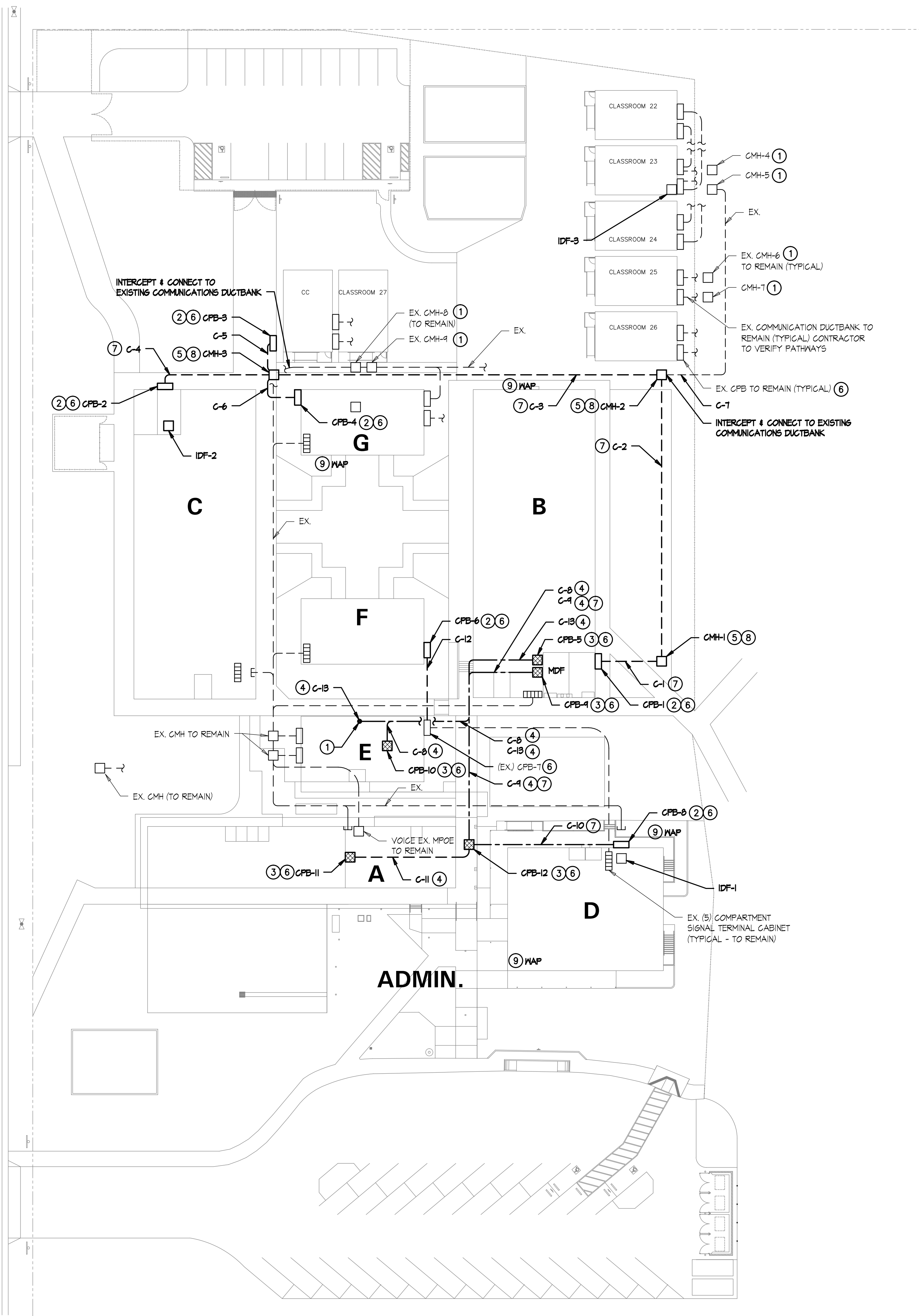


KEYNOTES

- ① CONTRACTOR TO INSPECT EXISTING CMH-4 THROUGH CMH-1 TO DETERMINE THE PATHWAYS TO PORTABLES 22-27 AND THE CHILD CARE PORTABLE. UTILIZE EXISTING PATHWAYS TO FEED IDF-3 AND THE PORTABLE DATA DROPS.
- ② SEE DETAIL D/E-1.2 FOR INSTALLATION AND BUILDING ENTRANCE.
- ③ SEE DETAIL E/E-1.2 FOR INSTALLATION AND BUILDING ENTRANCE.
- ④ SEE DETAIL F/E-1.1 FOR CONDUIT SUPPORTS.
- ⑤ SEE DETAIL G/ET-5.3 FOR LABELING.
- ⑥ SEE DETAIL D/ET-5.3 FOR LABELING.
- ⑦ SEE DETAIL F/ET-5.3 FOR FIBER DISTRIBUTION.
- ⑧ SEE DETAIL B/E-1.2.
- ⑨ EXTERIOR WIRELESS ACCESS POINT LOCATION. SEE FLOOR PLANS FOR DETAILS.

FINCH STREET



COMMUNICATION VAULT SCHEDULE

| NAME | SIZE |
|-------|--------------|
| CMH-1 | 9' X 9' X 9' |
| CMH-2 | 9' X 9' X 9' |
| CMH-3 | 9' X 9' X 9' |

COMMUNICATION FULLBOX SCHEDULE

| NAME | SIZE | TYPE |
|-------------|--------------|---------|
| CFB-1 | 24"SQ X 12"D | NEMA_3R |
| CFB-2 | 24"SQ X 12"D | NEMA_3R |
| CFB-3 | 18"SQ X 12"D | NEMA_3R |
| CFB-4 | 18"SQ X 12"D | NEMA_3R |
| CFB-5 | 18"SQ X 12"D | NEMA_3R |
| CFB-6 | 18"SQ X 12"D | NEMA_3R |
| CFB-7 (EX.) | | NEMA_3R |
| CFB-8 | 24"SQ X 12"D | NEMA_3R |
| CFB-9 | 24"SQ X 12"D | NEMA_3R |
| CFB-10 | 24"SQ X 12"D | NEMA_3R |
| CFB-11 | 24"SQ X 12"D | NEMA_3R |
| CFB-12 | 24"SQ X 12"D | NEMA_3R |

COMMUNICATIONS DUCT BANK SCHEDULE

| CONDUIT SEGMENT NAME | FROM | TO | TOTAL NUMBER OF CONDUITS | | |
|----------------------|-------------|--------|--------------------------|----|----|
| | | | 4" | 2" | 3" |
| C-1 | CFB-1 | CMH-1 | 3 | 1 | - |
| C-2 | CMH-1 | CMH-2 | 3 | 1 | - |
| C-3 | CMH-2 | CMH-3 | 3 | 1 | - |
| C-4 | CMH-3 | CFB-2 | 2 | 1 | 3 |
| C-5 | CMH-3 | CFB-3 | - | - | 3 |
| C-6 | CMH-3 | CFB-4 | - | - | 3 |
| C-7 (EX.) | CMH-2 | IDF-3 | (EXISTING) | | |
| C-8 | CFB-4 | CFB-10 | - | - | 4 |
| C-9 | CFB-4 | CFB-12 | - | 3 | - |
| C-10 | CFB-12 | CFB-8 | - | 3 | 3 |
| C-11 | CFB-12 | CFB-11 | - | - | 3 |
| C-12 | (EX.) CFB-7 | CFB-6 | - | - | 3 |
| C-13 | ① | CFB-5 | 1 | - | - |

CONDUIT BREAKDOWN

| CONDUIT SEGMENT NAME | FIBER CONDUITS W/ 3 1/4" INNERDUITS EA * | | | COPPER | | | | FIRE ALARM / GROUND | SPARE | AT&T | |
|----------------------|------------------------------------------|----|----|-----------------------|----|----|----|---------------------|-------|------|----|
| | F1 | F2 | F3 | C1 | C2 | C3 | C4 | FA | 6 | SP | |
| C-1 | 4" | - | - | 4" | - | - | - | - | 2" | 4" | - |
| C-2 | 4" | - | - | 4" | - | - | - | - | 2" | 4" | - |
| C-3 | 4" | - | - | 4" | - | - | - | - | 2" | 4" | - |
| C-4 | 4" | - | - | 3" | 3" | 3" | - | - | 2" | 4" | - |
| C-5 | - | - | - | 3" | 3" | - | - | - | - | 3" | - |
| C-6 | - | - | - | 3" | 3" | - | - | - | - | 3" | - |
| C-7 | USE EXISTING PATHWAYS | | | USE EXISTING PATHWAYS | | | | - | - | - | - |
| C-8 | - | - | - | 3" | 3" | 3" | - | - | - | 3" | - |
| C-9 | 2" | - | - | - | - | - | - | - | 2" | 2" | - |
| C-10 | 2" | - | - | 3" | 3" | 3" | - | - | 2" | 2" | - |
| C-11 | - | - | - | 3" | 3" | - | - | - | - | 3" | - |
| C-12 | - | - | - | 3" | 3" | - | - | - | - | 3" | - |
| C-13 | - | - | - | - | - | - | - | - | - | - | 2" |

* PROVIDE MAXCELL 2" 3-CELL FABRIC INNERDUIT IN 2" CONDUITS. USE (1) CELL PER CABLE TYPE.

TRENCHING NOTE

LOCATIONS OF EXISTING UNDERGROUND UTILITY AND OTHER UNDERGROUND OBSTRUCTIONS AND CONDITIONS ARE GENERALLY UNKNOWN. HIRE A UTILITY LOCATING SERVICE TO LOCATE ALL EXISTING UNDERGROUND UTILITIES PRIOR TO DIGGING. VERIFY EXACT LOCATION SIZE AND EXTENT OF ALL OBSTRUCTIONS AND OTHER CONDITIONS WHICH MAY AFFECT THE PROPOSED WORK UNDER THE PROJECT. TAKE EVERY PRECAUTION TO PREVENT DAMAGE TO EXISTING WORK, INCLUDING HAND DIGGING AROUND EXISTING UTILITIES, TREE ROOT SYSTEMS, AND HARDSCAPE FEATURES. ANY DAMAGE TO EXISTING UTILITIES OR STRUCTURES SHALL BE IMMEDIATELY REPAIRED OR REPLACED IN ACCORDANCE WITH THE CLIENT'S DIRECTION AT THE CONTRACTOR'S EXPENSE.



SIGNAL SITE PLAN

NORTH

1" = 30'-0"

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REGISTERED PROFESSIONAL ENGINEER
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Exp. 9-30-12

MARK FORTIE, RCDD
REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
EXPIRES 12/31/13
Regis. No. 081432

