



CONSULTANT

APPROVALS

DESCRIPTION

SIGNAL SITE PLAN

DATE

11/16/12

JOB #

12166

SHEET #

E-04

- KEYNOTES**
- SEE DETAIL C/ET-5.3 FOR CABLE DISTRIBUTION.
 - SEE DETAIL F/ET-5.3 FOR LABELING REQUIREMENTS.
 - SEE DETAIL D/ET-5.3 FOR LABELING REQUIREMENTS.
 - SEE DETAIL E/ET-5.3 FOR LABELING REQUIREMENTS.
 - SEE BUILDING SIGNAL SHEET FOR ADDITIONAL DETAIL.
 - SEE DETAIL BE-11.3.
 - SEE DETAIL E/E-11.1 FOR CONDUIT SUPPORT.
 - SEE DETAIL E/E-11.3 FOR ROOF PENETRATION.
 - SEE DETAIL A/E-11.3 AND C/E-11.3.
 - USE EXISTING DUCTBANK FROM CPB TO IDF FOR FIBER/GROUND CABLING.
 - USE EXISTING DUCTBANK FROM CPB TO IDF FOR OSP COPPER CABLE DISTRIBUTION.

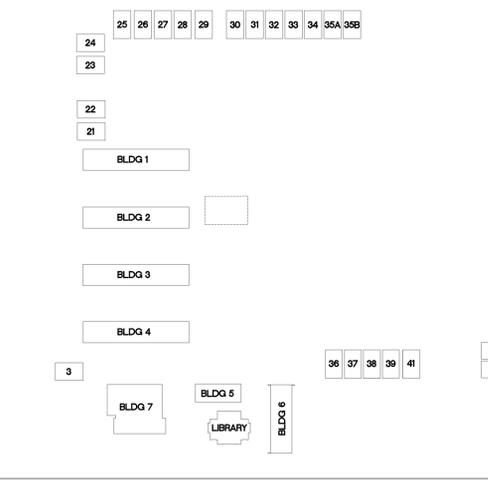
TRENCHING NOTE

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.

SPECIAL NOTE

IT IS THE INTENT OF THIS CONTRACT TO LOCATE ALL DATA OUTLETS IN EACH BUILDING AND REPLACE THE DATA OUTLETS AND CABLING WITH CATEGORY 6 JACKS AND CABLE. ALL EXISTING VOICE OUTLETS ARE TO REMAIN IN SERVICE.

- GENERAL NOTES**
- ALL EXISTING SYSTEMS NOT UPGRADED UNDER THIS CONTRACT TO REMAIN OPERATIONAL DURING CONSTRUCTION.
 - REMOVE ALL DISCONNECTED CABLING BACK TO SOURCE. NO CABLES ARE TO BE ABANDONED IN PLACE.
 - SEE DEMOLITION RISER SHEETS ET-1.0 & ET-1.1
 - EXISTING CONDUITS NOT VERIFIED TO HAVE INNER DUCTS.



KEYPLAN

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TREI # 12166
 V.PHATHANAK 11/16/12 - B:26AM

REGISTERED PROFESSIONAL ENGINEER
 DATE: M. FRANCHINI
 No. 11533
 exp. 6/30/2014
 ELECTRICAL
 STATE OF CALIFORNIA

REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
 BICSI
 EXPIRES 12/31/13
 Regis. No. 081432

MARK FORTIE, RCDD

CONDUIT BREAKDOWN

CONDUIT SEGMENT NAME	FIBER CONDUITS #/3 1/4" INNERDUCTS EA. *			COPPER				FIRE ALARM / GROUND			SPARE
	F1	F2	F3	C1	C2	C3	C4	FA	6	SP	
C-1	3"	-	-	3"	3"	3"	-	-	-	2"	-
C-2	2"	2"	2"	-	-	-	-	-	-	2"	-
C-3	1"	2"	2"	-	-	-	-	-	-	2"	-
C-4	2"	2"	-	-	-	-	-	-	-	2"	-
C-5	2"	2"	-	-	-	-	-	-	-	2"	-
C-6	2"	-	-	2"	-	-	-	-	-	2"	-
C-7	2"	-	-	-	-	-	-	-	-	2"	-
C-8	2"	-	-	2"	2"	2"	-	-	-	2"	-
C-9	2"	-	-	2"	2"	2"	-	-	-	2"	-
C-10	2"	-	-	2"	2"	2"	-	-	-	2"	-
C-11	2"	-	-	-	-	-	-	-	-	2"	-
C-12	2"	-	-	-	-	-	-	-	-	2"	-
C-13	2"	-	-	-	-	-	-	-	-	2"	-
C-14	-	-	-	2"	2"	-	-	-	-	-	-
C-15	-	-	-	2"	-	-	-	-	-	-	-
C-16	3"	-	-	-	-	-	-	-	-	2"	-
C-17	2"	-	-	3"	3"	3"	3"	-	-	2"	-
C-18	2"	-	-	3"	3"	3"	3"	-	-	2"	-
C-19	2"	-	-	-	-	-	-	-	-	-	-
C-20	2"	-	-	-	-	-	-	-	-	-	-
C-21	-	-	-	3"	3"	3"	3"	-	-	-	-
C-22	-	-	-	2"	2"	2"	-	-	-	-	-

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

COMMUNICATIONS DUCT BANK SCHEDULE

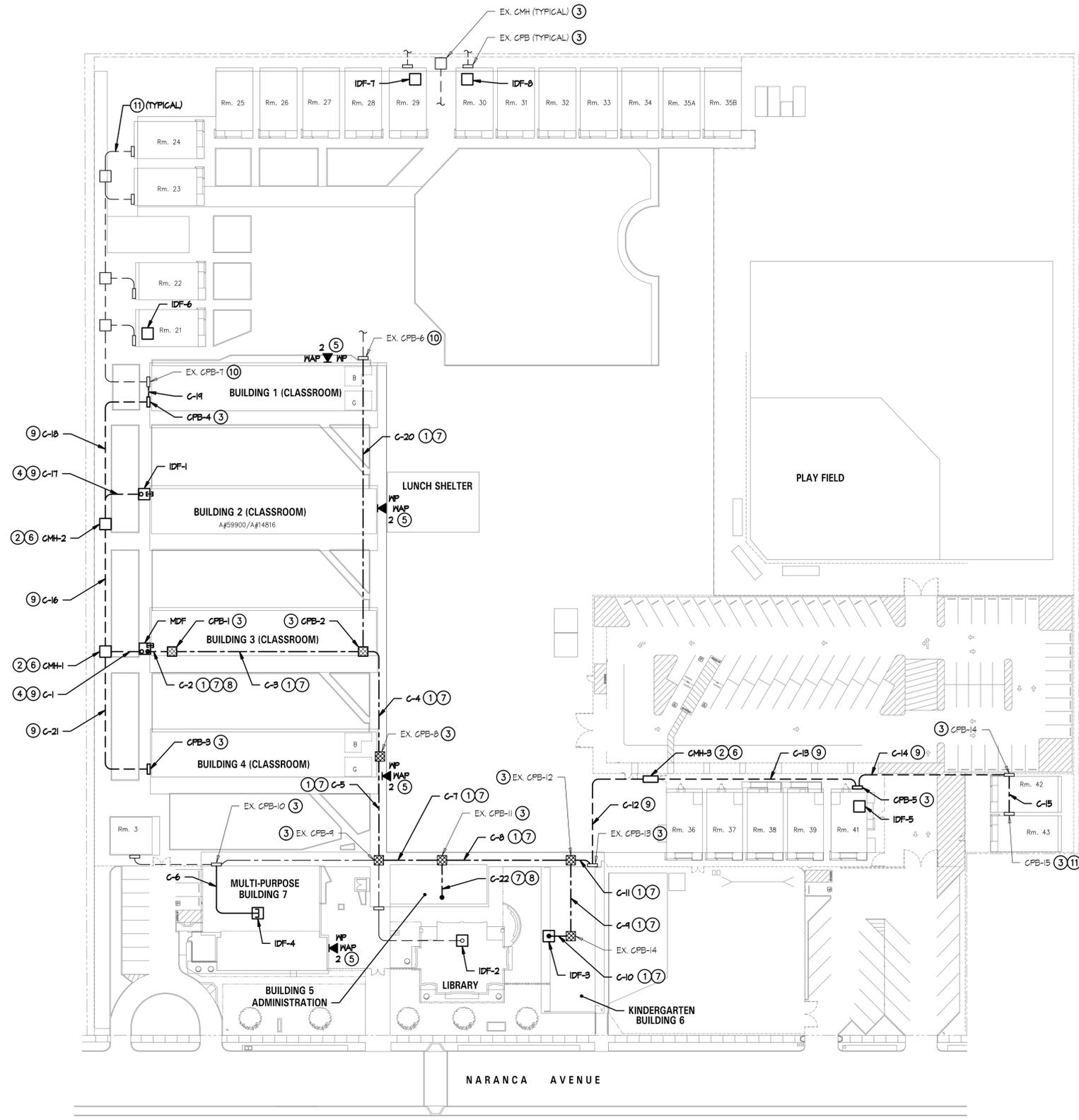
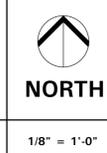
CONDUIT SEGMENT NAME	FROM	TO	TOTAL NUMBER OF CONDUITS	
			2"	3"
C-1	MDF	CMH-1	1	5
C-2	MDF	CPB-1	4	-
C-3	CPB-1	CPB-2	4	-
C-4	CPB-2	CPB-3	3	-
C-5	CPB-3	CPB-4	3	-
C-6	CPB-10	IDF-4	3	-
C-7	CPB-9	CPB-11	2	-
C-8	CPB-11	CPB-12	5	-
C-9	CPB-12	CPB-14	5	-
C-10	CPB-14	IDF-3	5	-
C-11	CPB-12	CPB-13	2	-
C-12	CPB-13	CMH-3	2	-
C-13	CMH-3	CPB-5	2	-
C-14	CPB-5	CPB-14	-	2
C-15	CPB-14	CPB-15	-	1
C-16	CMH-1	CMH-2	1	1
C-17	CMH-2	IDF-1	4	2
C-18	CMH-2	CPB-4	4	2
C-19	CPB-4	CPB-7	-	2
C-20	CPB-2	CPB-6	-	2
C-21	CMH-1	CPB-3	4	-
C-22	CPB-11	BLDG, 5	-	3

