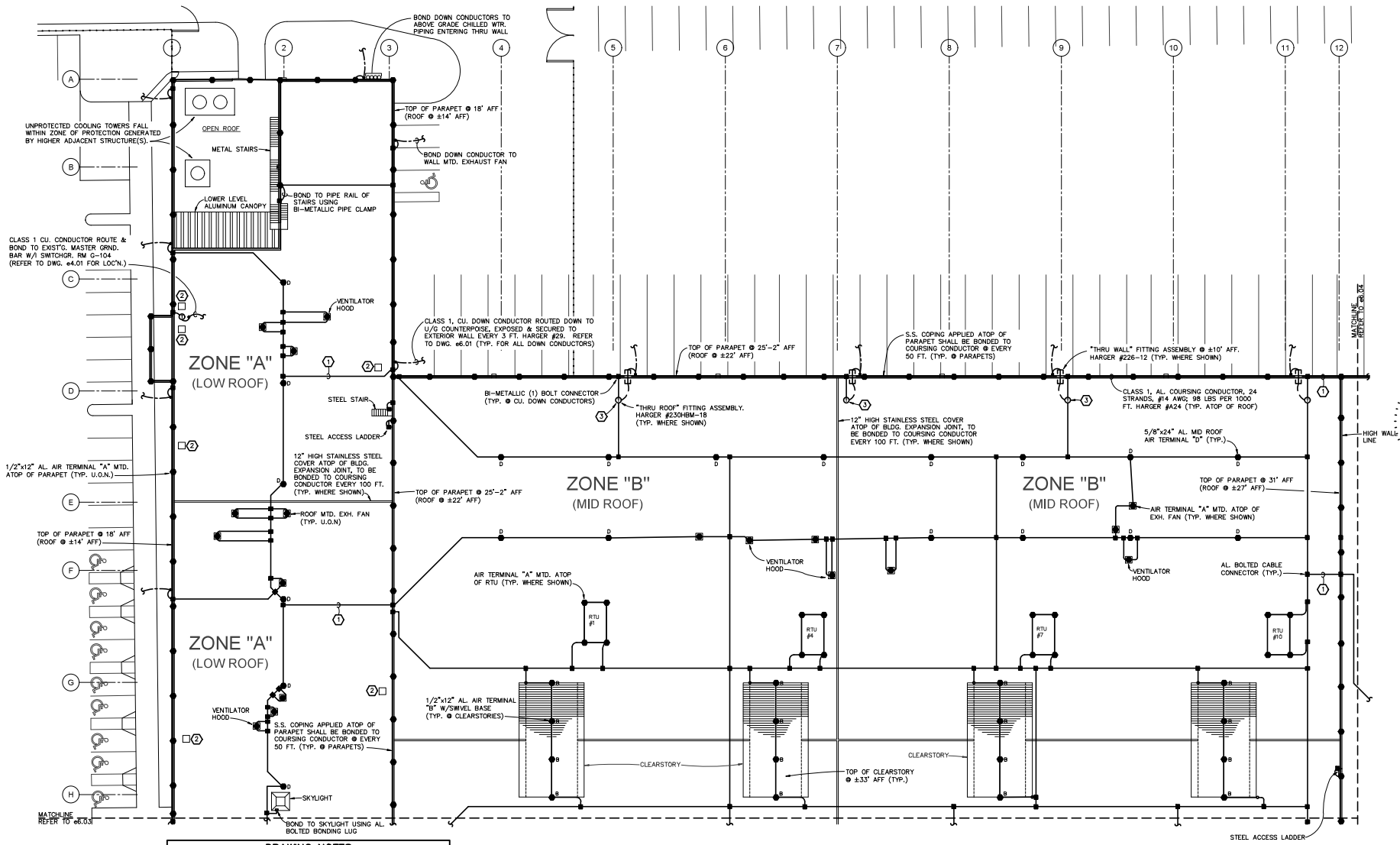
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revisions	19013
project phases	2022-03-03
sheet name	SITE PLAN - COUNTERPOISE
drawing number	
state of florida	
professional seal	

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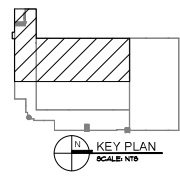


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- DRAWING NOTES**
- ① EXPOSED CONDUCTOR ROUTED DOWN FROM ROOF LEVEL TO LOWER ROOF LEVEL. FASTEN TO WALL EVERY 3 FT.
  - ② UNPROTECTED EXHAUST FAN FALLS WITHIN ZONE OF PROTECTION GENERATED BY HIGHER ADJACENT STRUCTURE(S).
  - ③ CONSTRUCTION OF THE SOFFIT ASSEMBLY ABOVE THE TRUCK TRAILER STALLS WILL NOT PERMIT INSTALLATION OF A TOTALLY EXPOSED DOWN CONDUCTOR ROUTED TO THE U/G COUNTERPOISE. CLASS 1, CU DOWN CONDUCTOR SHALL THEREFORE BE ROUTED DOWN THRU ROOF, BONDED TO INTERIOR BLDG. STEEL, AND ROUTED THRU WALL @ ±10' AFF. USING "THRU WALL" ASSEMBLY. DOWN CONDUCTOR SHALL THEN BE ROUTED EXPOSED & SECURED TO EXTERIOR WALL (SEE ELEVATION DWG. 66.04).

**PARTIAL ROOF PLAN (SOUTHWEST) - LIGHTNING PROTECTION SYSTEM (ALTERNATE No. 1)**  
 SCALE: 1"=20'-0"



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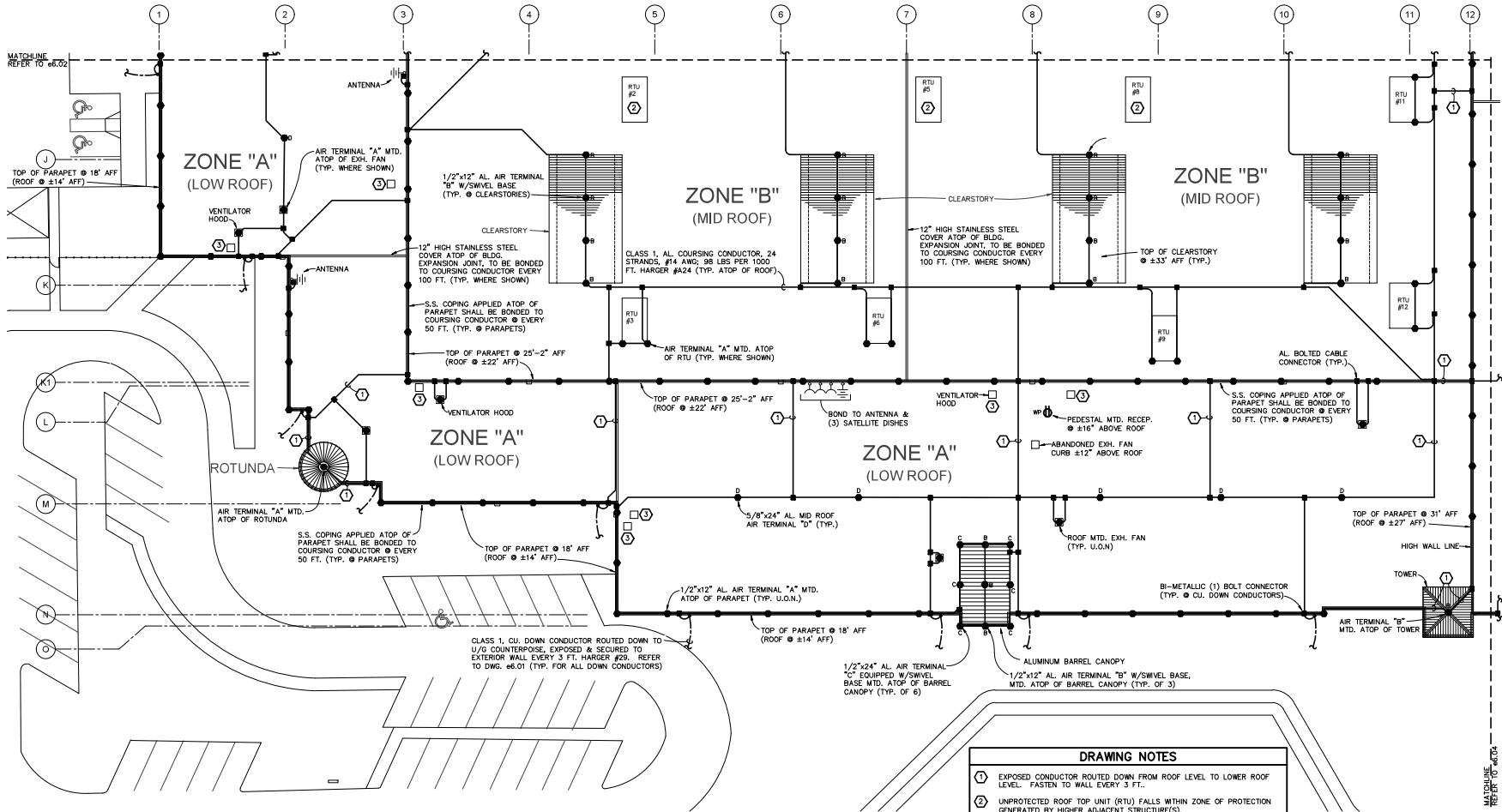
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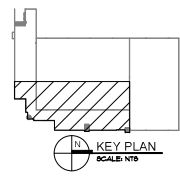
consultant	POLLEY ENGINEERING INC	project phases	19013	
revisions		state of florida	2022-03-03	
		professional seal		

