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SHEET INDEX	
SHEET	TITLE
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GENERAL NOTES – APPLICABLE TO ALL SHEETS:

- CIRCUITING IS NOT SHOWN UNLESS IT HAS BEEN FIELD VERIFIED.
- ALL EXISTING DEVICE LOCATIONS ON DRAWINGS WERE FIELD VERIFIED. HOWEVER, SOME EXISTING DEVICES MAY BE CONCEALED AND NOT SHOWN ON DRAWINGS. CONTRACTOR RESPONSIBLE FOR DEMOLITION OF ALL DEVICES (INCLUDING ASSOCIATED ELECTRICAL EQUIPMENT, CONDUIT, AND WIRING BACK TO PANEL) SCHEDULED FOR DEMOLITION. DEMOLITION OF CONCEALED CONDUIT, WIRES, AND DEVICES SHALL BE INCLUDED IN BASE BID SCOPE OF WORK.
- LIGHTING EQUIPMENT TYPE HAS BEEN FIELD VERIFIED.
- ALL WORK IS NEW UNLESS OTHERWISE NOTED.
- ALL WIRING SHALL BE CONCEALED AND ALL DEVICES FLUSH MOUNTED UNLESS NOTED OTHERWISE. WIRING AND DEVICES SHALL BE SURFACE MOUNTED IN MECHANICAL SPACES AND IN THE GYM.
- ALL POWER WIRING SHALL BE CONDUCTORS IN CONDUIT, UNLESS OTHERWISE NOTED.
- ALL LIGHTING WIRING SHALL BE CONDUCTORS IN CONDUIT OR MC CABLE.
- ALL SIGNAL WIRING SHALL BE CONDUCTORS OR CABLE IN CONDUIT WHERE CONCEALED. SIGNAL CONDUCTORS AND CABLE MAY BE EXPOSED ABOVE SUSPENDED CEILINGS WHERE SUPPORTED BY CABLE TRAY OR CEILING MOUNTED J-HOOKS, UNLESS OTHERWISE NOTED. USE CABLE TRAY DOWN THE CORRIDORS AND J-HOOKS TO SUPPORT CABLE FROM THE CABLE TRAY TO WHERE IT ENTERS CONDUIT. SIGNAL WIRING SHALL BE IN CONDUIT IN MECHANICAL SPACES AND IN THE GYM. ALL SIGNAL DEVICES SHALL BE INSTALLED TO JUNCTION BOXES. FIRE ALARM WIRING SHALL BE IN CONDUIT.
- PROVIDE ALL WIRING IN WIREMOLD 500 RACEWAY AND IN WIREMOLD SURFACE JUNCTION BOXES IN LIBRARY WHERE WIRING CAN NOT BE CONCEALED.
- THE SPACE ABOVE SUSPENDED CEILINGS IS NOT A RETURN AIR PLENUM. PLENUM RATED CABLE IS NOT REQUIRED.

LEGEND

S	SINGLE POLE SWITCH	□	TEMPERATURE SENSOR
S+	SINGLE POLE SWITCH WITH INDICATOR LIGHT	▽	THERMOSTAT
S <sub>3</sub>	THREE WAY SWITCH	✕	STROBE ONLY
⓵	JUNCTION BOX	□	PULL STATION
○	LIGHTING UNDER CABINET	✕	HORN STROBE
CKTS	CIRCUITS	□	HORN ONLY
~~~~	FLEXIBLE CONDUIT	▽ <sub>2</sub>	DATA JACK NUMBER INDICATES QUANTITY IF NOT ONE
⊕	DUPLEX RECEPTACLE	▽ <sub>E</sub>	EXISTING DATA JACK
ⓔ	EXISTING DUPLEX RECEPTACLE	▽	COMBINATION COMPUTER/TELE
Ⓢ	DOUBLE DUPLEX RECEPTACLE	▽	TELEPHONE
AFF	ABOVE FINISHED FLOOR	Ⓢ	WALL MOUNT SPEAKER. P INDICATES PAGING SYSTEM. MOUNT AT 105" OR 18" BELOW CEILING WHICH EVER IS HIGHER.
BLDG	BUILDING	Ⓢ	MOTION SENSOR
GND	GROUND	Ⓢ	WALL MOUNT CLOCK
REC	RECEPTACLE	Ⓢ	CEILING SPEAKER. P INDICATES PAGING SYSTEM. S INDICATES SOUND SYSTEM.
TYP	TYPICAL	— —	FUSE
W/	WITH	□	INTERCOM PUSH-TO-TALK SWITCH
→	HOME RUN	Ⓢ	BELL
Ⓢ	SPECIAL USE RECEPTACLE	Ⓢ	MAGNETIC STARTER
Ⓢ	EXTERIOR WALL MOUNT LUMINAIRE.	Ⓢ	COMBINATION NEMA MAGNETIC STARTER/ DISCONNECT
Ⓢ	EXTERIOR CEILING LUMINAIRE	□	DISCONNECT
EM J/8	LETTER INDICATES TYPE, NUMBER INDICATES LENGTH OF ROW AND "EM" INDICATES EMERGENCY BALLAST	Ⓢ	MOTOR CONNECTION
Ⓢ	EMERGENCY EXIT SIGN	□ <sub>M</sub>	MAGNETIC DOOR HOLD OPEN
Ⓢ	WIREMOLD PLUG MOLD	Ⓢ	SMOKE DETECTOR
Ⓢ	WIREMOLD RACEWAY WITH DUPLEX OUTLETS	S <sub>M</sub>	MANUAL STARTER
Ⓢ	POWER PANEL	S <sub>K</sub>	KEY TYPE SWITCH
Ⓢ	OCCUPANCY SENSOR CEILING MOUNT DUAL TECHNOLOGY	S <sub>o</sub>	SINGLE POLE SWITCH LETTER IDENTIFIES SWITCH WHEN MORE THAN ONE SWITCH IS USED
Ⓢ	SPRINKLER FLOW SWITCH	Ⓢ	WALL MOUNTED OCCUPANCY SENSOR WITH BUILT IN OVERRIDE SWITCH
Ⓢ	SPRINKLER TAMPER SWITCH	①	HEAT DETECTOR
Ⓢ	AMPRE METER	Ⓢ	DUCT SMOKE DETECTOR
Ⓢ	VOLT METER	▽	TELEVISION. MOUNT AT 105" OR 18" BELOW CEILING WHICH EVER IS HIGHER.
Ⓢ	CIRCUITING HATCHES SHOW NUMBER OF CONDUCTORS WHERE MORE THAN 2. EACH LARGE TIC INDICATES A NEUTRAL CONDUCTOR AND EACH SMALL TIC INDICATES A PHASE CONDUCTOR. EQUIPMENT GROUND NOT SHOWN BUT IS REQUIRED ON ALL CIRCUITS	Ⓢ	CAMERA
		Ⓢ	EXISTING TO REMAIN
		Ⓢ	REMOVE
		Ⓢ	REMOVE AND SALVAGE
		Ⓢ	REINSTALL



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GASTINEAU ELEMENTARY SCHOOL

RENOVATION

CBJ Contract No. E11-157  
JUNEAU, ALASKA

SHEET TITLE:

SHEET INDEX AND LEGEND

DATE: NOV. 15, 2010

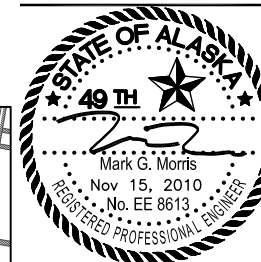
REVISION: ....

CHECKED BY: MGM

DRAWN: DMP

SHEET #:

EO.0



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# GASTINEAU ELEMENTARY SCHOOL RENOVATION

CBJ Contract No. E11-137  
JUNEAU, ALASKA

SHEET TITLE:  
**SITE PLAN  
FRONT ENTRY**

DATE: NOV. 15, 2010  
REVISION: .....  
CHECKED BY: MGM  
DRAWN: DMP

SHEET #  
**EO.1**

1"C, 2 NO. 6,  
AND 1 NO. 10.  
①

M-25, 27 VIA  
LIGHTING  
CONTACTOR IN  
ROOM 143

TO M-21 VIA LIGHTING  
CONTACTOR 1 "C, 2 NO. 10  
& 1 NO. 10 GND. ④

M-23 VIA LIGHTING  
CONTACTOR IN  
ROOM 143

1"C, 2 NO. 10, AND  
1 NO. 10 GND.

TO M-21 VIA  
LIGHTING CONTACTOR  
IN ROOM 143  
3/4"C, 2 NO. 10,  
AND 1 NO. 10 GND.

BASE BID ②

ALT NO. 3

1"C, 2 NO. 6 AND  
1 NO. 10 GND.

T1 13'-6"  
⑥

T1 13'-6"  
⑥

T1 13'-6"  
⑥

TYPE 1A JUNCTION BOX  
SEE DETAIL SHEET E0.4

MOUNT POLE ON  
CONCRETE BASE  
SEE DETAILS,  
SHEET E0.4 (TYP)

SEE SHEET E0.2

1"C, 2 NO. 6, AND  
1 NO. 10 GND.

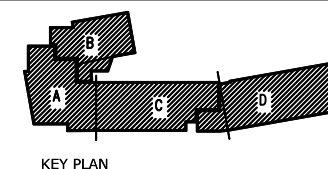
SCHOOL SIGN, SEE  
DETAIL SHEET E0.5

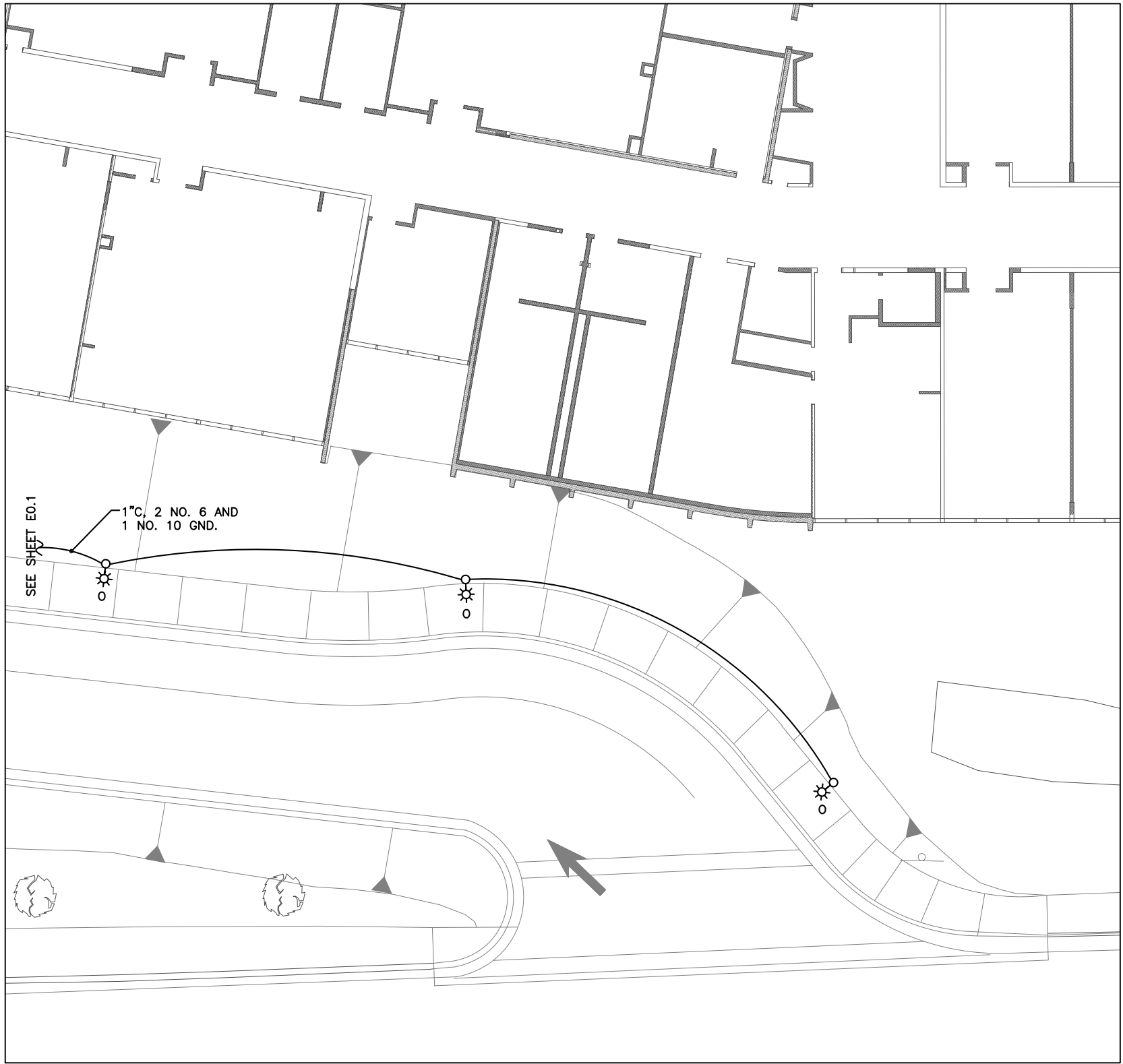
GFI

## NOTES:

- ① IN THE BASE BID PROVIDE A TYPE 1 JUNCTION BOX AT THIS LOCATION AND FEED FROM LIGHTING CONTACTOR WITH CONDUCTORS CAPPED IN JUNCTION BOX. IN ALTERNATE NO. 3 PROVIDE TYPE "O" LIGHT POLES AS SHOWN.
- ② TYPE N AND P LUMINAIRES ARE IN BASE BID. (4) TYPE P LUMINAIRES ARE IN BASE BID, (8) TYPE P LUMINAIRES ARE IN ALTERNATE NO. 3. TYPE Q LUMINAIRES ARE IN ALTERNATE NO. 3
3. MOUNT TYPE Q LED ROPE LIGHTING INSIDE SIGN. PLUG INTO RECEPTACLE INSIDE SIGN. SEE SCHOOL SIGN LIGHTING DETAIL SHEET E0.5
- ④ MOUNT TYPE "N" LUMINAIRES AT 8' AFG ON CANOPY POSTS. PROVIDE A 4" DIAMETER HAND HOLE 4" BELOW THE PLATE FOR ACCESS. PROVIDE A FLUSH COVER PLATE FOR THE ACCESS HOLE. DRILL AND TAP THE POST TO MOUNT THE LUMINAIRE, USE 1/4" DIAMETER BOLTS WITH BOWMAN ANTISIEZE COMPOUND. ROUTE THE CONDUCTORS THROUGH A 3/4" GROMMETED HOLE IN THE POST DOWN THE POST THEN THROUGH A 1" CONDUIT TO THE NEXT POST OR TO THE LIGHTING CONTACTOR. SPLICE THE CONDUCTORS AT THE BASE OF EACH POST AT A 4" DIAMETER HANDHOLE (SAME AS DESCRIBED ABOVE)
- ⑤ SEE CANOPY CONDUIT DETAILS SHEET E0.5
- ⑥ BASE BID WORK. MOUNT TO EXTERIOR WALL. FEED FROM CONDUIT ROUTED ABOVE SUSPENDED CEILING TO JUNCTION BOX MOUNTED ON INTERIOR SIDE OF WALL DRILL THROUGH WALL, NIPPLE INTO BACK OF LUMINAIRE.

① **SITE PLAN - FRONT ENTRY**  
1/8" = 1'-0" on 22 x 34  
1/16" = 1'-0" on 11 x 17





NOTE:  
1 ALL WORK ON THIS SHEET IS IN ALTERNATE NO. 3



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1" = 1' - 0"  
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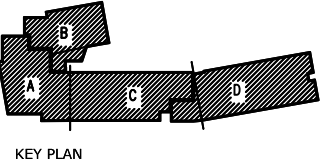
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RENOVATION**  
CBJ Contract No. E11-137  
JUNEAU, ALASKA

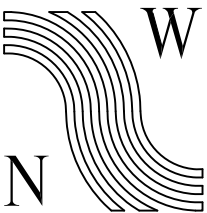
SHEET TITLE:  
SITE PLAN  
FRONT DRIVE

DATE: NOV. 15, 2010  
REVISION: ....  
CHECKED BY: MGM  
DRAWN: DMP

SHEET #  
**EO.2**

**1 SITE PLAN - FRONT DRIVE**  
1/8" = 1'-0" on 22 x 34  
1/16" = 1'-0" on 11 x 17





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RENOVATION  
CBJ Contract No. E11-137  
JUNEAU, ALASKA

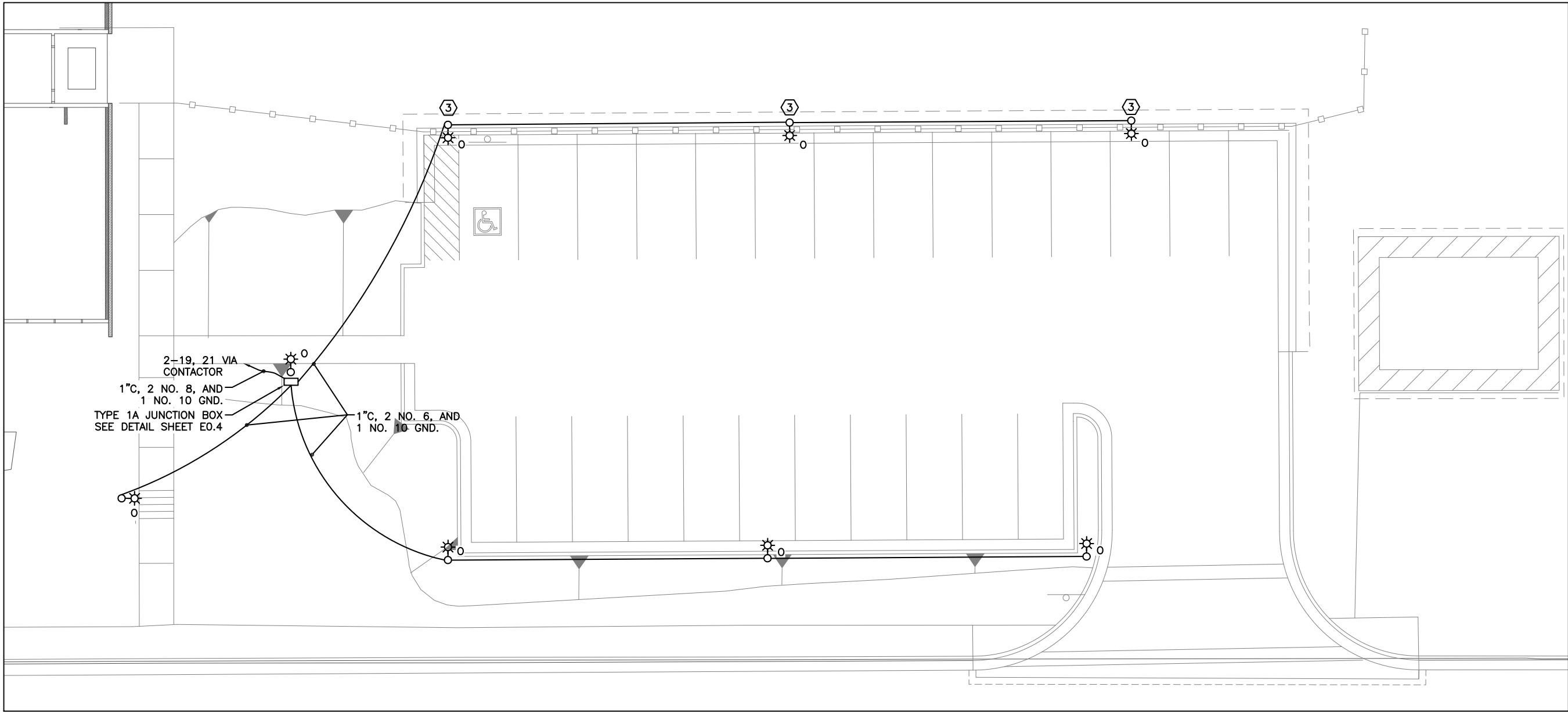
SHEET TITLE:  
SITE PLAN  
WEST PARKING

DATE: NOV. 15, 2010  
REVISION: ....  