COMMUNICATION PULLBOX SCHEDULE

NAME	NAME	TYPE	DETAIL REFERENCE
CPB-1	18"SQ. X 12"D	NEMA_3R	D/E-11.3
CPB-2	18"SQ. X 12"D	NEMA_3R	D/E-11.3
CPB-3	18"SQ. X 12"D	NEMA_3R	B/E-11.1
CPB-4	18"SQ. X 12"D	NEMA_3R	B/E-11.1
CPB-5	18"SQ. X 12"D	NEMA_3R	B/E-11.1
CPB-6		EXISTING	
CPB-7		EXISTING	
CPB-8		EXISTING	
CPB-9		EXISTING	
CPB-10		EXISTING	
CPB-11		EXISTING	
CPB-12		EXISTING	
CPB-13		EXISTING	
CPB-14		EXISTING	
CPB-15		EXISTING	

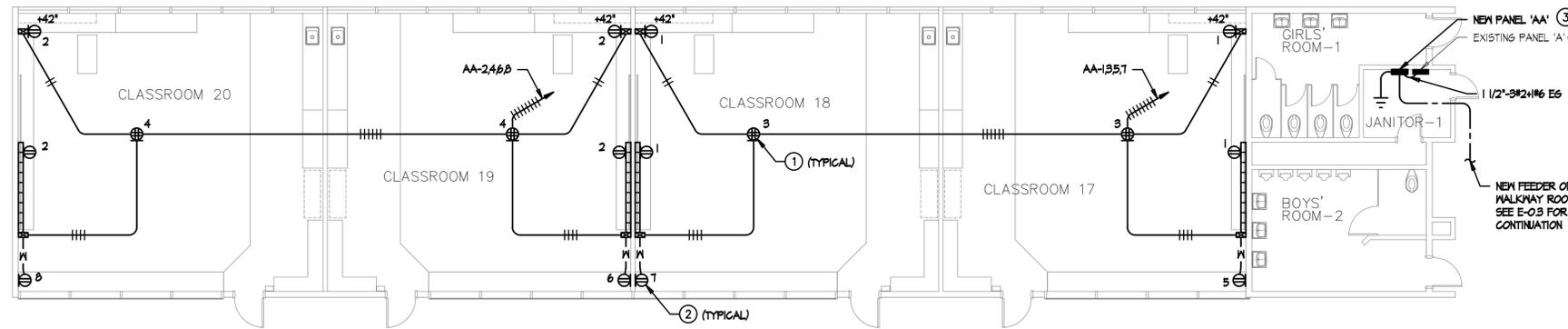
COMMUNICATION VAULT SCHEDULE

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

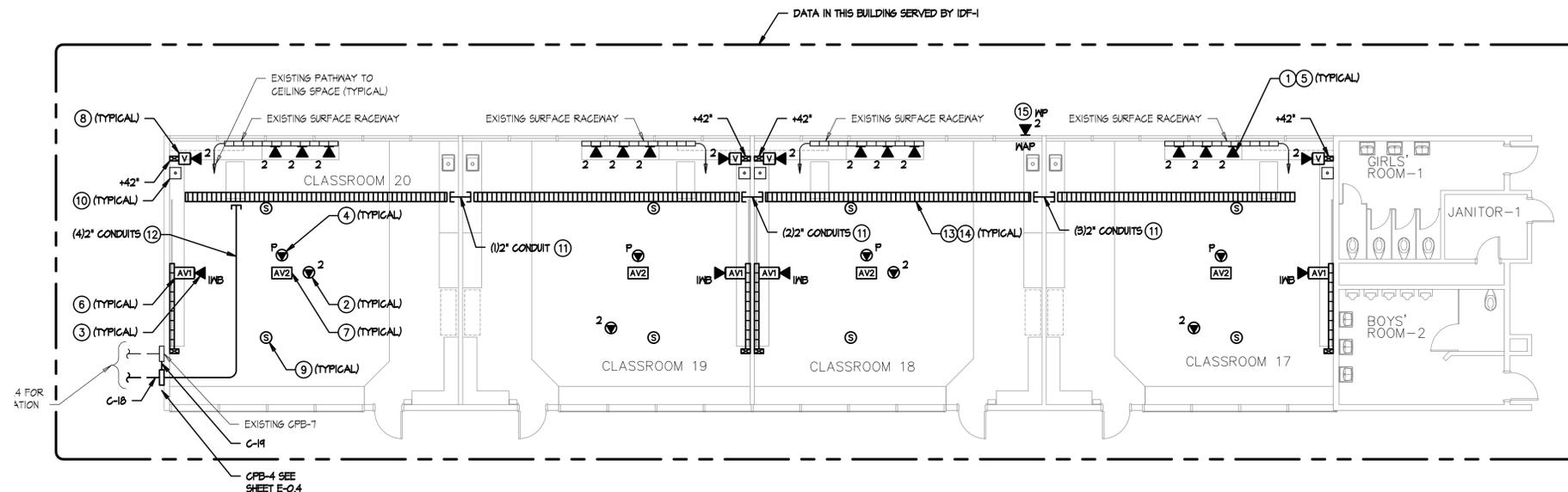


SIGNAL SITE PLAN

1/8" = 1'-0"



BUILDING 1 - POWER PLAN

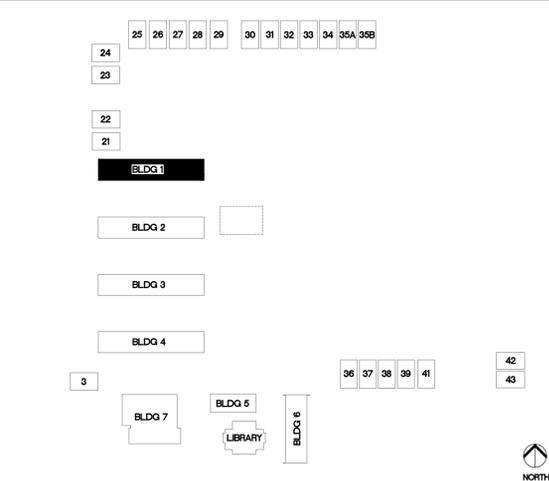


BUILDING 1 - SIGNAL PLAN

- POWER PLAN KEYNOTES**
- 1 MOUNT DOUBLE DUPLEX RECEPTACLE IN CEILING TILE FOR CEILING MOUNTED PROJECTOR AND AV POWER SUPPLY.
 - 2 PROVIDE RECEPTACLE MOUNTED AT +18\" AFF FOR LAPTOP CART. PROVIDE DEDICATED BRANCH CIRCUIT. USE WIREMOLD 2300 WITH ASSOCIATED CONDUIT TRANSITION FITTINGS. PROVIDE FURRING AS REQUIRED.
 - 3 SEE RESPECTIVE PANEL SCHEDULE FOR ADDITIONAL WORK AT EXISTING PANEL.