PROJECT: FT. MYERS P&DC SECURITY UPGRADES  
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 DRAWN BY: J. SAVIDE  
 CHECKED BY: J. SAVIDE  
 PROJECT LOCATION: 14080 JETPORT LOOP, FT. MYERS, FL 33913



**PARTIAL ROOF PLAN (SOUTHEAST) - LIGHTNING PROTECTION SYSTEM (ALTERNATE No.1)**  
 SCALE: 1"=20'-0"

- DRAWING NOTES**
- ① EXPOSED CONDUCTOR ROUTED DOWN FROM ROOF LEVEL TO LOWER ROOF LEVEL. FASTEN TO WALL EVERY 3 FT.
  - ② UNPROTECTED ROOF TOP UNIT (RTU) FALLS WITHIN ZONE OF PROTECTION GENERATED BY HIGHER ADJACENT STRUCTURE(S).
  - ③ UNPROTECTED EXHAUST FAN FALLS WITHIN ZONE OF PROTECTION GENERATED BY HIGHER ADJACENT STRUCTURE(S).



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project phases	2022-03-03
STATE OF FLORIDA	REGISTERED PROFESSIONAL ENGINEER
PROJECT NUMBER	2022-03-03
PROJECT NAME	FT. MYERS P&DC SECURITY UPGRADES
PROJECT LOCATION	14080 JETPORT LOOP, FT MYERS, FL 33913
PROJECT DATE	2022-03-03

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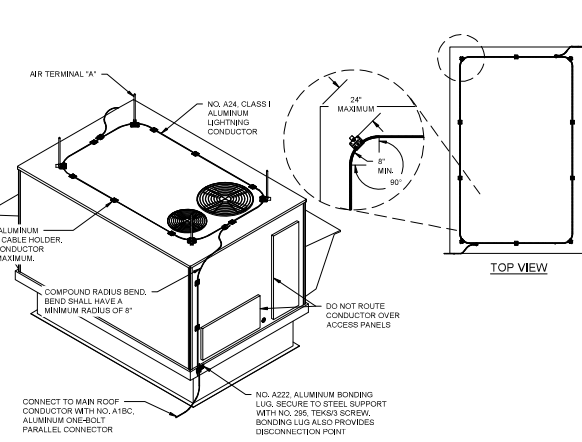
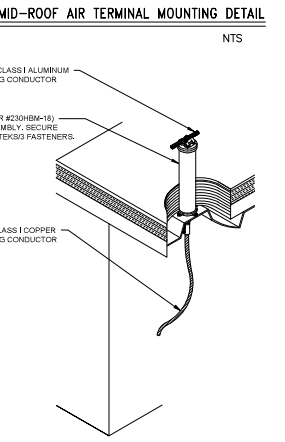
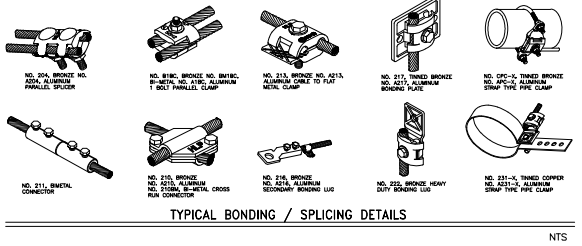
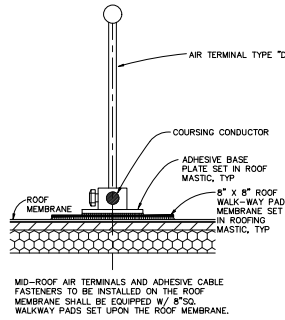
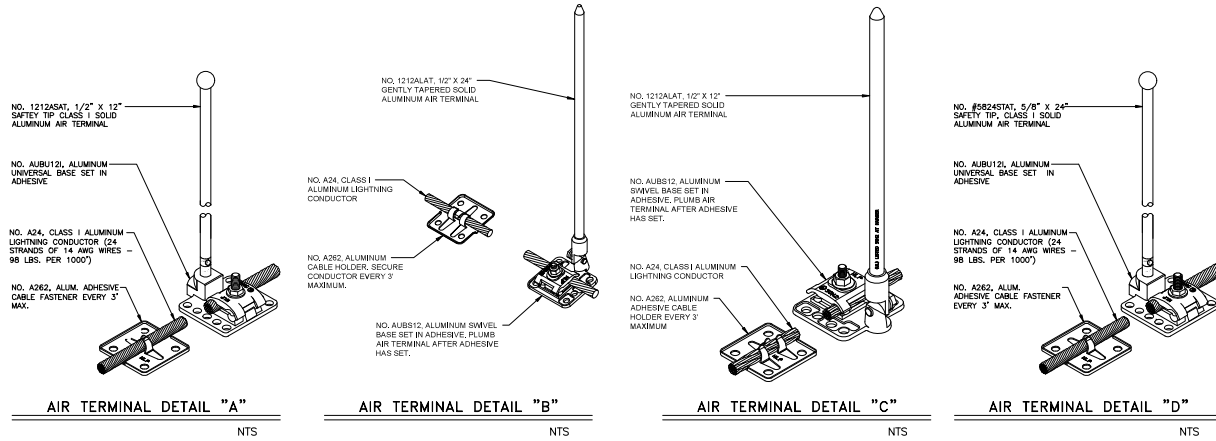
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**SURGE PROTECTION REQUIREMENTS**

- PER NFPA 780 (2002), SECTION 4.20 SURGE PROTECTION DEVICES MUST BE INSTALLED AT THE SERVICE ENTRANCE(S). THE EXIST'G FACILITY IS EQUIPPED WITH (3) 277/480V MAIN SWITCHBOARDS (REFER TO DWG. #4-01); NONE OF WHICH ARE EQUIPPED WITH SPD'S AS DESCRIBED BELOW:
  - EXIST'G MAIN SWITCHBOARD "M1"
    - EXIST'G 400A.F./200A.T. BRKR. WITHIN POSITION #6 OF SECTION "M1-1" (BRKR. IS MARKED "BAD") SHALL BE REPLACED WITH 400A.F./60A.T. BRKR. TO FEED A PROPOSED SPD. BRKR. SHALL MATCH EXIST'G. (G.E. SPECTRA RMS, CURRENT LIMITING 65 KVAIC STYLE #SGL36A70400).
    - PROVIDE SERVICE ENTRANCE RATED, TYPE 1 277/480V SPD (ASCO/APT #TEC4XAS-20-E1-1) EQUIPPED WITH INTEGRAL THRU-DOOR DISCONNECT. THE "SPD" SHALL BE FED FROM THE REPLACEMENT 400A.F./60A.T. BRKR. USING #4-#2 & 1-#6/GRND, 1-1/2".C. AND SHALL BE WALL MOUNTED NEAR SWITCHBD. "M1".
  - EXIST'G MAIN SWITCHBOARD "M2"
    - THE SWITCHBD. HAS NO AVAILABLE "SPARE BRKR'S." OR "SPACES." THE MAIN BUSSES ON THE LOADSIDE OF THE MAIN BRKR. SHALL THEREFORE BE DRILLED & TAPPED TO ALLOW A CABLE CONNECTION THAT CAN BE USED TO FEED A PROPOSED "SPD".
    - PROVIDE SERVICE ENTRANCE RATED, TYPE 1, 277/480V SPD (ASCO/APT #TEC4XAS-20-E1-1) EQUIPPED WITH INTEGRAL THRU-DOOR DISCONNECT. THE SPD SHALL BE FED FROM THE LOADSIDE MAIN BUS OF SWITCHBD. "M2" USING #4-#2 & 1-#6/GRND, 1-1/2".C. AND SHALL BE WALL MOUNTED NEAR SWITCHBD. "M2".
  - EXIST'G MAIN SWITCHBOARD #3
    - PROVIDE 80A.F./60A.T. BRKR. W/ APPROPRIATE SPACES OF SECTION TO FEED A PROPOSED SPD. BRKR. SHALL MATCH EXIST'G. (G.E. SPECTRA RMS, CURRENT LIMITING, 65 KVAIC STYLE #SGL36A70400).
    - PROVIDE SERVICE ENTRANCE RATED, TYPE 1, 277/480V SPD (ASCO/APT #TEC4XAS-20-E1-1) EQUIPPED WITH INTEGRAL THRU-DOOR DISCONNECT. THE SPD SHALL BE FED FROM THE PROPOSED 80A.F./60A.T. BRKR. USING #4-#2 & 1-#6/GRND, 1-1/2".C. AND SHALL BE MOUNTED NEAR SWITCHBD. #3.
- PLANT SHUTDOWN
  - CONNECTION OF THE SPD'S & INSTALLATION OF THE FEEDER BRKR'S. WILL REQUIRE SHUTDOWN OF EXIST'G SWITCHBD'S. M1, M2 & #3. THE SWITCHBD'S. SHALL BE INDIVIDUALLY DE-ENERGIZED REQUIRING (2) SEPARATE SHUTDOWNS.
  - ALL USPS SERVICE INTERRUPTIONS ESSENTIAL TO THE WORK SHALL BE SCHEDULED WITH THE PLANT MANAGER (7) DAYS IN ADVANCE. COORD. ALL WORK TO ALLOW THE COMPLETION OF THE TASK(S) WITH THE MINIMUM INTERFERENCE TO USPS OPERATIONS. COMPLETE PLANT SHUTDOWNS CAN ONLY OCCUR ON SUNDAYS 0000-1000HRS.
  - THE CONTRACTOR SHALL PROVIDE AND UPDATE AS NEEDED A SHUTDOWN SCHEDULE FOR THIS PROJECT. THIS SCHEDULE SHALL BE SUBJECT TO APPROVAL BY THE ENGINEER AND THE USPS.