04/02/12

SPROTTE WATSON
ARCHITECTURE | PLANNING

IT UPGRADE
FLYING HILLS ELEMENTARY
CAJON VALLEY UNION SCHOOL DISTRICT
1251 FINCH STREET
EL CAJON, CA 92020

CONSULTANT

APPROVALS

DESCRIPTION

SIGNAL SITE PLAN

DATE

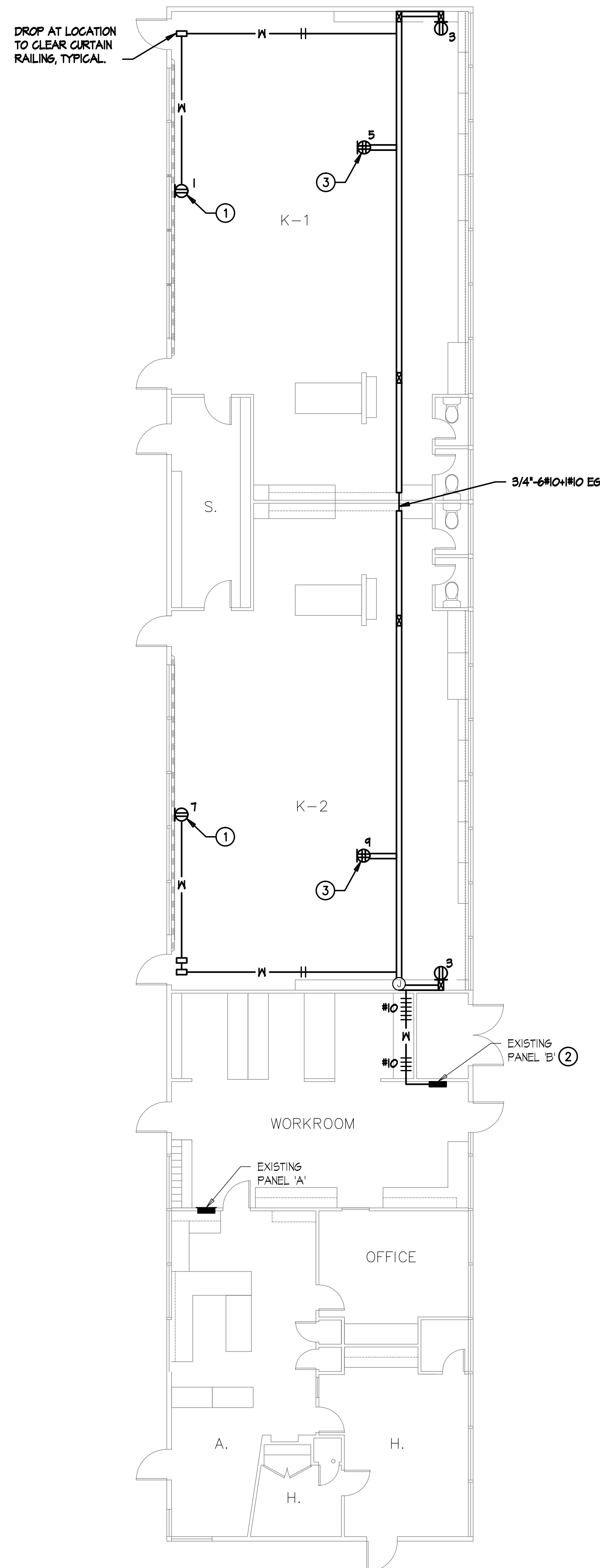
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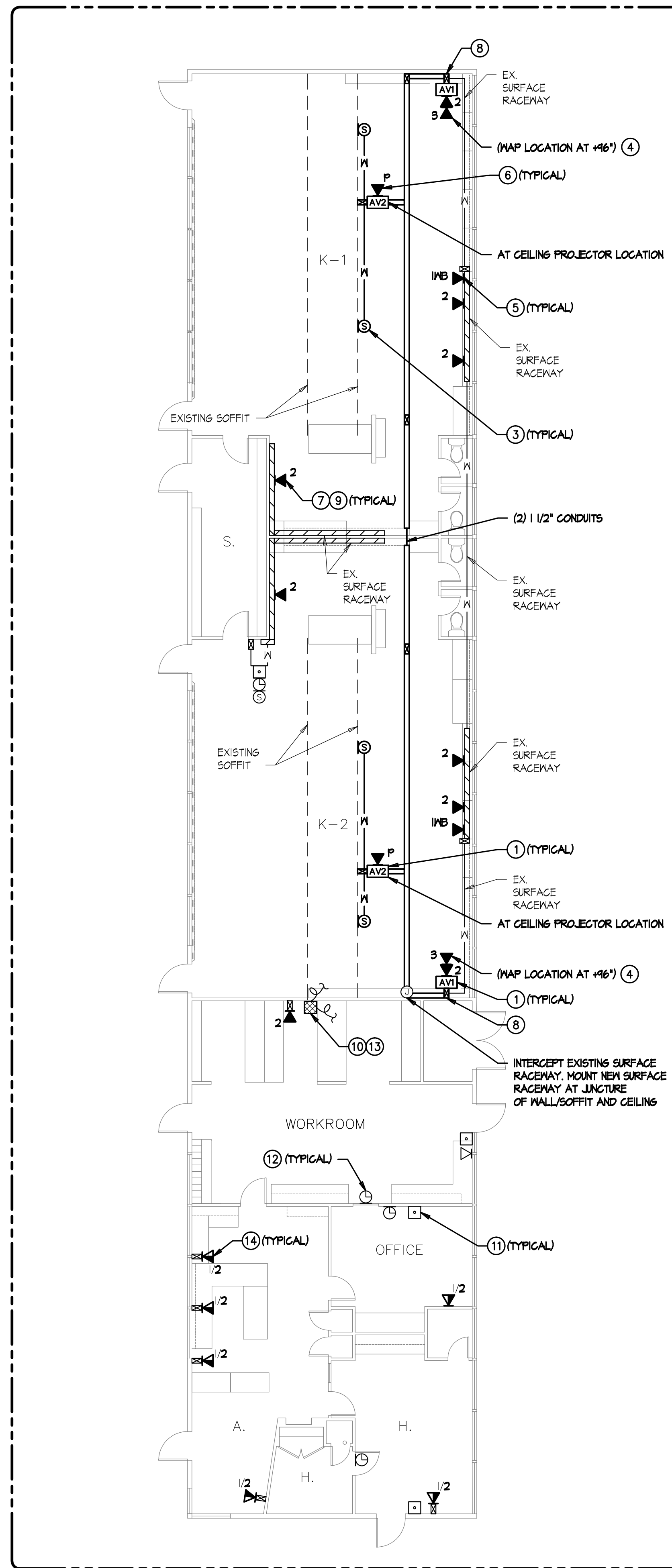
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SHEET #

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BUILDING A - POWER PLAN



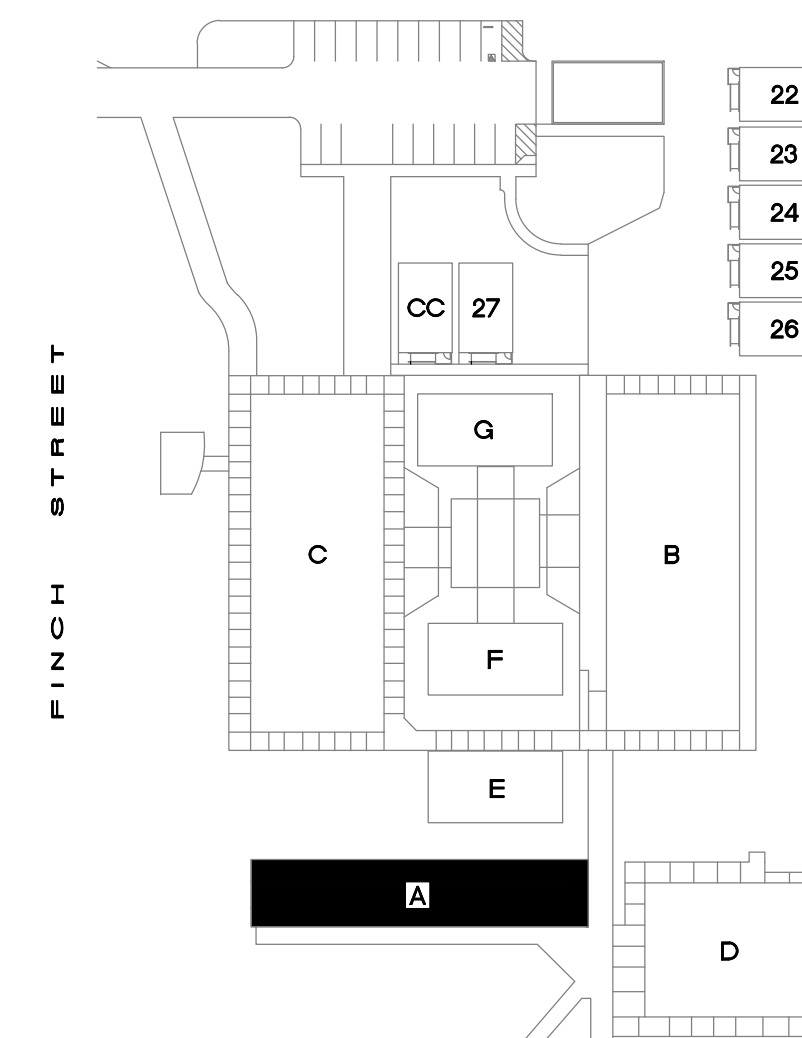
BUILDING A - SIGNAL PLAN

POWER PLAN KEYNOTES

- ① PROVIDE RECEPTACLE MOUNTED AT +18" AFF FOR LAPTOP CART. PROVIDE DEDICATED BRANCH CIRCUIT. USE WIREHOLD 2400 DROP FROM CEILING WITH ASSOCIATED CONDUIT TRANSITION FITTINGS.
- ② SEE RESPECTIVE PANEL SCHEDULE FOR ADDITIONAL WORK AT EXISTING PANEL.
- ③ MOUNT DOUBLE DUPLEX RECEPTACLE OUTLET ON HARD CEILING FOR CEILING MOUNTED PROJECTOR AND AV POWER SUPPLY.

SIGNAL PLAN KEYNOTES

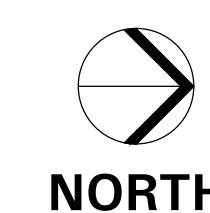
- ① AV1 OUTLET MOUNTED AT TEACHER'S STATION LOCATION AT +18" AFF. SEE ET-5.4 FOR DETAILS.
- ② AV2 OUTLET MOUNTED AT CEILING MOUNTED PROJECTOR LOCATION AT +18" AFF. SEE ET-5.4 FOR DETAILS. USE EXTRON EMB SURFACE MOUNT BOX FOR INTERFACE.
- ③ AUDIO/VISUAL SPEAKER SURFACE MOUNTED ON SOFFIT AT +108" AFF. SEE ET-5.4 FOR DETAILS. USE CMI AMP602-2IN SURFACE MOUNTED SPEAKERS.
- ④ (B) PORT CATEGORY 6 DATA OUTLET DESIGNATED FOR WIRELESS NETWORK.
- ⑤ (I) PORT CATEGORY 6 DATA OUTLET DESIGNATED FOR FUTURE INTERACTIVE WHITEBOARD.
- ⑥ (I) PORT CATEGORY 6 DATA OUTLET AT PROJECTOR DESIGNATED FOR PROJECTOR MONITORING. CONTRACTOR TO COORDINATE EXACT LOCATION WITH PROJECTOR MOUNTING PLATE.
- ⑦ CATEGORY 6 DATA OUTLET. PROVIDE NEW CATEGORY 6 DATA JACK AND CABLE TO IDF. UTILIZE EXISTING RACEWAY FOR INSTALLATION; SEE RISER DIAGRAM A/ET-1.3 FOR DETAILS.
- ⑧ NEW MULTI-CHANNEL SURFACE RACEWAY. PROVIDE EXTRON 2-GANG EMB SERIES WALL BOX FOR AV INTERFACE. SEE DETAIL A/ET-5.3.
- ⑨ SEE A/ET-5.3 FOR LABELING DETAILS.
- ⑩ SEE D/ET-5.3 FOR LABELING DETAILS.
- ⑪ EXISTING PHONE (BOSEN HANDSET), TO REMAIN.
- ⑫ DISTRICT CLOCK TO REMAIN.
- ⑬ NEW 18"SQ X 8"D FULLBOX MOUNTED ON CEILING. RE-TERMINATE EXISTING FLEX CONDUITS. PENETRATE ROOF TO FULLBOX ON ROOF (CFB-II) WITH (4) 2" CONDUITS. PROVIDE CONDUIT BUSHINGS AND LOCKNUTS. FIRE STOP TO MAINTAIN ROOF RATING AND CAULK/SEAL AGAINST WEATHER INTRUSION. SEE E-0.4 FOR CFB-II FOR CONTINUING PATHWAY.
- ⑭ COMBINATION VOICE/DATA OUTLET. VOICE TO REMAIN, PROVIDE (2) NEW CATEGORY 6 DATA JACKS AND CABLE TO IDF. UTILIZE EXISTING RACEWAY FOR INSTALLATION. SEE RISER DIAGRAM A/ET-1.1 FOR DETAILS.