- SIGNAL PLAN KEYNOTES**
- 1 CATEGORY 6 DATA OUTLET. PROVIDE NEW CATEGORY 6 JACKS AND CABLES TO IDF. UTILIZE EXISTING PATHWAYS U.O.N. FOR INSTALLATION IN WALLS.
 - 2 CATEGORY 6 DATA OUTLET MOUNTED ABOVE LAY-IN CEILING DESIGNATED FOR WIRELESS NETWORK. PROVIDE NEW CATEGORY 6 JACKS AND CABLES TO IDF. SEE DETAIL F/ET-5.2.
 - 3 (1) PORT CATEGORY 6 DATA OUTLET DESIGNATED FOR FUTURE INTERACTIVE WHITEBOARD. PROVIDE NEW CATEGORY 6 JACK AND CABLE TO IDF. LOCATION TO BE AT CENTER OF TEACHING WALL AT +18\" AFF. SEE DETAIL A/ET-5.5.
 - 4 (1) PORT CATEGORY 6 DATA OUTLET AT CEILING MOUNTED PROJECTOR DESIGNATED FOR PROJECTOR MONITORING. PROVIDE NEW CATEGORY 6 JACK AND CABLE TO IDF. CONTRACTOR TO COORDINATE EXACT LOCATION WITH CEILING MOUNTED PROJECTOR MOUNTING PLATE. SEE B/ET-5.5.
 - 5 PROVIDE NEW FACEPLATES, DEVICE BRACKETS (SURFACE RACEWAY) AND OR DEVICE BOXES. SEE DETAIL A/B/ET-5.3 FOR FACEPLATE & LABELING REQUIREMENTS.
 - 6 AVI INTERFACE MOUNTED AT CENTER OF TEACHING WALL AT +18\" AFF. PROVIDE EXTRON 2-6ANG EMB SERIES WALL BOX FOR AVI INTERFACE. SEE ET-5.4 & A/ET-5.5 FOR DETAILS.
 - 7 AUDIO/VISUAL FLYING LEADS AT CEILING MOUNTED PROJECTOR LOCATION. SEE ET-5.4 & B/ET-5.5 FOR DETAILS.
 - 8 AUDIO VOLUME CONTROL. OUTLET MOUNTED AT TEACHER'S STATION LOCATION AT +18\" AFF. SEE ET-5.4 & A/ET-5.5 FOR DETAILS.
 - 9 AUDIO/VISUAL SPEAKER FLUSH IN CEILING TILE. SEE ET-5.4 FOR DETAILS.
 - 10 EXISTING PHONE (BOSEN HANDSET), TO REMAIN.
 - 11 SEE DETAIL C/E-II
 - 12 SEE DETAIL F/E-II
 - 13 12\" WIDE X 4\" D BASKET TYPE CABLE TRAY MOUNTED ABOVE CEILING GRID. SEE DETAIL A/ET-5.2 FOR INSTALLATION.
 - 14 PROVIDE CONTINUOUS #6 GROUND FOR ENTIRE LENGTH OF CABLE TRAY SYSTEM. BOND EVERY SECTION AND EVERY CONDUIT. BOND TO T&B IN IDF ROOM.
 - 15 DATA OUTLET WITHIN WEATHER PROOF ENCLOSURE FOR EXTERIOR WIRELESS ACCESS POINT. COORDINATE MOUNTING HEIGHT/LOCATION WITH WIRELESS ACCESS POINT INSTALLER. PROVIDE 1\" CONDUIT TO CABLE TRAY.

- GENERAL NOTES**
1. SEE DATA RISER DIAGRAM ON ET-1.3 FOR CABLING DETAILS.
 2. SUPPORT CATEGORY 6 & AUDIO/VISUAL CABLING WITH 'J-HOOK' SUPPORTS EVERY 4\" WHERE CABLES ARE NOT SUPPORTED, ROUTED THROUGH CONDUIT OR CABLE TRAY. MAINTAIN 12\" CLEARANCE FROM ELECTRICAL & LIGHTING. SEE DETAIL D/ET-5.2.



KEYPLAN NTS

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CONSULTANT

APPROVALS

DESCRIPTION

**BUILDING 1
POWER AND
SIGNAL PLANS**

DATE

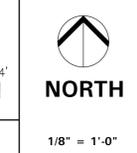
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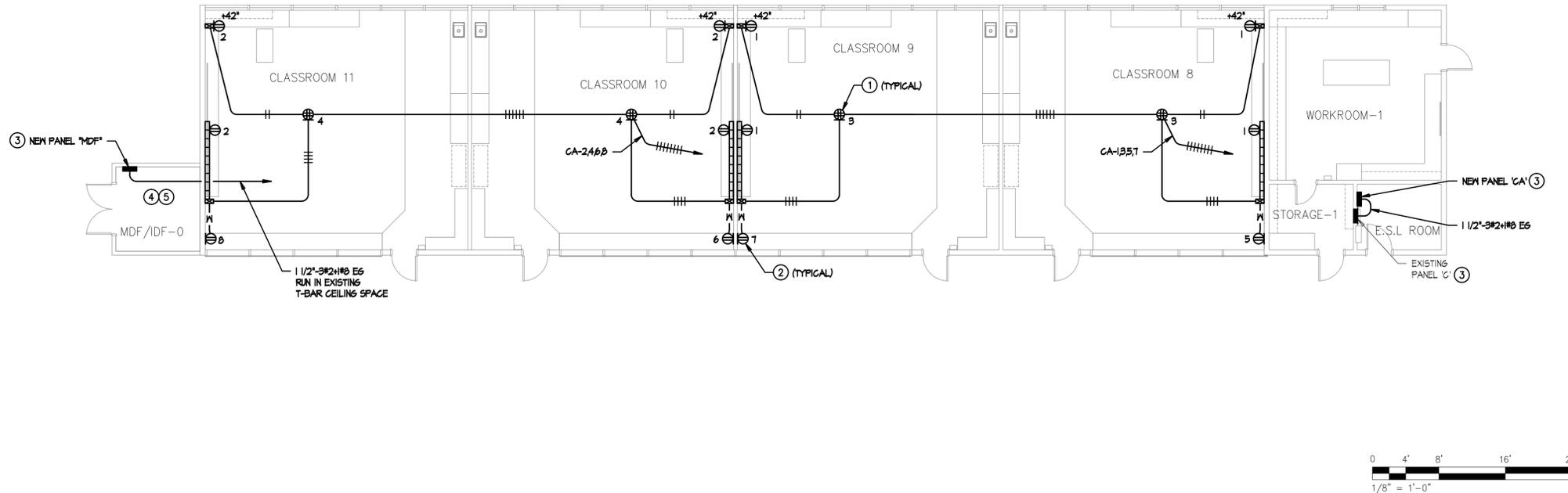
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SHEET #

E-11



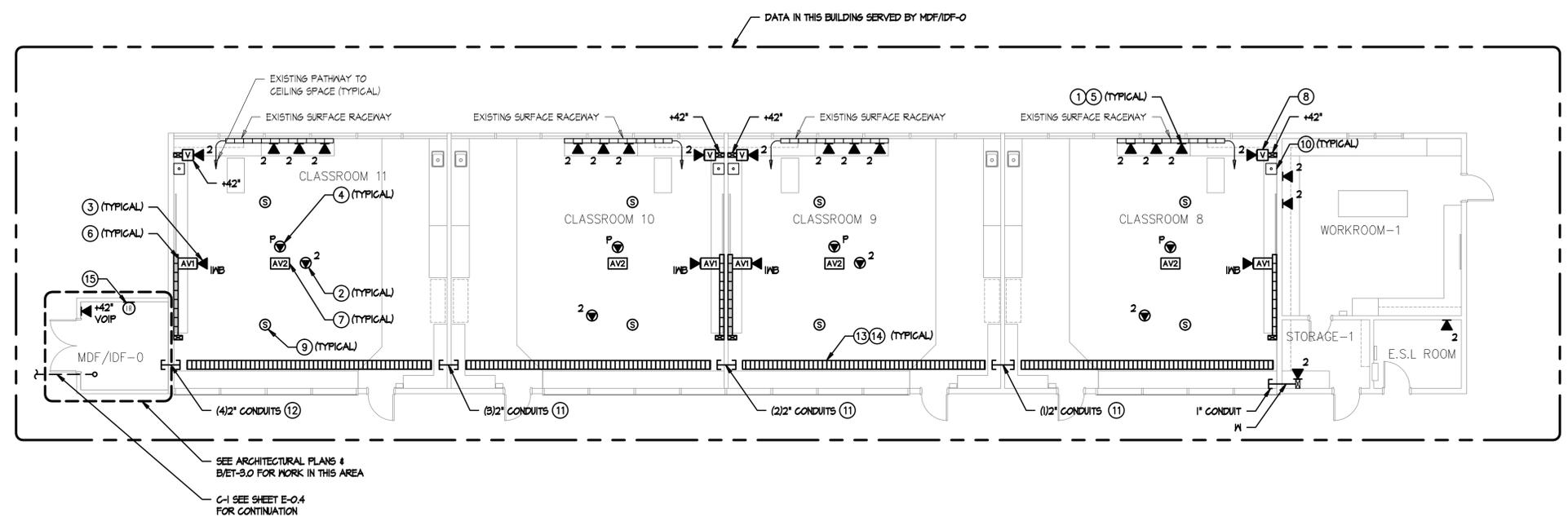
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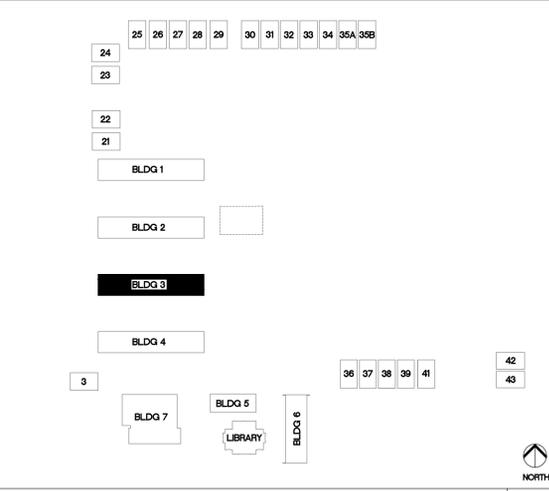
BUILDING 3 - POWER PLAN