CHECKED BY: MGM  
DRAWN: DMP

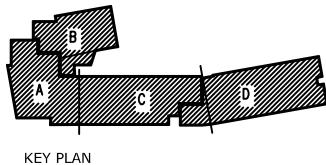
SHEET #  
EO.3

NOTES:

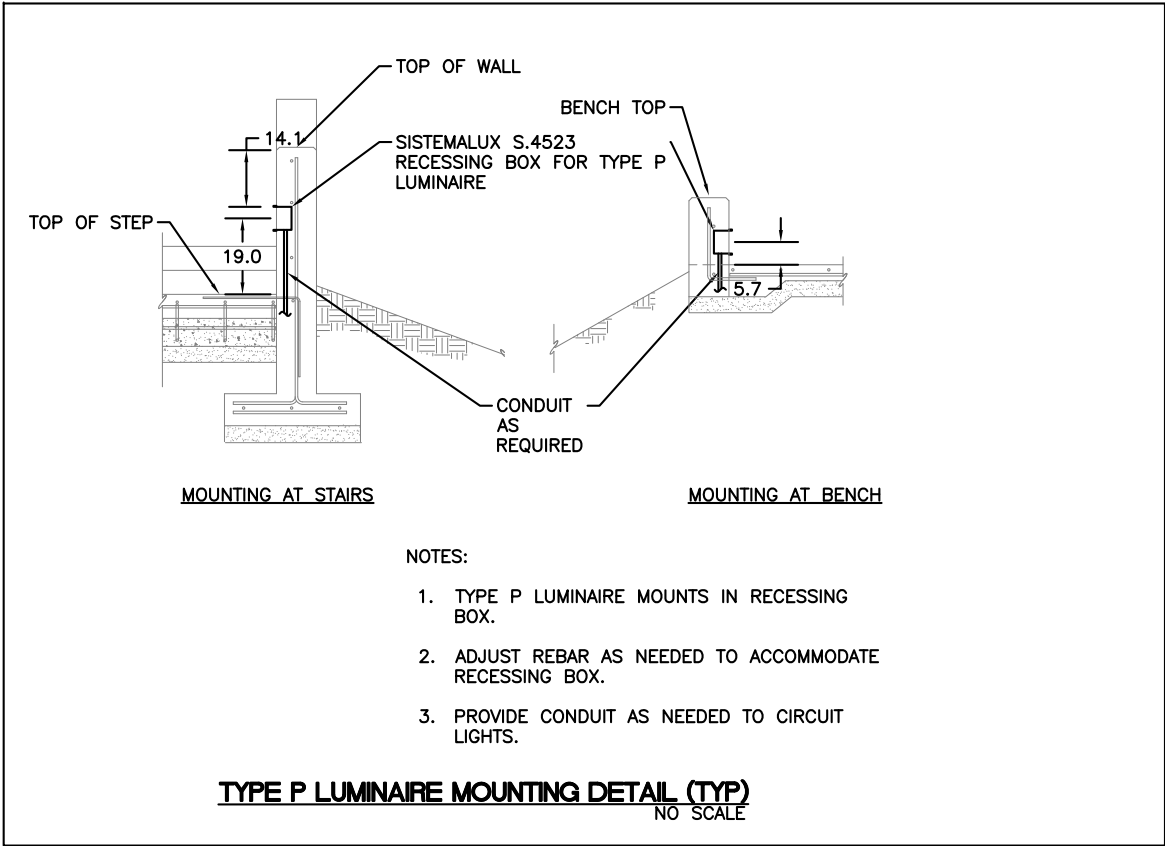
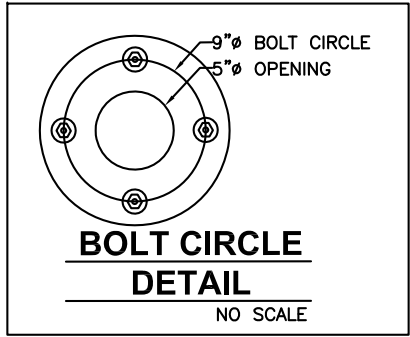
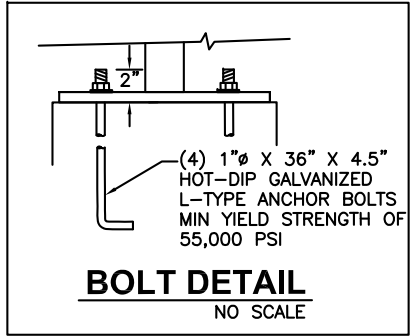
1. WORK ON THIS SHEET COVERED IN ALTERNATE NO. 4
2. SEE DETAILS SHEET E0.4 FOR TYPE "O" LIGHT POLE MOUNTING.
3. MOUNT POLE ON BASE BEHIND RETAINING WALL. SEE DETIAL SHEET E0.5



1 SITE PLAN - WEST PARKING  
1/8" = 1'-0" on 22 x 34  
1/16" = 1'-0" on 11 x 17

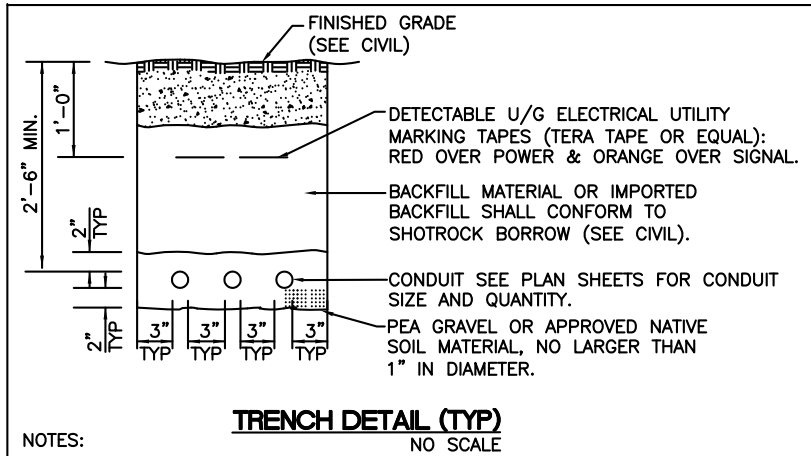






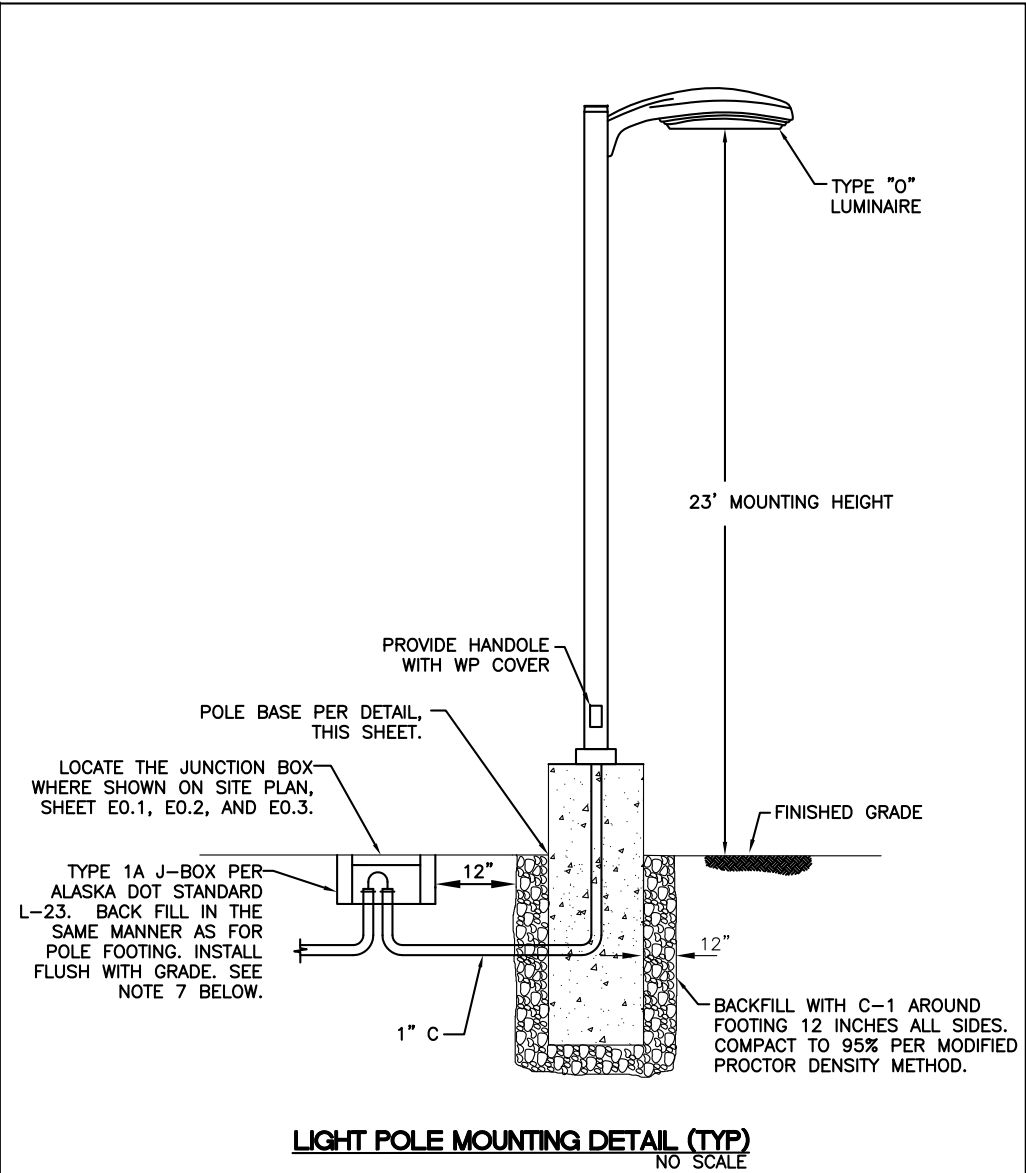
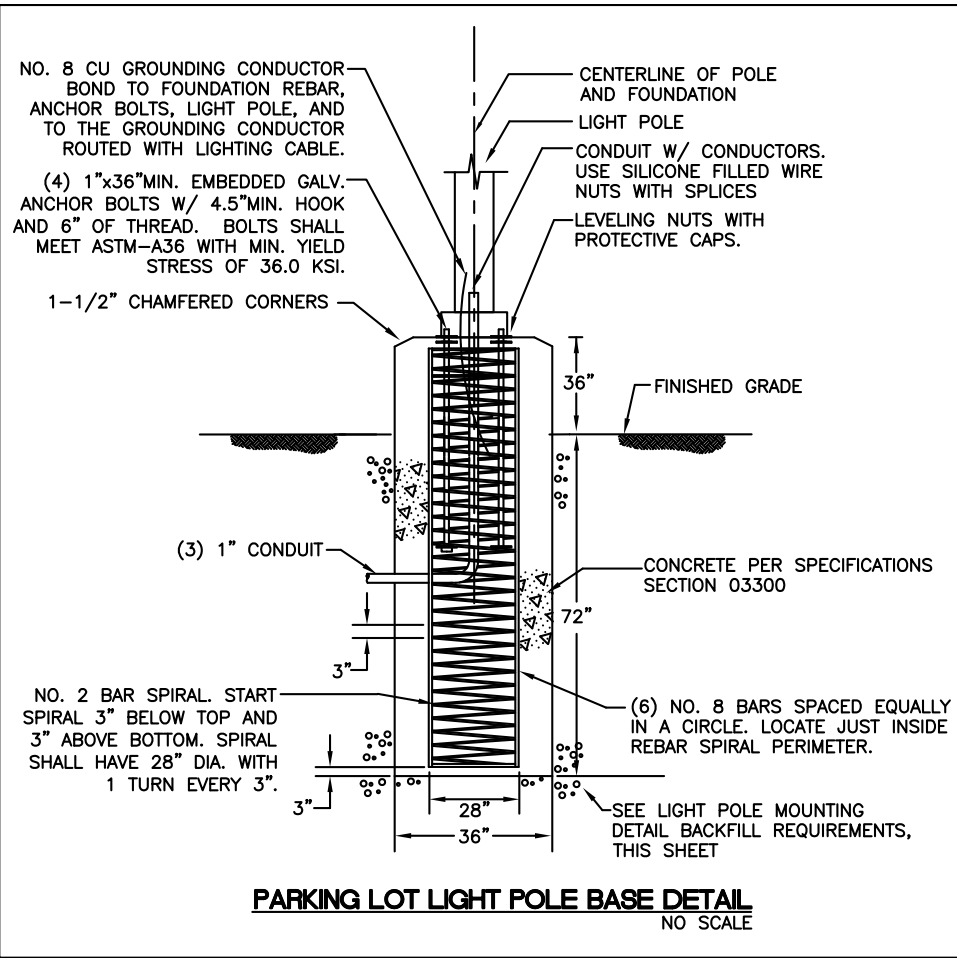
NOTES:

1. TYPE P LUMINAIRE MOUNTS IN RECESSING BOX.
2. ADJUST REBAR AS NEEDED TO ACCOMMODATE RECESSING BOX.
3. PROVIDE CONDUIT AS NEEDED TO CIRCUIT LIGHTS.



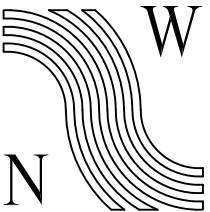
NOTES:

1. ALL DIMENSIONS ARE MINIMUM.
2. THE LOCATION OF ALL EXISTING PIPING, CONDUIT, ETC MAY NOT BE WHERE SHOWN AND MAY NOT BE SHOWN. ALL LOCATIONS THAT ARE SHOWN ARE APPROXIMATE AND SHOULD BE FIELD VERIFIED. OBTAIN UTILITY LOCATES PRIOR TO DIGGING. DIG WITH CAUTION. AVOID WATER, SEWER, DRAINAGE PIPES AND OTHER CONFLICTS.
3. MAINTAIN 12 INCHES MINIMUM SEPARATION (ALL DIRECTIONS) BETWEEN POWER AND OTHER EXISTING CONDUITS, PIPES, ETC.
4. CUT & REPLACE EXISTING ASPHALT, CONCRETE, CONCRETE CURB, GUTTER, SIDEWALK, ETC AS NECESSARY.
5. ALL TRENCHES SHALL BE 18" WIDE MIN. COMPACT BACKFILL PER CIVIL. TOP 6" OF MATERIAL PER CIVIL.
6. POWER UTILITY CONDUIT SHALL BE BURIED AT A MINIMUM OF 3'.
7. MODIFY CONDUIT BURIAL DEPTH WHERE SHOWN ON DRAWINGS.
8. MAINTAIN 36" MINIMUM LATERAL SEPARATION FROM WATER AND SEWER LINES. MAINTAIN 12" SEPARATION BETWEEN ELECTRICAL UTILITY CONDUITS.



NOTES:

1. UNLESS NOTED ELSEWHERE, ALL SPLICES SHALL BE IN BASE OF POLE.
2. PROVIDE GROUNDING BUSHINGS ON CONDUIT.
3. PROVIDE DOUBLE FUSED CONNECTOR KITS IN BASE OF POLE. SEC NO. 1791-DF OR EQUAL.
4. LOCATE THE CENTER OF THE LIGHT POLE WHERE SHOWN ON PLAN SHEET E0.1, E0.2, AND E0.3.
5. SIZE POLE WITH MAST ARM AND LUMINAIRE FOR 100 MPH SUSTAINED WINDS WITH GUSTS TO 120 MPH.
6. PROTECT ANCHOR BOLTS FROM PHYSICAL DAMAGE DURING CONSTRUCTION.
7. PROVIDE (3) 1" CONDUITS PER POLE BASE. (2) FOR LIGHTING CIRCUIT, (1) SPARE.



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GASTINEAU ELEMENTARY SCHOOL

RENOVATION

CBJ Contract No. E11-157  
JUNEAU, ALASKA

SHEET TITLE:

LIGHT POLE  
DETAILS

DATE: NOV. 15, 2010

REVISION: .....