KEYPLAN



NTS



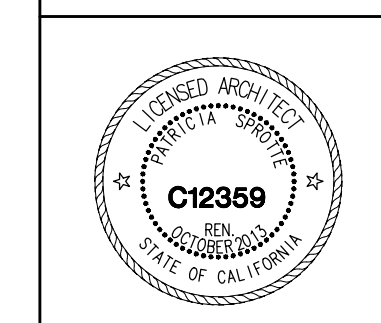
1/8" = 1'-0"

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STATE OF CALIFORNIA

MARK FORTIE, RCDD
REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
BICSI®
EXPIRES 12/31/13
Regis. No. 081432

04/02/12



CONSULTANT

APPROVALS

DESCRIPTION

BUILDING A POWER AND SIGNAL PLANS

DATE

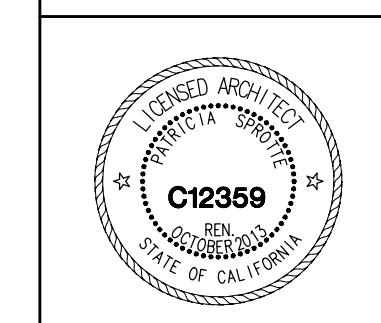
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JOB #

11344

SHEET #

E-11



CONSULTANT

APPROVALS

DESCRIPTION

BUILDING B
POWER AND
SIGNAL PLANS

DATE

04-05-2012

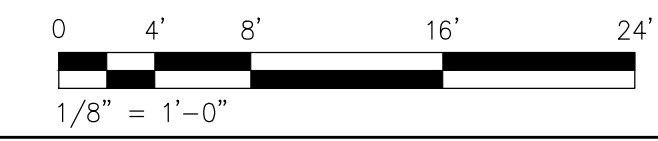
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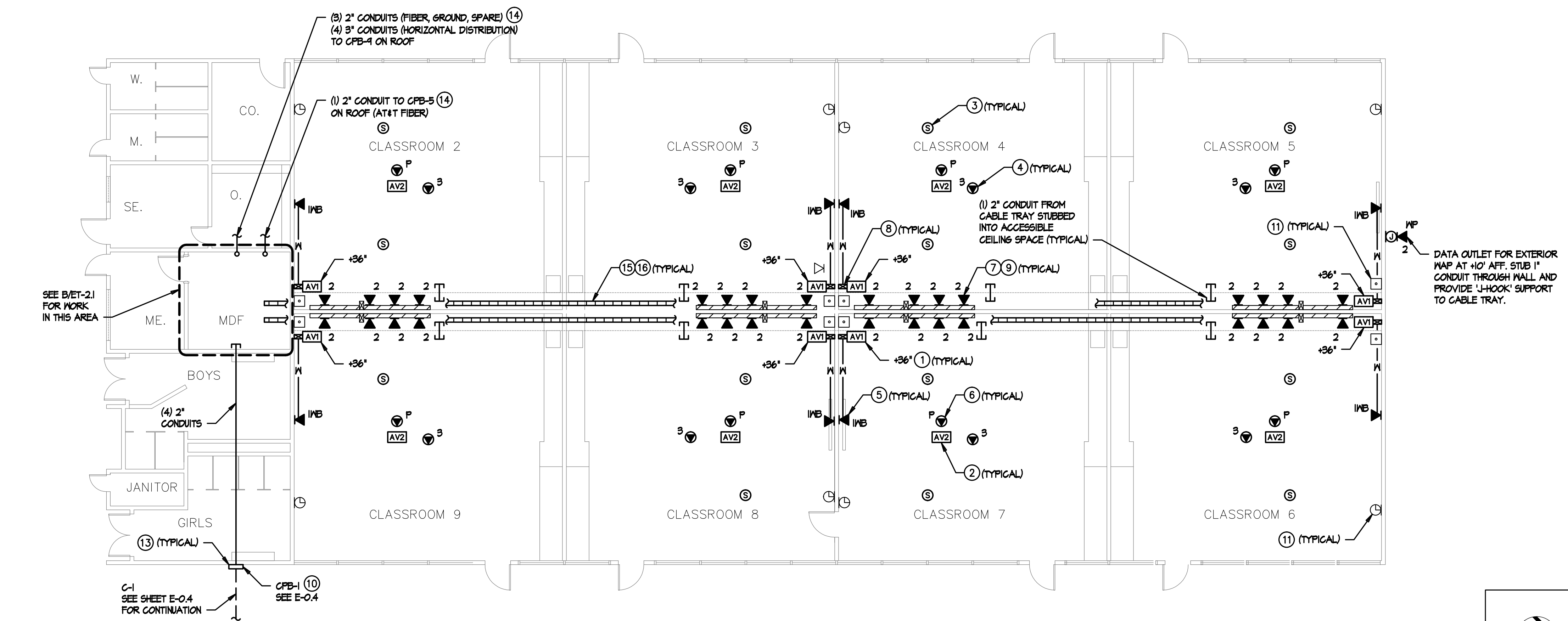
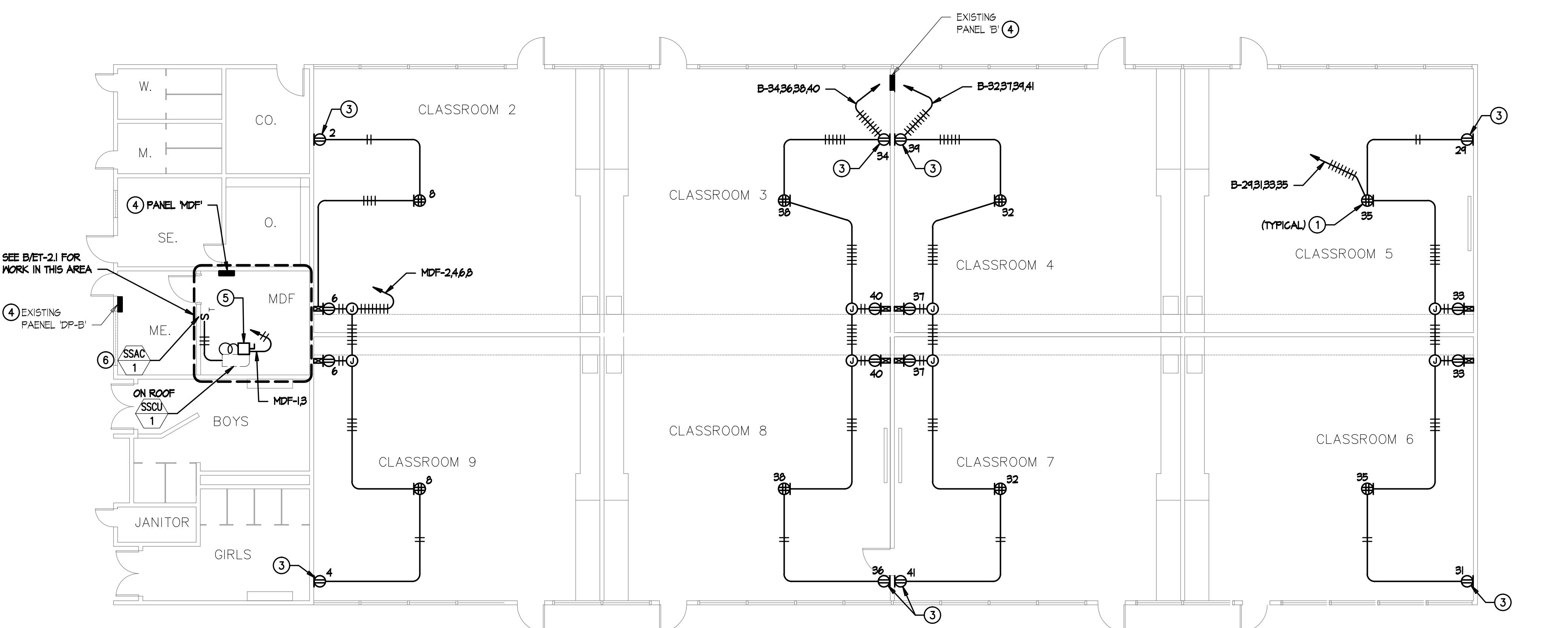
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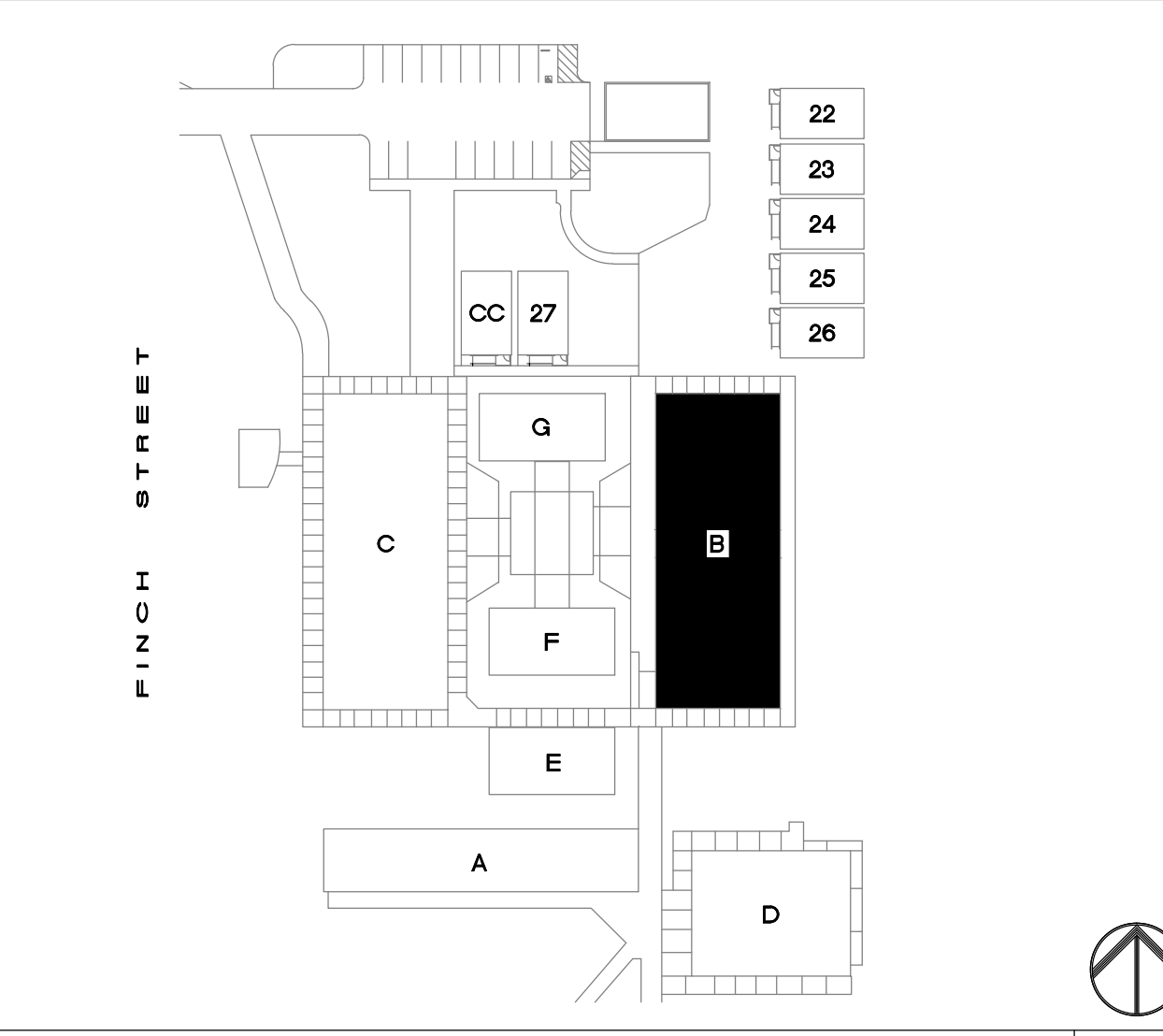
- ### POWER PLAN KEYNOTES
- 1 MOUNT DOUBLE DUPLEX OUTLET IN CEILING TILE FOR CEILING MOUNTED PROJECTOR AND AV POWER SUPPLY.
 - 2 NOT USED.
 - 3 PROVIDE RECEPTACLE MOUNTED AT +18" AFF FOR LAPTOP CART. PROVIDE DEDICATED BRANCH CIRCUIT. USE WIREMOLD 2400 DROP FROM CEILING WITH ASSOCIATED CONDUIT TRANSITION FITTINGS.
 - 4 SEE RESPECTIVE PANEL SCHEDULE FOR ADDITIONAL WORK AT EXISTING PANEL.
 - 5 PROVIDE NEMA 3R, 30AS/30AF/2P DISCONNECT SWITCH ON ROOF FOR CONDENSING UNIT. PROVIDE 3/4"-3/12 DOWN TO FAN COIL UNIT IN IDF ROOM. PATCH/REPAIR/SEAL ROOF PENETRATION.
 - 6 PROVIDE NEMA 1, DPST 208 VOLT MOTOR RATED SWITCH AND FINAL CONNECTION TO FAN COIL UNIT. FAN COIL UNIT POWERED THROUGH CONDENSING UNIT.
- ### SIGNAL PLAN KEYNOTES
- 1 AV1 OUTLET MOUNTED AT TEACHER'S STATION LOCATION AT +18" AFF. SEE ET-5.4 FOR DETAILS.
 - 2 AV2 OUTLET MOUNTED AT SHORT-THROW PROJECTOR LOCATION AT +46" AFF. SEE ET-5.4 FOR DETAILS.
 - 3 AUDIOVISUAL SPEAKER FLUSH IN CEILING TILE. SEE ET-5.4 FOR DETAILS.
 - 4 (3) PORT CATEGORY 6 CEILING MOUNTED DATA OUTLET FLUSH IN CEILING TILE DESIGNATED FOR WIRELESS NETWORK. PROVIDE 'J-HOOK' SUPPORTS EVERY 4' TO CABLE TRAY. SEE DETAIL D/ET-5.2.
 - 5 (1) PORT CATEGORY 6 DATA OUTLET DESIGNATED FOR FUTURE INTERACTIVE WHITEBOARD. LOCATION TO BE AT CENTER OF TEACHING WALL AT +18" AFF.
 - 6 (1) PORT CATEGORY 6 DATA OUTLET AT +46" AFF. DESIGNATED FOR PROJECTOR MONITORING. CONTRACTOR TO COORDINATE EXACT LOCATION WITH SHORT-THROW PROJECTOR MOUNTING PLATE.
 - 7 CATEGORY 6 DATA OUTLET. PROVIDE NEW CATEGORY 6 DATA JACK AND CABLE TO IDF. UTILIZE EXISTING RACEMAY FOR INSTALLATION; PROVIDE AND UTILIZE 'J-HOOK' SUPPORTS EVERY 4' IN ACCESSIBLE CEILING SPACE TO CABLE TRAY. SEE RISER DIAGRAM A/ET-1.3 FOR DETAILS.
 - 8 NEW MULTI-CHANNEL SURFACE RACEMAY INTO CEILING SPACE. PROVIDE EXTRON 2-GANG ENB SERIES WALL BOX FOR AV INTERFACE. SEE DETAIL A/ET-5.5.
 - 9 SEE A/ET-5.3 FOR LABELING DETAILS.
 - 10 SEE D/ET-5.3 FOR LABELING DETAILS.
 - 11 EXISTING PHONE (BOSEN HANDSET), TO REMAIN.
 - 12 DISTRICT CLOCK TO REMAIN.
 - 13 PENETRATE MALL INTO ACCESSIBLE CEILING SPACE ABOVE CEILING GRID. SEE DETAIL D/E-1.2. FIRE STOP PENETRATION TO MAINTAIN FIRE RATINGS. CAULK AND SEAL PENETRATION(S) AGAINST WEATHER INTRUSION.
 - 14 PENETRATE ROOF TO FULLBOX ON ROOF. SEE DETAIL E/E-1.2. PROVIDE CONDUIT BUSHING AND LOCK RINGS. FIRE STOP TO MAINTAIN FIRE RATINGS. CAULK AND SEAL AGAINST WEATHER INTRUSION.
 - 15 6" WIDE BASKET TYPE CABLE TRAY MOUNTED WITHIN EXISTING CHASE FROM MDF. COORDINATE INSTALLATION WITH OTHER TRADES. SEE DETAIL A/ET-5.2 FOR INSTALLATION.
 - 16 PROVIDE CONTINUOUS #6 AWG GROUND FOR ENTIRE LENGTH OF CABLE TRAY SYSTEM. BOND EVERY SECTION AND EVERY CONDUIT. BOND TO TMB6 IN MDF ROOM.



