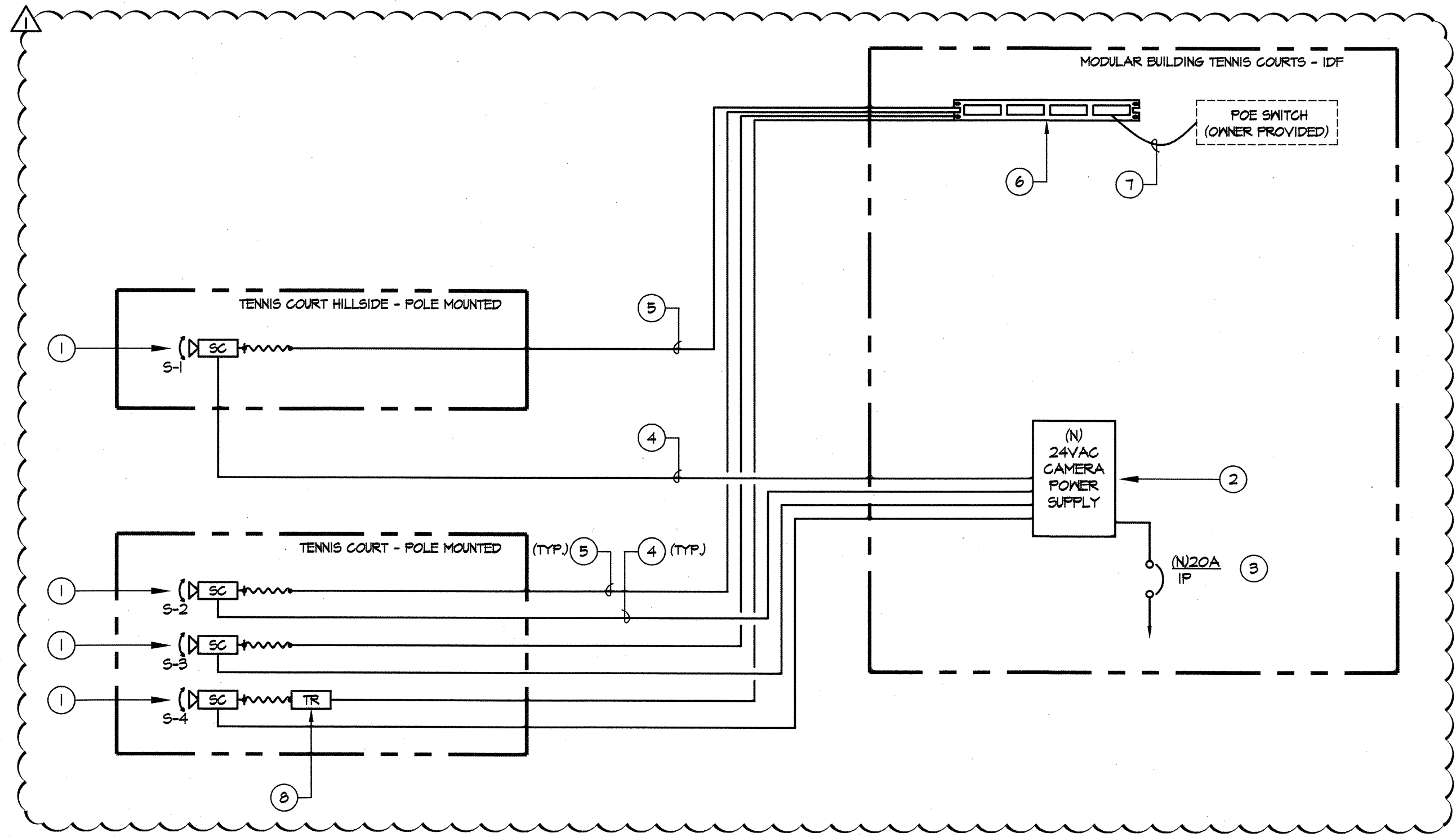


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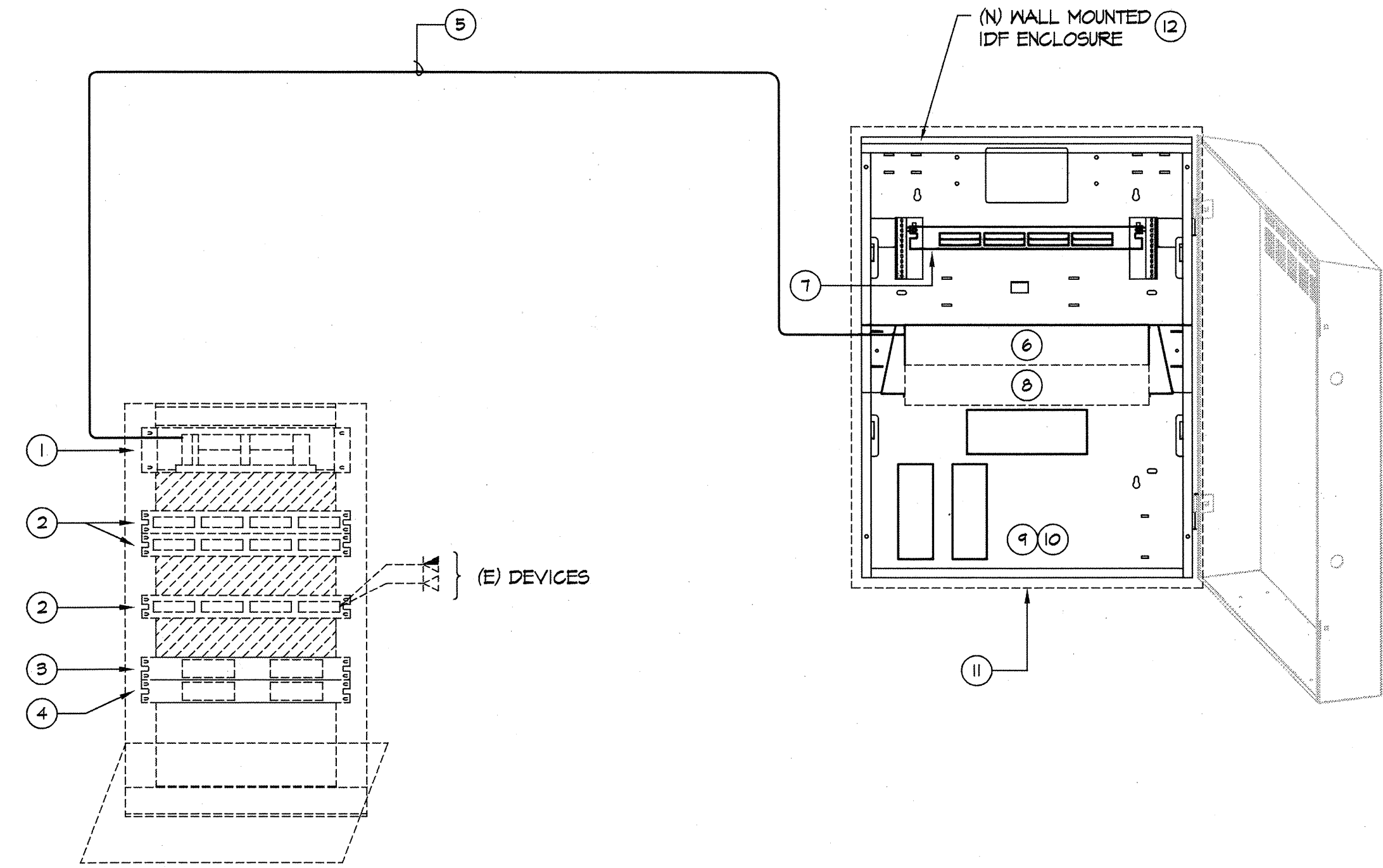


SURVEILLANCE SYSTEM NOTES:

- 1 PAN-TILT ZOOM CAMERA AND DOME. ARECONT VISION #AVB185DN-HB 180 DEGREE PANORAMIC DAY/NIGHT CAMERA WITH ARECONT VISION #6-O-M PENDANT DOME OUTDOOR HOUSING. PROVIDE WITH REQUIRED POLE MOUNTING ADAPTOR ARECONT VISION #D6-FMA.
- 2 PROVIDE PELCO #WCS1-4 POWER SUPPLY.
- 3 PROVIDE DEDICATED OUTLET TO NEAREST ELECTRICAL PANEL. PROVIDE 20/1P CIRCUIT BREAKER IN PANEL AND CONNECT AS REQUIRED.
- 4 PROVIDE ONE SET OF #16-2 AWG UNSHEATHED CABLE.
- 5 PROVIDE PANDUIT CAT-6 UTP CABLE.
- 6 NEW PATCH PANEL. SEE 2/E3.2 FOR ADDITIONAL INFORMATION.
- 7 NEW PANDUIT #UTXP PATCH CORDS.
- 8 PROVIDE PoE EXTENDER. VERACITY #OUTREACH MAX.

1 SURVEILLANCE SYSTEM RISER DIAGRAM

E3.2 SCALE: NOT TO SCALE



(E) IDF RACK AT BUILDING 30

(N) IDF AT TENNIS COURT MODULAR
SEE FLOOR PLAN FOR LOCATION

RISER NOTES:

- 1 EXISTING FIBER OPTIC PATCH PANEL TO TERMINATE NEW FIBER OPTIC CABLE.
- 2 EXISTING 24 PORT PATCH PANEL.
- 3 EXISTING CATALYST 3750 SERIES POE-24.
- 4 EXISTING CATALYST 3560 SERIES POE-24.
- 5 INTERMEDIATE DISTRIBUTION FRAME (IDF) TO INTERMEDIATE DISTRIBUTION FRAME (IDF).