- ### POWER PLAN KEYNOTES
- MOUNT DOUBLE DUPLEX RECEPTACLE IN CEILING TILE FOR CEILING MOUNTED PROJECTOR AND AV POWER SUPPLY
 - PROVIDE RECEPTACLE MOUNTED AT +18" AFF FOR LAPTOP CART. PROVIDE DEDICATED BRANCH CIRCUIT. USE WIREMOLD 2300 WITH ASSOCIATED CONDUIT TRANSITION FITTINGS. PROVIDE FURRING AS REQUIRED.
 - SEE RESPECTIVE PANEL SCHEDULE FOR ADDITIONAL WORK AT EXISTING PANEL.
 - PROVIDE POWER OUTLETS FOR MDF. SEE E-10.2 FOR POWER AND LIGHTING WORK IN THIS AREA.
 - PROVIDE FIRE ALARM DEVICES FOR IDF ROOM. SEE EF-10.1 FOR FIRE ALARM WORK IN THIS AREA.
- ### SIGNAL PLAN KEYNOTES
- CATEGORY 6 DATA OUTLET. PROVIDE NEW CATEGORY 6 JACKS AND CABLES TO IDF. UTILIZE EXISTING PATHWAYS U.O.N. FOR INSTALLATION IN WALLS.
 - CATEGORY 6 DATA OUTLET MOUNTED ABOVE LAY-IN CEILING DESIGNATED FOR WIRELESS NETWORK. PROVIDE NEW CATEGORY 6 JACKS AND CABLES TO IDF. SEE DETAIL F/ET-5.2.
 - (1) PORT CATEGORY 6 DATA OUTLET DESIGNATED FOR FUTURE INTERACTIVE WHITEBOARD. PROVIDE NEW CATEGORY 6 JACK AND CABLE TO IDF. LOCATION TO BE AT CENTER OF TEACHING WALL AT +18" AFF. SEE DETAIL A/ET-5.5.
 - (1) PORT CATEGORY 6 DATA OUTLET AT CEILING MOUNTED PROJECTOR DESIGNATED FOR PROJECTOR MONITORING. PROVIDE NEW CATEGORY 6 JACK AND CABLE TO IDF. CONTRACTOR TO COORDINATE EXACT LOCATION WITH CEILING MOUNTED PROJECTOR MOUNTING PLATE. SEE E/ET-5.5.
 - PROVIDE NEW FACEPLATES, DEVICE BRACKETS (SURFACE RACEWAY) AND OR DEVICE BOXES. SEE DETAIL A/B/ET-5.3 FOR FACEPLATE & LABELING REQUIREMENTS.
 - AVI INTERFACE MOUNTED AT CENTER OF TEACHING WALL AT +18" AFF. PROVIDE EXTRON 2-6ANS EMB SERIES WALL BOX FOR AVI INTERFACE. SEE ET-5.4 & A/ET-5.5 FOR DETAILS.
 - AUDIO/VISUAL FLYING LEADS AT CEILING MOUNTED PROJECTOR LOCATION. SEE ET-5.4 & B/ET-5.5 FOR DETAILS.
 - AUDIO VOLUME CONTROL OUTLET MOUNTED AT TEACHER'S STATION LOCATION AT +18" AFF. SEE ET-5.4 & A/ET-5.5 FOR DETAILS.
 - AUDIO/VISUAL SPEAKER FLUSH IN CEILING TILE. SEE ET-5.4 FOR DETAILS.
 - EXISTING PHONE (BOSEN HANDSET), TO REMAIN.
 - SEE DETAIL C/E-11.1
 - SEE DETAIL F/E-11.1
 - 12" WIDE X 4"D BASKET TYPE CABLE TRAY MOUNTED ABOVE CEILING GRID. SEE DETAIL A/ET-5.2 FOR INSTALLATION.
 - PROVIDE CONTINUOUS #6 GROUND FOR ENTIRE LENGTH OF CABLE TRAY SYSTEM. BOND EVERY SECTION AND EVERY CONDUIT. BOND TO T6B IN IDF ROOM.
 - CONNECT NEW IR INTRUSION DEVICE TO EXPANSION MODULE AT TERMINAL BLOCK LOCATION IN BUILDING. SEE RISER DIAGRAM ON ET-1.6.

- ### GENERAL NOTES
- SEE DATA RISER DIAGRAM ON ET-1.3 FOR CABLING DETAILS.
 - SUPPORT CATEGORY 6 & AUDIO/VISUAL CABLING WITH 'J-HOOK' SUPPORTS EVERY 4' WHERE CABLES ARE NOT SUPPORTED, ROUTED THROUGH CONDUIT OR CABLE TRAY. MAINTAIN 12" CLEARANCE FROM ELECTRICAL & LIGHTING. SEE DETAIL D/ET-5.2.



BUILDING 3 - SIGNAL PLAN



KEYPLAN

NTS

11/16/12

JOB # 12166

SHEET # E-3.1

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CAJON VALLEY UNION SCHOOL DISTRICT
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EL CAJON, CA 92021

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STATE OF CALIFORNIA

CONSULTANT

APPROVALS

DESCRIPTION

BUILDING 3 POWER AND SIGNAL PLANS

DATE

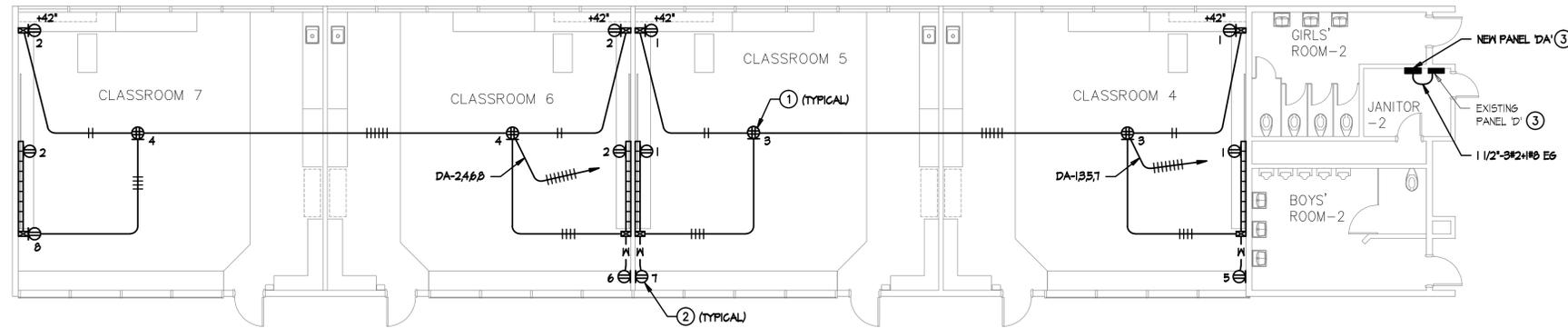
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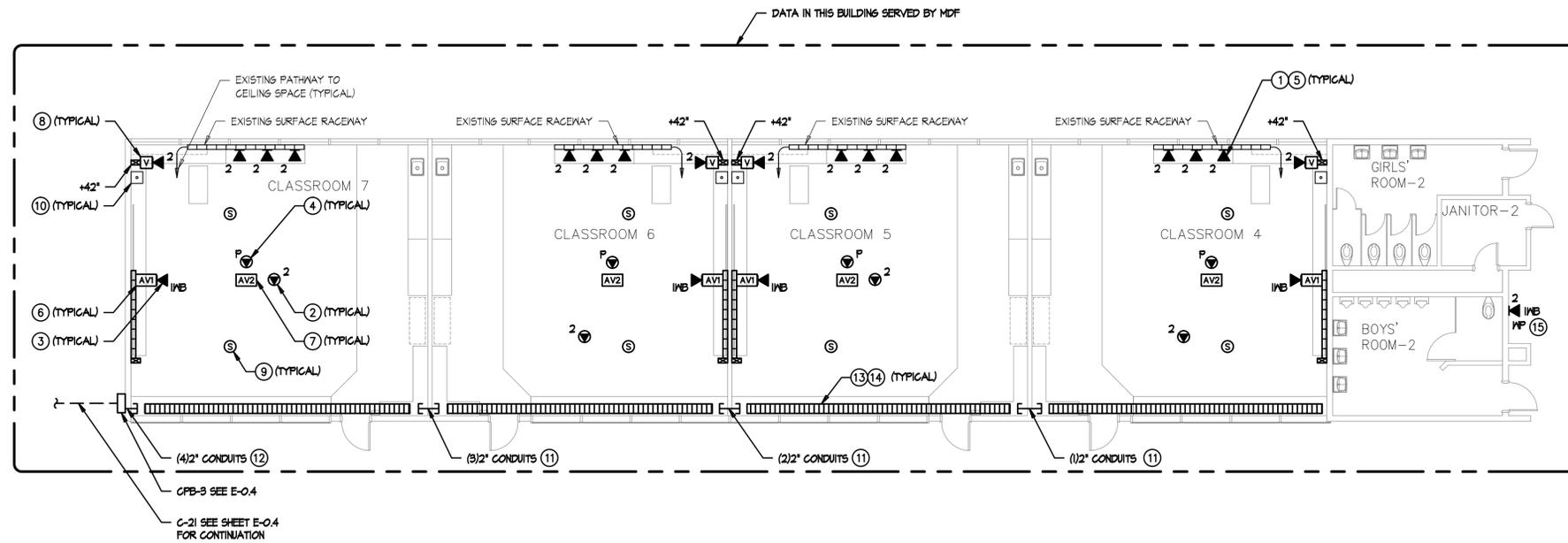
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SHEET #

E-3.1



BUILDING 4 - POWER PLAN



BUILDING 4 - SIGNAL PLAN

POWER PLAN KEYNOTES

- ① MOUNT DOUBLE DUPLEX RECEPTACLE IN CEILING TILE FOR CEILING MOUNTED PROJECTOR AND AV POWER SUPPLY
- ② PROVIDE RECEPTACLE MOUNTED AT +18" AFF FOR LAPTOP CART. PROVIDE DEDICATED BRANCH CIRCUIT. USE WIREMOLD 2300 WITH ASSOCIATED CONDUIT TRANSITION FITTINGS. PROVIDE FURRING AS REQUIRED.
- ③ SEE RESPECTIVE PANEL SCHEDULE FOR ADDITIONAL WORK AT EXISTING PANEL.