BUILDING B - POWER PLAN



BUILDING B - SIGNAL PLAN



KEYPLAN

NORTH

1/8" = 1'-0"

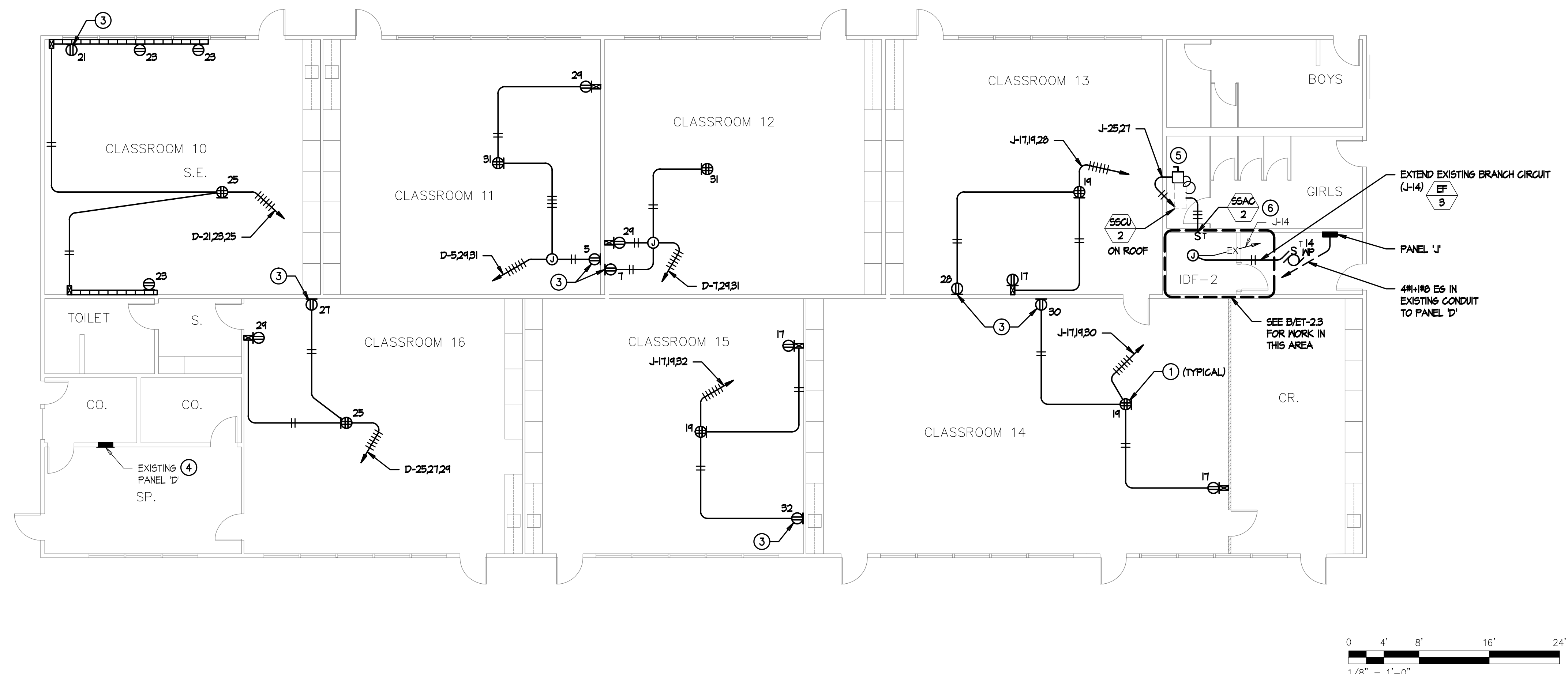
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ENGINEERING, INC.
CONSULTING ELECTRICAL ENGINEERS
4719 PALM AVENUE
LA MESA, CA 91941-5221
619-466-1622 FAX 619-466-1623
E-MAIL: ENGINEER@TRFSD.COM

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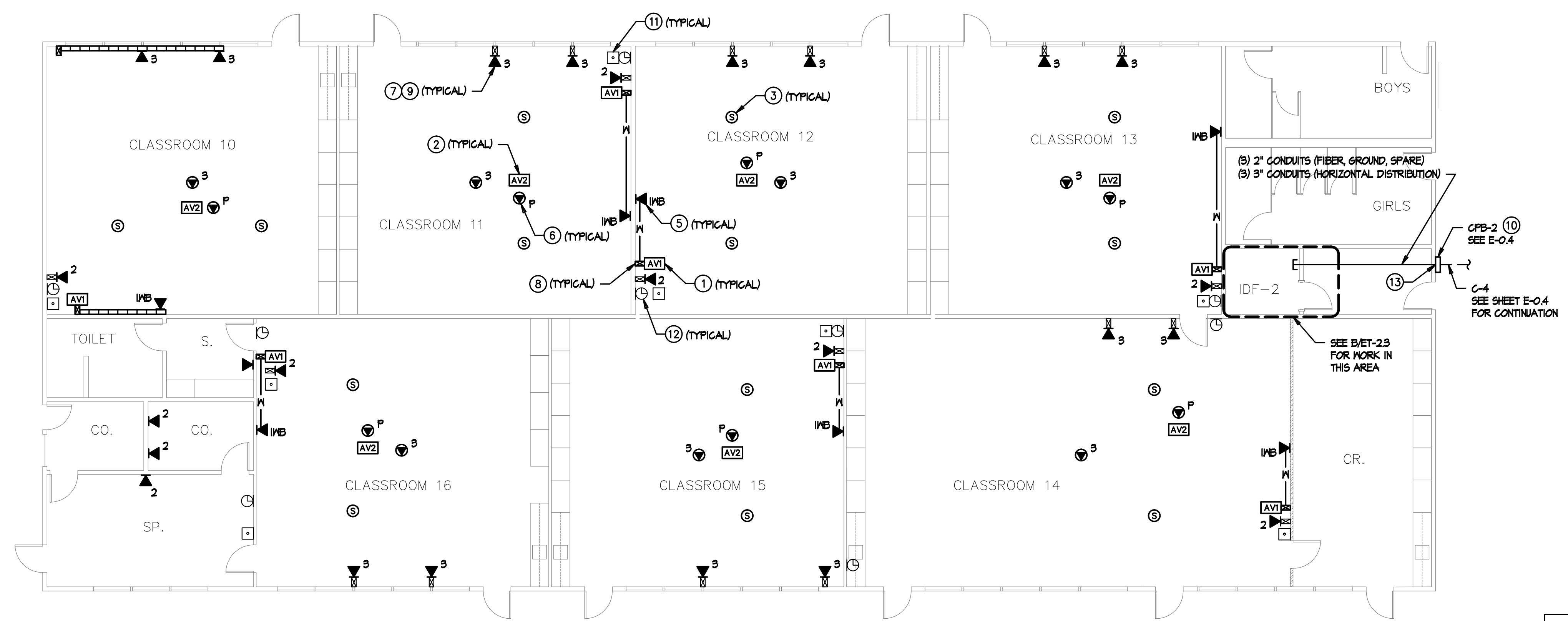
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REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER

REGISTERED PROFESSIONAL ENGINEER
STEPHEN J. KORTUM
13554
Exp 9-30-12
STATE OF CALIFORNIA

EXPIRES 12/31/13
Regis. No. 081432



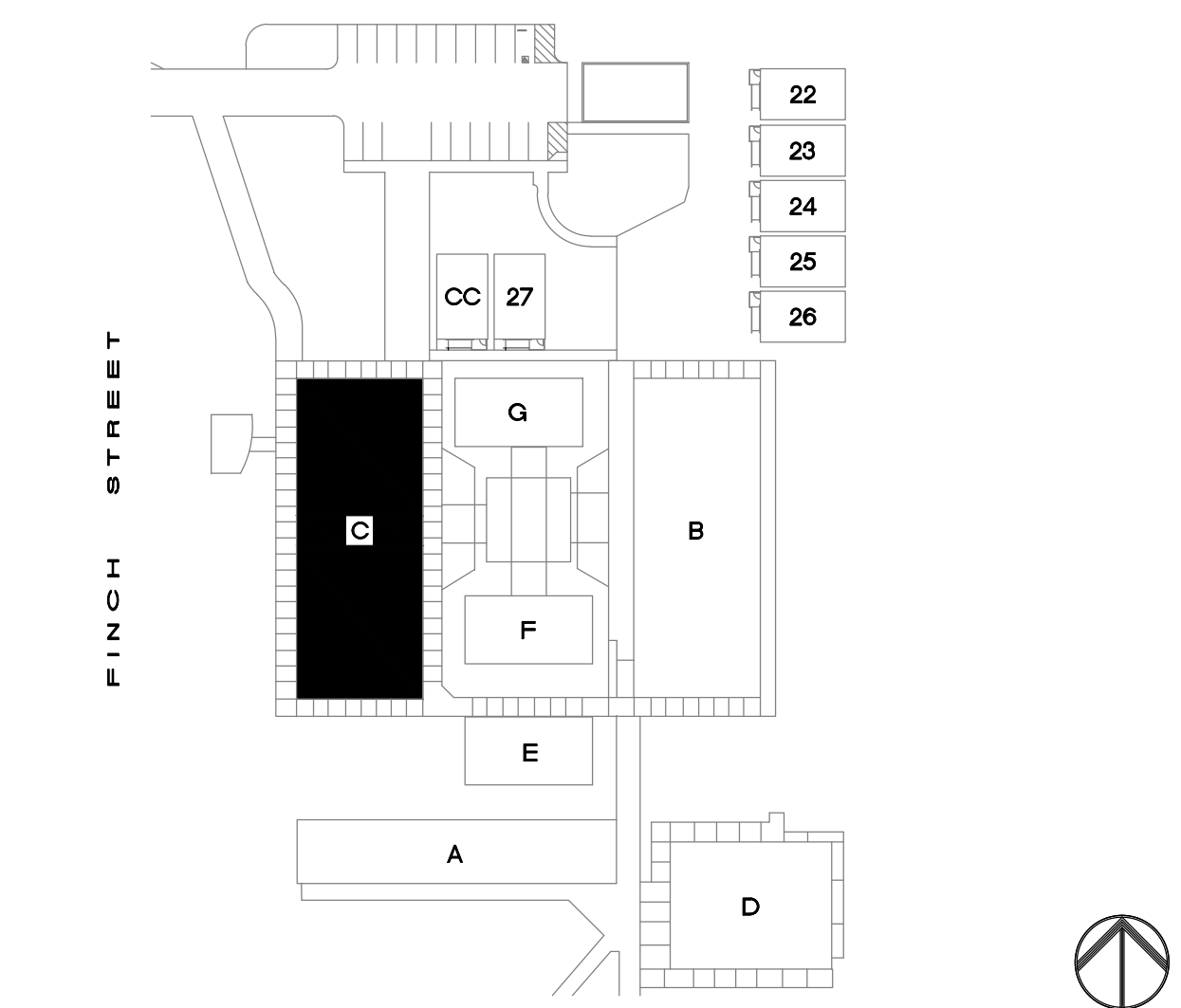
BUILDING C - POWER PLAN



BUILDING C - SIGNAL PLAN

- POWER KEYNOTES**
- 1 MOUNT DOUBLE DUPLEX OUTLET IN CEILING TILE FOR CEILING MOUNTED PROJECTOR AND AV POWER SUPPLY.
 - 2 NOT USED.
 - 3 PROVIDE RECEPTACLE MOUNTED AT +18" AFF FOR LAPTOP CART. PROVIDE DEDICATED BRANCH CIRCUIT. USE WIREHOLD 2400 DROP FROM CEILING WITH ASSOCIATED CONDUIT TRANSITION FITTINGS.
 - 4 SEE RESPECTIVE PANEL SCHEDULE FOR ADDITIONAL WORK AT EXISTING PANEL.
 - 5 PROVIDE NEMA 3R, 30A/30AF/2P DISCONNECT SWITCH ON ROOF FOR CONDENSING UNIT. PROVIDE 3/4"-3/8" DISCONNECT SWITCH ON ROOF FOR CONDENSING UNIT. PATCH/REPAIR/SEAL ROOF PENETRATION.
 - 6 PROVIDE NEMA 1, DPST 208 VOLT MOTOR RATED SWITCH AND FINAL CONNECTION TO FAN COIL UNIT. FAN COIL UNIT POWERED THROUGH CONDENSING UNIT.