CHECKED BY: MGM

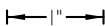
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SHEET #

EO.4



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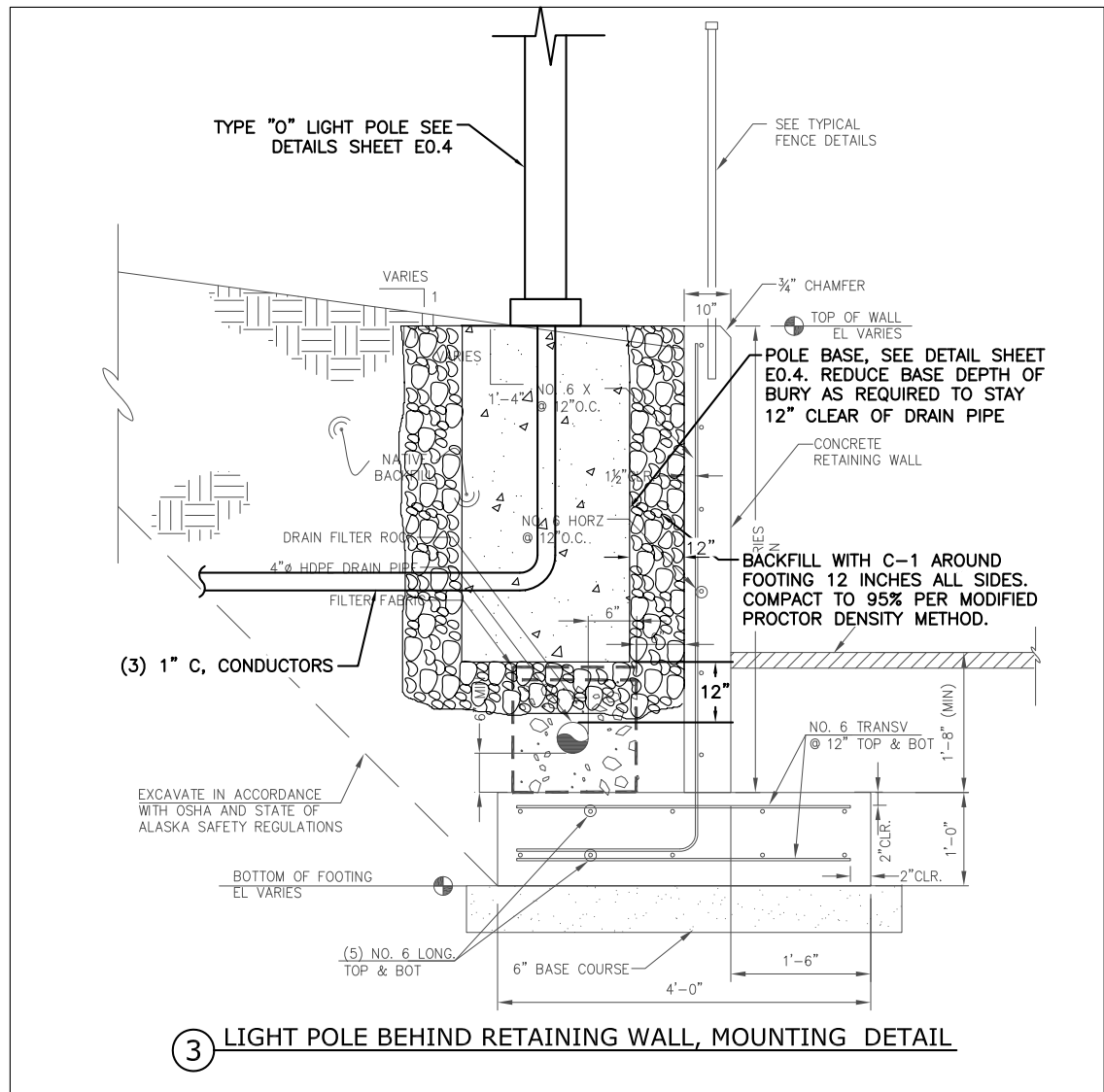
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GASTINEAU ELEMENTARY SCHOOL  
RENOVATION  
CRJ Contract No. E11-157  
JUNEAU, ALASKA

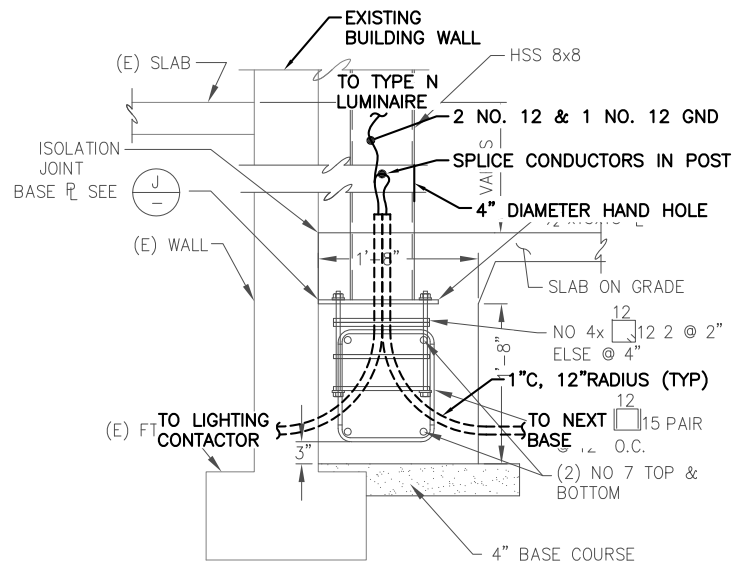
SHEET TITLE:  
CANOPY CONDUIT  
AND SIGN DETAILS

DATE: NOV. 15, 2010  
REVISION: ....  
CHECKED BY: MGM  
DRAWN: DMP

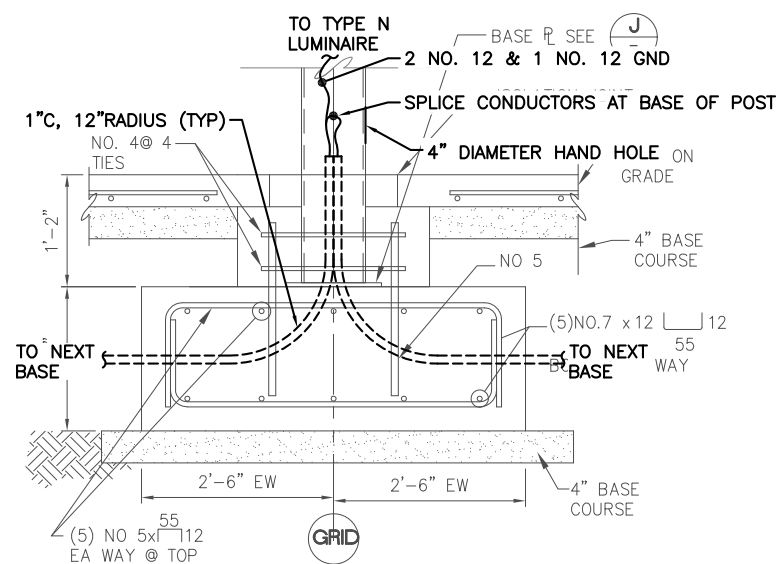
SHEET #  
EO.5



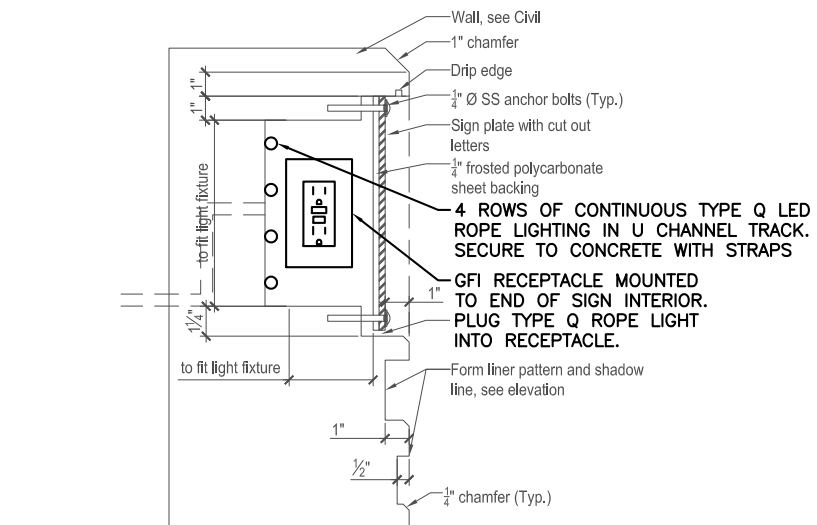
③ LIGHT POLE BEHIND RETAINING WALL, MOUNTING DETAIL



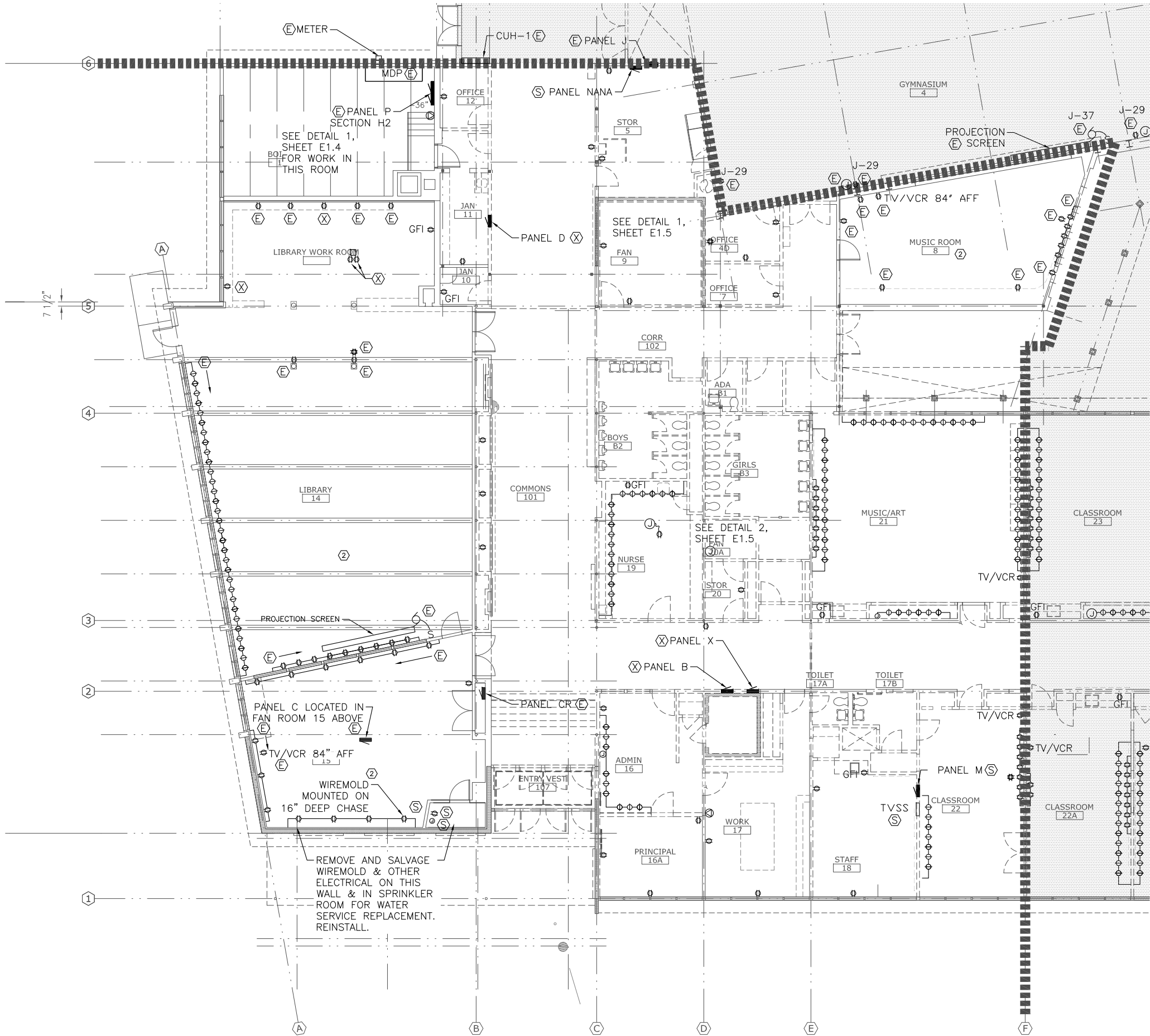
CANOPY POST NEXT TO BUILDING



CANOPY POST NEXT TO STAIRS



① SCHOOL SIGN LIGHTING DETAIL



NOTES:

1. REMOVE ALL ELECTRICAL IN AREA A UNLESS NOTED OTHERWISE.
2. ELECTRICAL IN ROOMS 14, 15, 8, AND LIBRARY WORK ROOM TO REMAIN, UNLESS OTHERWISE NOTED.
3. RECEPTACLES IN ROOM 8 ARE ON PANEL J-31



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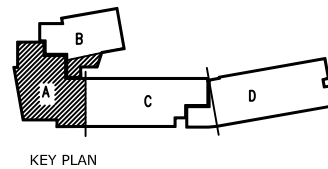
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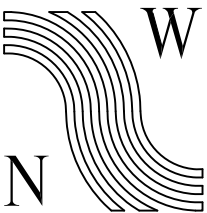
SHEET TITLE:  
**AREA A  
DEMO PLAN  
POWER**

DATE: NOV. 15, 2010  
REVISION: ....  
CHECKED BY: MGM  
DRAWN: DMP

SHEET #:  
**E1.0**

**1 AREA A - DEMOLITION PLAN POWER**  
1/8" = 1'-0" on 22 x 34  
1/16" = 1'-0" on 11 x 17





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1" = 1"

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GASTINEAU ELEMENTARY SCHOOL  
RENOVATION  
CBJ Contract No. E11-137  
JUNEAU, ALASKA

SHEET TITLE:

AREA B  
DEMO PLAN  
POWER

DATE: NOV. 15, 2010

REVISION: .....

CHECKED BY: MGM

DRAWN: DMP

SHEET #:

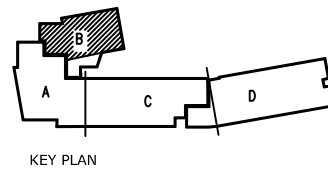
E1.1

NOTES:

1. REMOVE ALL ELECTRICAL IN AREA B UNLESS NOTED OTHERWISE.
2. ELECTRICAL IN ROOMS 4, 4C, 4B, AND 4A TO REMAIN, UNLESS OTHERWISE NOTED.
3. REMOVE RECEPTACLE, CONDUIT, AND WIRING TO PANEL.



1 AREA B - DEMOLITION PLAN - POWER  
1/8" = 1'-0" on 22 x 34  
1/16" = 1'-0" on 11 x 17





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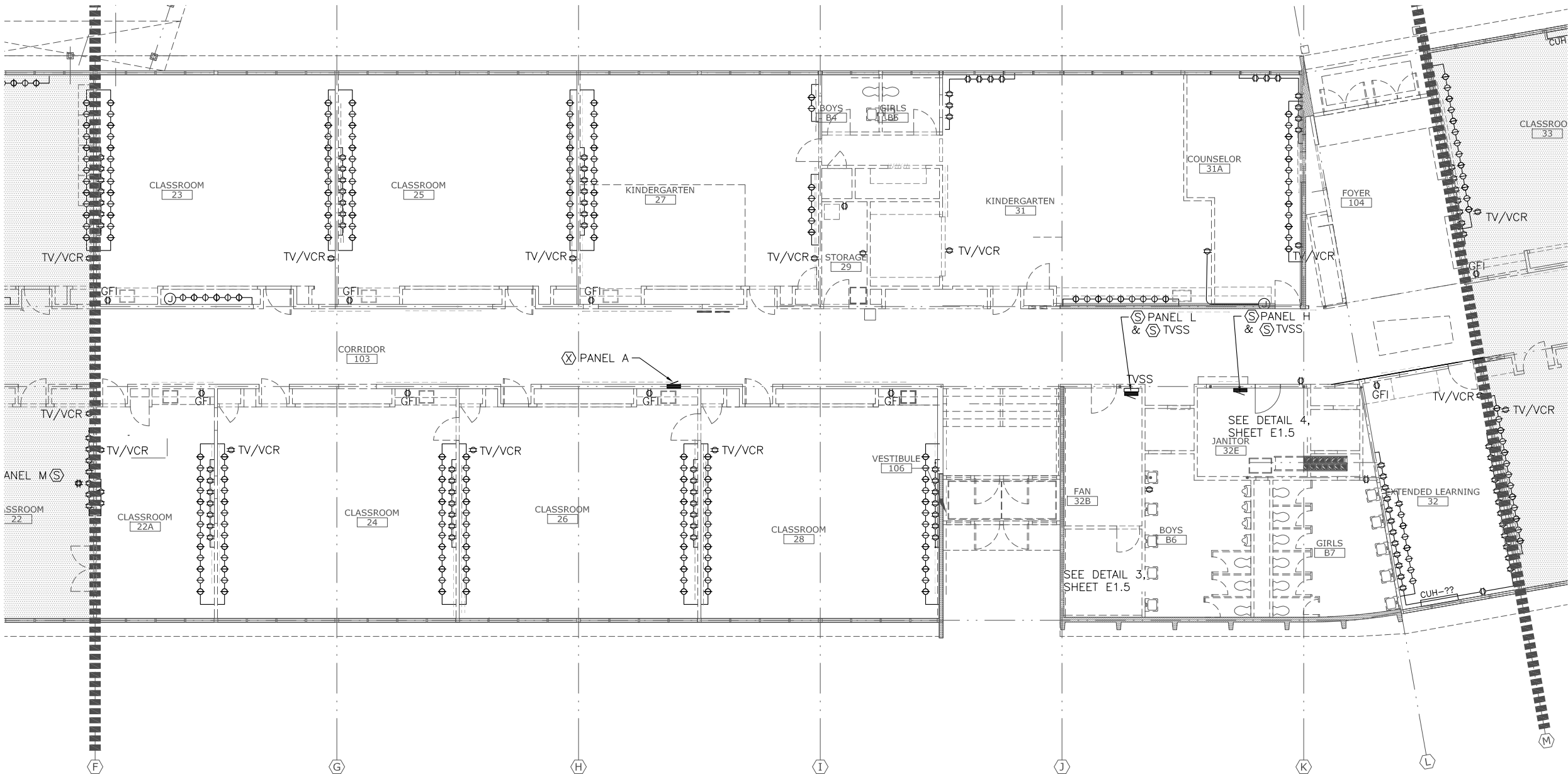
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RENOVATION  
CBJ Contract No. E11-137  
JUNEAU, ALASKA

SHEET TITLE:  
AREA C  
DEMO PLAN  
POWER

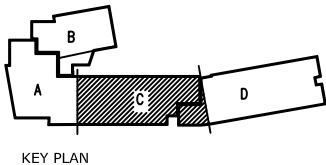
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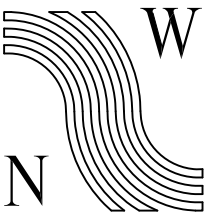
SHEET #  
E1.2

- NOTES:
1. REMOVE ALL ELECTRICAL IN AREA C UNLESS NOTED OTHERWISE. INCLUDING RECEPTACLES, CONDUIT, WIRING, DEVICES, ETC.



1 AREA C - DEMOLITION PLAN - POWER  
1/8" = 1'-0" on 22 x 34  
1/16" = 1'-0" on 11 x 17





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GASTINEAU ELEMENTARY SCHOOL  
RENOVATION  
CBJ Contract No. E11-137  
JUNEAU, ALASKA

SHEET TITLE:

AREA D  
DEMO PLAN  
POWER

DATE: NOV. 15, 2010

REVISION: ....