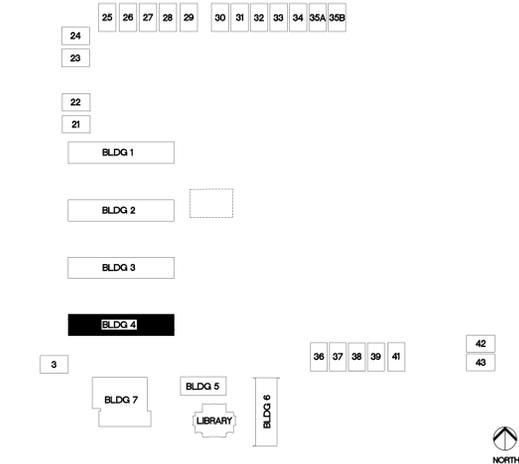
SIGNAL PLAN KEYNOTES

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- ② CATEGORY 6 DATA OUTLET MOUNTED ABOVE LAY-IN CEILING DESIGNATED FOR WIRELESS NETWORK. PROVIDE NEW CATEGORY 6 JACKS AND CABLES TO IDF. SEE DETAIL F/ET-5.2.
- ③ (1) PORT CATEGORY 6 DATA OUTLET DESIGNATED FOR FUTURE INTERACTIVE WHITEBOARD. PROVIDE NEW CATEGORY 6 JACK AND CABLE TO IDF. LOCATION TO BE AT CENTER OF TEACHING WALL AT +18" AFF. SEE DETAIL A/ET-5.5.
- ④ (1) PORT CATEGORY 6 DATA OUTLET AT CEILING MOUNTED PROJECTOR DESIGNATED FOR PROJECTOR MONITORING. PROVIDE NEW CATEGORY 6 JACK AND CABLE TO IDF. CONTRACTOR TO COORDINATE EXACT LOCATION WITH CEILING MOUNTED PROJECTOR MOUNTING PLATE. SEE B/ET-5.5.
- ⑤ PROVIDE NEW FACEPLATES, DEVICE BRACKETS (SURFACE RACEWAY) AND OR DEVICE BOXES. SEE DETAIL A/B/ET-5.3 FOR FACEPLATE & LABELING REQUIREMENTS.
- ⑥ AVI INTERFACE MOUNTED AT CENTER OF TEACHING WALL AT +18" AFF. PROVIDE EXTRON 2-GANG EMB SERIES WALL BOX FOR AVI INTERFACE. SEE ET-5.4 & A/ET-5.5 FOR DETAILS.
- ⑦ AUDIO/VISUAL FLYING LEADS AT CEILING MOUNTED PROJECTOR LOCATION. SEE ET-5.4 & B/ET-5.5 FOR DETAILS.
- ⑧ AUDIO VOLUME CONTROL OUTLET MOUNTED AT TEACHER'S STATION LOCATION AT +18" AFF. SEE ET-5.4 & A/ET-5.5 FOR DETAILS.
- ⑨ AUDIO/VISUAL SPEAKER FLUSH IN CEILING TILE. SEE ET-5.4 FOR DETAILS.
- ⑩ EXISTING PHONE (BOSEN HANDSET), TO REMAIN.
- ⑪ SEE DETAIL G/E-111
- ⑫ SEE DETAIL F/E-111
- ⑬ 12" WIDE X 4"D BASKET TYPE CABLE TRAY MOUNTED ABOVE CEILING GRID. SEE DETAIL A/ET-5.2 FOR INSTALLATION.
- ⑭ PROVIDE CONTINUOUS #6 GROUND FOR ENTIRE LENGTH OF CABLE TRAY SYSTEM. BOND EVERY SECTION AND EVERY CONDUIT. BOND TO T&B IN IDF ROOM.
- ⑮ DATA OUTLET WITHIN WEATHER PROOF ENCLOSURE FOR EXTERIOR WIRELESS ACCESS POINT. COORDINATE MOUNTING HEIGHT/LOCATION WITH WIRELESS ACCESS POINT INSTALLER. PROVIDE 1" CONDUIT TO CABLE TRAY.

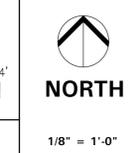
GENERAL NOTES

1. SEE DATA RISER DIAGRAM ON ET-1.3 FOR CABLING DETAILS.
2. SUPPORT CATEGORY 6 & AUDIO/VISUAL CABLING WITH 'J-HOOK' SUPPORTS EVERY 4' WHERE CABLES ARE NOT SUPPORTED, ROUTED THROUGH CONDUIT OR CABLE TRAY. MAINTAIN 12" CLEARANCE FROM ELECTRICAL & LIGHTING. SEE DETAIL D/ET-5.2.

DATA IN THIS BUILDING SERVED BY MDF



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NARANCA ELEMENTARY SCHOOL
CAJON VALLEY UNION SCHOOL DISTRICT
1030 NARANCA AVENUE
EL CAJON, CA 92021

CONSULTANT

APPROVALS

DESCRIPTION

**BUILDING 4
POWER AND
SIGNAL PLANS**

DATE

11/16/12

JOB #

12166

SHEET #

E-4.1



CONSULTANT

APPROVALS

DESCRIPTION

BUILDING 5, 6, AND LIBRARY SIGNAL PLANS

DATE

11/16/12

JOB #

12166

SHEET #

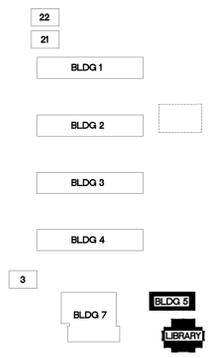
E-5.2

SIGNAL PLAN KEYNOTES

- ① CATEGORY 6 DATA OUTLET. PROVIDE NEW CATEGORY 6 JACKS AND CABLES TO IDF. UTILIZE EXISTING PATHWAYS U.O.N. FOR INSTALLATION IN WALLS.
- ② CATEGORY 6 DATA OUTLET MOUNTED ABOVE LAY-IN CEILING DESIGNATED FOR WIRELESS NETWORK. PROVIDE NEW CATEGORY 6 JACKS AND CABLES TO IDF. SEE DETAIL F/ET-5.2.
- ③ (1) PORT CATEGORY 6 DATA OUTLET DESIGNATED FOR FUTURE INTERACTIVE WHITEBOARD. PROVIDE NEW CATEGORY 6 JACK AND CABLE TO IDF. LOCATION TO BE AT CENTER OF TEACHING MALL AT +18" AFF. SEE DETAIL A/ET-5.5.
- ④ (1) PORT CATEGORY 6 DATA OUTLET AT CEILING MOUNTED PROJECTOR DESIGNATED FOR PROJECTOR MONITORING. PROVIDE NEW CATEGORY 6 JACK AND CABLE TO IDF. CONTRACTOR TO COORDINATE EXACT LOCATION WITH CEILING MOUNTED PROJECTOR MOUNTING PLATE. SEE B/ET-5.5.
- ⑤ PROVIDE NEW FACEPLATES, DEVICE BRACKETS (SURFACE RACEWAY) AND/OR DEVICE BOXES. SEE DETAIL A/B/ET-5.3 FOR FACEPLATE & LABELING REQUIREMENTS.
- ⑥ AVI INTERFACE MOUNTED AT CENTER OF TEACHING MALL AT +18" AFF. PROVIDE EXTRON 2-GANG ENB SERIES WALL BOX FOR AVI INTERFACE. SEE ET-5.4 & A/ET-5.5 FOR DETAILS.
- ⑦ AUDIO/VISUAL FLYING LEADS AT CEILING MOUNTED PROJECTOR LOCATION. SEE ET-5.4 & B/ET-5.5 FOR DETAILS.
- ⑧ AUDIO VOLUME CONTROL OUTLET MOUNTED AT TEACHER'S STATION LOCATION AT +45" AFF. SEE ET-5.4 & A/ET-5.5 FOR DETAILS.
- ⑨ AUDIO/VISUAL SPEAKER FLUSH IN CEILING TILE. SEE ET-5.4 FOR DETAILS.
- ⑩ EXISTING PHONE (BOGEN HANSET), TO REMAIN.
- ⑪ CONNECT NEW IR INTRUSION DEVICE TO EXPANSION MODULE AT TERMINAL BLOCK LOCATION IN BUILDING. SEE RISER DIAGRAM ON ET-1.6.

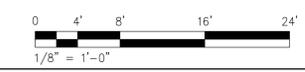
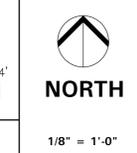
GENERAL NOTES

1. SEE DATA RISER DIAGRAM ON ET-1.4 FOR CABLING DETAILS.
2. SUPPORT CATEGORY 6 & AUDIO/VISUAL CABLING WITH 'J-HOOK' SUPPORTS EVERY 4' WHERE CABLES ARE NOT SUPPORTED, ROUTED THROUGH CONDUIT OR CABLE TRAY. MAINTAIN 12" CLEARANCE FROM ELECTRICAL & LIGHTING. SEE DETAIL D/ET-5.2.