- SIGNAL PLAN KEYNOTES**
- 1 AV1 OUTLET MOUNTED AT TEACHER'S STATION LOCATION AT +18" AFF. SEE ET-5.4 FOR DETAILS.
 - 2 AV2 OUTLET MOUNTED AT CEILING MOUNTED PROJECTOR LOCATION. SEE ET-5.4 & ET-5.5 FOR DETAILS.
 - 3 AUDIO/VISUAL SPEAKER FLUSH IN CEILING TILE. SEE ET-5.4 & ET-5.5 FOR DETAILS.
 - 4 (3) PORT CATEGORY 6 CEILING MOUNTED DATA OUTLET FLUSH IN CEILING TILE DESIGNATED FOR WIRELESS NETWORK. PROVIDE 'J-HOOK' SUPPORTS EVERY 4' TO IDF. SEE DETAIL D/ET-5.2.
 - 5 (1) PORT CATEGORY 6 DATA OUTLET DESIGNATED FOR FUTURE INTERACTIVE WHITEBOARD. LOCATION TO BE AT CENTER OF TEACHING WALL AT +18" AFF.
 - 6 (1) PORT CATEGORY 6 DATA OUTLET AT PROJECTOR DESIGNATED FOR PROJECTOR MONITORING. CONTRACTOR TO COORDINATE EXACT LOCATION WITH CEILING MOUNTED PROJECTOR MOUNTING PLATE.
 - 7 CATEGORY 6 DATA OUTLET. PROVIDE NEW CATEGORY 6 DATA JACK AND CABLE TO IDF. UTILIZE EXISTING RACEMAY FOR INSTALLATION; PROVIDE AND UTILIZE 'J-HOOK' SUPPORTS EVERY 4' IN ACCESSIBLE CEILING SPACE TO IDF. SEE DETAIL D/ET-5.2. SEE RISER DIAGRAM A/ET-1.3 FOR DETAILS.
 - 8 NEW MULTI-CHANNEL SURFACE RACEMAY INTO CEILING SPACE. PROVIDE EXTRON 2-6ANG ENB SERIES WALL BOX FOR AV INTERFACE. SEE DETAIL A/ET-5.5.
 - 9 SEE A/B/ET-5.3 FOR LABELING DETAILS.
 - 10 SEE D/ET-5.3 FOR LABELING DETAILS.
 - 11 EXISTING PHONE (BOSEN HANDSET), TO REMAIN.
 - 12 DISTRICT CLOCK TO REMAIN.
 - 13 PENETRATE WALL INTO ACCESSIBLE CEILING SPACE. CAULK PENETRATION TO MAINTAIN WALL RATINGS. SEE DETAIL D/E-1.2.



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IT UPGRADE
FLYING HILLS ELEMENTARY
CAJON VALLEY UNION SCHOOL DISTRICT
1251 FINCH STREET
EL CAJON, CA 92020

APPROVALS

DESCRIPTION
BUILDING C
POWER AND
SIGNAL PLANS

DATE
04-05-2012

JOB #
11344

SHEET #
E-31

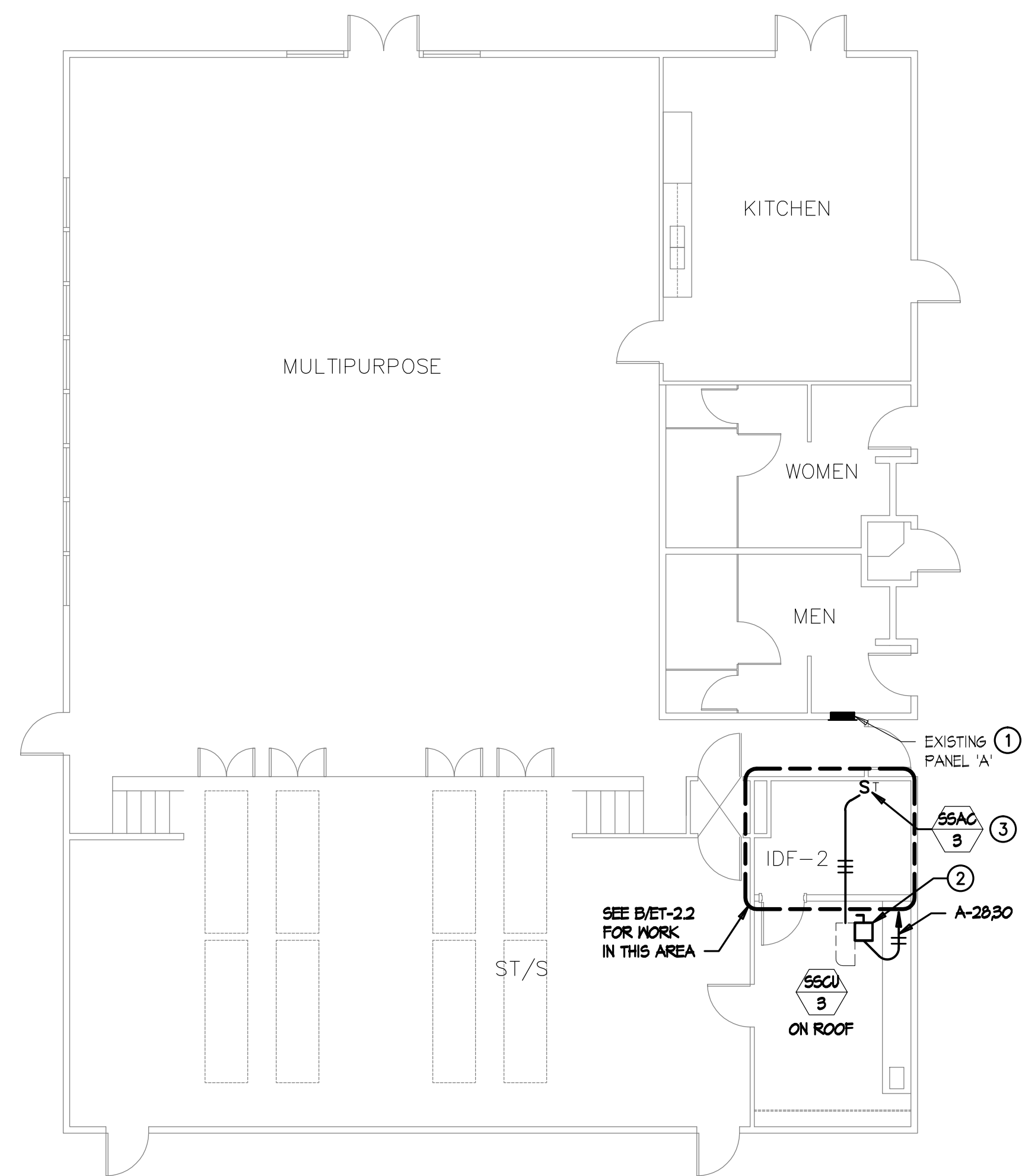
450 S. Main Street, Suite 200, Vista, California 92081 | 760.639.4120 | www.sprotte-watson.com



1/8" = 1'-0"

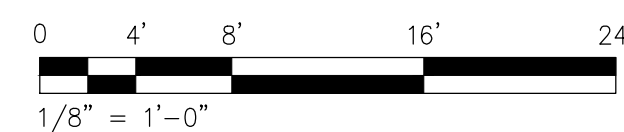
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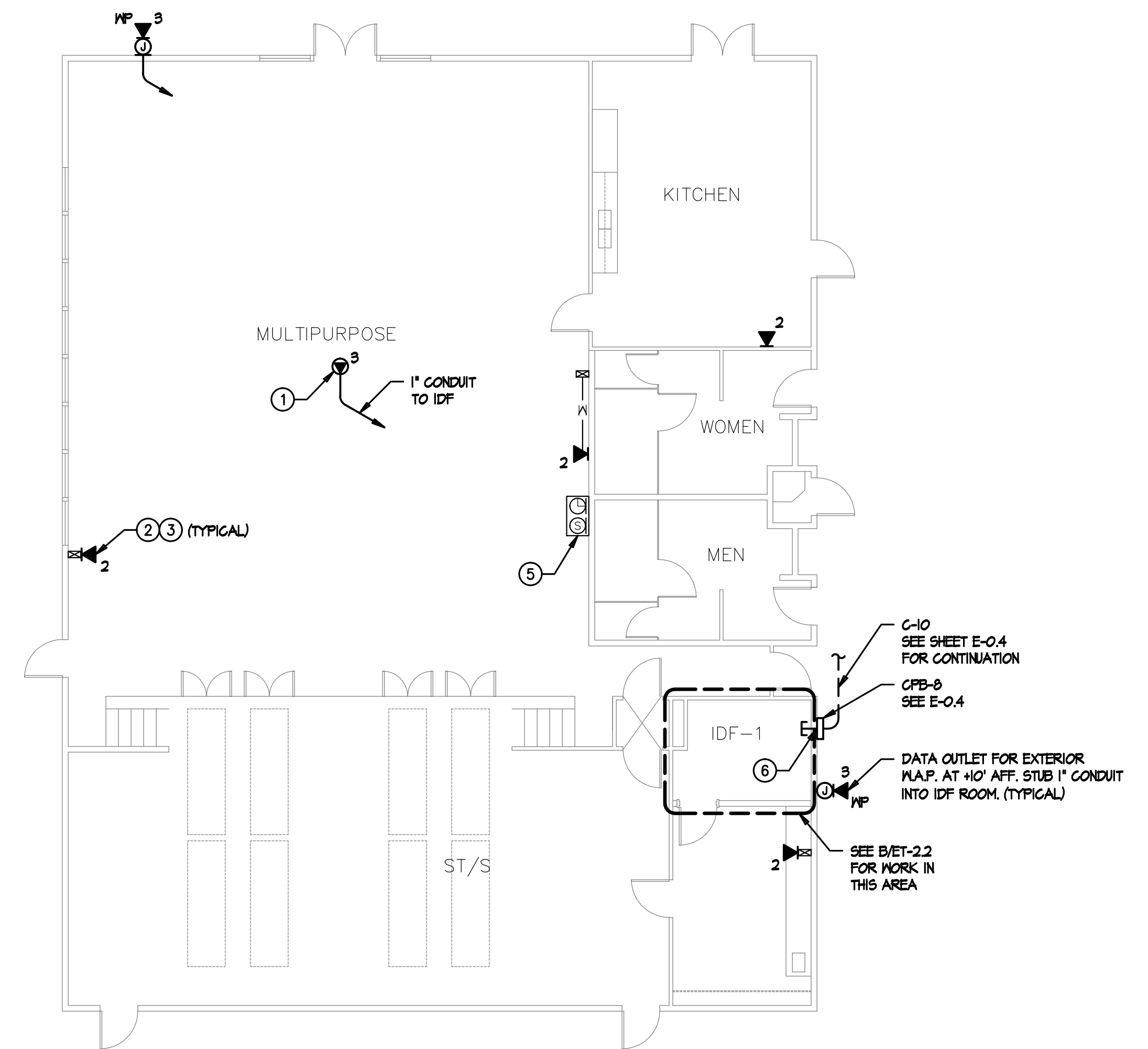


POWER KEYNOTES

- ① SEE RESPECTIVE PANEL SCHEDULE FOR ADDITIONAL WORK AT EXISTING PANEL.
- ② PROVIDE NEMA 3R, 30AS/30AF/2P DISCONNECT SWITCH ON ROOF FOR CONDENSING UNIT. PROVIDE 3/4"-5/16" DOWN TO FAN COIL UNIT IN IDF ROOM. PATCH/REPAIR/SEAL ROOF PENETRATION.
- ③ PROVIDE NEMA 1, DPST 208 VOLT MOTOR RATED SWITCH AND FINAL CONNECTION TO FAN COIL UNIT. FAN COIL UNIT POWERED THROUGH CONDENSING UNIT.