CHECKED BY: MGM

DRAWN: DMP

SHEET #

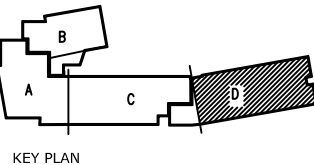
E1.3

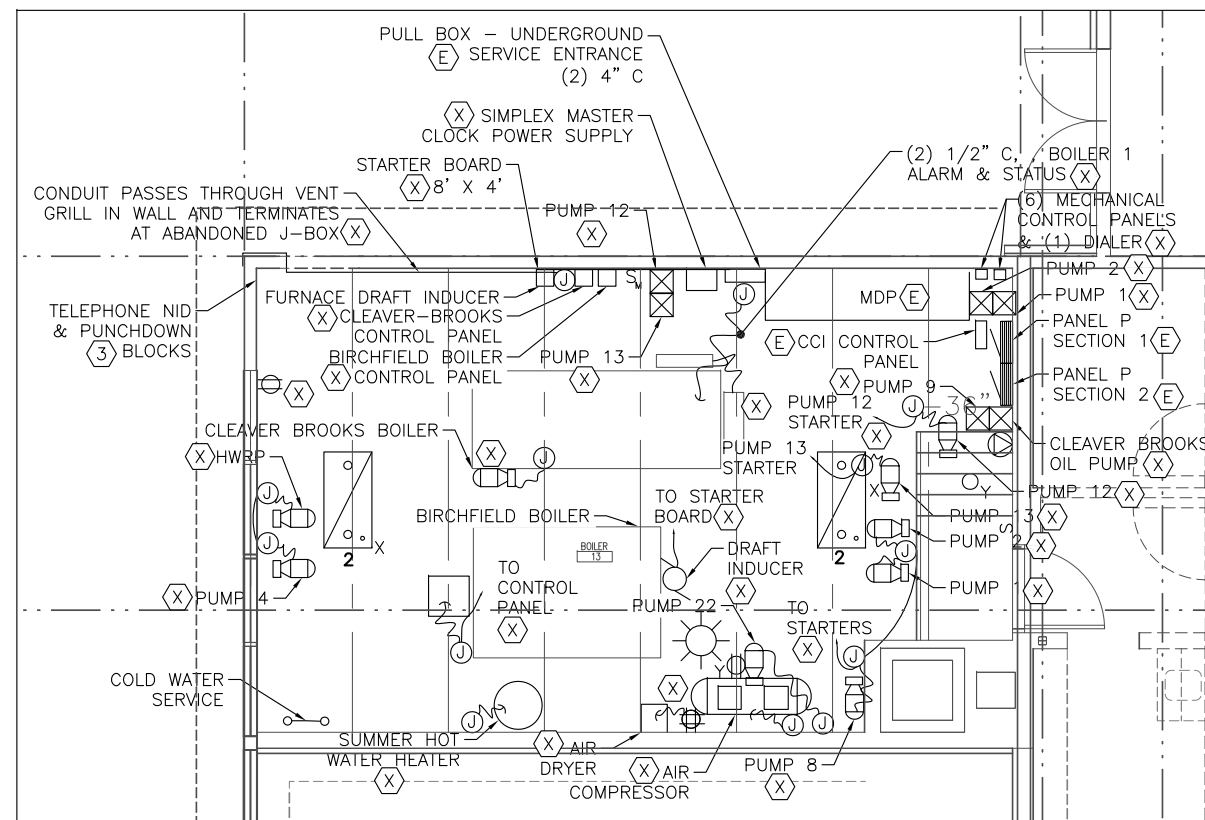
NOTES:

1. REMOVE ALL ELECTRICAL IN AREA D UNLESS OTHERWISE NOTED. INCLUDING RECEPTACLES, CONDUIT, WIRING, DEVICES, ETC.
2. ALL CABINET UNIT HEATERS (CUH-XX) CONTAIN A MOTOR AND MANUAL STARTER. REMOVE TOGETHER WITH ASSOCIATED ELECTRICAL EQUIPMENT, WIRING, AND CONDUIT.



1 AREA D - DEMOLITION PLAN - POWER  
1/8" = 1'-0" on 22 x 34  
1/16" = 1'-0" on 11 x 17



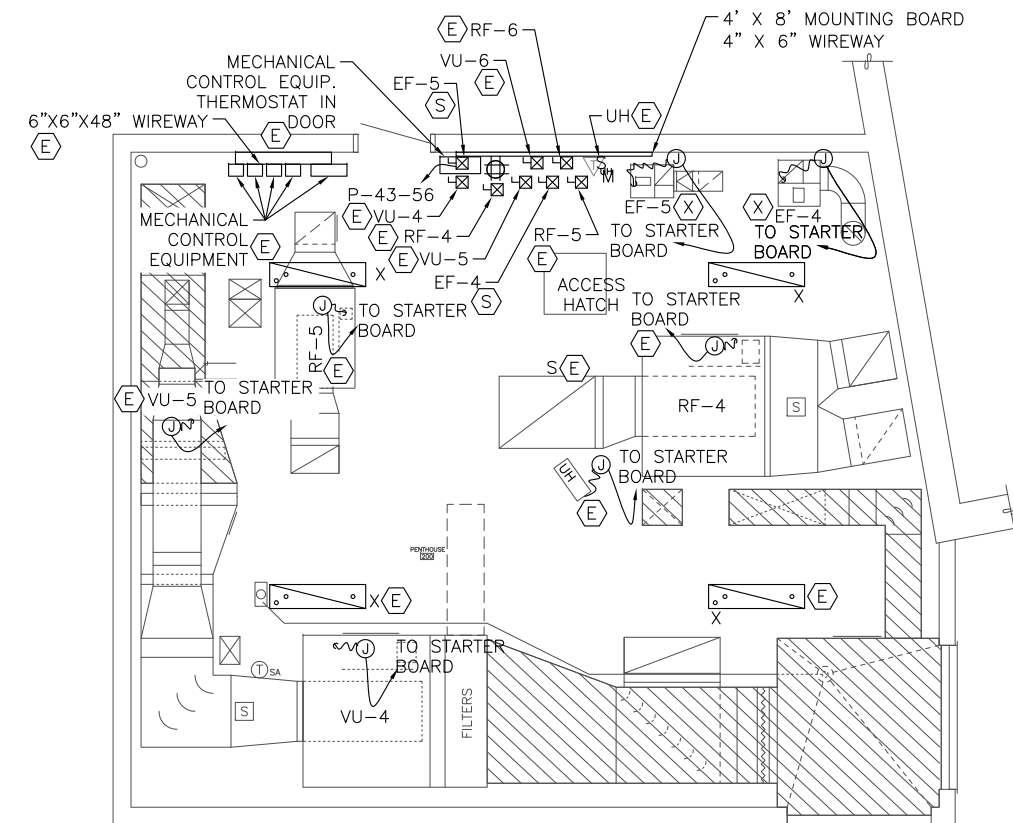


1 BOILER ROOM - DEMO PLAN - POWER

1/4" = 1'-0" on 22x34  
1/8" = 1'-0" on 11x17

NOTES:

1. IN SEASON 1, REMOVE THE ELECTRICAL FOR PUMP 1 AND PUMP 2 AND REPLACE WITH ELECTRICAL FOR P-1A AND P-1B. ALL OTHER DEMO TO OCCUR IN SEASON 2
2. REMOVE LUMINAIRES AND ASSOCIATED CIRCUITING BACK TO PANEL
3. EXISTING TELEPHONE DEMARK TO REMAIN. PROVIDE 25 PAIR CABLE FROM PUNCHDOWN BLOCK TO SERVER ROOM PUNCH DOWN BLOCK AS PART OF SEASON 1 WORK

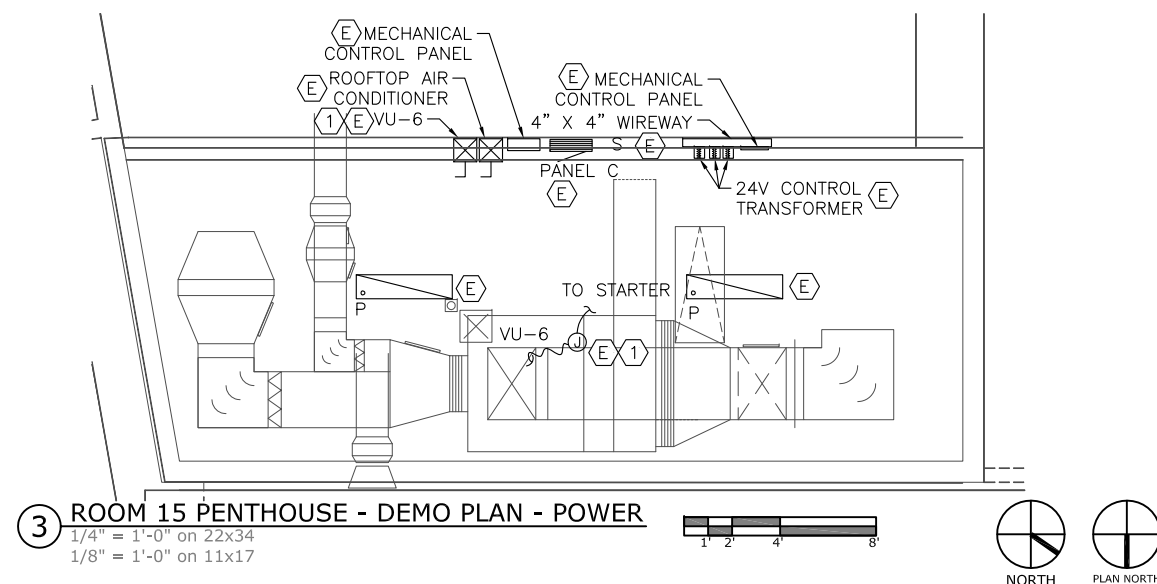


② PENTHOUSE 200 - DEMO PLAN POWER

1/4" = 1'-0" on 22x34  
1/8" = 1'-0" on 11x17

**NOTE:**

1. REMOVE MOTOR CONNECTION, AND ASSOCIATED CIRCUITING FOR EF-4 AND EF-5. RETAIN STARTER, CONDUIT AND CONDUCTORS BETWEEN WIREWAY AND PANEL J. RE-USE STARTERS FOR NEW EF-2 AND NEW P-5 SEE SHEET E2.4.

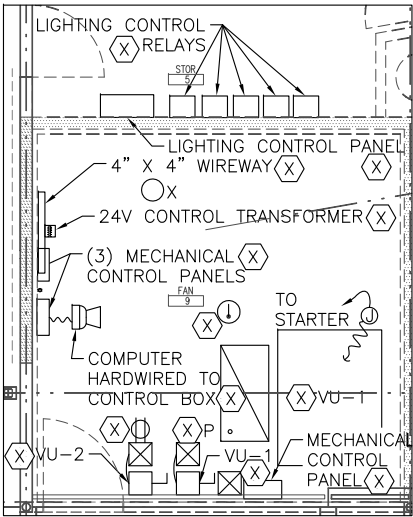


ROOM 15 PENTHOUSE - DEMO PLAN - POWER

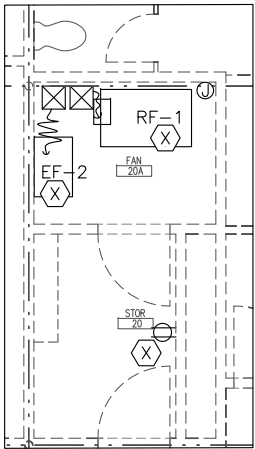
1/4" = 1'-0" on 22x34  
1/8" = 1'-0" on 11x17

NOTE:

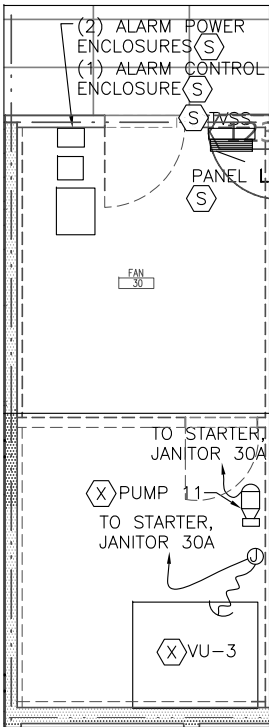
- 1 REPLACE THE VU-6 MOTOR AND STARTER WITH A NEW MOTOR AND VFD IN ALTERNATE NO. 6.



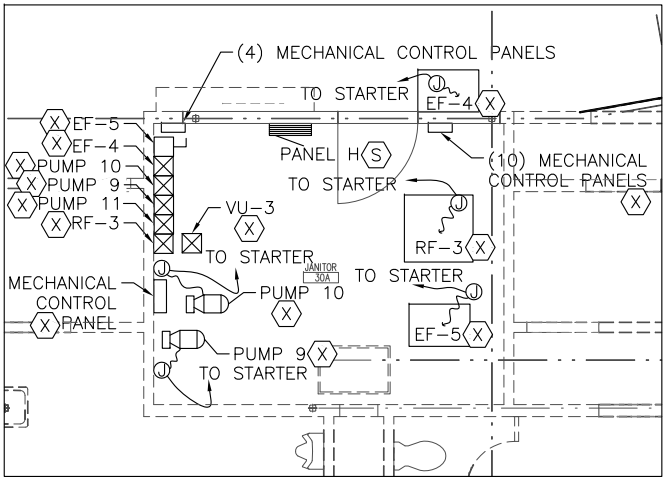
1 ROOMS 5 & 9 - DEMO PLAN - POWER  
 1/4" = 1'-0" on 22x34  
 1/8" = 1'-0" on 11x17



2 ROOM 20A - DEMO PLAN - POWER  
 1/4" = 1'-0" on 22x34  
 1/8" = 1'-0" on 11x17



3 ROOM 30 - DEMO PLAN - POWER  
 1/4" = 1'-0" on 22x34  
 1/8" = 1'-0" on 11x17

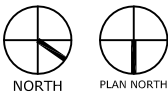


4 ROOM 30A - DEMO PLAN - POWER  
 1/4" = 1'-0" on 22x34  
 1/8" = 1'-0" on 11x17



NOTE:

1. REMOVE ALL ELECTRICAL FROM THESE ROOMS. SALVAGE EQUIPMENT AS SHOWN.



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GASTINEAU ELEMENTARY SCHOOL  
 RENOVATION  
 CBJ Contract No. E11-137  
 JUNEAU, ALASKA

SHEET TITLE:  
 ROOMS 5, 9, 20A,  
 30, & 30A DEMO  
 PLAN POWER

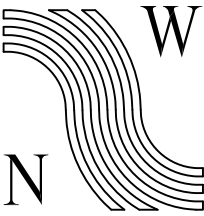
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SHEET #  
 E1.5



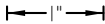


EXISTING MECHANICAL EQUIPMENT SCHEDULE								
EQUIPMENT	LOCATION	HP/KW	VOLTS/PH	STARTER TYPE/ NEMA SIZE	STARTER SWITCH	STARTER LOCATION	DISCONNECT AT MOTOR	REMARKS
EF-4 FAN<X>	RM 200	FRACTIONAL	120/1	COMBO/0<S>	HOA	RM 200	25/1	
EF-5 FAN<X>	RM 200	FRACTIONAL	120/1	COMBO/0<S>	HOA	RM. 200	25/1	
RF-4 FAN<E>	RM 200	2HP	208/3	COMBO/0	HOA	RM 200	25/3	
RF-5 FAN<E>	RM 200	FRACTIONAL	120/1	COMBO/0	HOA	RM 200	25/1	
VU-4 FAN<E>	RM 200		208/3	COMBO/1	HOA	RM 200	30/3	
VU-5 FAN<E>	RM 200		208/3	COMBO/0	HOA	RM 200	10/3	
UNIT HEATER<E>	RM 200		120/1					
VU-1 FAN<X>	RM 9	2HP	208/3	MAG/1		AT UNIT	MANUAL	
EF-2<X>	RM 20A		120/1	MAG/1HP		AT UNIT	20/1	
RF-1<X>	RM 20A		208/1	MAG/0		AT UNIT		
VU-3 FAN<X>	RM 30		208/3	MAG/0		RM 30A		
PUMP 11<X>	RM 30		120/1	MAG		RM 30A		
EF-4<X>	RM 30A	1-1/2HP	208/3	MAG		RM 30A		
EF-5<X>	RM 30A		120/1	MANUAL		RM 30A		
RF-3<X>	RM 30A					RM 30A		
PUMP 9<X>	RM 30A		120/1	MAG/1	HOA	RM 30A		
PUMP 10<X>	RM 30A		120/1	MAG/0		RM 30A		
AIR DRYER<X>	BOILER ROOM							
AIR COMPRESSOR<X>	BOILER ROOM		208/3					
BOILER (BIRCH)<X>	BOILER ROOM		208/3					
BOILER (CB)<X>	BOILER ROOM		208/3					
DRAFT INDUCER<X>	BOILER ROOM		208/1					
HOT WTR HTR<X>	BOILER ROOM		208/1	NONE			NONE	
HWRP<X>	BOILER ROOM	FRACTIONAL	120/1					
PUMP 1<X>	BOILER ROOM	1600W	208/3	MAG/0		AT UNIT	NONE	
PUMP 2<X>	BOILER ROOM	810W	208/3	MAG/0		AT UNIT	NONE	
PUMP 4<X>	BOILER ROOM	FRACTIONAL	120/1					
PUMP 8<X>	BOILER ROOM		208/3					
PUMP 12<X>	BOILER ROOM		120/1	MAG/0		AT UNIT	NONE	
PUMP 13<X>	BOILER ROOM		120/1	MAG/0		AT UNIT	NONE	
PUMP 22<X>	BOILER ROOM	3/4	120/1					
VU-6 FAN<E>	LIB. PENTHOUSE		208/3	MAG/1	HOA	AT UNIT	NONE	
AIR CONDITIONER<E>	ROOFTOP		208/3	MAG/3				



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GASTINEAU ELEMENTARY SCHOOL

RENOVATION

CBJ Contract No. E11-157  
JUNEAU, ALASKA

SHEET TITLE:  
EXISTING  
MECHANICAL  
EQUIP. SCHEDULE

DATE: NOV. 15, 2010

REVISION: .....