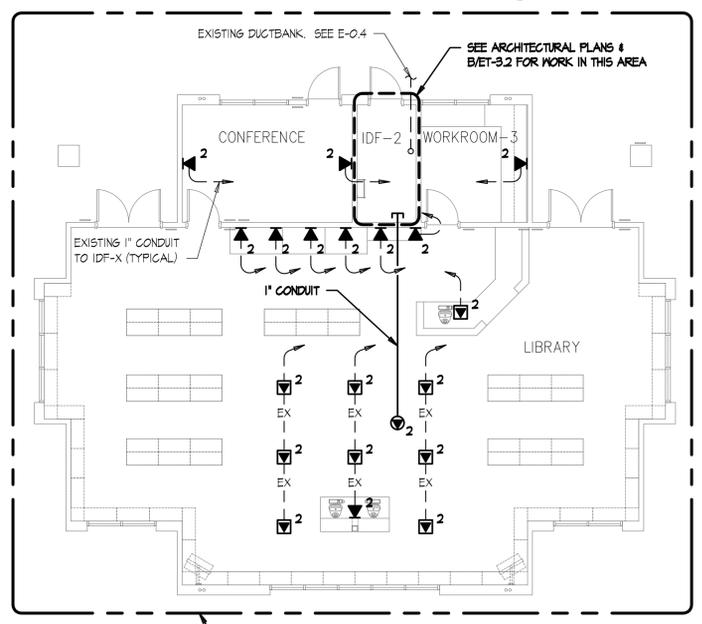
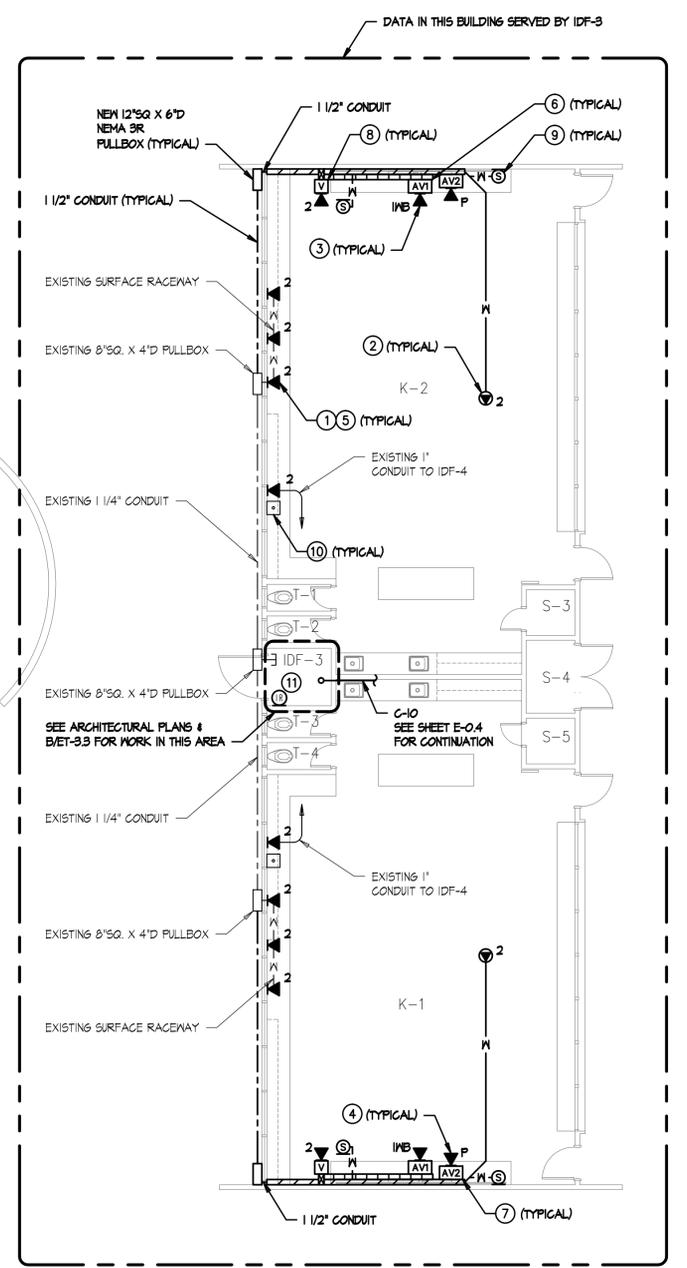
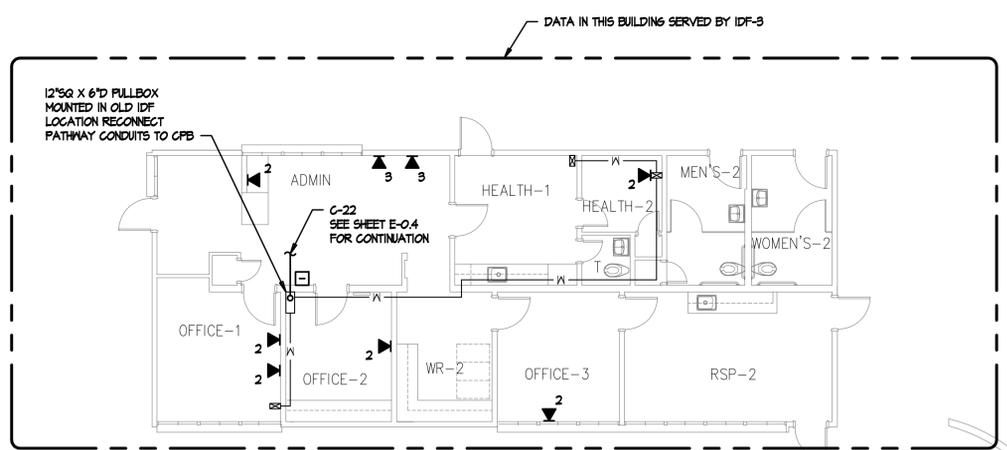
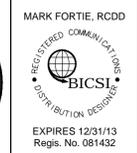
KEYPLAN

NTS

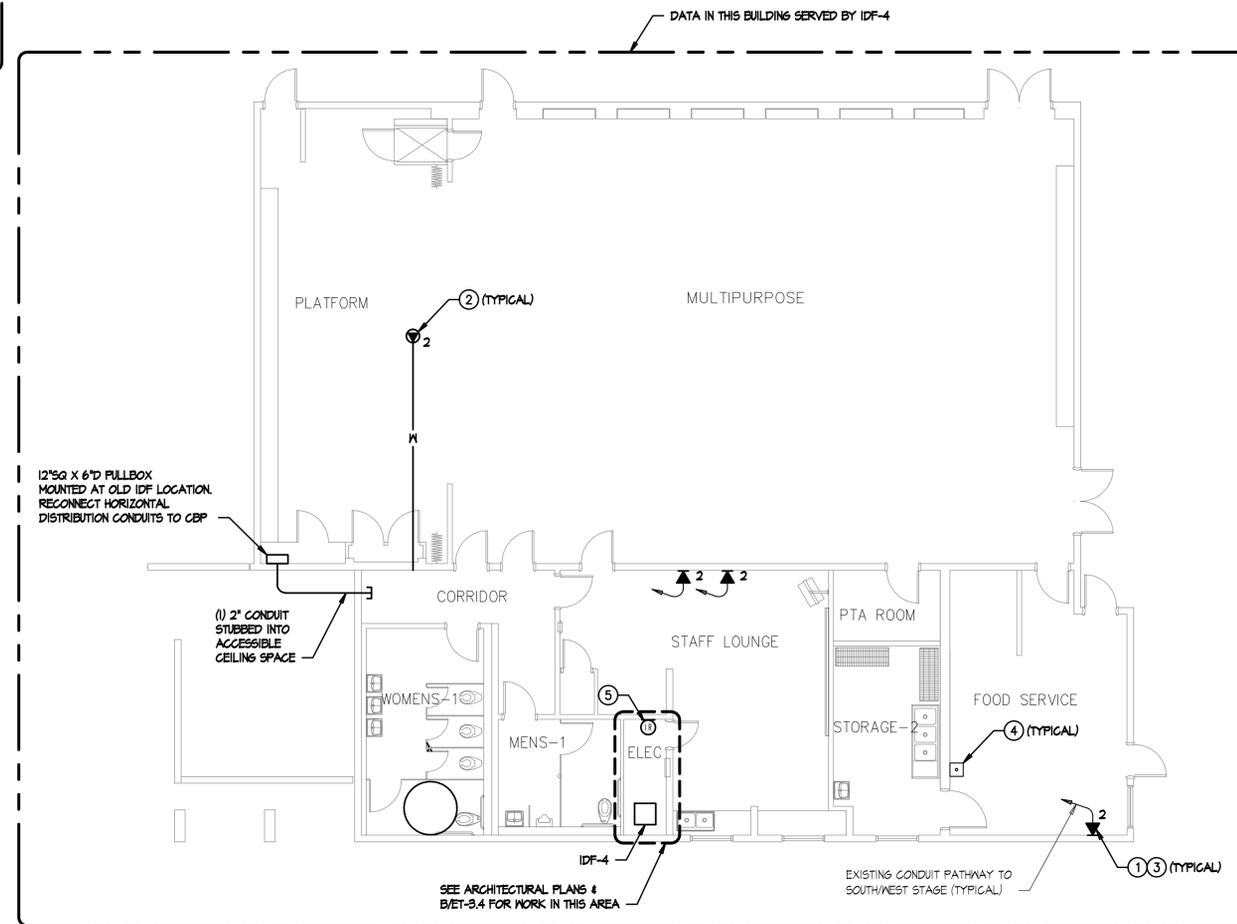
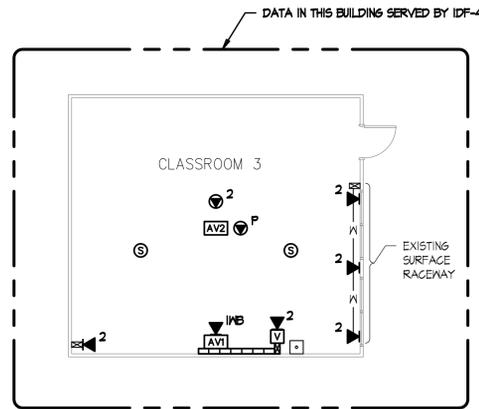