BUILDING D - POWER PLAN

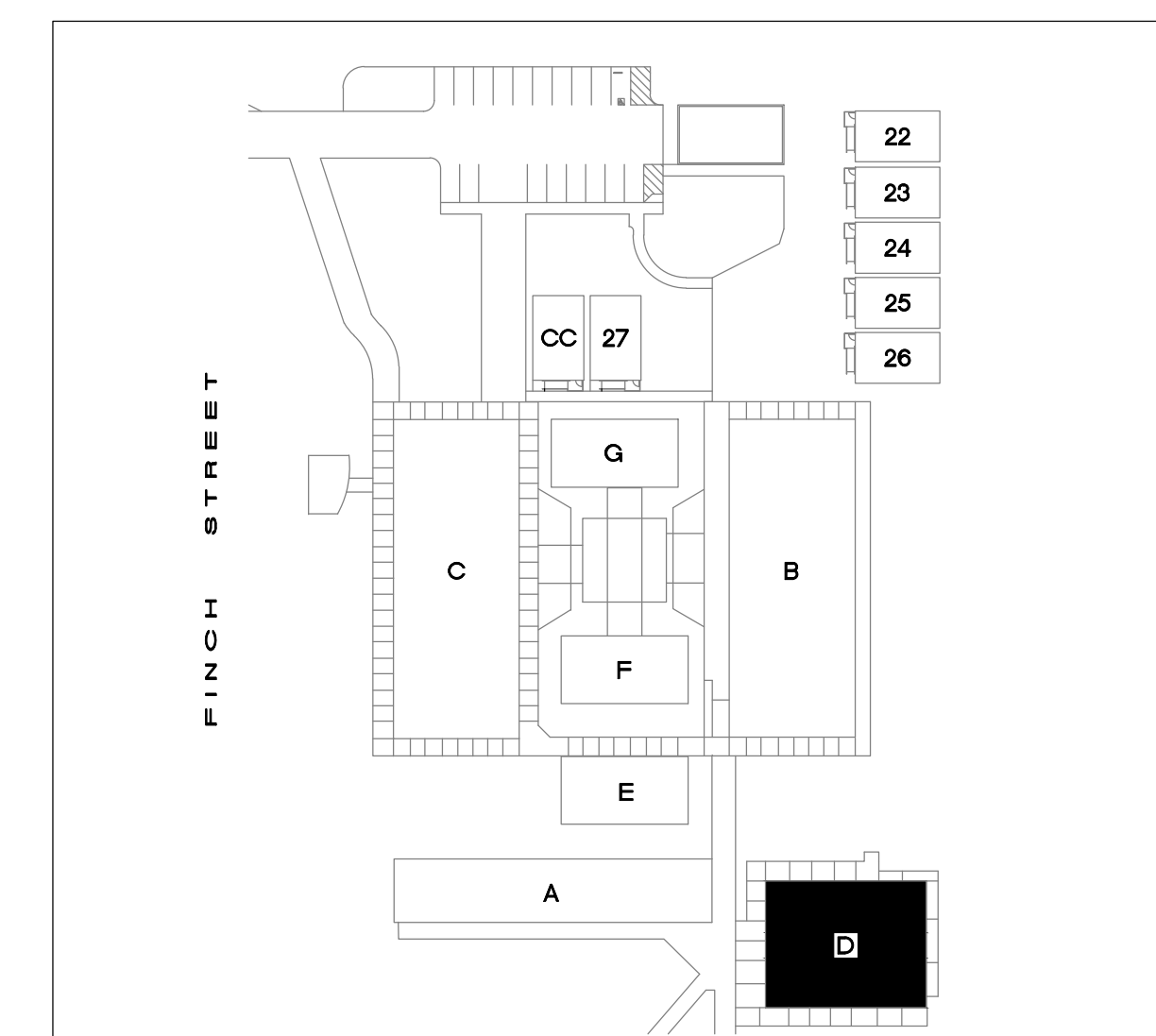


SIGNAL PLAN KEYNOTES

- ① (3) PORT CATEGORY 6 CEILING MOUNTED DATA OUTLET FLUSH IN CEILING TILE DESIGNATED FOR WIRELESS NETWORK.
- ② CATEGORY 6 DATA OUTLET. PROVIDE NEW CATEGORY 6 DATA JACK AND CABLE TO IDF. UTILIZE EXISTING RACEMAY FOR INSTALLATION; PROVIDE AND UTILIZE J-HOOK SUPPORTS EVERY 4' IN ACCESSIBLE CEILING SPACE TO IDF. SEE RISER DIAGRAM A/E-1.3 FOR DETAILS.
- ③ SEE A/B/ET-5.3 FOR LABELING DETAILS.
- ④ SEE D/ET-5.3 FOR LABELING DETAILS.
- ⑤ DISTRICT PROVIDED CLOCK/SPEAKER TO REMAIN.
- ⑥ PENETRATE WALL INTO ACCESSIBLE CEILING SPACE. CAULK PENETRATION TO MAINTAIN WALL RATING. SEE DETAIL A/E-1.2.

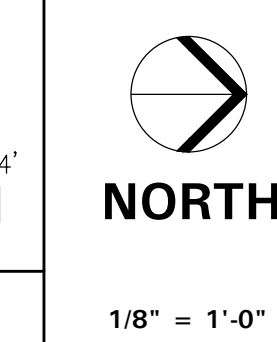


BUILDING D - SIGNAL PLAN

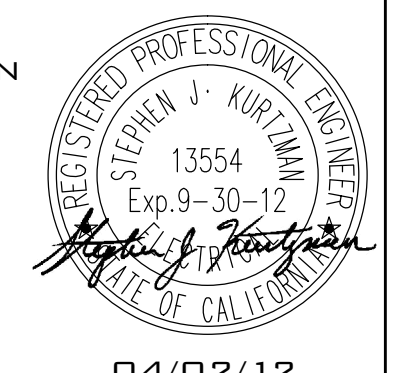


KEYPLAN

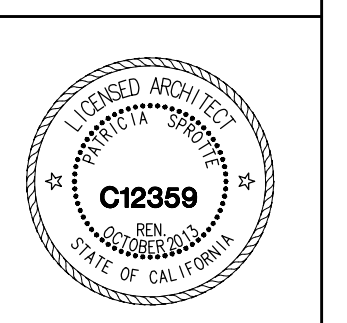
NTS



TURPIN & RATTAN
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CONSULTING ELECTRICAL ENGINEERS
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LA MESA, CA 91941-5221
619-465-16224 FAX 619-465-16233
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TREI # 11344
V.PHATHANAK 04/02/12 - 7:57PM



MARK FORTIE, RCDD
REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
BICSI
EXPIRES 12/31/13
Regis. No. 081432