**LIGHTNING PROTECTION SYSTEM NOTES**

- THE LIGHTNING PROTECTION SYSTEM SHALL BE INSTALLED IN CONFORMANCE WITH A U.L. MASTER LABEL, AND SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 780 & U.L. 96A.
- ALL MATERIAL AND COMPONENTS SHALL BE LISTED AND/OR CERTIFIED TO INDICATE THAT (1) THEY HAVE BEEN MANUFACTURED FOR USE IN LIGHTNING PROTECTION SYSTEMS UNDER THE CODE PROVISIONS LPI-176 AND (2) THEY HAVE BEEN TESTED AND INSPECTED FOR CONFORMANCE WITH LPI-176 BY A RECOGNIZED INDEPENDENT TESTING AGENCY, DESIGNATED BY THE INSTITUTE.
- THE COMPLETED INSTALLATION SHALL BE CERTIFIED BY UNDERWRITERS LABORATORIES (U.L.) WITH A "MASTER LABEL CERTIFICATE" COMPLIANT WITH U.L. 96A (13TH EDITION).
- ROOF COURSING CONDUCTORS SHALL INTERCONNECT ALL AIR TERMINALS INCLUDING THOSE ON ROOF PROJECTIONS AND SHALL AFFORD A TWO WAY PATH TO GROUND FROM THE BASE OF EACH AIR TERMINAL. ROOF CONDUCTORS SHALL BE COURSED THROUGH OR AROUND OBSTRUCTIONS IN A HORIZONTAL PLANE WITH MAIN CONDUCTOR.
- ALL METALLIC PIPING (WATER, FIRE, SANITARY, STORM, ETC.) AND CONDUITIVE SERVICES (COAX, ANTENNA, ETC.) WHICH ENTERS THE PROTECTED BUILDING SHALL BE BONDED TO THE LIGHTNING PROTECTION SYSTEM.
- COPPER LIGHTNING PROTECTION MATERIALS SHALL NOT BE INSTALLED ON ALUMINUM ROOFING OR SIMILAR MATERIAL OR OTHER ALUMINUM SURFACES, AND ALUMINUM LIGHTNING PROTECTION MATERIALS SHALL NOT BE INSTALLED ON COPPER SURFACES, ECT.
- NO BEND OF A CONDUCTOR SHALL FORM AN INCLUDED ANGLE OF LESS THAN 90 DEGREES NOR HAVE A RADIUS BEND LESS THAN 8 INCHES. THE RADIUS REQUIREMENT IS NOT APPLICABLE WHERE APPROVED CLAMPS OR CONNECTORS ARE USED TO ACCOMPLISH CABLE BENDS.
- CONDUCTORS SHALL MAINTAIN A HORIZONTAL OR DOWNWARD COURSE, FREE FROM "U" OR "V" (DOWN AND UP) POCKETS.
- AIR TERMINALS SHALL EXTEND ABOVE THE OBJECT TO BE PROTECTED NOT LESS THAN 10 INCHES.
- AIR TERMINALS SHALL BE PLACED ON ALL ROOF PROJECTIONS, PROJECTIONS INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING: HOSE BIBBS, EXHAUST FANS, GRANTY BENTS, EQUIPMENT, AIR HANDLING UNITS, LADDERS, ANTENNAS AND THE HANDRAILS. IF THE ROOF OR PROJECTION IS OF METAL 3/16" OR MORE THICK, THE METAL MAY BE SUBSTITUTED FOR THE AIR TERMINAL, AND IT NEED ONLY BE CONNECTED TO THE LIGHTNING PROTECTION SYSTEM USING MAIN SIZE CONDUCTOR AND A BONDING DEVICE HAVING A MINIMUM OF THREE SQUARE INCHES OF CONTACT.
- AIR TERMINALS SHALL BE PLACED AT OR WITHIN 2 FEET OF THE EDGE AND CORNERS OF THE ROOF AND SHALL BE SPACED AT 20' MAXIMUM ABOUT THE PERIMETER.
- ADHESIVE CABLE FASTENERS SHALL BE SPACED NOT MORE THAN THREE FEET APART ON ALL CONDUCTORS. ADHESIVE USED WITH ADHESIVE AIR TERMINAL BASES AND CONDUCTOR FASTENERS SHALL BE HARGER #M1 STRUCTURAL SEALANT TYPE, VERIFY WITH ROOFING CONTRACTOR.
- FLAT OR GENTLY SLOPING ROOFS THAT EXCEED 50 FT. (15M) IN WIDTH OR LENGTH SHALL HAVE ADDITIONAL STRIKE TERMINATION DEVICES LOCATED AT INTERVALS NOT TO EXCEED 25 FT. (7.6M).
- GALVANIZED OR PLATED STEEL NAILS, SCREWS OR BOLTS ARE NOT ACCEPTABLE.
- MASONRY ANCHORS SHALL HAVE A DIAMETER OF NOT LESS THAN 1/4 INCH AND SHALL BE SET WITH CARE. HOLE TO RECEIVE THE SHANK OF THE FASTENER OR FITTING SHALL BE CORRECT SIZE, MADE WITH PROPER TOOLS AND MADE IN THE BRICK OR STONE RATHER THAN IN MORTAR JOINTS. WHEN SET, THE FIT SHALL BE TIGHT AGAINST MOISTURE AND CAPABLE OF WITHSTANDING A PULL TEST OF 100 POUNDS. PLASTIC OR FIBER ANCHORS MEETING THE ABOVE REQUIREMENTS ARE ACCEPTABLE.
- BOLTED COMPRESSION CONNECTOR FITTING SHALL BE USED ON ALL LIGHTNING CONDUCTORS AS "END-TO-END," "TEE" OR "Y" SPLICES. THEY SHOULD BE ATTACHED SO AS TO WITHSTAND A PULL TEST OF 200 POUNDS.
- FITTINGS FOR CONNECTION OF METAL TRACKS, GUTTERS, DOWNSPOUTS, VENTILATORS, OR OTHER METAL PARTS ABOUT THE STRUCTURE SHALL BE OF AN ACCEPTABLE TYPE, MADE TIGHT TO THE OBJECT BY COMPRESSION UNDER BOLT HEADS OF THE APPROVED TYPE. BOLTED CLAMPS AND SPLICERS OF CAST METAL SHALL BE ONLY USED.
- ALL ROOF PENETRATIONS SHALL BE SEALED. METHOD OF SEALING SHALL BE APPROVED BY THE ROOFING SUBCONTRACTOR. THE LIGHTNING PROTECTION SUBCONTRACTOR SHALL FURNISH SILICONE RUBBER BOOTS FOR ALL ROOF PENETRATIONS. BOOTS SHALL BE INSTALLED BY ROOFING SUBCONTRACTOR. COORD. ALL USE OF ROOF ADHESIVE WITH THE ROOFING SUBCONTRACTOR.
- CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF LIGHTNING PROTECTION SYSTEM FOR ENGINEERS APPROVAL. SHOP DRAWINGS SHALL INCLUDE TYPES AND LOCATION OF AIR TERMINALS, CONDUCTORS, CONNECTORS, GROUND RODS, METHODS AND TYPES OF BONDING. SUBMIT CATALOG CUTS OF ALL EQUIPMENT.