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TREI # 12166
V.PHATHANAK 11/16/12 - 8:27AM



BUILDING 5, 6, AND LIBRARY - SIGNAL PLANS



SIGNAL PLAN KEYNOTES

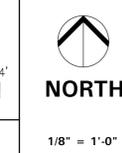
- ① CATEGORY 6 DATA OUTLET. PROVIDE NEW CATEGORY 6 JACKS AND CABLES TO IDF. UTILIZE EXISTING PATHWAYS U.O.N. FOR INSTALLATION IN WALLS.
- ② CATEGORY 6 DATA OUTLET MOUNTED ABOVE LAY-IN CEILING DESIGNATED FOR WIRELESS NETWORK. PROVIDE NEW CATEGORY 6 JACKS AND CABLES TO IDF. SEE DETAIL F/ET-5.2.
- ③ PROVIDE NEW FACEPLATES, DEVICE BRACKETS (SURFACE RACEWAY) AND OR DEVICE BOXES. SEE DETAIL A/B/ET-5.3 FOR FACEPLATE & LABELING REQUIREMENTS.
- ④ EXISTING PHONE (BOGEN HANDSET), TO REMAIN.
- ⑤ CONNECT NEW IR INTRUSION DEVICE TO EXPANSION MODULE AT TERMINAL BLOCK LOCATION IN BUILDING. SEE RISER DIAGRAM ON ET-1.6.

GENERAL NOTES

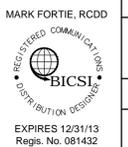
1. SEE DATA RISER DIAGRAM ON ET-1.4 FOR CABLING DETAILS.
2. SUPPORT CATEGORY 6 & AUDIO/VISUAL CABLING WITH 'J-HOOK' SUPPORTS EVERY 4' WHERE CABLES ARE NOT SUPPORTED, ROUTED THROUGH CONDUIT OR CABLE TRAY. MAINTAIN 12" CLEARANCE FROM ELECTRICAL & LIGHTING. SEE DETAIL D/ET-5.2.



KEYPLAN



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V.PHATHANAK 11/16/12 - B:27AM



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IT UPGRADE YEAR TWO
 NARANCA ELEMENTARY SCHOOL
 CAJON VALLEY UNION SCHOOL DISTRICT
 1030 NARANCA AVENUE
 EL CAJON, CA 92021

CONSULTANT

APPROVALS

DESCRIPTION

BUILDING 7 SIGNAL PLAN

DATE

11/16/12

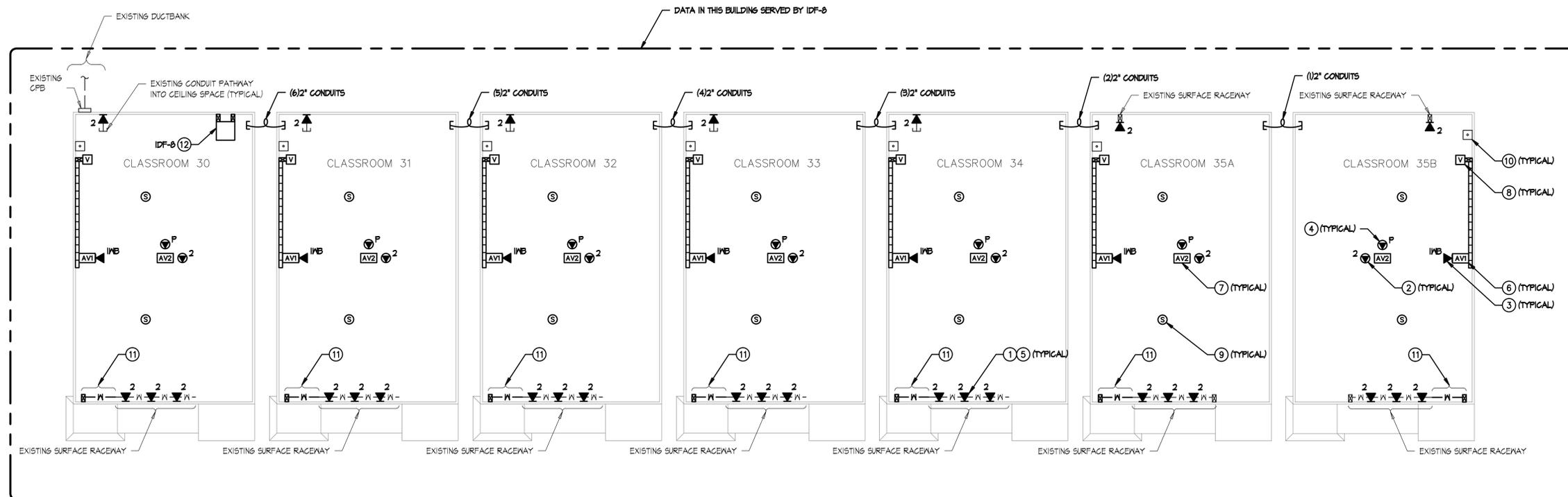
JOB #

12166

SHEET #

E-6.2

BUILDING 7 - SIGNAL PLAN

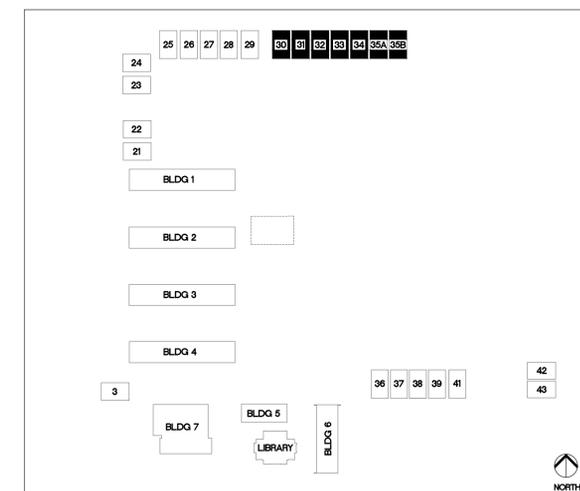


GENERAL NOTES

1. SEE DATA RISER DIAGRAM ON ET-15 FOR CABLING DETAILS.
2. SUPPORT CATEGORY 6 & AUDIO/VISUAL CABLING WITH 'J-HOOK' SUPPORTS EVERY 4' WHERE CABLES ARE NOT SUPPORTED, ROUTED THROUGH CONDUIT OR CABLE TRAY. MAINTAIN 12" CLEARANCE FROM ELECTRICAL & LIGHTING. SEE DETAIL D/ET-5.2.

SIGNAL PLAN KEYNOTES

- ① CATEGORY 6 DATA OUTLET. PROVIDE NEW CATEGORY 6 JACKS AND CABLES TO IDF. UTILIZE EXISTING PATHWAYS U.O.N. FOR INSTALLATION IN WALLS.
- ② CATEGORY 6 DATA OUTLET MOUNTED ABOVE LAY-IN CEILING DESIGNATED FOR WIRELESS NETWORK. PROVIDE NEW CATEGORY 6 JACKS AND CABLES TO IDF. SEE DETAIL F/ET-5.2.
- ③ (I) PORT CATEGORY 6 DATA OUTLET DESIGNATED FOR FUTURE INTERACTIVE WHITEBOARD. PROVIDE NEW CATEGORY 6 JACK AND CABLE TO IDF. LOCATION TO BE AT CENTER OF TEACHING WALL AT 48" AFF. SEE DETAIL A/ET-5.5.
- ④ (I) PORT CATEGORY 6 DATA OUTLET AT CEILING MOUNTED PROJECTOR DESIGNATED FOR PROJECTOR MONITORS. PROVIDE NEW CATEGORY 6 JACK AND CABLE TO IDF. CONTRACTOR TO COORDINATE EXACT LOCATION WITH CEILING MOUNTED PROJECTOR MOUNTING PLATE. SEE B/ET-5.5.
- ⑤ PROVIDE NEW FACEPLATES, DEVICE BRACKETS (SURFACE RACEWAY) AND OR DEVICE BOXES. SEE DETAIL A/B/ET-5.3 FOR FACEPLATE & LABELING REQUIREMENTS.
- ⑥ AV1 INTERFACE MOUNTED AT CENTER OF TEACHING WALL AT 48" AFF. PROVIDE EXTRON 2-GANG EMB SERIES WALL BOX FOR AV1 INTERFACE. SEE ET-5.4 & A/ET-5.5 FOR DETAILS.
- ⑦ AUDIO/VISUAL FLYING LEADS AT CEILING MOUNTED PROJECTOR LOCATION. SEE ET-5.4 & B/ET-5.5 FOR DETAILS.
- ⑧ AUDIO VOLUME CONTROL OUTLET MOUNTED AT TEACHER'S STATION LOCATION AT 48" AFF. SEE ET-5.4 & A/ET-5.5 FOR DETAILS.
- ⑨ AUDIO/VISUAL SPEAKER FLUSH IN CEILING TILE. SEE ET-5.4 FOR DETAILS.
- ⑩ EXISTING PHONE (BOGEN HANDSET), TO REMAIN.
- ⑪ PROVIDE DUAL CHANNEL WIREMOLD 2300 TO ACCOMMODATE DATA CABLING. COLOR TO MATCH EXISTING (TYPICAL AT STUDENT WORKSTATIONS)
- ⑫ SEE DETAIL A/ET-5.6 FOR INSTALLATION.