- A. INSTALL FIBER OPTIC CABLE IN CONDUIT FROM IDF LOCATION IN BUILDING 30 TO IDF LOCATION IN TENNIS COURT. MAKE TERMINATIONS AT BOTH ENDS OF CABLE WITH 'SC' TYPE CONNECTORS.
1. ROUTE CABLE DIRECTLY FROM IDF TO IDF LOCATION WITHOUT SPLICE OR INTERRUPTION.
 2. CONDUIT SHALL HAVE NO MORE THAN (2) 90 DEGREE BENDS. PROVIDE PULL BOXES WHERE NECESSARY TO LIMIT THE NUMBER OF CONDUIT BENDS AND ASSIST IN PULLING CABLE.
 3. FIBER OPTIC CABLE SHALL BE (12) STRAND SINGLE-MODE FIBER, OUTSIDE PLANT DISTRIBUTION, LOOSE TUBE, GEL FILLED, MANUFACTURER: CORNING CABLE #012EM4-T401D20 'ALTOS' DIELECTRIC OR EQUAL.
 4. MAKE TERMINATIONS AT THE IDF LOCATION ON (N) UNIRISE (BY COMMSCOPE) RACK MOUNT FIBER OPTIC PATCH PANEL. MAKE TERMINATIONS AT THE EXISTING IDF ON (E) RACK MOUNTED FIBER OPTIC PATCH PANEL.
 - a. LEAVE 15' OF THE EXCESS FIBER OPTIC CABLE AT THE IDF AND 15' OF EXCESS FIBER OPTIC CABLE AT THE IDF LOCATIONS BEFORE MAKING TERMINATIONS. FOR USE AS A SERVICE LOOP. SECURE EXCESS CABLE IN A NEAT WORKMANLIKE MANNER. ALL TERMINATED FIBER OPTIC CABLES WILL BE INSTALLED INTO UNIRISE (BY COMMSCOPE) SFA-SC06-AQ ADAPTOR, 24 POSITION, SC RACK MOUNTED FIBER CABINETS.
 5. ALL FIBER OPTIC STRANDS ARE TO BE TESTED BI-DIRECTIONALLY AT BOTH 850nm AND 1300nm WAVELENGTH. TESTS ARE TO BE PERFORMED USING AN OPTICAL POWER METER AND LIGHT SOURCE OR AN OTDR TO MEASURE ATTENUATION FROM COUPLER-TO-COUPLER AT THE DISTRIBUTION PANELS. NO STRAND IS TO EXHIBIT MORE THAN 3.75 dB/km AT 850nm AND 1.5 dB/km AT 1300nm.
 6. ALL FIBER OPTIC CABLE RUNS WILL BE TESTED AND DOCUMENTATION PROVIDED TO SHOW THAT EACH STRAND MEETS OR EXCEEDS THE EIA/TIA-455 STANDARDS. PROVIDE RECORDED TEST RESULTS ON ALL CABLES PASSED FOR OWNER'S RECORDS.
 7. CONTRACTOR WILL TEST THE FIBER OPTIC CABLE PRIOR TO INSTALLATION TO CHECK FOR DEFECTS. IF THE CONTRACTOR DOES NOT TEST THE FIBER AND DEFECTS ARE FOUND THAT REQUIRE THE CABLE TO BE REPLACED, THE CONTRACTOR IS RESPONSIBLE FOR THE CABLE.
 8. CONTRACTOR WILL TEST THE INSTALLED FIBER OPTIC CABLES AND DOCUMENT EACH STRAND'S RESULT. IF ANY STRANDS ARE FOUND TO BE OUT SPECIFICATION, THE CONTRACTOR WILL REPAIR THE STRANDS TERMINATION AS NEEDED OR REPLACE CABLE IF REQUIRED. THE CONTRACTOR WILL RETEST AFTER REPAIRS.

RISER NOTES CONTINUED:

- 6 FIBER OPTIC PATCH PANEL UNIRISE (BY COMMSCOPE) #RFE-FX6-EMT/U.
- 7 PATCH PANEL PANDUIT #CPPL23M6BL; 24-PORT DISCRETE PATCH PANEL.
- 8 DATA SWITCH TO BE PROVIDED BY OWNER.
- 9 PROVIDE GROUNDING CONNECTION TO BUILDING STEEL AND/OR NEAREST COLD WATER PIPE. MINIMUM GROUNDING CONDUCTOR SHALL BE #4 CU GND.
- 10 SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS FOR (N) CAT 6 WALL RACK PATCH PORTS.
- 11 3/4" PLYWOOD TO MOUNT NEW IDF ENCLOSURE. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
- 12 TYPICAL IDF RACK. IDF RACK IN BLDG SHALL BE WALL MOUNTED CABINET RACK HUBBEL #RE4XB.

2 COMMUNICATIONS RISER DIAGRAM

E3.2 SCALE: NOT TO SCALE

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SURVEILLANCE RISER DIAGRAM

CANADA COLLEGE TENNIS FACILITY IMPROVEMENTS

**4200 FARM HILL BLVD
REDWOOD CITY, CA 94061**

SUBMITTAL	DATE
90%	07/30/12
BID SUBMITTAL	08/21/12
ADDENDUM ONE	08/31/12
CONFORM SET	09/24/12

NO.	REVISIONS	DATE

DRAWN BY MM	CHECKED BY SF
DATE ISSUED 08/21/12	SCALE AS NOTED
PROJ. NO. 1207300-1281	
SHEET NO. E3.2	
32 OF 39 SHEETS	