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CONSULTANT  
19013  
2022-03-03  
LIGHTNING PROTECTION-DETAILS

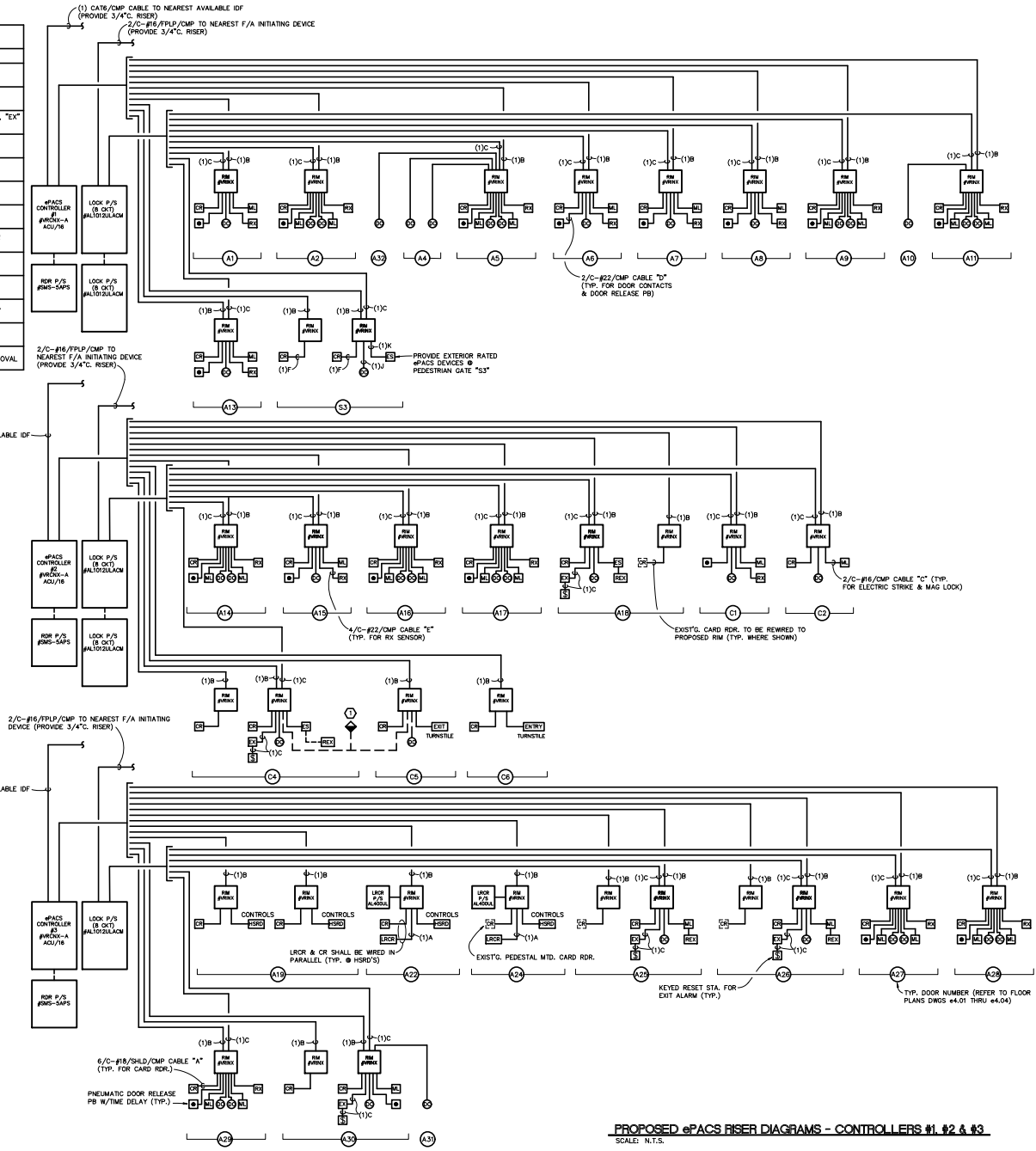
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 JACB (OWNER)

ePACS WIRING SCHEDULE			
TYPE	CABLE DESCRIPTION	MANUFACTURER	USAGE
A	6/C-#18/SHLD/CMP WHITE (0.228" O.D.; 0.040828 IN <sup>2</sup> )	TAPPAN #SW57788602	RDR TO "RIM"
B	4/C-#18/SHLD/CMP WHITE (0.180" O.D.; 0.02245 IN <sup>2</sup> )	TAPPAN #SW57788102	"RIM" TO CONTROLLER
C	2/C-#16/CMP WHITE (0.178" O.D.; 0.02488 IN <sup>2</sup> )	TAPPAN #P00032	ELECTRIC STRIKE/MAG LOCK TO "RIM", "EX" TO "RIM", "RIM" TO PWR. SUPPLY
D	2/C-#22/CMP WHITE (0.111" O.D.; 0.0097 IN <sup>2</sup> )	TAPPAN #SWP20031	DOOR CONTACT TO "RIM", DOOR RELEASE TO RIM
E	4/C-#22/CMP WHITE (0.128" O.D.; 0.0129 IN <sup>2</sup> )	TAPPAN #SWP20035	"RX" TO "RIM"
F	6/C-#18/SHLD/WET BLACK (0.291" O.D.; 0.0665 IN <sup>2</sup> )	TAPPAN #SW1880 ABSM/VPVC	EXTERIOR LROR TO "RIM"
G	4/C-#18/SHLD/WET BLACK (0.291" O.D.; 0.0665 IN <sup>2</sup> )	TAPPAN #SW4028	EXTERIOR "RIM" TO CONTROLLER
H	2/C-#18/WET BLACK (0.266" O.D.; 0.0556 IN <sup>2</sup> )	TAPPAN #U49995	GATE CONTROLLER TO "RIM" OR DOOR CALL STATION
I	NOT USED	-	-
J	2/C-#22/WET BLACK (0.205 O.D.; 0.0330 IN <sup>2</sup> )	WFW #AQC291	EXTERIOR "DOOR CONTACT" TO "RIM"
K	2/C-#16/WET BLACK (0.270" O.D.; 0.0573 IN <sup>2</sup> )	TAPPAN #SW5995	EXTERIOR "ELECTRIC STRIKE" TO "RIM"
L	4/C-#22/WET BLACK (0.194" O.D.; 0.0296 IN <sup>2</sup> )	WFW #AQC240	EXTERIOR "RX" TO "RIM"

SUBSTITUTE U.S. CABLE MANUFACTURERS ARE ACCEPTABLE PENDING ePACS/INTERCOM SYSTEMS MANUFACTURER AND ENGINEER APPROVAL.

**GENERAL NOTE**  
 PROVIDE 2" C. RISERS FROM EACH ePACS CONTROLLER AND PWR. SUPPLY ENCLOSURE.

**DRAWING NOTES**  
 ① EMERGENCY EVACUATION PB SHALL BE INTERFACED WITH EXIT TURNSTILE CS AND RES-4 PERSONNEL DOOR CA. ACTIVATION SHALL CAUSE AVISBLE ALARM AND FREE EXIT. INBOUND ENTRY DIRECTION SHALL REMAIN SECURE.



**PROPOSED ePACS RISER DIAGRAMS - CONTROLLERS #1, #2 & #3**  
 SCALE: N.T.S.

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revisions

19013	15013
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**ePACS RISER DIAGRAMS**