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DRAWN: DMP

SHEET #

E1.7

PANEL MDP EXTG			SIZE	VOLTS, PHASE		MOUNTING		MAIN	LOCATION	
			600A	120/208V, 3ϕ, 4W					BOILER ROOM	
CKT NO	DESCRIPTION	C/B SIZE	KVA					C/B SIZE	DESCRIPTION	CKT NO
			CKT	Aϕ	Bϕ	Cϕ	CKT			
1	PANEL P ⓔ	200/3						200/3	PANEL G ⓧ	2
3	----	----						----	----	4
5	----	----						----	----	6
7	PANEL J ⓔ	150/3						150/3	PANEL F ⓧ	8
9	----	----						----	----	10
11	----	----						----	----	12
13	PANEL M Ⓢ	100/3						200/3	PANEL C ⓔ	14
15	----	----						----	----	16
17	----	----						----	----	18
19	PANEL L Ⓢ	150/3							SPACE	20
21	----	----							SPACE	22
23	----	----							SPACE	24
25	PANEL A ⓧ	100/3						100/3	PANEL H Ⓢ	26
27	----	----						----	----	28
29	----	----						----	----	30
31	SPARE	100/3						90/3	PANEL D ⓧ	32
33	----	----						----	----	34
35	----	----						----	----	36
37	PANEL B ⓧ	70/3						70/3	PANEL X ⓧ	38
39	----	----						----	----	40
41	----	----						----	----	42

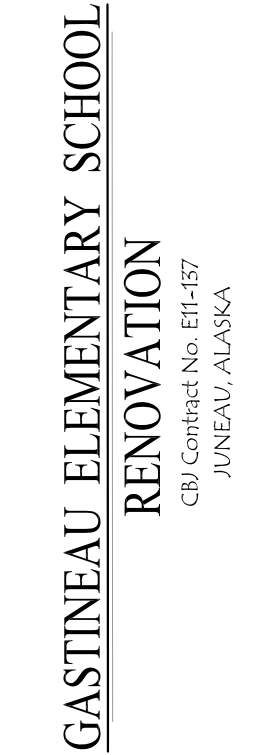
PANEL P SECTION 1 EXTG			SIZE	VOLTS, PHASE		MOUNTING		MAIN	LOCATION	
			225A	120/208VY 3Φ, 4W		SURFACE		LUGS	BOILER ROOM	
CKT NO	DESCRIPTION	C/B SIZE	KVA					C/B SIZE	DESCRIPTION	CKT NO
			CKT	AΦ	BΦ	CΦ	CKT			
1	CLEAVER BROOKS BOILER (X)	40/3	0.0				0.0	15/1	P-1 (X)	2
3	----	---	0.0				0.0	15/1	P-2 CONTACTOR (X)	4
5	----	---	0.0				0.0	15/1	P-22 (X)	6
7	BIRCH FIELD BOILER (X)	20/3	0.0				0.0	20/1	REC. BEHIND AIR COMPRESSOR (X)	8
9	----	---	0.0				0.0	15/1	P-4 (X)	10
11	----	---	0.0				0.0	20/1	CONTROL - BIRCH FIELD BOILER (X)	12
13	CONTROL - CLEAVER BROOKS BLR (X)	20/1	0.0				0.0	20/2	FAN ROOM 9, VU-2 (X)	14
15	P-12 (X)	20/1	0.0				0.0	---	----	16
17	P-13 (X)	20/1	0.0				0.0		SPACE	18
19	DRAFT INDUCER - BIRCHFIELD BLR (X)	20/2	0.0				0.0	20/2	FAN ROOM 20A, RF-1 (X)	20
21	----	---	0.0				0.0	---	----	22
23	CCI COMPUTER CONTROL (E)	20/1	0.0				0.0	20/1	FAN ROOM 20A, EF-2 (X)	24
25	SPARE	15/3	0.0				0.0	15/3	FAN ROOM 9, VU-1 (X)	26
27	----	---	0.0				0.0	---	----	28
29	----	---	0.0				0.0	---	----	30
31	SPACE		0.0				0.0	20/3	MASTER CLOCK SIMPLEX BOILER (X)	32
33	P-6 (X)	15/1	0.0				0.0	---	----	34
35	SPACE		0.0				0.0	---	----	36
37	AIR COMPRESSORS NO. 12 (X)	20/3	0.0				0.0	20/1	MASTER CLOCK OFFICE (X)	38
39	----	---	0.0				0.0	30/2	HOT WATER TANK (X)	40
41	----	---	0.0				0.0	---	----	42

PANEL P		SECTION 2		EXTG		SIZE	VOLTS, PHASE		MOUNTING		MAIN	LOCATION	
						225A	120/208VY 3Φ, 4W		SURFACE		LUGS	BOILER ROOM	
CKT NO	DESCRIPTION	C/B SIZE	KVA					C/B SIZE	DESCRIPTION	CKT NO			
			CKT	AΦ	BΦ	CΦ	CKT						
43	VU-4 (E)	15/3	0.0				0.0	20/3	RF-4 (E)	44			
45	----	---	0.0				0.0	---	----	46			
47	----	---	0.0				0.0	---	----	48			
49	VU-5 (E)	15/3	0.0				0.0	20/1	RF-5 (E)	50			
51	----	---	0.0				0.0	20/1	RF-6 (E)	52			
53	----	---	0.0				0.0	20/1	EF-4 (X)	54			
55	VU-6, PDC CONTROLS MZ-11,12,13,14 (E)	20/1	0.0				0.0	20/1	EF-5 (X)	56			
57	CUH-1 (E) & DRINKING FOUNTAIN (X)	15/1	0.0				0.0	20/1	UH FAN ROOM (E)	58			
59	CUH-2 (X)	15/1	0.0				0.0	20/1	LGT FAN ROOM 200 (E)	60			
61	REC. (E)	15/3	0.0				0.0	20/1	2 DUPLEX REC FOR 200 (E)	62			
63	RIGHT OF PANEL (E)	---	0.0				0.0	20/1	SPARE	64			
65	SPARE	---	0.0				0.0	20/1	SPARE	66			
67	PUMP 8 (X)	15/3	0.0				0.0	20/2	PARKING LOT LIGHTS (E)	68			
69	----	---	0.0				0.0	---	----	70			
71	----	---	0.0				0.0		SPACE	72			
73	PUMP 1 - POWER (X)	15/3	0.0				0.0		SPACE	74			
75	----	---	0.0				0.0		SPACE	76			
77	----	---	0.0				0.0		SPACE	78			
79	PUMP 2 (X)	15/3	0.0				0.0	20/3	SPARE	80			
81	----	---	0.0				0.0	---	----	82			
83	----	---	0.0				0.0	---	----	84			



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SHEET TITLE:  
PANEL SCHEDULES  
EXISTING  
BOILER ROOM

DATE: NOV. 15, 2010  
REVISION: ....  
CHECKED BY: MGM  
DRAWN: DMP

SHEET #

PANEL C    EXTG		SIZE	VOLTS, PHASE		MOUNTING		MAIN	LOCATION		
		225A	120/208V, 3φ, 4W		SURFACE		200/3	PENTHOUSE ABOVE RM 15		
CKT NO	DESCRIPTION	C/B SIZE	KVA					C/B SIZE	DESCRIPTION	CKT NO
			CKT	Aφ	Bφ	Cφ	CKT			
1	ROOF TOP AC FOR LIBRARY	125/3						20/1	UNKNOWN	2
3	-----	----						20/1	UNKNOWN	4
5	-----	----						20/1	UNKNOWN	6
7	-----	----						20/1	UNKNOWN	8
9	-----	----						20/1	UNKNOWN	10
11	-----	----						20/1	UNKNOWN	12
13	VU-6	50/3						20/1	UNKNOWN	14
15	-----	----						20/1	UNKNOWN	16
17	-----	----						20/1	UNKNOWN	18
19	UNKNOWN	20/1						20/1	UNKNOWN	20
21	UNKNOWN	20/1						70/3	PANEL CR	22
23	UNKNOWN	20/1						----	-----	24
25	PLUG MOLD LIBRARY	20/1						----	-----	26
27	PLUG MOLD LIBRARY	20/1							SPACE	28
29	SPACE								SPACE	30
31	SPACE								SPACE	32
33	SPACE								SPACE	34
35	SPACE								SPACE	36
37	SPACE								SPACE	38
39	SPACE								SPACE	40
41	SPACE								SPACE	42

PANEL CR    EXTG			SIZE	VOLTS, PHASE		MOUNTING		MAIN		LOCATION	
			225A	120/208V, 3Φ, 4W		FLUSH		LUGS		ROOM 15	
CKT NO	DESCRIPTION	C/B SIZE	KVA					C/B SIZE	DESCRIPTION	CKT NO	
			CKT	AΦ	BΦ	CΦ	CKT				
1	21,22	20/1						20/1	L 1,2	2	
3	17–27	20/1						20/1	L 3–6	4	
5	15,16	20/1						20/1	L 7–10	6	
7	9,10,23,24	20/1						20/1	PRINTER	8	
9	11–14	20/1						20/1	VAC P SERV	10	
11	1–4	20/1						20/1	DESK	12	
13	5,8	20/1						20/1	SERV	14	
15	25,26,29,30	20/1							SPACE	16	
17	27,28	20/1							SPACE	18	
19	TV	20/1							SPACE	20	
21	FLOOR REC LIBRARY	20/1							SPACE	22	
23	2								SPACE	24	
25	SPACE								SPACE	26	
27	SPACE								SPACE	28	
29	SPACE								SPACE	30	
31	SPACE								SPACE	32	
33	SPACE								SPACE	34	
35	SPACE								SPACE	36	
37	SPACE							30/3	TVSS	38	
39	SPACE							---	----	40	
41	SPACE							---	----	42	

PANEL J    EXTG		SIZE	VOLTS, PHASE		MOUNTING		MAIN	LOCATION		
		225A	120/208V, 3Φ, 4W		FLUSH		LUGS	GYMNASIUM		
CKT NO	DESCRIPTION	C/B SIZE	KVA					C/B SIZE	DESCRIPTION	CKT NO
			CKT	AΦ	BΦ	CΦ	CKT			
1	PANEL NANA ROOM 5	100/3						20/1	KITCHEN LIGHTING, STORAGE 103, 104	2
3	-----	---						20/1	CORRIDOR 105, ENTRY	4
5	-----	---						20/1	MULTIPURPOSE ROOM	6
7	REFRIGERATOR	20/1						20/1	MULTIPURPOSE ROOM	8
9	MILK COOLER	20/1						20/2	MULTIPURPOSE ROOM	10
11	KITCHEN COUNTER (GFI)	20/1						---	-----	12
13	KITCHEN COUNTER (GFI)	20/1						20/1	COVERED PLAY AREA	14
15	UNKNOWN	20/1						20/1	COVERED PLAY AREA	16
17	STORAGE 103, 104, JAN OFF, EXT	20/1						20/1	COVERED PLAY AREA	18
19	CORRIDOR 109, STORAGE	20/1						20/1	PLAY AREA FLOOD LIGHTS	20
21	FREEZER #5	20/1						20/1	RM. 110, 119, ALCOVE ABOVE RM 120	22
23	HOT WATER HEATER	20/1						20/1	CORRIDOR 109	24
25	-----	30/2						20/1	CORRIDOR 112, 118	26
27	OFFICE 120, STORAGE 119	---						20/1	JANITOR OFFICE & STORAGE	28
29	MULTIPURPOSE ROOM	20/1						20/1	COMPUTER ROOM #1	30
31	MUSIC ROOM (ALT)	20/1						20/1	EXTERIOR WEST & NORTH	32
33	STORAGE 122, 123, 124 (ALT)	20/1						20/1	EXTERIOR EAST	34
35	COVERED PLAY AREA (GFI)	20/1						20/1		36
37	PROJECTION	20/1						20/1	MUSIC ROOM (ALT)	38
39	UNKNOWN	20/1						20/1	STORAGE 122, 123, 124 (ALT)	40
41	REFRIGERATOR	20/1							SPACE	42

PANEL NANA EXTG			SIZE	VOLTS, PHASE		MOUNTING		MAIN	LOCATION	
			100A	120/208V, 3φ, 4W		SURFACE		200/3	ROOM 5	
CKT NO	DESCRIPTION	C/B SIZE	KVA					C/B SIZE	DESCRIPTION	CKT NO
			CKT	Aφ	Bφ	Cφ	CKT			
1	TOP RECEPTACLE NANA OVEN	50/3							SPACE	2
3	-----	----							SPACE	4
5	-----	----							SPACE	6
7	BOTTOM RECEPTACLE NANA OVEN	50/3							SPACE	8
9	-----	----							SPACE	10
11	-----	----							SPACE	12
13	NANA STEAM TABLE RECEPTACLE	30/2							SPACE	14
15	-----	----							SPACE	16
17	SPACE								SPACE	18



1"=

IF THE ABOVE DIMENSION DOES NOT EQUAL EXACTLY 1", THIS DRAWING HAS BEEN ENLARGED OR REDUCED, AFFECTING ALL LABELED SCALES

GASTINEAU ELEMENTARY SCHOOL  
RENOVATION  
CBJ Contract No. E11-157  
JUNEAU, ALASKA

SHEET TITLE:  
PANEL SCHEDULES  
EXISTING  
C, CR, J, & NANA

DATE: NOV. 15, 2010  
REVISION: ....  
CHECKED BY: MGM  
DRAWN: DMP

PANEL M EXTG		SIZE	VOLTS, PHASE		MOUNTING		MAIN	LOCATION		
		225A	120/208V, 3ϕ, 4W		FLUSH		LUGS	STAFF LDUNGE RM. 18		
CKT NO	DESCRIPTION	C/B SIZE	KVA				C/B SIZE	DESCRIPTION	CKT NO	
			CKT	Aϕ	Bϕ	Cϕ				CKT
1	ROOM 24 COMPUTERS	20/1						20/1	ROOM 21 COMPUTERS	2
3	ROOM 24 PRINTER/TV/VCR/PROJEC	20/1						20/1	ROOM 21 PRINTER/TV/VCR/PROJEC	4
5	ROOM 22A COMPUTERS	20/1						20/1	MUSIC 8 COMPUTER/TV/VCR/PROJEC	6
7	ROOM 22A PRINTER/TV/VCR/PROJEC	20/1						20/1	MUSIC 8 PRINTER/COMPUTERS	8
9	ROOM 22 COMPUTERS	20/1						20/1	LIBRARY CIRC. DESK	10
11	ROOM 22 PRINTER/TV/VCR/PROJEC	20/1						20/1	SPARE	12
13	ROOM 23 PRINTER/TV/VCR/PROJEC	20/1						20/1	SPARE	14
15	ROOM 23 COMPUTERS	20/1						20/1	SPARE	16
17	SPARE	20/1							SPACE	18
19	SPARE	20/1							SPACE	20
21	SPARE	20/1							SPACE	22
23	SPARE	20/1							SPACE	24
25	SPARE	20/1							SPACE	26
27	SPARE	20/1							SPACE	28
29	SPARE	20/1							SPACE	30
31	SPARE	20/1							SPACE	32
33	SPARE	20/1							SPACE	34
35	SPARE	20/1							SPACE	36
37	SPACE							30/3	TVSS	38
39	SPACE							---	----	40
41	SPACE							---	----	42

PANEL H    EXTG		SIZE	VOLTS, PHASE		MOUNTING		MAIN	LOCATION		
		225A	120/208V, 3ϕ, 4W		SURFACE		LUGS	JANITOR 30A		
CKT NO	DESCRIPTION	C/B SIZE	KVA					C/B SIZE	DESCRIPTION	CKT NO
			CKT	Aϕ	Bϕ	Cϕ	CKT			
1	SPARE	20/1						20/3	VENTILATING UNITS 3	2
3	EXHAUST FAN #5	20/1						----	----	4
5	EMCS SYSTEM	20/1						----	----	6
7	EXHAUST FAN #4	20/3						20/1	EMCS SYSTEM	8
9	----	----						20/3	CIRC PUMP 11	10
11	----	----						----	----	12
13	CF-02 NEW FAN	15/3						----	----	14
15	----	----						20/1	SPARE	16
17	----	----						20/1	SPARE	18
19	PUMP 10	15/1						20/1	SPARE	20
21	PUMP 9	15/1						20/1	FIRE ALARM HORN	22
23	SPARE	20/1						20/1	SPARE	24
25	OUTSIDE BACK EM LIGHTS	20/1						20/1	SPARE	26
27	OUTSIDE BACK EM LIGHTS	20/1						20/1	SPARE	28
29	OUTSIDE BACK EM LIGHTS	20/1						20/1	SPARE	30
31	SPARE	20/1						15/1	38 CUH-1	32
33	SPARE	20/1						15/1	37 CUH-1	34
35	CLASSROOM 34, CU H-1	15/1						15/1	40 CUH-1	36
37	CLASSROOM 33	15/1						15/1	39 CUH-1	38
39	CLASSROOM 36	15/1						15/1	41 CUH-1	40
41	CLASSROOM 35	15/1						15/1	42 CUH-1	42

PANEL L EXTG		SIZE	VOLTS, PHASE		MOUNTING		MAIN	LOCATION		
		225A	120/208V, 3ϕ, 4W		SURFACE		LUGS	STORAGE 30		
CKT NO	DESCRIPTION	C/B SIZE	KVA					C/B SIZE	DESCRIPTION	CKT NO
			CKT	Aϕ	Bϕ	Cϕ	CKT			
1	ROOM 42 COMPUTERS	20/1						20/1	ROOM 41 PRINTER/TV/VCR/PROJEC	2
3	ROOM 42 PRINTER/TV/VCR/PROJEC	20/1						20/1	ROOM 41 COMPUTERS	4
5	ROOM 40 COMPUTERS	20/1						20/1	ROOM 39 PRINTER/TV/VCR/PROJEC	6
7	ROOM 40 PRINTER/TV/VCR/PROJEC	20/1						20/1	ROOM 39 COMPUTERS	8
9	ROOM 38 COMPUTERS	20/1						20/1	ROOM 37 PRINTER/TV/VCR/PROJEC	10
11	ROOM 38 PRINTER/TV/VCR/PROJEC	20/1						20/1	ROOM 37 COMPUTERS	12
13	ROOM 36 COMPUTERS	20/1						20/1	ROOM 35 COMPUTERS/PROJEC	14
15	ROOM 36 PRINTER/TV/VCR/PROJEC	20/1						20/1	ROOM 35 PRINTER/TV/VCR/PROJEC	16
17	ROOM 34 COMPUTERS	20/1						20/1	ROOM 33 PRINTER/TV/VCR/PROJEC	18
19	ROOM 34 PRINTER/TV/VCR/PROJEC	20/1						20/1	ROOM 33 COMPUTERS	20
21	TYPING LAB 32 COMPUTERS	20/1						20/1	ROOM 31 PRINTER/TV/VCR/PROJEC	22
23	TYPING LAB 32 COMPUTERS	20/1						20/1	ROOM 31 COMPUTERS	24
25	TYPING LAB 32 COMPUTERS	20/1						20/1	ROOM 29 PRINTER/TV/VCR/PROJEC	26
27	TYPING LAB 32 COMPUTERS	20/1						20/1	ROOM 29 COMPUTERS	28
29	TYPING LAB 32 COMPUTERS	20/1						20/1	ROOM 27 PRINTER/TV/VCR/PROJEC	30
31	TYPING LAB 32 PRINTER/TV/VCR/COM	20/1						20/1	ROOM 27 COMPUTERS	32
33	TYPING LAB 32 COMPUTERS	20/1						20/1	ROOM 25 PRINTER/TV/VCR/PROJEC	34
35	ROOM 28 COMPUTERS	20/1						20/1	ROOM 25 COMPUTERS	36
37	ROOM 28 PRINTER/TV/VCR/PROJEC	20/1						30/3	TVSS	38
39	ROOM 26 COMPUTERS	20/1						---	----	40
41	ROOM 26 PRINTER/TV/VCR/PROJEC	20/1						---	----	42

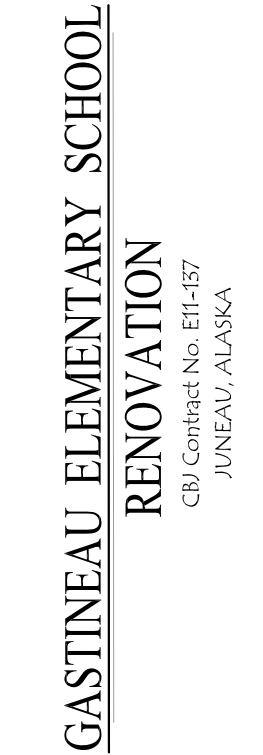
NOTE:

1. REMOVE ALL CIRCUITS TO PANELS M, L, AND H.



1"=

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SHEET TITLE:  
PANEL SCHEDULES  
EXISTING  
M, H, & L

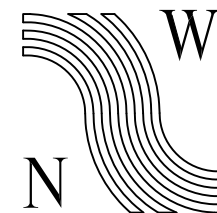
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E1.10



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GASTINEAU ELEMENTARY SCHOOL  
RENOVATION  
CBJ Contract No. E11-137  
JUNEAU, ALASKA

SHEET TITLE:  
AREA A  
DEMO PLAN  
LIGHTING

DATE: NOV. 15, 2010

REVISION: ....