CONSULTANT

APPROVALS

DESCRIPTION

BUILDING D
POWER AND
SIGNAL PLANS

DATE

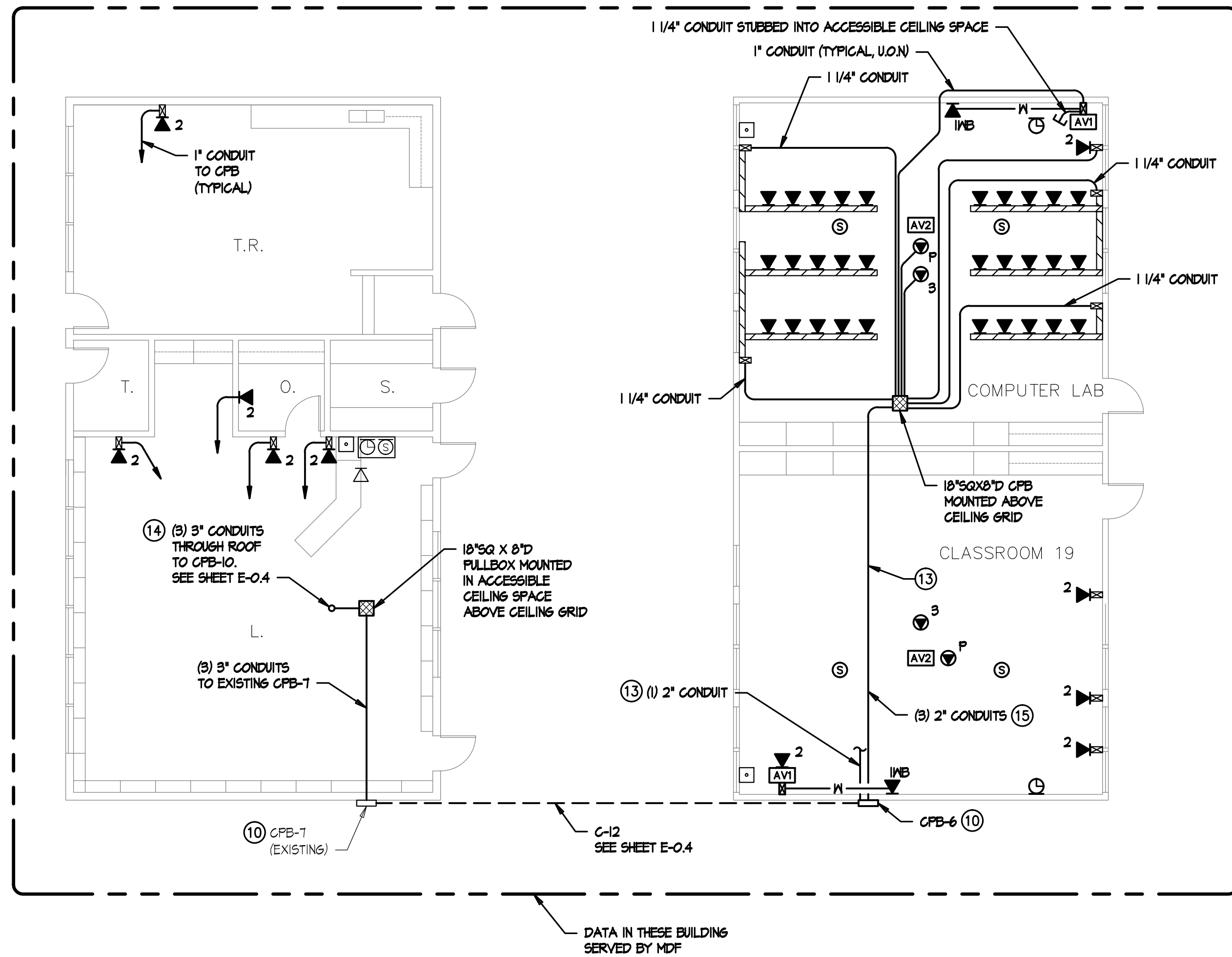
04-05-2012

JOB #

11344

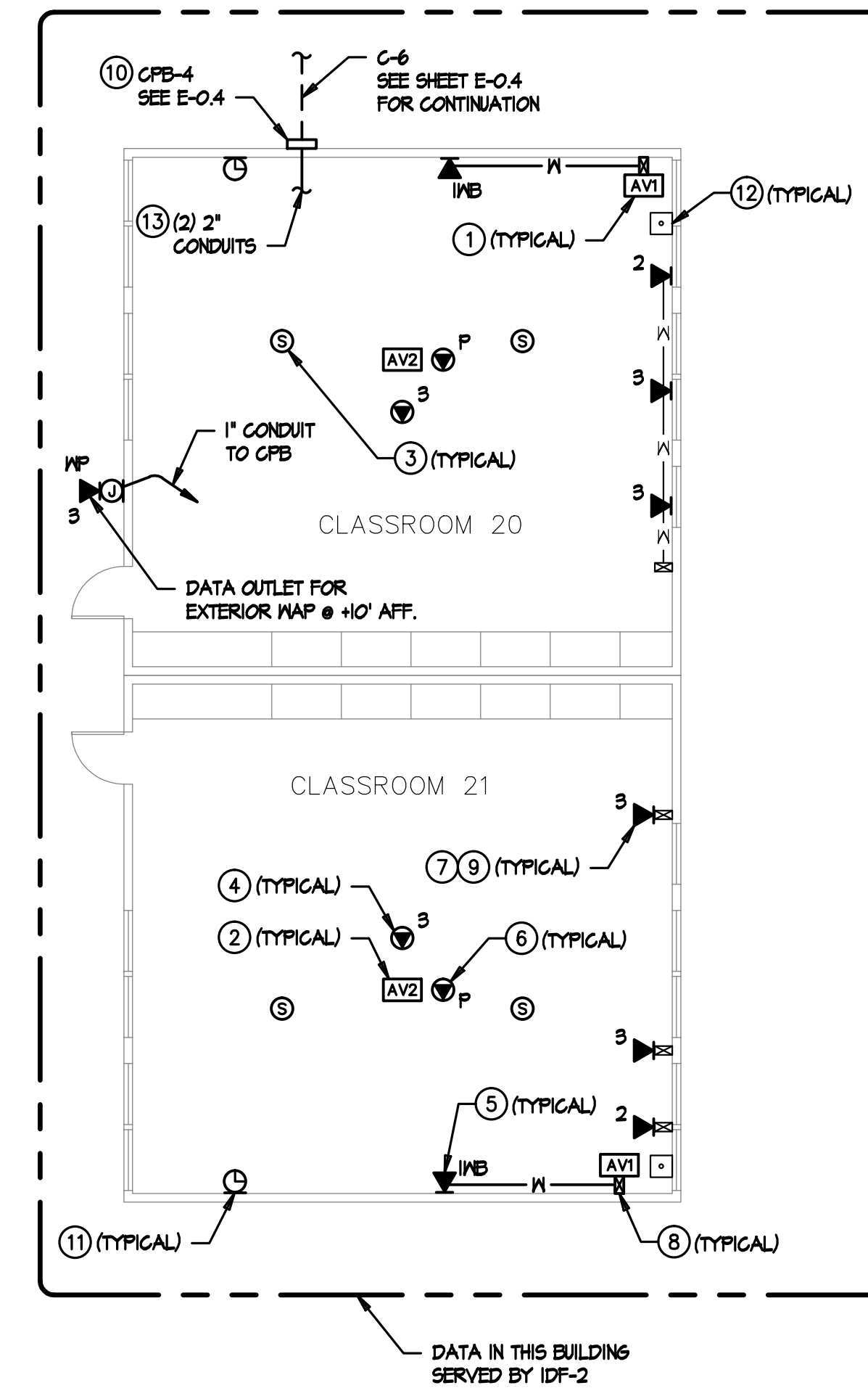
SHEET #

E-4.1



BUILDING E - SIGNAL PLAN

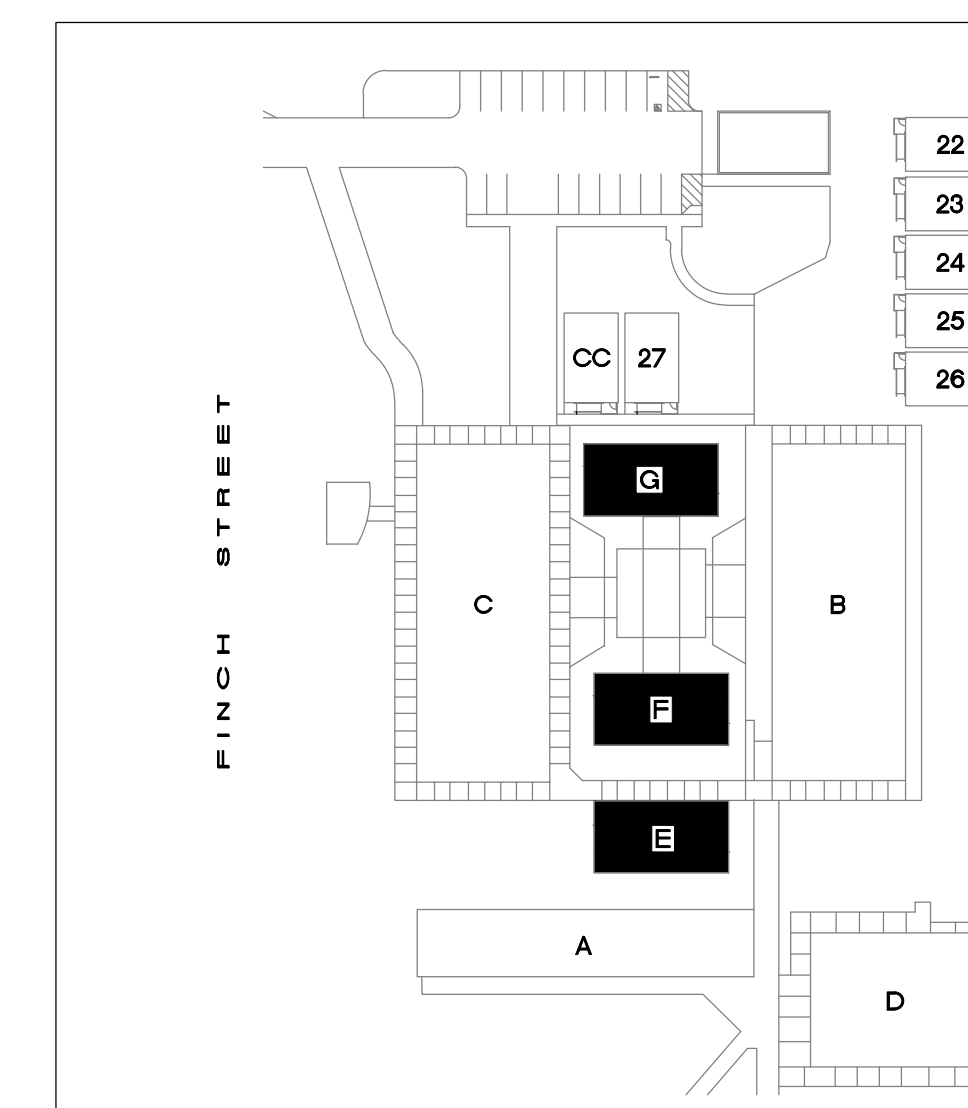
BUILDING F - SIGNAL PLAN



BUILDING G - SIGNAL PLAN

SIGNAL PLAN KEYNOTES

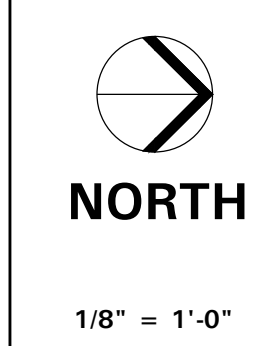
- ① AV1 OUTLET MOUNTED AT TEACHER'S STATION LOCATION AT +10' AFF. SEE ET-5.4 FOR DETAILS.
- ② AV2 OUTLET MOUNTED AT CEILING MOUNTED PROJECTOR LOCATION. SEE ET-5.4 & ET-5.5 FOR DETAILS.
- ③ AUDIOVISUAL SPEAKER FLUSH IN CEILING TILE. SEE ET-5.4 & ET-5.5 FOR DETAILS.
- ④ (B) PORT CATEGORY 6 CEILING MOUNTED DATA OUTLET FLUSH IN CEILING TILE DESIGNATED FOR WIRELESS NETWORK.
- ⑤ (I) PORT CATEGORY 6 DATA OUTLET DESIGNATED FOR FUTURE INTERACTIVE WHITEBOARD. LOCATION TO BE AT CENTER OF TEACHING WALL AT +10' AFF.
- ⑥ (I) PORT CATEGORY 6 DATA OUTLET AT PROJECTOR DESIGNATED FOR PROJECTOR MONITORING. CONTRACTOR TO COORDINATE EXACT LOCATION WITH CEILING MOUNTED PROJECTOR MOUNTING PLATE.
- ⑦ CATEGORY 6 DATA OUTLET. PROVIDE NEW CATEGORY 6 DATA JACK AND CABLE TO IDF. UTILIZE EXISTING RACEWAY FOR INSTALLATION. SEE RISER DIAGRAM A/ET-1.3 FOR DETAILS.
- ⑧ NEW MULTI-CHANNEL SURFACE RACEWAY INTO CEILING SPACE. PROVIDE EXTRON 2-6GANG EMB SERIES WALL BOX FOR AV INTERFACE. SEE DETAIL A/ET-5.5.
- ⑨ SEE A/B/ET-5.9 FOR LABELING DETAILS.
- ⑩ SEE D/ET-5.9 FOR LABELING DETAILS.
- ⑪ DISTRICT PROVIDED GPS/SATELLITE CLOCK.
- ⑫ EXISTING PHONE (BOGEN HANDSET), TO REMAIN.
- ⑬ PENETRATE WALL INTO ACCESSIBLE CEILING SPACE ABOVE CEILING GRID. SEE DETAIL D/E-7.2. CAULK PENETRATION TO MAINTAIN WALL RATINGS. SEE DETAIL D/ET-5.2 FOR TYPICAL CONNECTION TO HORIZONTAL PATHWAYS.
- ⑭ PENETRATE ROOF INTO ACCESSIBLE CEILING SPACE ABOVE CEILING. CAULK PENETRATIONS TO MAINTAIN ROOF RATINGS.
- ⑮ PENETRATE WALL INTO ACCESSIBLE CEILING SPACE ABOVE CEILING GRID. CAULK PENETRATION TO MAINTAIN WALL RATINGS. SEE DETAIL G/E-1.1.



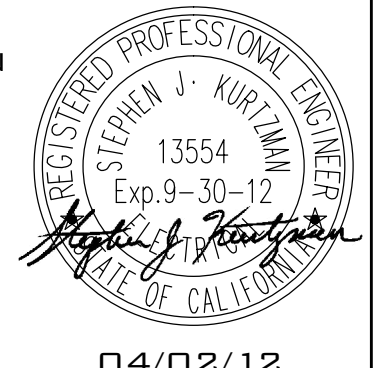
KEYPLAN



NTS



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APPROVALS

DESCRIPTION

BUILDING E, F, G
SIGNAL PLANS

DATE

04-05-2012

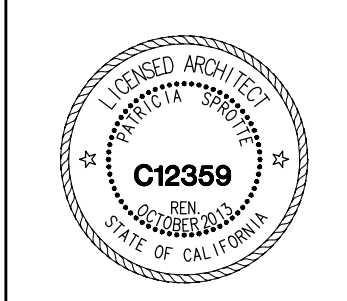
JOB #

11344

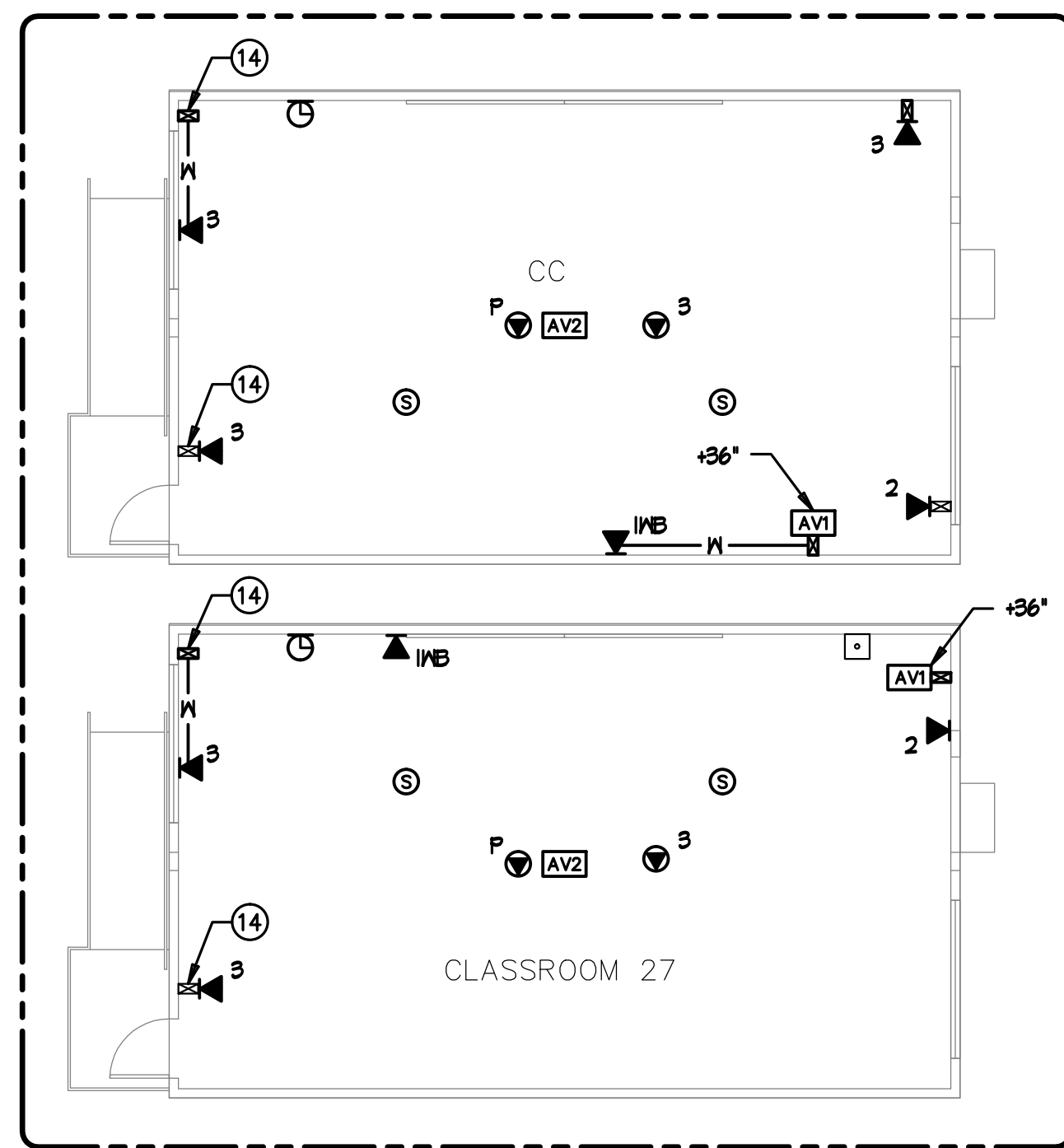
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E-52