KEYPLAN

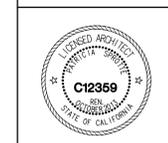
NORTH

1/8" = 1'-0"

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V.PHATHANAK 11/16/12 - B:2BAM

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

PORTABLE 30-35B - SIGNAL PLANS



CONSULTANT

APPROVALS

DESCRIPTION

PORTABLE 30-35B SIGNAL PLANS

DATE

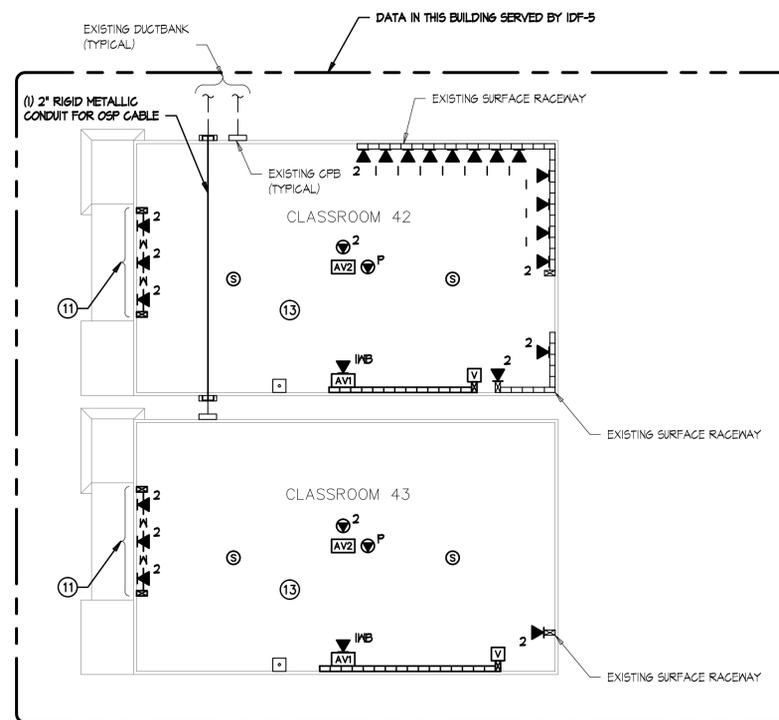
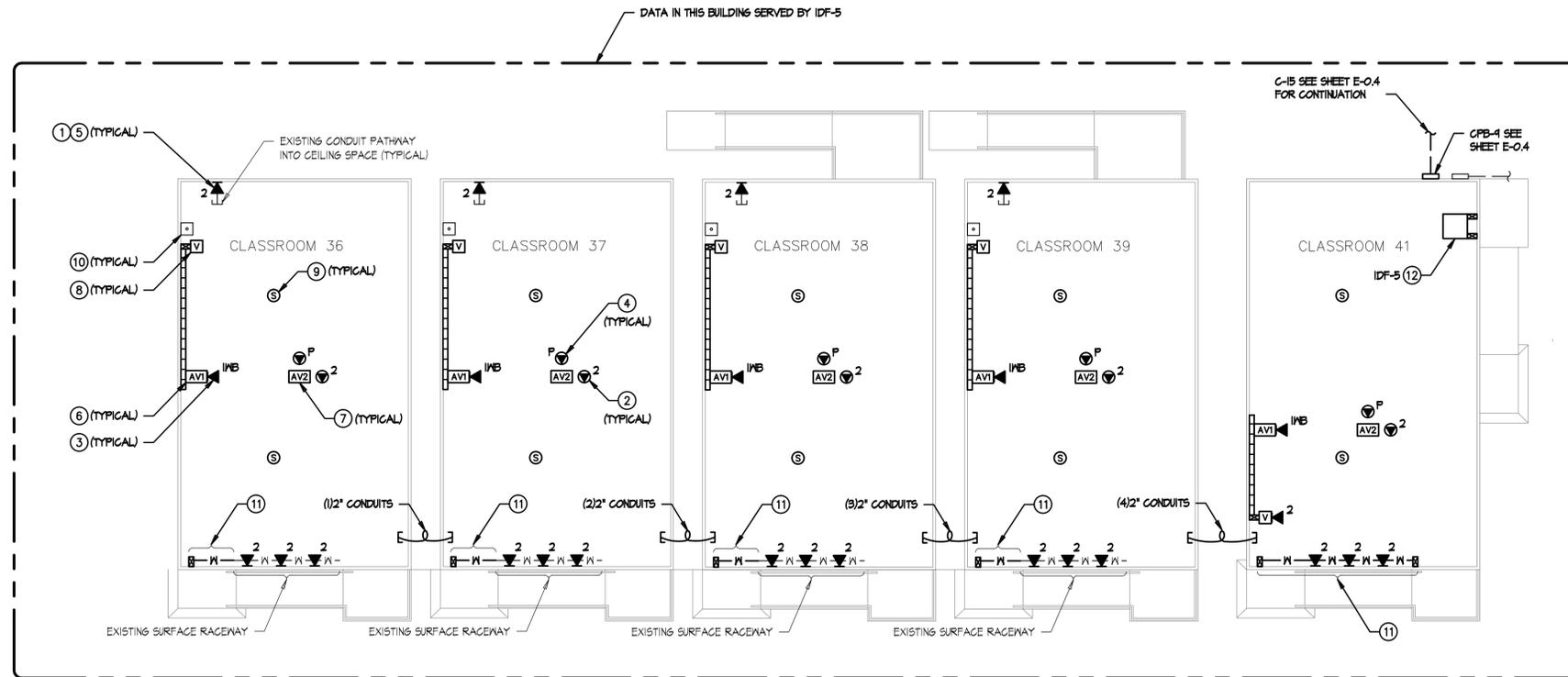
11/16/12

JOB #

12166

SHEET #

E-8.2



SIGNAL PLAN KEYNOTES

- ① CATEGORY 6 DATA OUTLET. PROVIDE NEW CATEGORY 6 JACKS AND CABLES TO IDF. UTILIZE EXISTING PATHWAYS U.O.N. FOR INSTALLATION IN WALLS.
- ② CATEGORY 6 DATA OUTLET MOUNTED ABOVE LAY-IN CEILING DESIGNATED FOR WIRELESS NETWORK. PROVIDE NEW CATEGORY 6 JACKS AND CABLES TO IDF. SEE DETAIL F/ET-5.2.
- ③ (1) PORT CATEGORY 6 DATA OUTLET DESIGNATED FOR FUTURE INTERACTIVE WHITEBOARD. PROVIDE NEW CATEGORY 6 JACK AND CABLE TO IDF. LOCATION TO BE AT CENTER OF TEACHING MALL AT +18" AFF. SEE DETAIL A/ET-5.5.
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- ⑦ AUDIO/VISUAL FLYING LEADS AT CEILING MOUNTED PROJECTOR LOCATION. SEE ET-5.4 & B/ET-5.5 FOR DETAILS.
- ⑧ AUDIO VOLUME CONTROL OUTLET MOUNTED AT TEACHER'S STATION LOCATION AT +45" AFF. SEE ET-5.4 & A/ET-5.5 FOR DETAILS.
- ⑨ AUDIO/VISUAL SPEAKER FLUSH IN CEILING TILE. SEE ET-5.4 FOR DETAILS.
- ⑩ EXISTING PHONE (BOGEN HANSET), TO REMAIN.
- ⑪ PROVIDE DUAL CHANNEL WIREMOLD 2800 TO ACCOMMODATE DATA CABLING. COLOR TO MATCH EXISTING (TYPICAL AT STUDENT WORKSTATIONS)
- ⑫ SEE DETAIL A/ET-5.6 FOR INSTALLATION.
- ⑬ SEE DETAIL B/ET-5.6 FOR OSP PATHWAYS.

GENERAL NOTES

1. SEE DATA RISER DIAGRAM ON ET-1.4 FOR CABLING DETAILS.
2. SUPPORT CATEGORY 6 & AUDIO/VISUAL CABLING WITH 'J-HOOK' SUPPORTS EVERY 4' WHERE CABLES ARE NOT SUPPORTED, ROUTED THROUGH CONDUIT OR CABLE TRAY. MAINTAIN 12" CLEARANCE FROM ELECTRICAL & LIGHTING. SEE DETAIL D/ET-5.2.



KEYPLAN

NORTH

1/8" = 1'-0"

0 4' 8' 16' 24'

1/8" = 1'-0"

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ELECTRICAL
STATE OF CALIFORNIA

REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
BICSI

MARK FORTIE, RCDD
EXPIRES 12/31/13
Regis. No. 081432

PORTABLE 36-43 - SIGNAL PLANS



CONSULTANT

APPROVALS

DESCRIPTION

PORTABLE 36-43 SIGNAL PLANS

DATE

11/16/12

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SHEET #

E-92