CHECKED BY: MGM

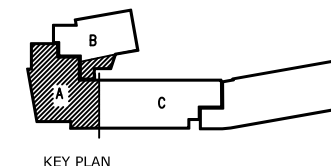
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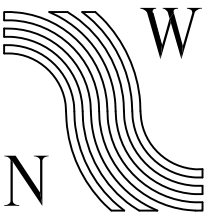
SHEET #  
E1.11



NOTES:

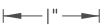
1. REMOVE ALL ELECTRICAL IN AREA A UNLESS NOTED OTHERWISE, INCLUDING LIGHTS, SWITCHES, CONDUIT, DEVICES, ETC.
2. EXISTING LIGHTING TO REMAIN.
3. REMOVE AND SALVAGE LUMINAIRES IN LIBRARY WORK ROOM, REINSTALL LUMINAIRES IN READING ROOM 148B AND LIBRARY WORK ROOM 148A. REMOVE EXISTING SWITCHING AND CIRCUITING. SEE SHEET E3.0.
4. REMOVE LUMINAIRE, RETAIN WIRING.
5. REMOVE, SALVAGE, AND REINSTALL LUMINAIRES. SEE SHEET E3.1. REMOVE WIRING AND CONDUIT. PATCH AND PAINT TO MATCH SURFACES WHERE EQUIPMENT WAS INSTALLED.
6. REMOVE LIGHTING RELAYS AND LIGHTING CONTROL PANEL. PROVIDE JUNCTION BOXES ON CEILING. RE-ROUTE EXISTING LIGHTING CIRCUITS FED BY RELAYS INTO JUNCTION BOXES. REFEED THE EXISTING LIGHTING CIRCUITS. PROVIDE NEW WIRING FROM THESE JUNCTION BOXES TO NEW LIGHTING CONTACTORS. PROVIDE NEW CONDUIT AND CONDUCTORS FROM CONTACTORS TO THE PANEL FEEDING THEM. SEE LIGHTING SCHEMATICS SHEETS E3.5 - E3.8.





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RENOVATION  
CBJ Contract No. E11-137  
JUNEAU, ALASKA

SHEET TITLE:

AREA B  
DEMO PLAN  
LIGHTING

DATE: NOV. 15, 2010

REVISION: .....

CHECKED BY: MGM

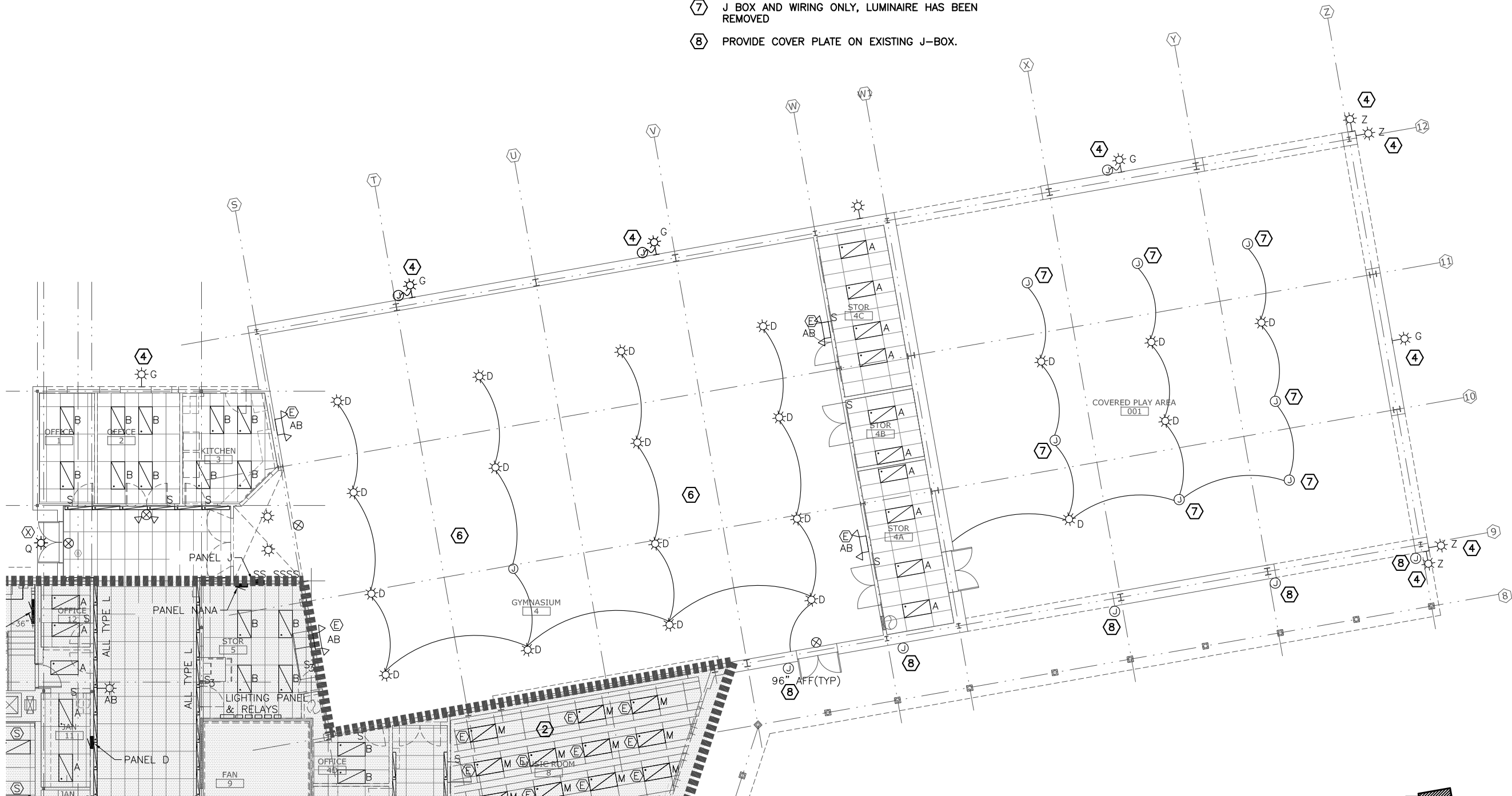
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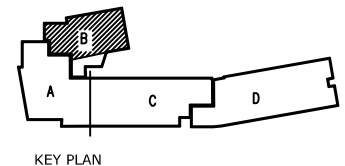
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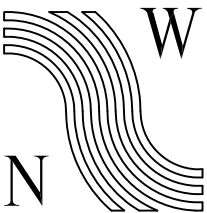
NOTES:

1. REMOVE ALL ELECTRICAL IN AREA B UNLESS NOTED OTHERWISE. INCLUDING LIGHTS, SWITCHES CONDUIT, DEVICES, ETC.
2. EXISTING LIGHTING TO REMAIN
3. NOT USED
4. REMOVE LUMINAIRE, RETAIN CONDUCTORS
5. NOT USED
6. REPLACE TYPE D LUMINAIRES IN GYM UNDER ALTERNATE NO 5. LIGHTING TO REMAIN IN BASE BID. REPLACE SWITCHING AS SHOWN. SEE GYM LIGHTING SCHEMATICS, SHEETS E3.5 & E3.8.
7. J BOX AND WIRING ONLY, LUMINAIRE HAS BEEN REMOVED
8. PROVIDE COVER PLATE ON EXISTING J-BOX.



1 AREA B - DEMO PLAN - LIGHTING  
1/8" = 1'-0" on 22 x 34  
1/16" = 1'-0" on 11 x 17





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GASTINEAU ELEMENTARY SCHOOL  
RENOVATION  
CBJ Contract No. E11-137  
JUNEAU, ALASKA

SHEET TITLE:  
AREA C  
DEMO PLAN  
LIGHTING

DATE: NOV. 15, 2010

REVISION: ....

CHECKED BY: MGM

DRAWN: DMP

SHEET #  
E1.13

NOTES:

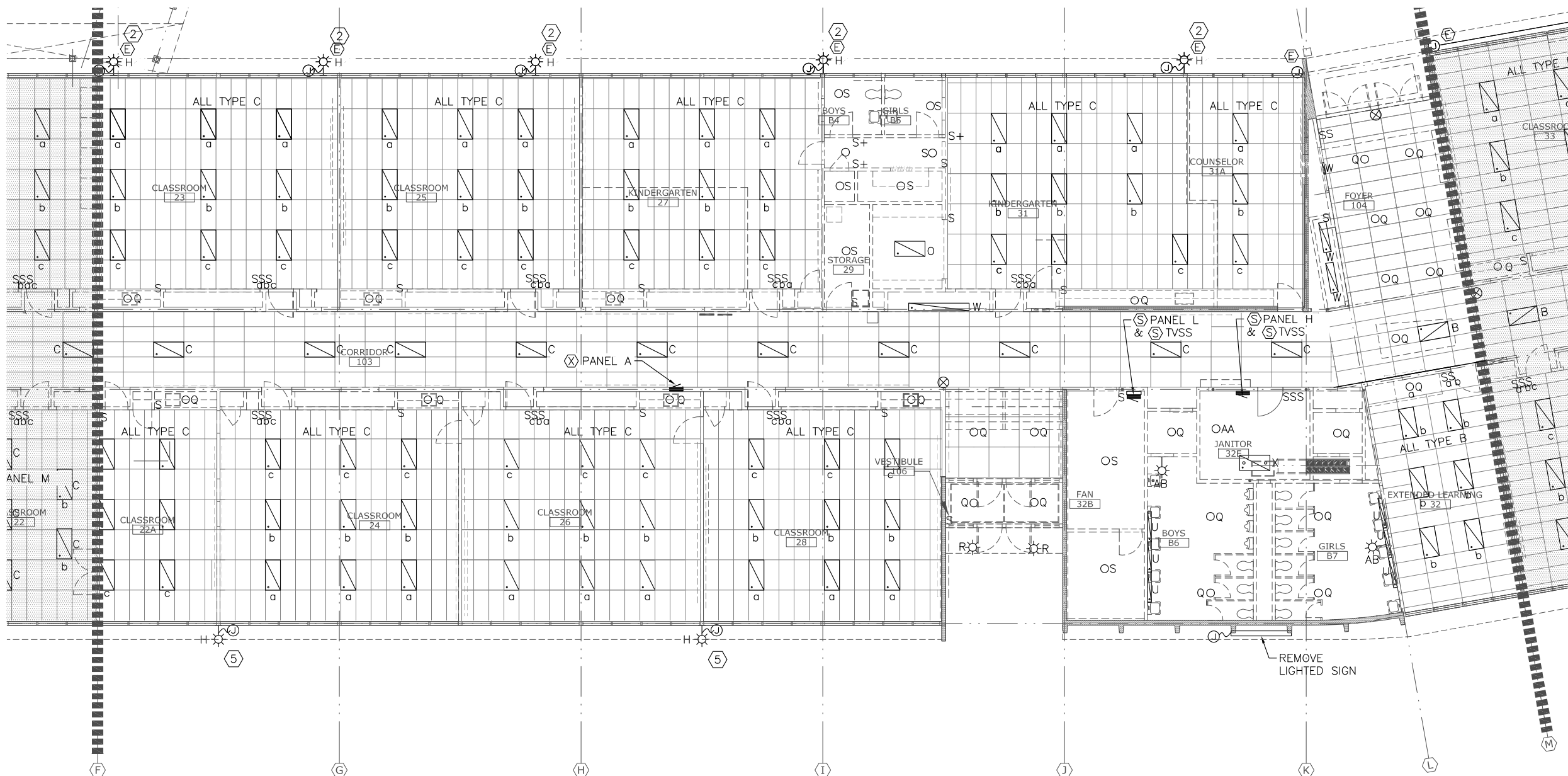
1. REMOVE ALL ELECTRICAL IN AREA C UNLESS NOTED OTHERWISE. INCLUDING SWITCHES, CONDUIT, DEVICES, ETC.

2 EXISTING LIGHTING TO REMAIN

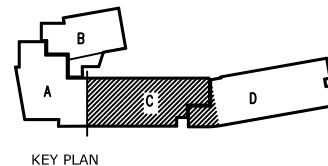
3 NOT USED

4 NOT USED

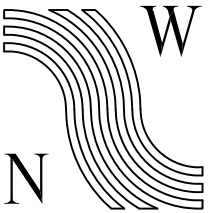
5 REMOVE, SALVAGE, AND REINSTALL LUMINAIRES. SEE SHEET E3.1. REMOVE WIRING AND CONDUIT. PATCH AND PAINT SURFACES WHERE EQUIPMENT WAS INSTALLED.



1 AREA C - DEMO PLAN LIGHTING  
1/8" = 1'-0" on 22 x 34  
1/16" = 1'-0" on 11 x 17

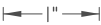






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GASTINEAU ELEMENTARY SCHOOL  
RENOVATION  
CBJ Contract No. E11-137  
JUNEAU, ALASKA

SHEET TITLE:  
AREA D  
DEMO PLAN  
LIGHTING

DATE: NOV. 15, 2010

REVISION: ....

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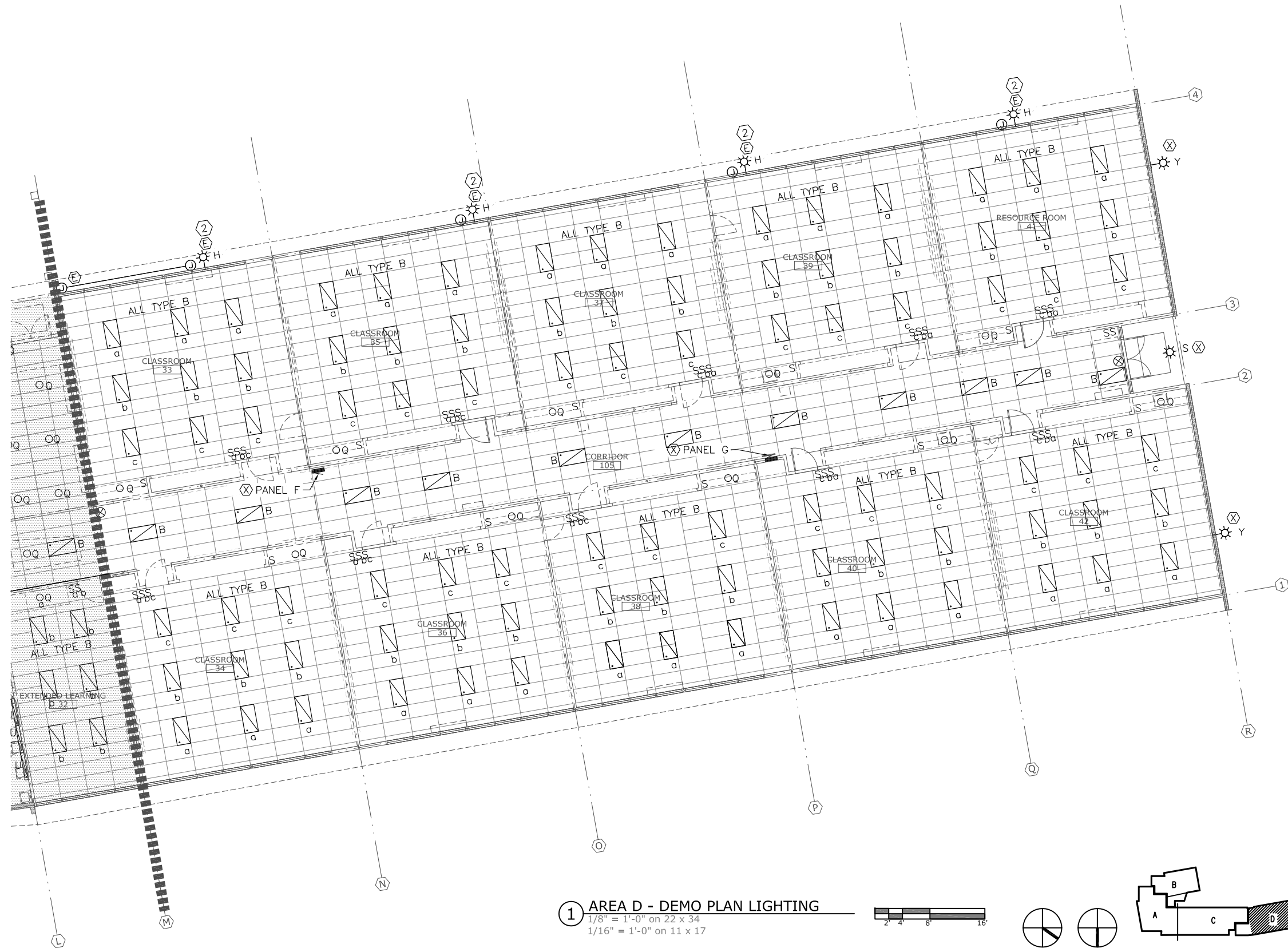
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SHEET #  
E1.14

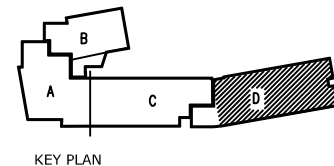
NOTES:

1. REMOVE ALL ELECTRICAL IN AREA D UNLESS NOTED OTHERWISE. INCLUDING LIGHTS, SWITCHES, CONDUIT, DEVICES ETC.

2. EXISTING LIGHTING TO REMAIN

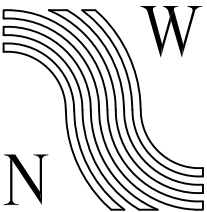


1 AREA D - DEMO PLAN LIGHTING  
1/8" = 1'-0" on 22 x 34  
1/16" = 1'-0" on 11 x 17



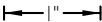
EXISTING LUMINAIRE SCHEDULE				
TYPE	DESCRIPTION	MANUFACTURER	LAMPS	REMARKS
A	2X4 FLUORESCENT LENS TROFFER	EXISTING	(2) 40W T12 OR (2) 32W T8	
B	2X4 FLUORESCENT LENS TROFFER	EXISTING	(3) 40W T12 OR (3) 32W T8	
C	2X4 FLUORESCENT LENS TROFFER	EXISTING	(4) 40W T12 OR (4) 32W T8	
D	HIGH BAY PENDANT INDUSTRIAL	EXISTING	(1) 400W MH	
F	PENDANT LIGHT, INVERTED DOME LENS	EXISTING	(1) 400W MH	
G	EXTERIOR WALL MOUNTED AREA LIGHT FIXTURE	EXISTING		SEE NOTE 7
H	EXTERIOR WALL MOUNTED AREA LIGHT FIXTURE	LITHONIA TWAC	(1) HPS	
J	5" ROUND RECESSED DOWN LIGHT	EXISTING	INCANDESCENT	
K	PENDANT INDIRECT LINEAR ARCHITECTURAL FLUORESCENT FIXTURE	EXISTING	(2) 32W T8	
L	PERIMETER WALL WASH. STRIP FIXTURES W/ SMALL-CELL GRILL	EXISTING	(2) 40W T12	SEE NOTE 1
M	2X4 PARABOLIC TROFFER, 3X8 CELL GRID	EXISTING	(3) 40W T12	
N				
O	1X4 SURFACE MOUNT FLUORESCENT W/ LENS	EXISTING	(2) 40W T12	
P	2X4 SURFACE MOUNT FLUORESCENT W/ LENS	EXISTING	(VARIES) 40W T12	
Q	12"X12" RECESSED DOWN LIGHT	EXISTING	(1) INCANDESCENT OR COMPACT FLUORESCENT	
R	10"X10" SURFACE MOUNT AREA LIGHT	EXISTING	(1) INCANDESCENT OR COMPACT FLUORESCENT	
S	10" ROUND SURFACE MOUNT AREA LIGHT	EXISTING	(1) INCANDESCENT OR COMPACT FLUORESCENT	
T	2' FLUORESCENT WALL MOUNT CONTEMPORARY W/ LENS	EXISTING	(1) 20W T12	
U	4' FLUORESCENT DIRECT/INDIRECT WALL MOUNT W/ PLEXIGLAS SHIELD	EXISTING	(2) 40W T12	
V	UTILITARIAN WALL MOUNT	EXISTING	(1) INCANDESCENT OR COMPACT FLUORESCENT	SEE NOTE 2
W	FLUORESCENT STRIP	EXISTING	(1) VARIES	SEE NOTE 3
X	FLUORESCENT PENDANT	EXISTING	(2) 40W T12	SEE NOTE 4
Y	PENDANT DOWN LIGHT	EXISTING	INCANDESCENT	SEE NOTE 4
Z	FLOOD LIGHT WALL MOUNT	EXISTING	(1) 400W MH	
AA	WALL MOUNT	EXISTING	(1) INCANDESCENT OR COMPACT FLUORESCENT	SEE NOTE 5
	WALL MOUNT EMERGENCY LIGHTS	EXISTING	VARIES	SEE NOTE 6

- NOTES:
1. TYPE L LUMINAIRES ARE MOUNTED ON THE WALL ABOVE THE SUSPENDED CEILING.
  2. WALL MOUNT BATHROOM FIXTURES, SOME WITH UNGROUNDED OUTLETS. SIZE VARIES.
  3. SINGLE TUBE FLUORESCENT STRIP LIGHTS, USED IN DISPLAY ALCOVES AND CABINETS. LENGTH AND LAMP WATTAGE VARIES.
  4. HANGING INDUSTRIAL FIXTURES, SOME WITH WIRE GUARDS. USED IN BOILER, STORAGE & JANITORIAL SPACES.
  5. BARE LAMP. FOUND IN MECHANICAL AND STORAGE SPACES. LUMINAIRE TYPE VARIES.
  6. THERE ARE A NUMBER OF SIMILAR WALL MOUNTED EMERGENCY LIGHTS.
  7. THERE ARE SEVERAL DIFFERENT WALL MOUNT LUMINAIRES WITH DIFFERENT LAMPS.



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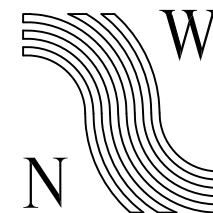
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GASTINEAU ELEMENTARY SCHOOL  
RENOVATION  
C&J Contract No. E11-157  
JUNEAU, ALASKA

SHEET TITLE:  
EXISTING LUMINAIRE SCHEDULE

DATE: NOV. 15, 2010  
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E1.15



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RENOVATION  
CBJ Contract No. E11-137  
JUNEAU, ALASKA

SHEET TITLE:  
AREA A  
DEMO PLAN  
SIGNAL

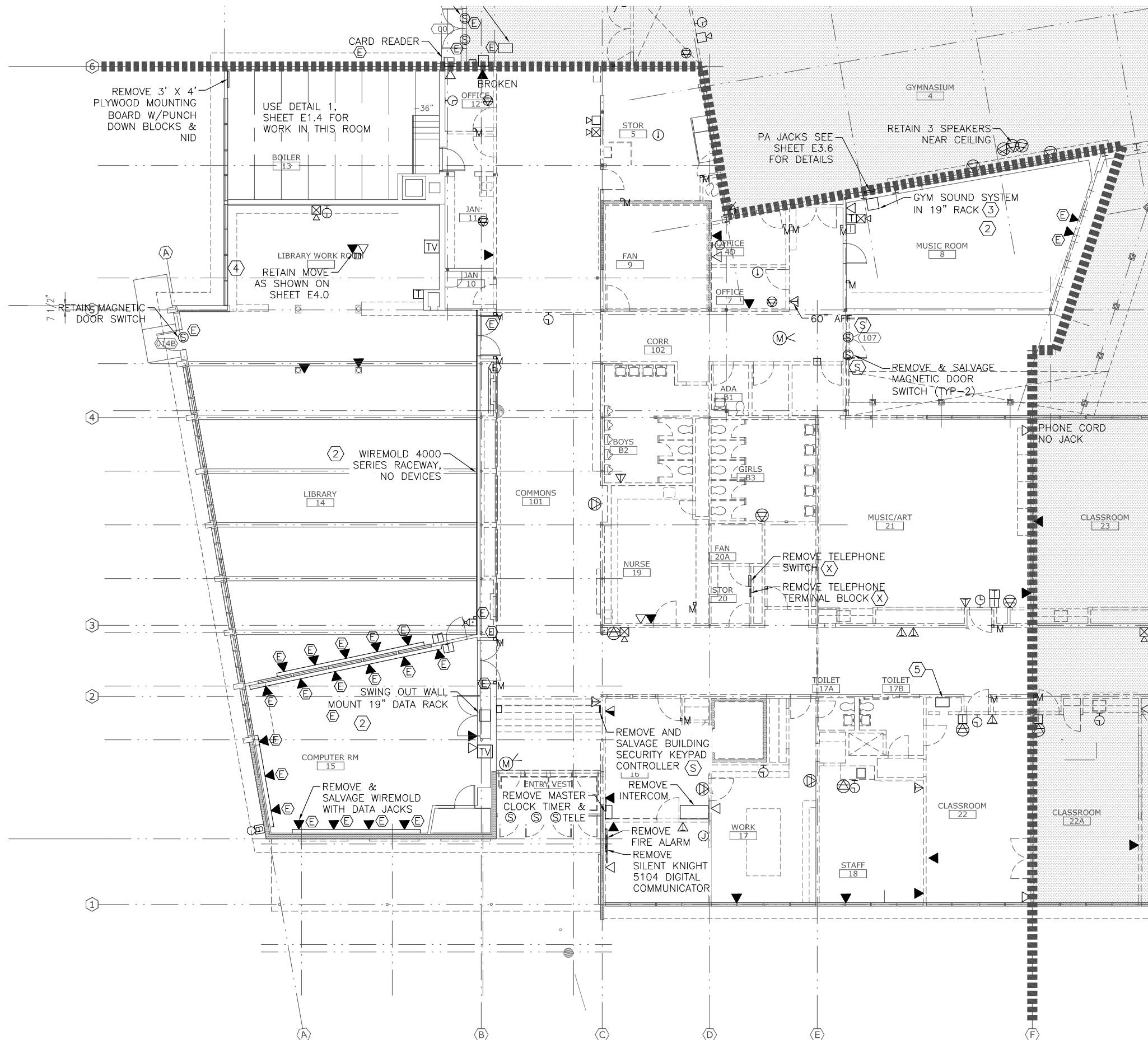
DATE: NOV. 15, 2010

REVISION: ....

CHECKED BY: MGM

DRAWN: DMP

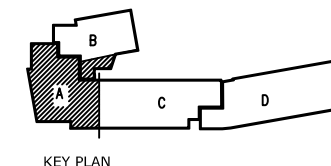
SHEET #  
E1.16



NOTES:

1. REMOVE ALL ELECTRICAL IN AREA B UNLESS NOTED OTHERWISE, INCLUDING DEVICES, CONDUIT & CONDUCTORS.
2. DATA JACKS AND ASSOCIATED WIRING TO REMAIN. REMOVE FIRE ALARM, INTERCOM, AND CLOCK SYSTEM DEVICES INCLUDING CONDUCTORS. REUSE CONDUIT & JUNCTION BOXES FOR NEW DEVICES IF PRACTICAL.
3. GYM SOUND SYSTEM HEAD END EQUIPMENT SHALL BE REMOVED FROM ITS WALL MOUNT SWING OUT RACK. IT SHALL BE SALVAGED AND REINSTALLED AS ORIGINALLY CONFIGURED IN A NEW FIXED RACK IN THE CLOSET BETWEEN THE NEW GYM OFFICE AND GYM.
4. THE TV SERVICE ENTERS THE BUILDING APPROXIMATELY HERE. ROUTE A RG 6 CABLE FROM THE TV SERVICE DEMARC TO THE CCTV SYSTEM IN SERVER ROOM 127.
5. RELOCATED DATA RACK FOR INTERIM YEAR BETWEEN SEASON 1 AND SEASON 2.

1 AREA A DEMO PLAN-SIGNAL  
1/8" = 1'-0" on 22 x 34  
1/16" = 1'-0" on 11 x 17





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GASTINEAU ELEMENTARY SCHOOL  
RENOVATION  
CBI Contract No. E11-137  
JUNEAU, ALASKA

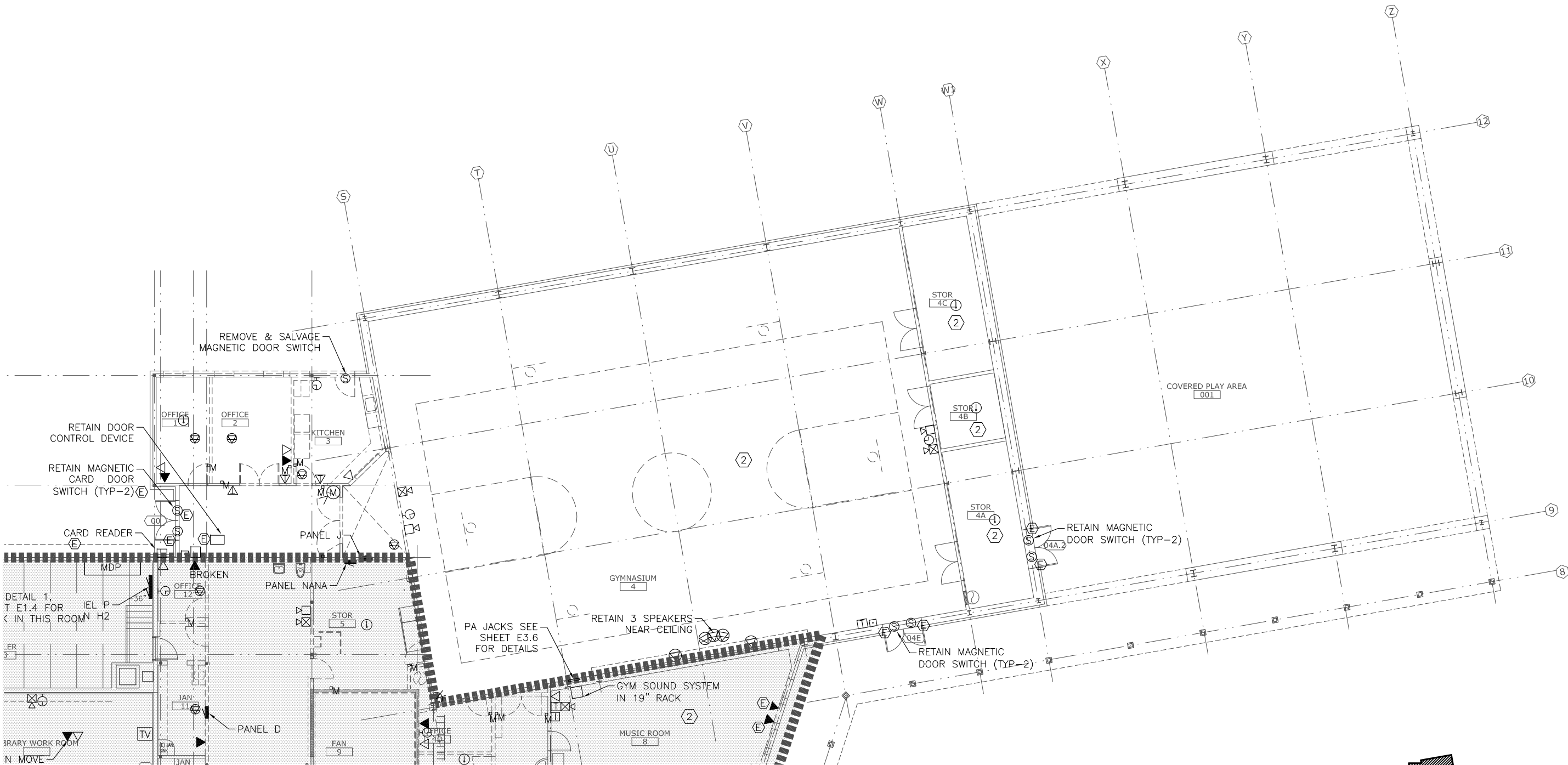
SHEET TITLE:  
AREA B  
DEMO PLAN  
SIGNAL

DATE: NOV. 15, 2010  
REVISION: .....  
CHECKED BY: MGM  
DRAWN: DMP

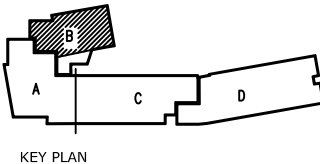
SHEET #:  
E1.17

NOTES:

1. REMOVE ALL ELECTRICAL IN AREA B UNLESS NOTED OTHERWISE. INCLUDING DEVICES, CONDUIT & CONDUCTORS
2. DATA JACKS AND ASSOCIATED WIRING TO REMAIN. REMOVE FIRE ALARM, INTERCOM, AND CLOCK SYSTEM DEVICES INCLUDING CONDUCTORS. REUSE CONDUIT & JUNCTION BOXES FOR NEW DEVICES IF PRACTICAL.



1 AREA B DEMO PLAN-SIGNAL  
1/8" = 1'-0" on 22 x 34  
1/16" = 1'-0" on 11 x 17





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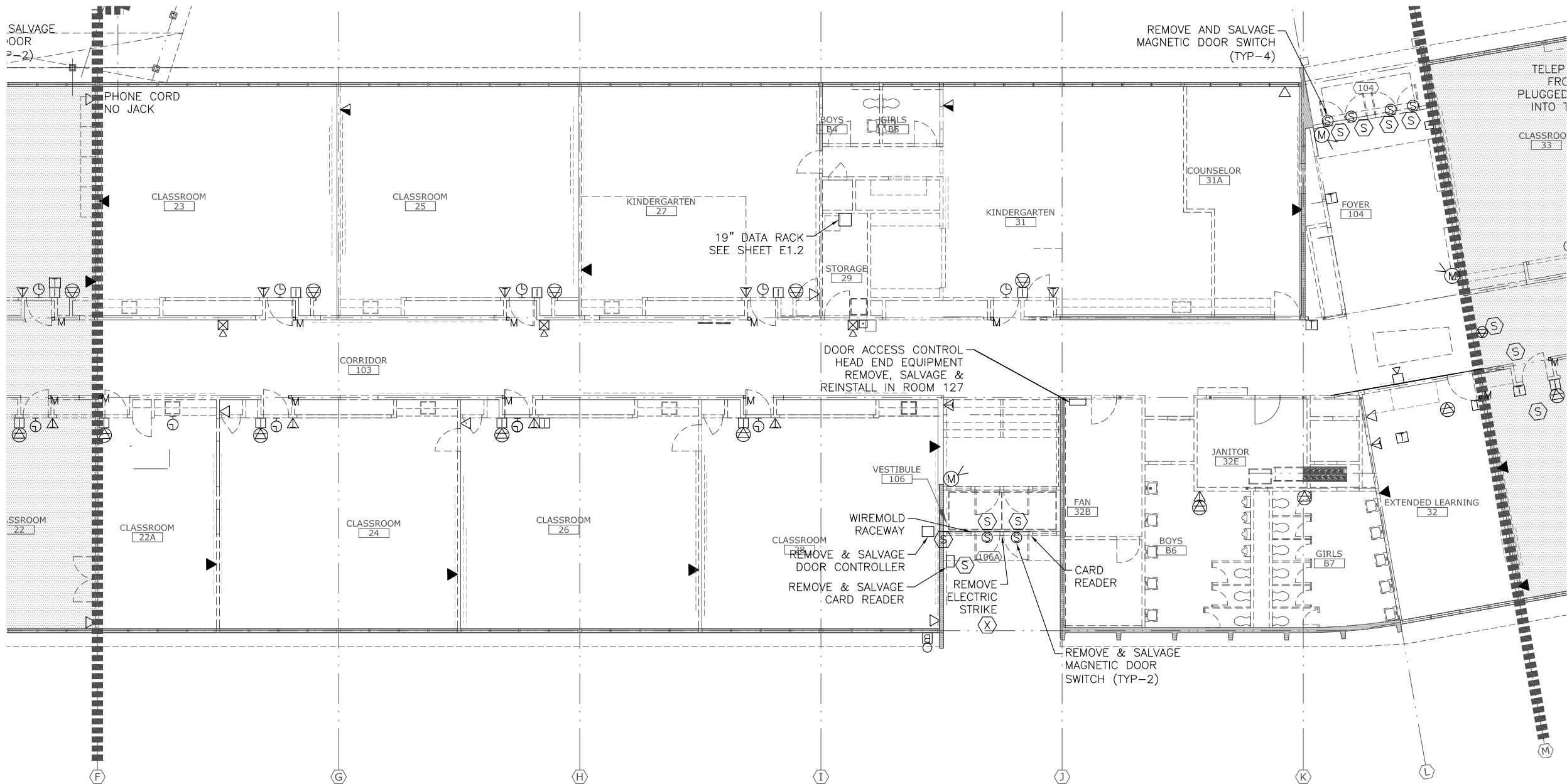
SHEET TITLE:  
AREA C  
DEMO PLAN  
SIGNAL

DATE: NOV. 15, 2010  
REVISION: ....  