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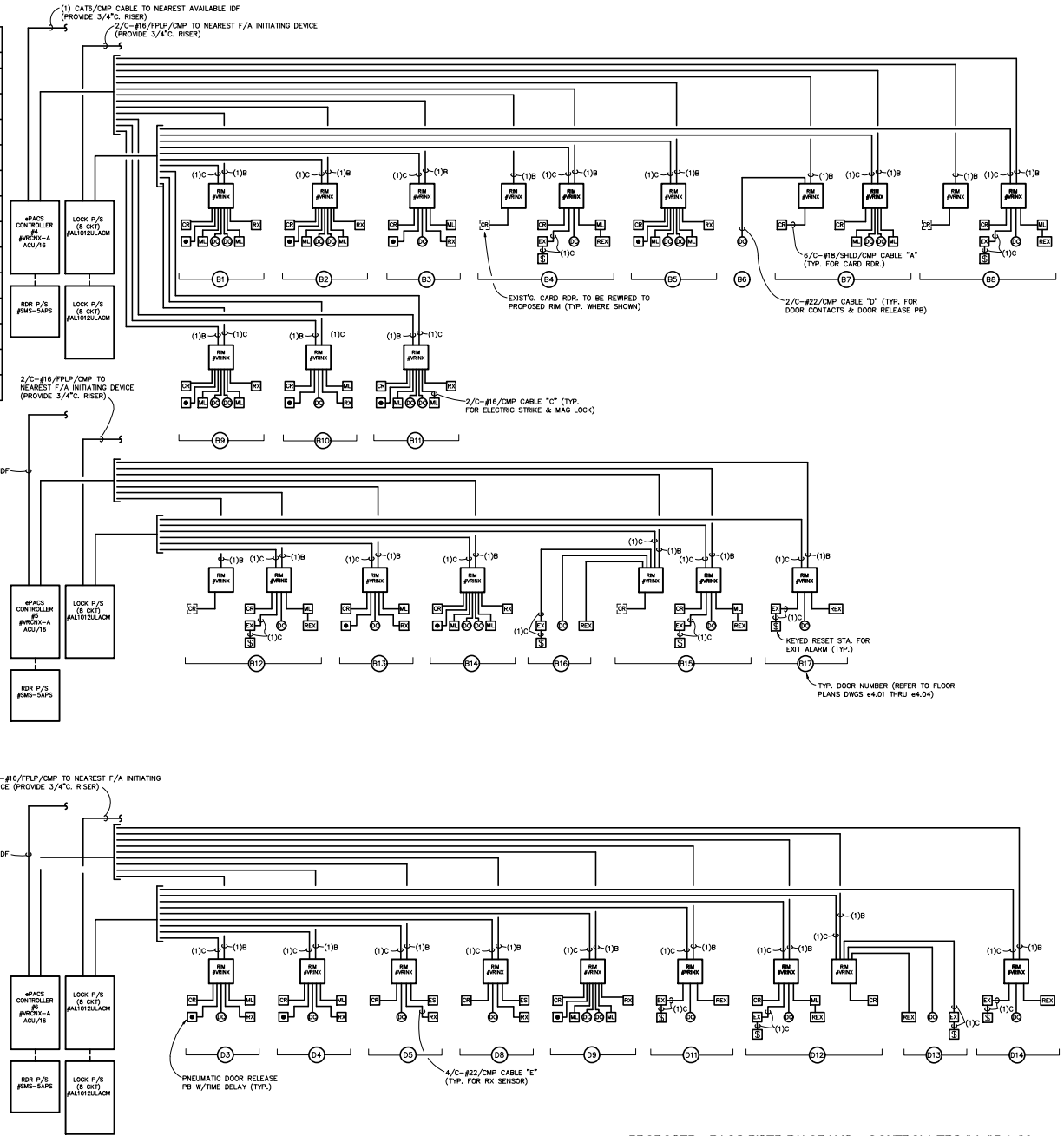
ePACS WIRING SCHEDULE			
TYPE	CABLE DESCRIPTION	MANUFACTURER	USAGE
A	6/C-#18/SHLD/CMP WHITE (0.228" O.D.; 0.040828 IN <sup>2</sup> )	TAPPAN #5W5778802	RDR TO "RIM"
B	4/C-#18/SHLD/CMP WHITE (0.180" O.D.; 0.02545 IN <sup>2</sup> )	TAPPAN #5W57788102	"RIM" TO CONTROLLER
C	2/C-#16/CMP WHITE (0.178" O.D.; 0.02488 IN <sup>2</sup> )	TAPPAN #P50032	ELECTRIC STRIKE/MAG LOCK TO "RIM", "EX" TO "RIM", "RIM" TO PWR. SUPPLY
D	2/C-#22/CMP WHITE (0.111" O.D.; 0.0097 IN <sup>2</sup> )	TAPPAN #5WP20031	DOOR CONTACT TO "RIM", DOOR RELEASE TO RIM
E	4/C-#22/CMP WHITE (0.128" O.D.; 0.0129 IN <sup>2</sup> )	TAPPAN #5WP20035	"RX" TO "RIM"
F	6/C-#18/SHLD/WET BLACK (0.291" O.D.; 0.0665 IN <sup>2</sup> )	TAPPAN #5W1880 ABEM/WNPVC	EXTERIOR LROR TO "RIM"
G	4/C-#18/SHLD/WET BLACK (0.291" O.D.; 0.0665 IN <sup>2</sup> )	TAPPAN #5W4028	EXTERIOR "RIM" TO CONTROLLER
H	2/C-#18/WET BLACK (0.266" O.D.; 0.0556 IN <sup>2</sup> )	TAPPAN #149995	GATE CONTROLLER TO "RIM" OR DOOR CALL STATION
I	NOT USED	-	-
J	2/C-#22/WET BLACK (0.205" O.D.; 0.0330 IN <sup>2</sup> )	WFW #AGC291	EXTERIOR "DOOR CONTACT" TO "RIM"
K	2/C-#16/WET BLACK (0.270" O.D.; 0.0573 IN <sup>2</sup> )	TAPPAN #5W5995	EXTERIOR "ELECTRIC STRIKE" TO "RIM"
L	4/C-#22/WET BLACK (0.194" O.D.; 0.0296 IN <sup>2</sup> )	WFW #AGC240	EXTERIOR "RX" TO "RIM"

SUBSTITUTE U.S. CABLE MANUFACTURERS ARE ACCEPTABLE PENDING ePACS/INTERCOM SYSTEMS MANUFACTURER AND ENGINEER APPROVAL

**GENERAL NOTE**

PROVIDE 2"C. RISERS FROM EACH ePACS CONTROLLER AND PWR. SUPPLY ENCLOSURE.

(1) CAT6/CMP CABLE TO NEAREST AVAILABLE IDF (PROVIDE 3/4"C. RISER)



PROPOSED ePACS RISER DIAGRAMS - CONTROLLERS #4, #5 & #6  
SCALE: N.T.S.

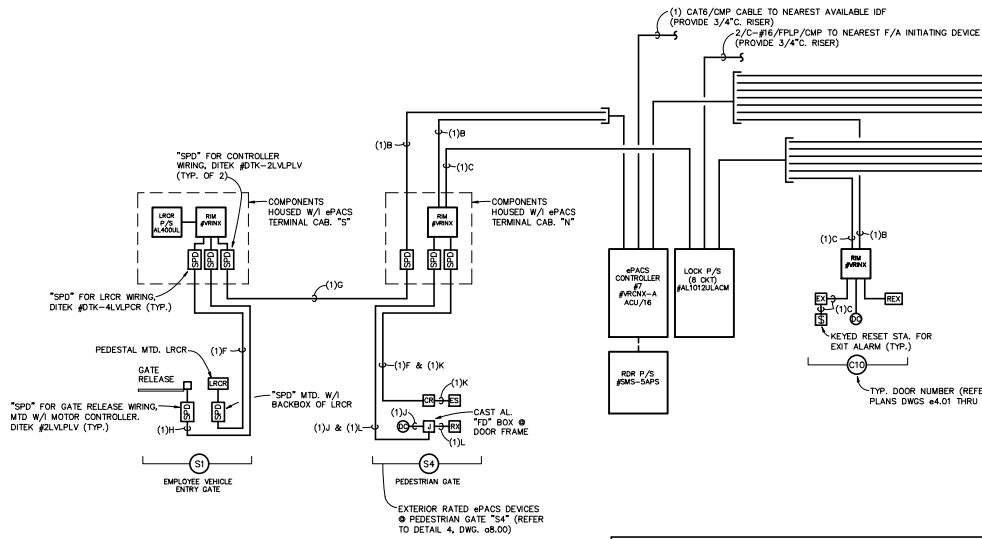
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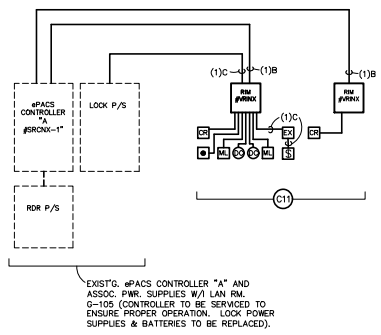