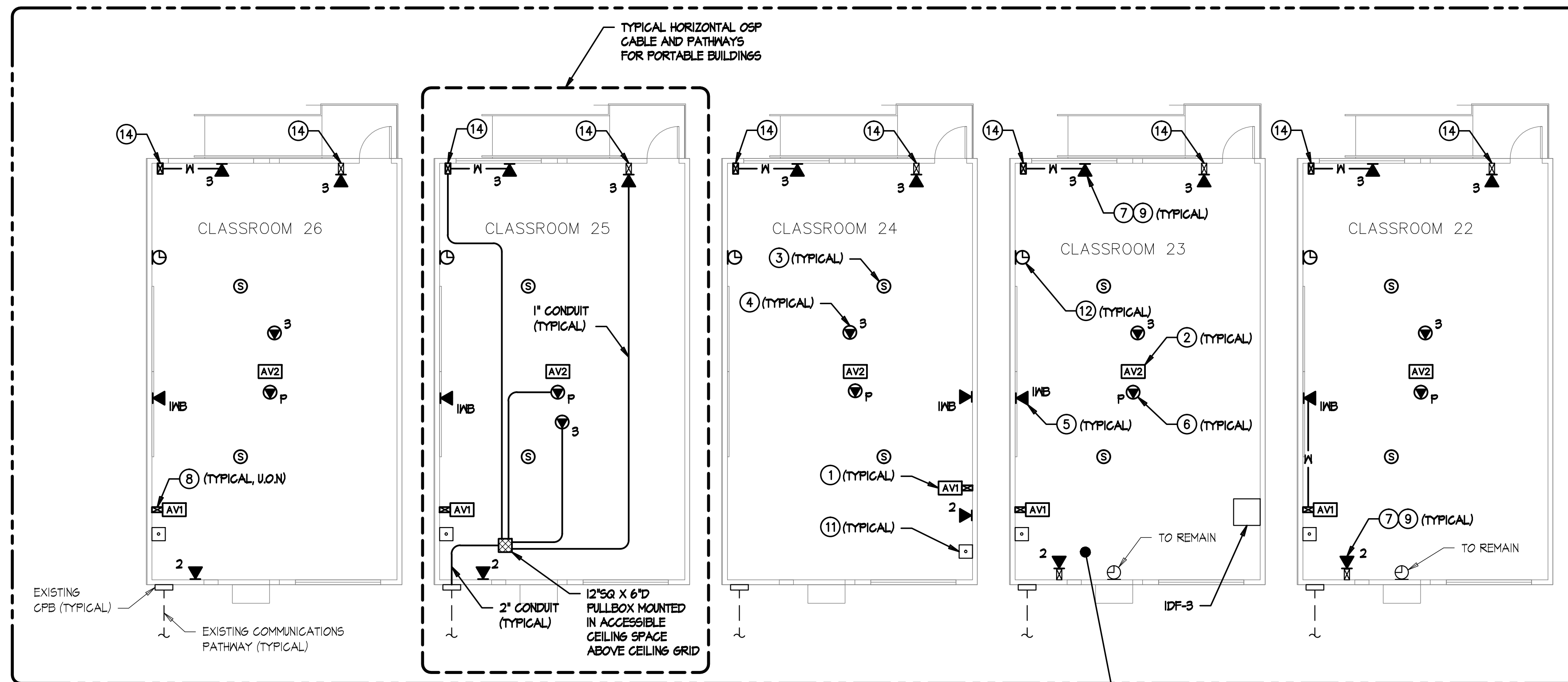
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IT UPGRADE
FLYING HILLS ELEMENTARY
CAJON VALLEY UNION SCHOOL DISTRICT
1251 FINCH STREET
EL CAJON, CA 92020



DATA IN THESE BUILDINGS SERVED BY IDF-2



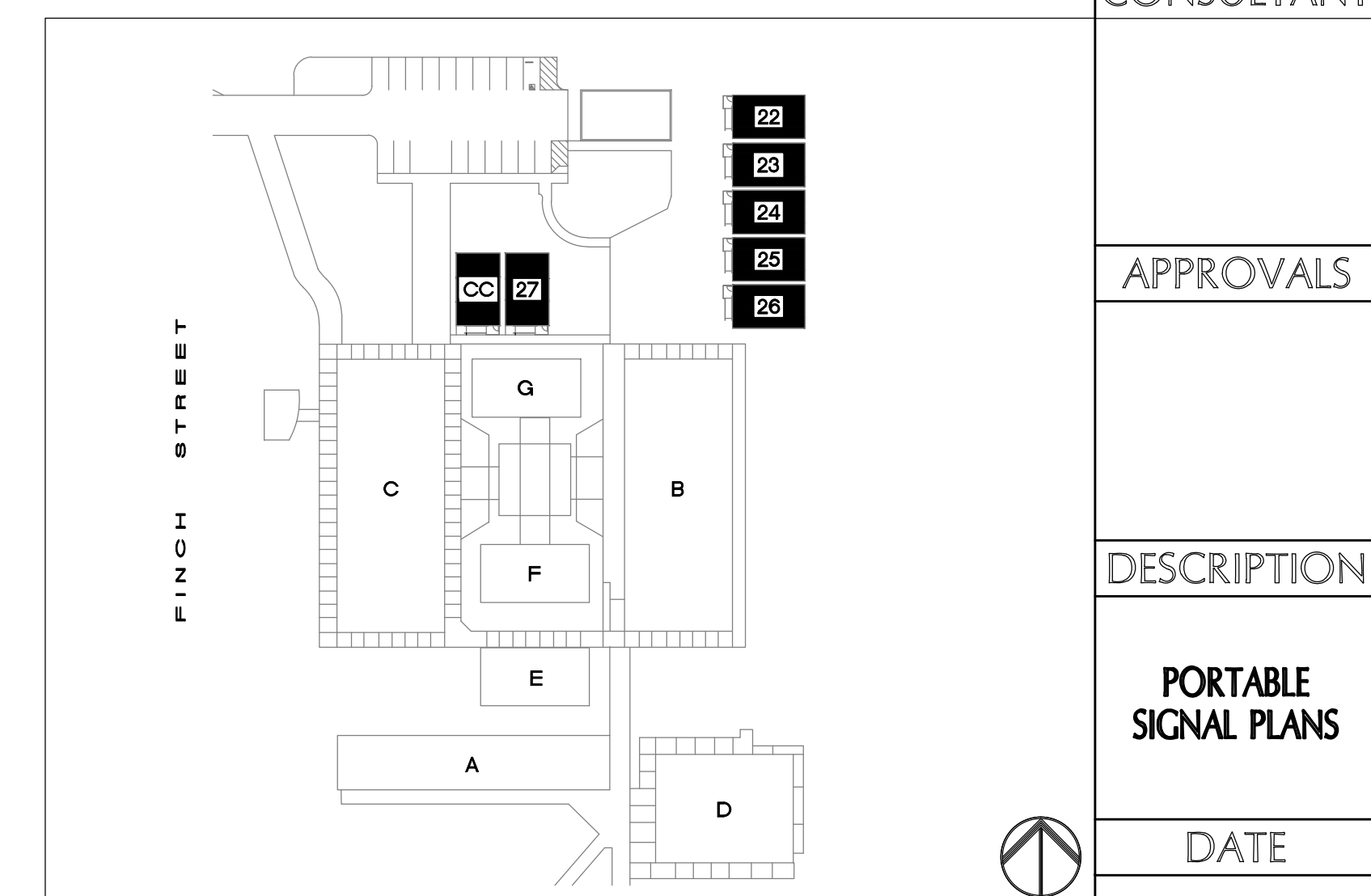
DATA IN THESE BUILDINGS SERVED BY IDF-4

NOTES
PROVIDE J-HOOK SUPPORTS ABOVE CEILING GRID FOR CABLING THIS PORTABLE ONLY.



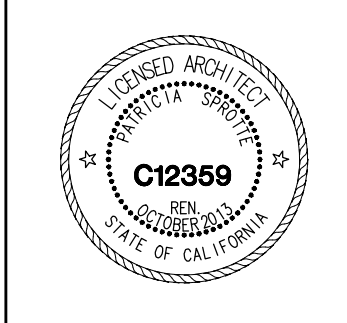
SIGNAL PLAN KEYNOTES

- ① AV1 OUTLET MOUNTED AT TEACHER'S STATION LOCATION AT +18" AFF. SEE ET-5.4 FOR DETAILS.
- ② AV2 OUTLET MOUNTED AT CEILING MOUNTED PROJECTOR LOCATION. SEE ET-5.4 & ET-5.5 FOR DETAILS.
- ③ AUDIOVISUAL SPEAKER FLUSH IN CEILING TILE. SEE ET-5.4 & ET-5.5 FOR DETAILS.
- ④ (3) PORT CATEGORY 6 CEILING MOUNTED DATA OUTLET FLUSH IN CEILING TILE DESIGNATED FOR WIRELESS NETWORK.
- ⑤ (1) PORT CATEGORY 6 DATA OUTLET DESIGNATED FOR FUTURE INTERACTIVE WHITEBOARD. LOCATION TO BE AT CENTER OF TEACHING WALL AT +18" AFF.
- ⑥ (1) PORT CATEGORY 6 DATA OUTLET AT PROJECTOR DESIGNATED FOR PROJECTOR MONITORING. CONTRACTOR TO COORDINATE EXACT LOCATION WITH CEILING MOUNTED PROJECTOR MOUNTING PLATE.
- ⑦ CATEGORY 6 DATA OUTLET. PROVIDE NEW CATEGORY 6 DATA JACK AND CABLE TO IDF. UTILIZE EXISTING RACENAY FOR INSTALLATION; PROVIDE AND UTILIZE 'J-HOOK' SUPPORTS EVERY 4' IN ACCESSIBLE CEILING SPACE TO IDF. SEE RISER DIAGRAM A/ET-1.3 FOR DETAILS.
- ⑧ NEW MULTI-CHANNEL SURFACE RACENAY INTO CEILING SPACE. PROVIDE EXTRON 2-6ANG ENB SERIES WALL BOX FOR AV INTERFACE. SEE DETAIL A/ET-5.5.
- ⑨ SEE A/B/ET-5.3 FOR LABELING DETAILS.
- ⑩ SEE D/ET-5.3 FOR LABELING DETAILS.
- ⑪ EXISTING PHONE (BOSEN HANDSET), TO REMAIN.
- ⑫ RELOCATE EXISTING CLOCK.
- ⑬ PENETRATE ROOF INTO ACCESSIBLE CEILING SPACE ABOVE CEILING GRID. SEE DETAIL D/E-1.2. CALK PENETRATION TO MAINTAIN ROOF RATINGS. SEE DETAIL A/ET-5.2 FOR TYPICAL CONNECTION TO HORIZONTAL PATHWAYS.
- ⑭ WIREMOLD 2800 TRANSITION FITTING DOWN FROM CEILING.



| | | | | |
|-----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|
| <p>NORTH</p> <p>1/8" = 1'-0"</p> | <p>TURPIN & RATTAN ENGINEERING, INC.</p> <p>CONSULTING ELECTRICAL ENGINEERS</p> <p>4719 PALM AVENUE LA MESA, CA 91941-5221 619-489-1622 FAX 619-489-16233 E-MAIL: ENGINEER@TRESO.COM</p> <p>TREI # 11344</p> <p>V.PHATHANAK 04/02/12 - 7:58PM</p> | <p>REGISTERED PROFESSIONAL ENGINEER STEPHEN J. KORTUM 13554 Exp. 9-30-12 STATE OF CALIFORNIA</p> | <p>MARK FORTIE, RCDD REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER</p> <p>EXPIRES 12/31/13 Regis. No. 081432</p> | <p>DATE</p> <p>04-05-2012</p> |
| | | | | <p>DESCRIPTION</p> <p>PORTABLE SIGNAL PLANS</p> |

PORTABLE - SIGNAL PLANS



CONSULTANT

APPROVALS

DESCRIPTION

PORTABLE SIGNAL PLANS

DATE

04-05-2012

JOB #

11344

SHEET #

E-6.2