**PROPOSED ePACS RISER DIAGRAM - CONTROLLERS #7**  
 SCALE: N.T.S.

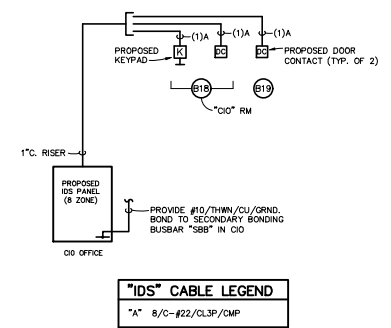
ePACS WIRING SCHEDULE			
TYPE	CABLE DESCRIPTION	MANUFACTURER	USAGE
A	6/C-#18/SHLD/CMP WHITE (0.228" O.D.; 0.040828 IN <sup>2</sup> )	TAPPAN #SW57788802	RDR TO "RIM"
B	4/C-#18/SHLD/CMP WHITE (0.180" O.D.; 0.02545 IN <sup>2</sup> )	TAPPAN #SW57788102	"RIM" TO CONTROLLER
C	2/C-#16/CMP WHITE (0.178" O.D.; 0.02488 IN <sup>2</sup> )	TAPPAN #F50032	ELECTRIC STRIKE/MAG LOCK TO "RIM", "EX" TO "RIM", "RM" TO PWR. SUPPLY
D	2/C-#22/CMP WHITE (0.111" O.D.; 0.0097 IN <sup>2</sup> )	TAPPAN #SWP20031	DOOR CONTACT TO "RIM", DOOR RELEASE TO RIM
E	4/C-#22/CMP WHITE (0.128" O.D.; 0.0129 IN <sup>2</sup> )	TAPPAN #SWP20035	"RX" TO "RIM"
F	6/C-#18/SHLD/WET BLACK (0.291" O.D.; 0.0665 IN <sup>2</sup> )	TAPPAN #SW1880 AB6M/ANPVC	EXTERIOR LRCR TO "RIM"
G	4/C-#18/SHLD/WET BLACK (0.291" O.D.; 0.0665 IN <sup>2</sup> )	TAPPAN #SW4028	EXTERIOR "RIM" TO CONTROLLER
H	2/C-#18/WET BLACK (0.266" O.D.; 0.0556 IN <sup>2</sup> )	TAPPAN #J49995	GATE CONTROLLER TO "RIM" OR DOOR CALL STATION
I	NOT USED	-	-
J	2/C-#22/WET BLACK (0.205" O.D.; 0.0330 IN <sup>2</sup> )	WPW #AQC291	EXTERIOR "DOOR CONTACT" TO "RIM"
K	2/C-#16/WET BLACK (0.270" O.D.; 0.0573 IN <sup>2</sup> )	TAPPAN #SW5995	EXTERIOR "ELECTRIC STRIKE" TO "RIM"
L	4/C-#22/WET BLACK (0.194" O.D.; 0.0296 IN <sup>2</sup> )	WPW #AQC240	EXTERIOR "RX" TO "RIM"

SUBSTITUTE U.S. CABLE MANUFACTURERS ARE ACCEPTABLE PENDING ePACS/INTERCOM SYSTEMS MANUFACTURER AND ENGINEER APPROVAL

**GENERAL NOTE**  
 PROVIDE 2" C. RISERS FROM EACH ePACS CONTROLLER AND PWR. SUPPLY ENCLOSURE.



**PROPOSED ePACS RISER DIAGRAM - EXISTING CONTROLLER 'A'**  
 SCALE: N.T.S.



**INTRUSION DETECTION SYSTEM (IDS) RISER DIAGRAM**  
 SCALE: N.T.S.

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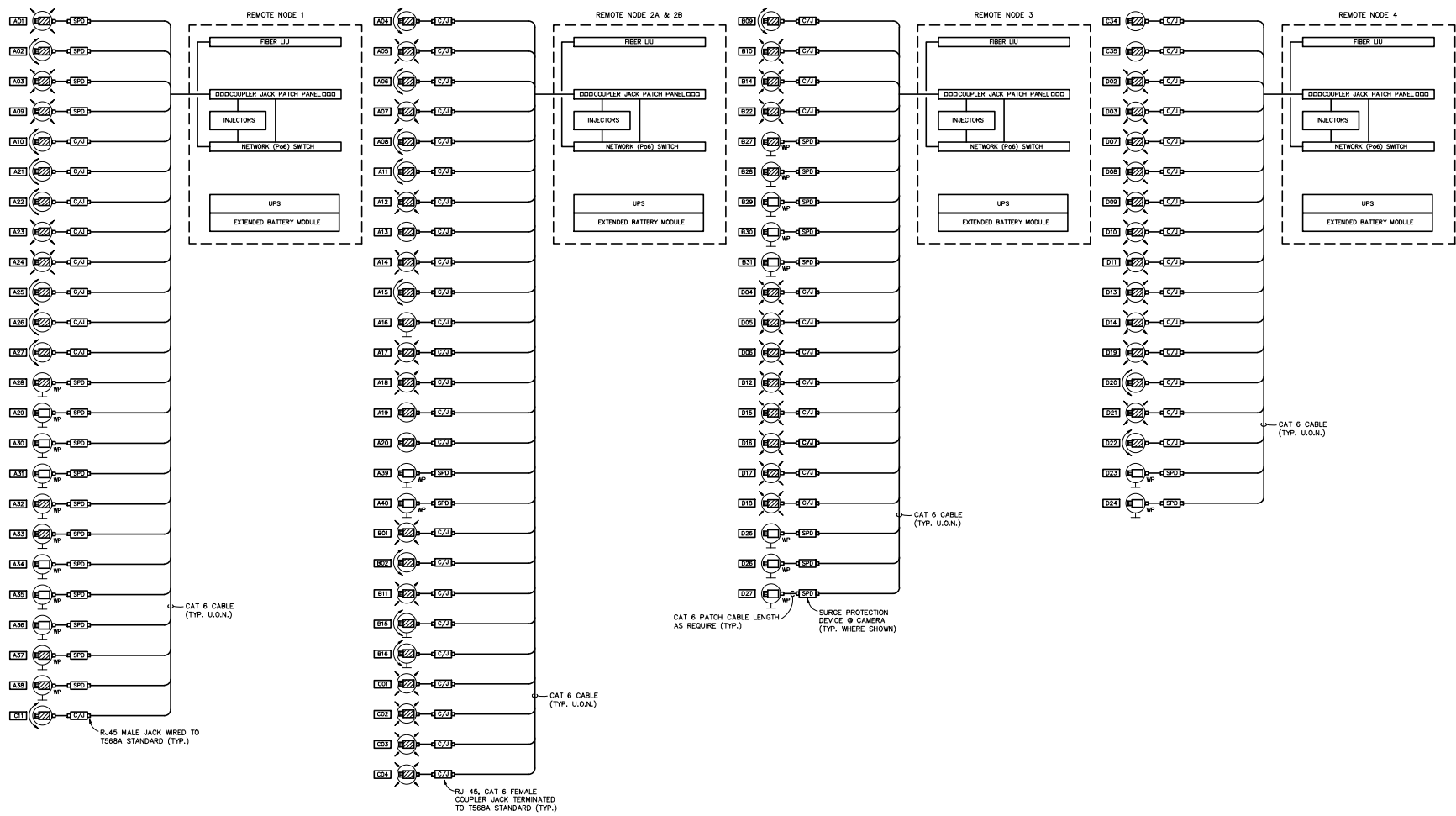
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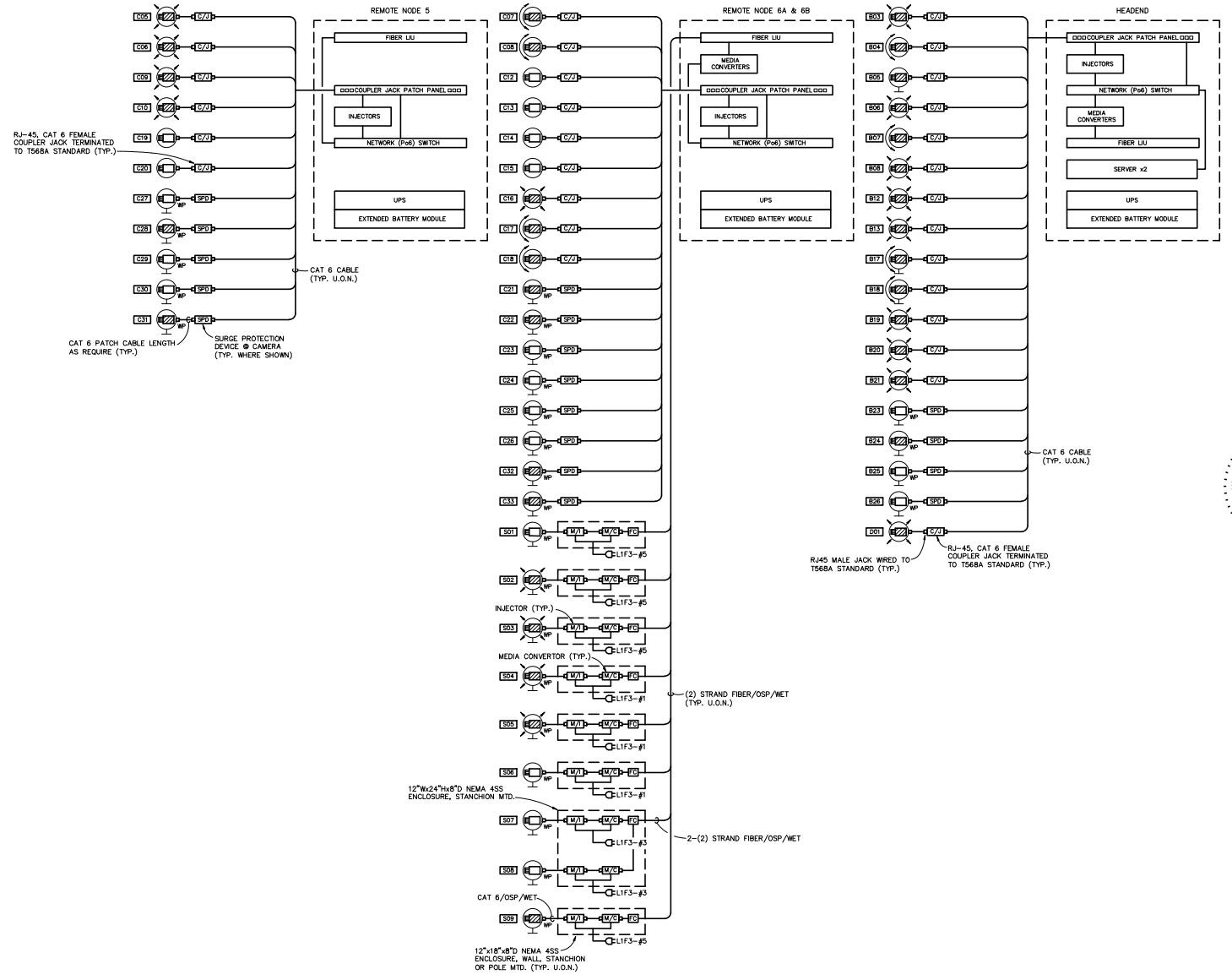
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2022-03-03	LIBRARIES, DRG.
	sheet name
	CCTV BLOCK DIAGRAMS

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**CCTV SECURITY SYSTEM BLOCK DIAGRAMS**

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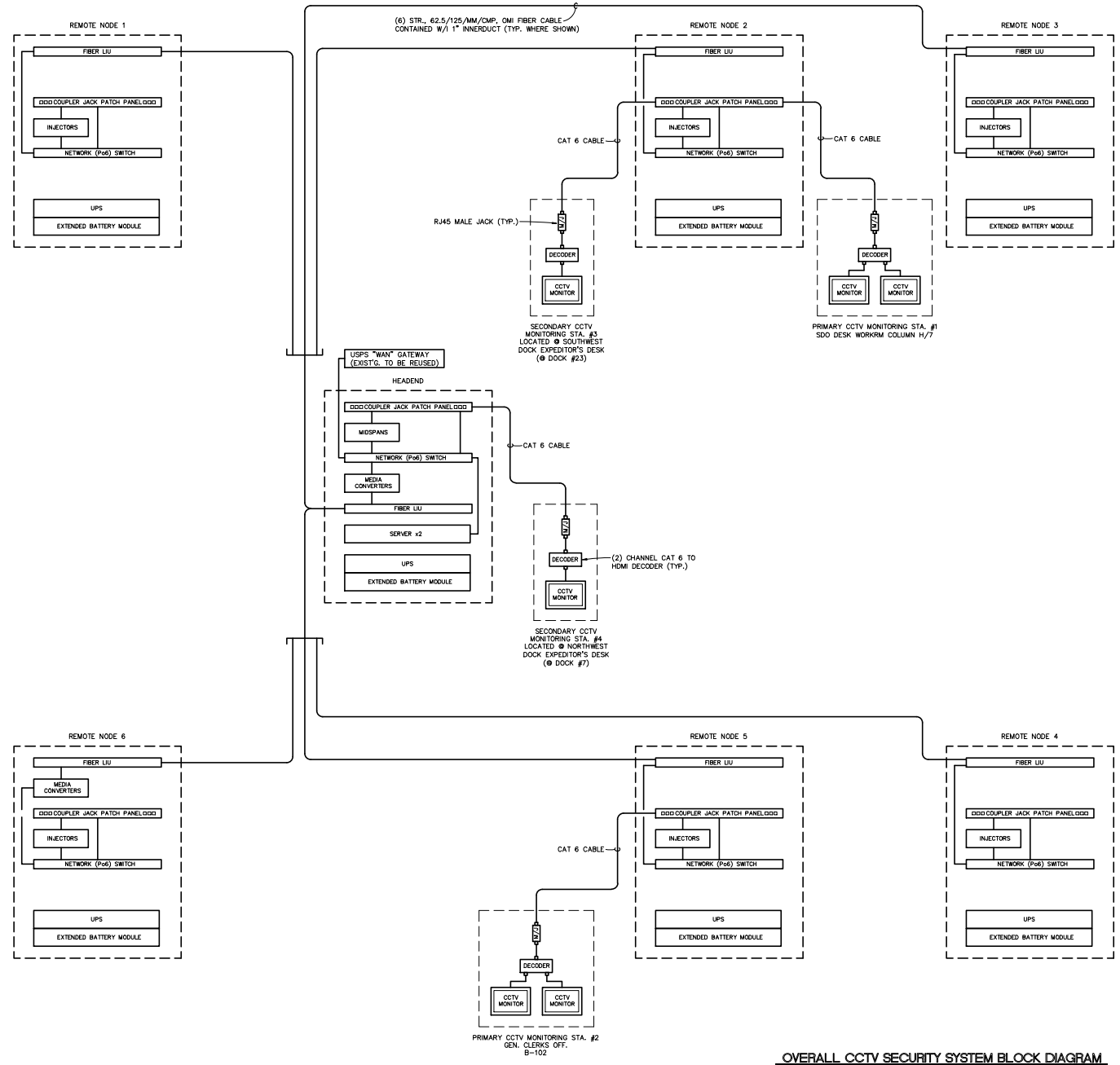
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**OVERALL CCTV SECURITY SYSTEM BLOCK DIAGRAM**  
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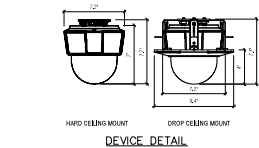
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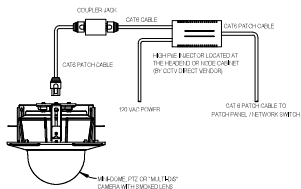
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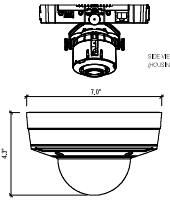
**DEVICE DETAIL**



**CAT6 WIRING DETAIL**

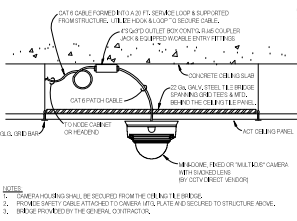
**PTZ CAMERA MOUNTING DETAILS**

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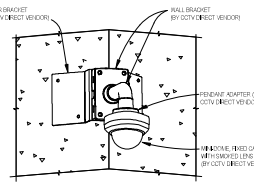


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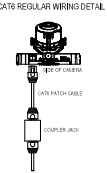
**INTERIOR RECESSED MOUNT (ACT CEILING)**



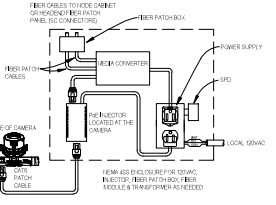
**INTERIOR SURFACE MOUNT (ACT CEILING)**



**WALL CORNER MOUNTING DETAIL**



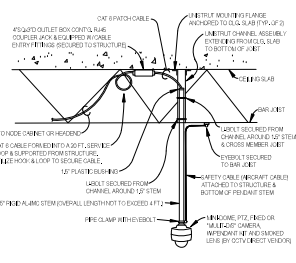
**CAT6 WIRING DETAIL**



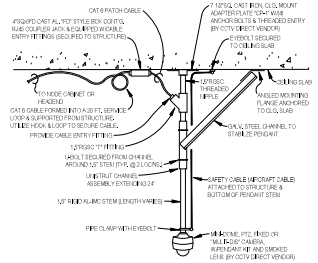
**FIBER WIRING DETAIL**

**FIXED CAMERA MOUNTING DETAILS**

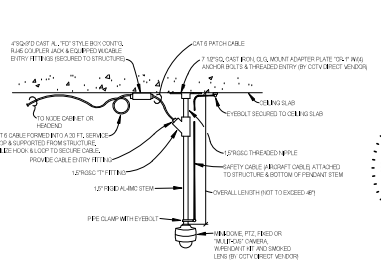
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**INTERIOR-WORKROOM/PLATFORM (STEM LENGTH NOT TO EXCEED 4 FT.)**



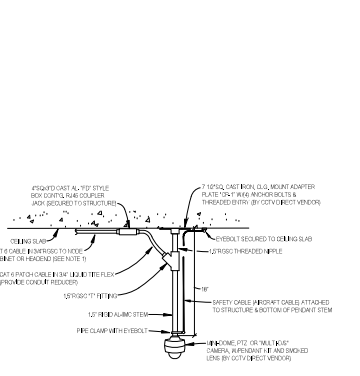
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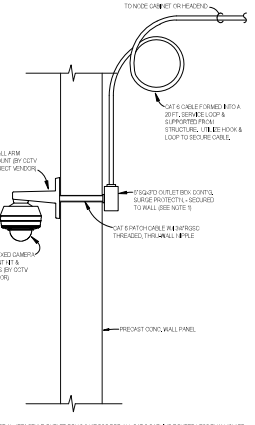
**INTERIOR-WORKROOM/PLATFORM (STEM LENGTH NOT TO EXCEED 4 FT.)**

**CEILING PENDANT MOUNTED CAMERA DETAILS**

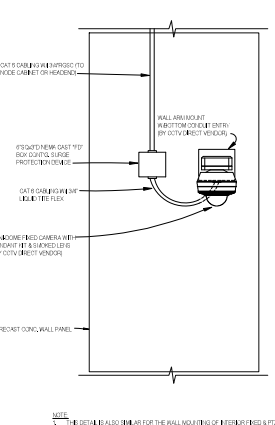
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**EXTERIOR-BMEU PLATFORM**

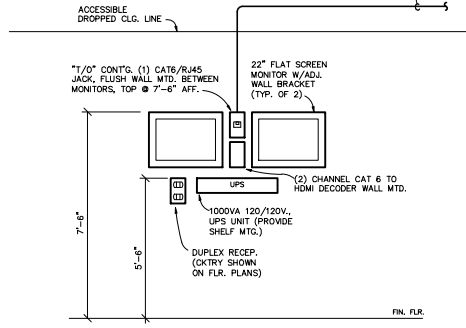


**EXTERIOR WALL ARM MOUNT (PREFERRED MOUNTING)**



**EXTERIOR WALL ARM MOUNT**

**(1) CAT6 TO REMOTE CCTV VIDEO CABINET (DESIGNATED)**



- NOTES**
- COORD. FINAL LOCATION OF COMPONENTS W/USPS AND FIELD CONDITIONS.
  - PROVIDE FLUSH BOXES & CONCEALED CONDUIT.
  - MASTER INTERCOM UNIT TO BE DESK MOUNTED. REFER TO VIDEO INTERCOM RISER.
  - UPS UNIT SHALL BE 1000VA/900W LINE-INTERACTIVE TYPE W/18 MINUTE BATTERY RESERVE @ 450 WATTS. PROVIDE WALL BRACKET MOUNT. TRIPPI-LITE #SMART1000R/WL2U & 2PDSR3KIT1TM.
  - THIS ELEVATION IS TYP. FOR PRIMARY MONITORING STATION #2 W/ THE GENERAL CLERKS OFFICE B-102.

**PRIMARY CCTV MONITORING STATION #2 - ELEVATION**  
SCALE: N.T.S.

**EXTERIOR CAMERA MOUNTING DETAILS**

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**PROPOSED CAMERA SCHEDULE NOTES**

- ① PROVIDE SURGE PROTECTION DEVICE AT THE CAMERA AND HEADEND OR NODE CABINET.

**PROPOSED CCTV CAMERA SCHEDULE (ZONES 'C' & 'D' AND SITE)**

REF#	HC	CAMERA FIELD OF VIEW - HEADING	CAMERA TYPE	CAMERA ENVIRONMENT	CAMERA MOUNTING	CAMERA SYSTEM	CAMERA HOUSING	CAMERA MOUNT	MOUNTING HEIGHT	CAMERA POWER	CABLING	MEDIA CONVERTER/EXTENDER	COMMENTS
C01	NODE #2	WORKROOM - GH/7 & GH/8	MULTI-D/S	INDOOR	EXPOSED CEILING	AXIS #P3719-PLC	MINI DOME	CEILING PENDANT	BOTTOM @ 3'14" AFF	H Pse; 30W INJECTOR	CAT 6	NONE	"DIS" CAMERA
C02		HJ/4 & HJ/5											
C03		H/6 & J/6											
C04		HJ/7 & HJ/8											
C05	NODE #5	K/5											
C06		K/7											
C07	NODE #6	MANUAL LETTERS - KL/2 & KL/3	PTZ			AXIS #P5654-E			BOTTOM @ 3'10" AFF				
C08		LM/2 & LM/3											
C09	NODE #5	SECURED DESTRUCTN. AREA-LM/3 & LM/4	MULTI-D/S			AXIS #P3719-PLC							
C10		LM/4 & LM/5											
C11	NODE #1	QUIET ROOM F1-121	PTZ		DROPPED "ACT" CEILING	AXIS #P5654-E		RECESSED HOUSING	CEILING @ 9' AFF				
C12	NODE #6	TURNTILES - EXIT	FIXED			AXIS #P3245-VE		SURFACE CEILING MTD		SWITCH Pse			
C13		RE-4 EXIT DOOR C4 & EVAC PB											
C14		TURNTILES - ENTRY											
C15		RE-4 ENTRY DOOR C4											
C16		CAFETERIA F1-103	MULTI-D/S			AXIS #P3719-PLC		RECESSED HOUSING		H Pse; 30W INJECTOR			"DIS" CAMERA
C17			PTZ		DROPPED HARD CEILING	AXIS #P5654-E							
C18		VENDING F1-124			DROPPED "ACT" CEILING	AXIS #P3245-VE							
C19	NODE #5	RECEPTION A-155 (ENTRY)	FIXED			AXIS #P3245-VE		SURFACE CEILING MTD		SWITCH Pse			
C20		(EXIT)											
C21	NODE #6	EMPLOYEE PARKING - SOUTHEAST		OUTDOOR - BLDG MTD	WALL			WALL BRACKET ARM	BOTTOM @ 3'12" AFF				① "DIS" CAMERA
C22		PICNIC TABLE AREA											②
C23		PEDESTRIAN GATE "54"											③
C24		EXTERIOR DOORS C10 & C11							BOTTOM @ 3'9" AFF				④
C25		C12											⑤
C26		C13											⑥
C27	NODE #5	C14											⑦
C28		ADMIN/OVERFLOW PARKING							BOTTOM @ 3'12" AFF				⑧ "DIS" CAMERA
C29		EXTERIOR DOOR C15							BOTTOM @ 9' AFF				⑨
C30		EXTERIOR DOOR C16											⑩
C31		ADMIN/OVERFLOW PARKING			CORNER MOUNT				BOTTOM @ 3'12" AFF				⑪ "DIS" CAMERA
C32	NODE #6	SCREENED BREAKROOM - WEST		OUTDOOR - COVERED	WALL				BOTTOM @ 3'9" AFF				⑫ "DIS" CAMERA
C33		EAST											
C34	NODE #4	BREAKROOM B-104		INDOOR	DROPPED "ACT" CEILING			SURFACE CEILING MTD	CEILING @ 9' AFF				
C35		MAIL ROOM B-117											
D01	HEADND	WORKROOM - GH/9 & GH/10	MULTI-D/S	INDOOR	EXPOSED CEILING	AXIS #P3719-PLC	MINI DOME	CEILING PENDANT	BOTTOM @ 3'14" AFF	H Pse; 30W INJECTOR	CAT 6	NONE	"DIS" CAMERA
D02	NODE #4	HJ/9 & HJ/10											
D03		HJ/11											
D04	NODE #3	HJ/13 & HJ/14											
D05		HJ/15											
D06		HJ/16 & HJ/17											
D07	NODE #4	K/8 & K/9											
D08		K/9 & K/10											
D09		K/10 & K/11											
D10		K/13 & K/14											
D11		K/15											
D12	NODE #3	K/16 & K/17											
D13	NODE #4	M/13 & M/14											
D14		M/15											
D15	NODE #3	M/16 & M/17											
D16		WORKROOM (LOWER LEVEL) - JK/16							BOTTOM @ 84" AFF				
D17													
D18													
D19	NODE #4	DFS - M/9 & M/10			DROPPED "ACT" CEILING			RECESSED HOUSING	CEILING HT. VARIES				
D20		M/10 & M/11	PTZ			AXIS #P5654-E							
D21		M/11	MULTI-D/S			AXIS #P3719-PLC							
D22		BREAKROOM B-136	PTZ			AXIS #P5654-E			CEILING @ 9' AFF				
D23		EXTERIOR DOOR D12	FIXED	OUTDOOR - BLDG MTD	WALL	AXIS #P3245-VE		WALL BRACKET ARM	BOTTOM @ 3'9" AFF	SWITCH Pse			⑬
D24		D13											⑭
D25	NODE #3	NORTHEAST TRUCK GATE - EXIT							BOTTOM @ 3'12" AFF				⑮
D26		ENTRY											⑯
D27		EXTERIOR DOOR D14							BOTTOM @ 3'9" AFF				⑰
S01	NODE #6	PEDESTRIAN GATE "53"	FIXED	OUTDOOR - BLUE SKY	EXISTING LIGHTING POLE	AXIS #P3245-VE	MINI DOME	WALL BRACKET ARM	BOTTOM @ 3'20" AFF	H Pse; 30W INJECTOR	FIBER	FIBER OPTIC	"DIS" CAMERA
S02		EMPLOYEE PARKING	MULTI-D/S			AXIS #P3719-PLC							
S03													
S04													
S05													
S06		EMPLOYEE EXIT GATE - FRONT	FIXED			AXIS #P3245-VE			BOTTOM @ 3'12" AFF				
S07		EMPLOYEE ENTRY GATE - FRONT											
S08		REAR											
S09		EXTERIOR SCREEN @ BREAKROOM		OUTDOOR - COVERED	WALL				BOTTOM @ 3'84" AFF				"DIS" CAMERA

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