CHECKED BY: MGM  
DRAWN: DMP

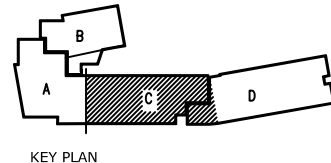
SHEET #  
E1.18

NOTE:

1. REMOVE ALL ELECTRICAL IN AREA C UNLESS NOTED OTHERWISE, INCLUDING DEVICES, CONDUIT & CONDUCTORS

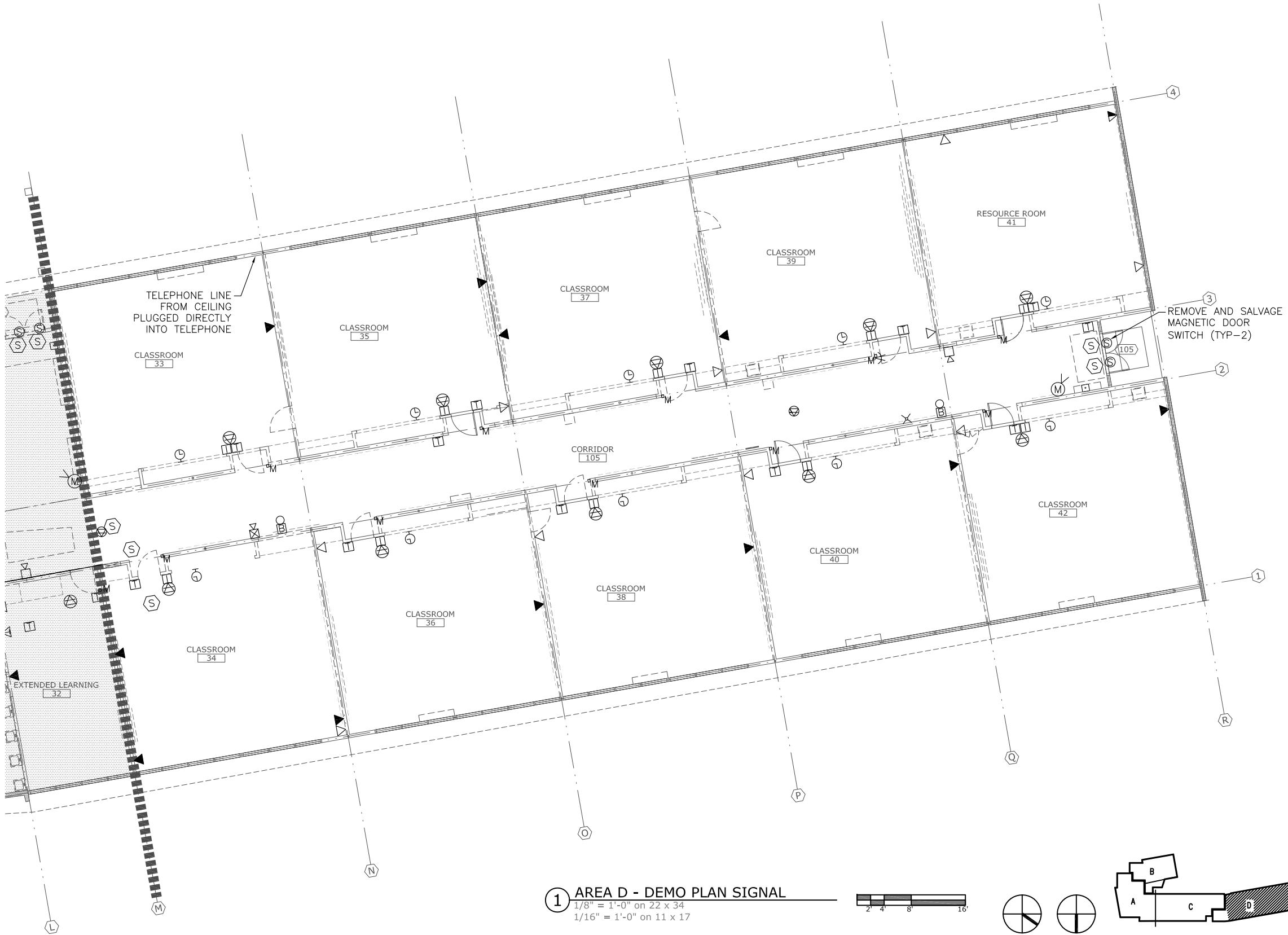


1 AREA C - DEMO PLAN SIGNAL  
1/8" = 1'-0" on 22 x 34  
1/16" = 1'-0" on 11 x 17

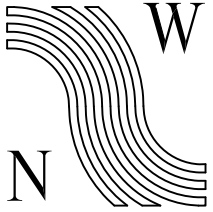
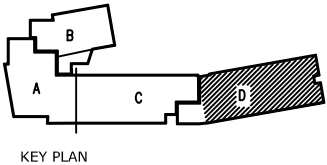


NOTES:

1. REMOVE ALL ELECTRICAL IN AREA D UNLESS NOTED OTHERWISE.  
INCLUDING DEVICES, CONDUIT & CONDUCTORS



1 AREA D - DEMO PLAN SIGNAL  
1/8" = 1'-0" on 22 x 34  
1/16" = 1'-0" on 11 x 17



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1" = 1'

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CBJ Contract No. E11-137  
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SHEET TITLE:

AREA D  
DEMO PLAN  
SIGNAL

DATE: NOV. 15, 2010

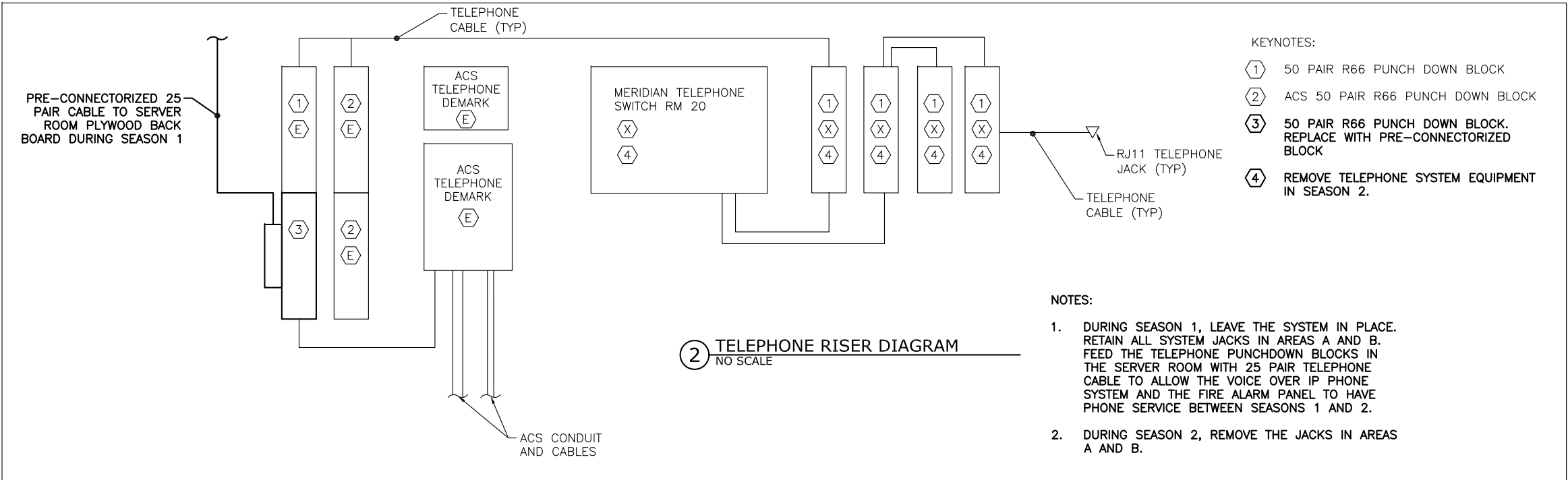
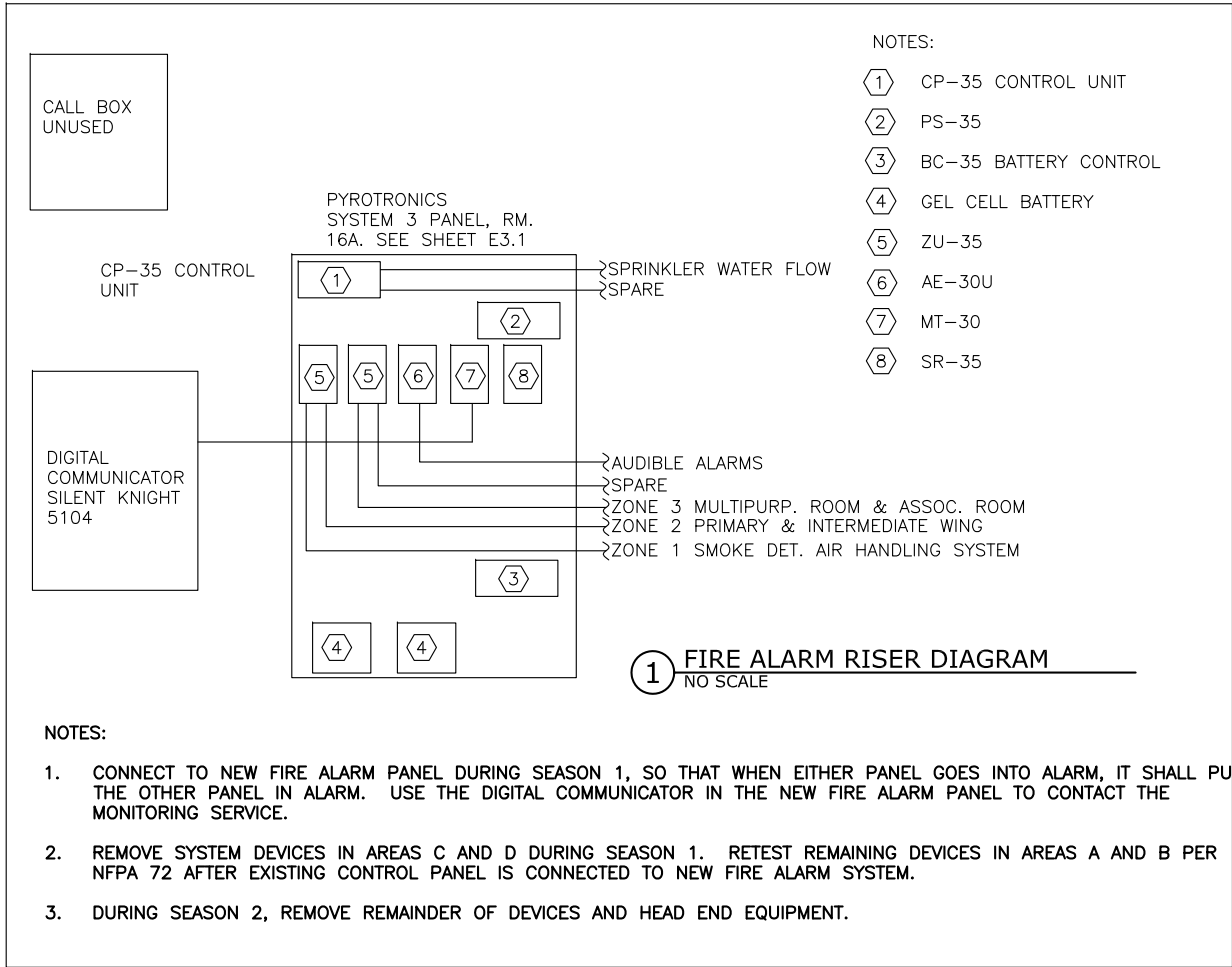
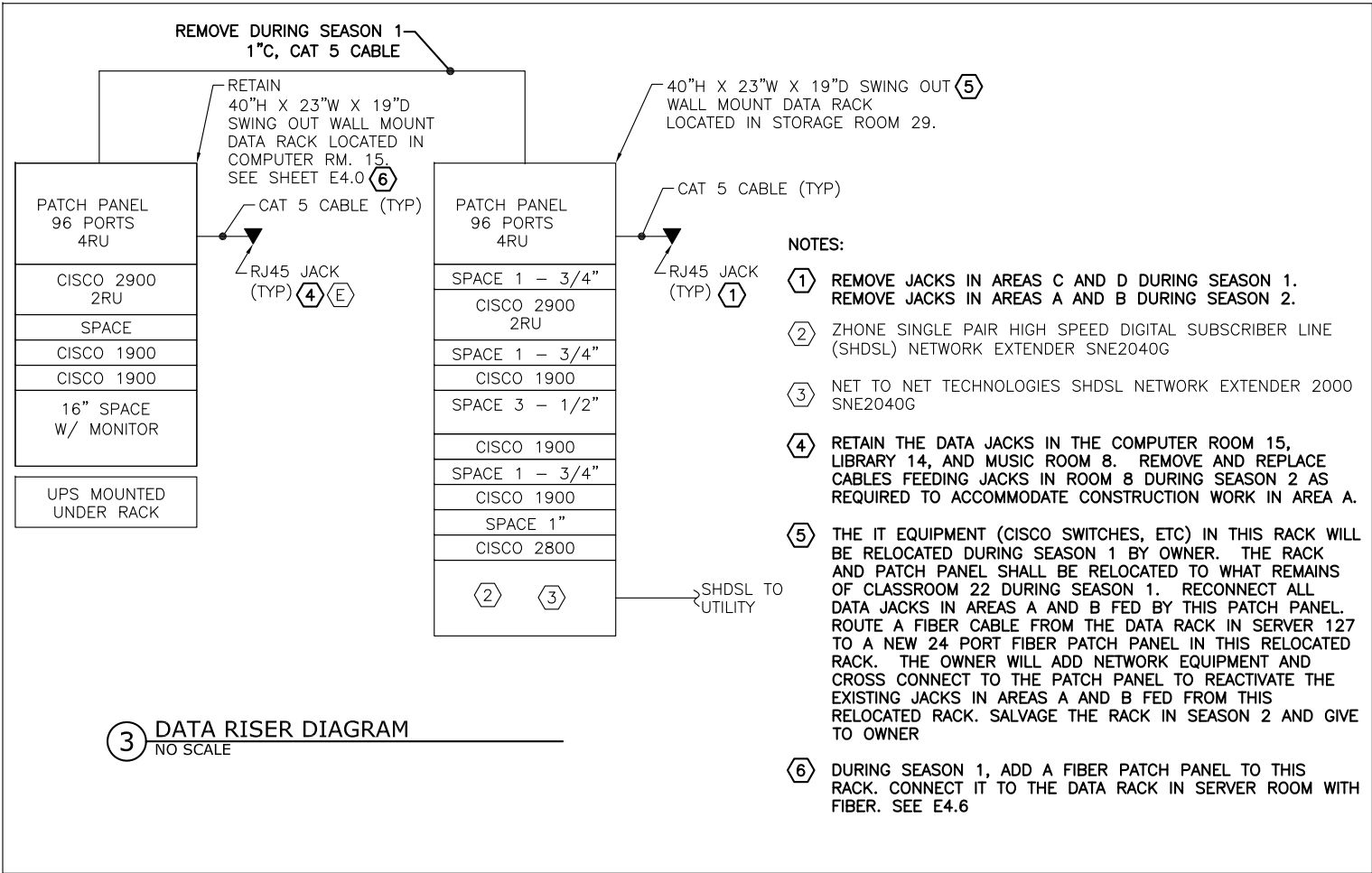
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CHECKED BY: MGM

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SHEET #

E1.19



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RENOVATION

CBJ Contract No. E11-157  
JUNEAU, ALASKA

SHEET TITLE:  
EXISTING  
RISER DIAGRAM 1

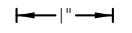
DATE: NOV. 15, 2010  
REVISION: ....  
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SHEET #

E1.20



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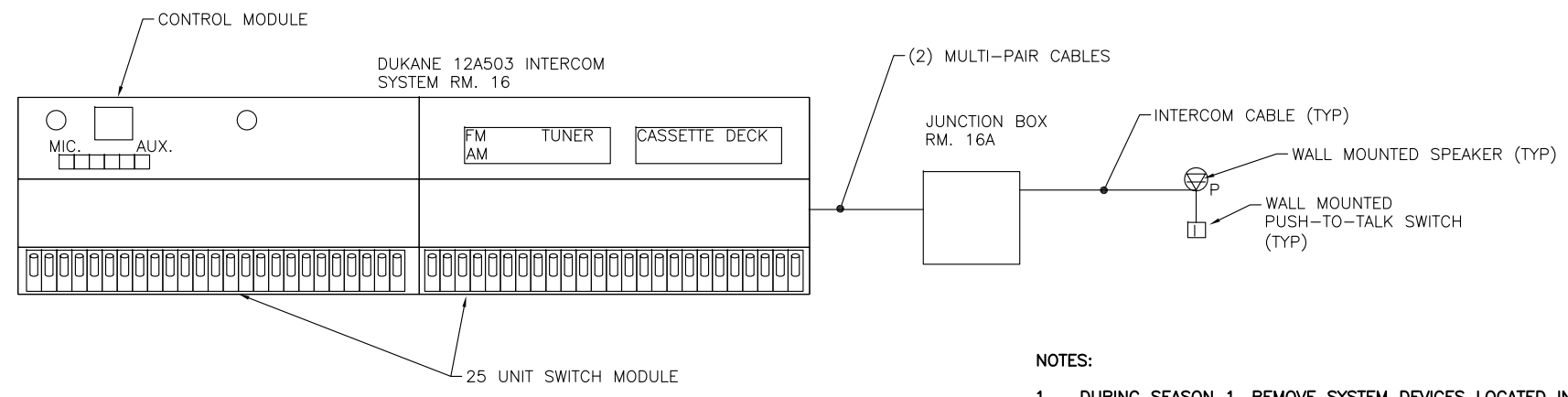


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CBJ Contract No. E11-157  
JUNEAU, ALASKA

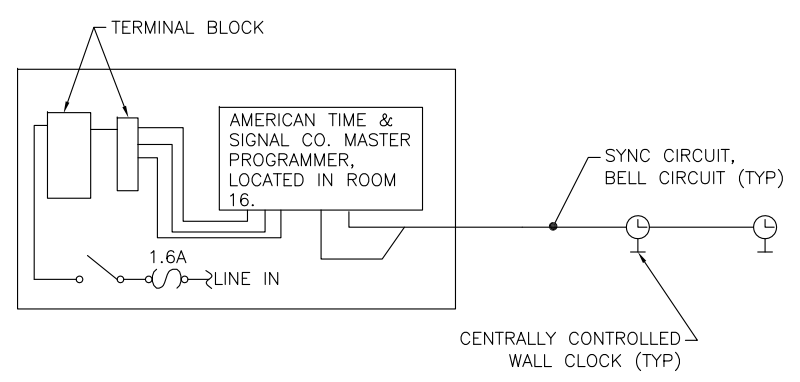
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**EXISTING RISER DIAGRAM 2**  
DATE: NOV. 15, 2010  
REVISION: ....  
CHECKED BY: MGM  
DRAWN: DMP

SHEET #  
**E1.21**



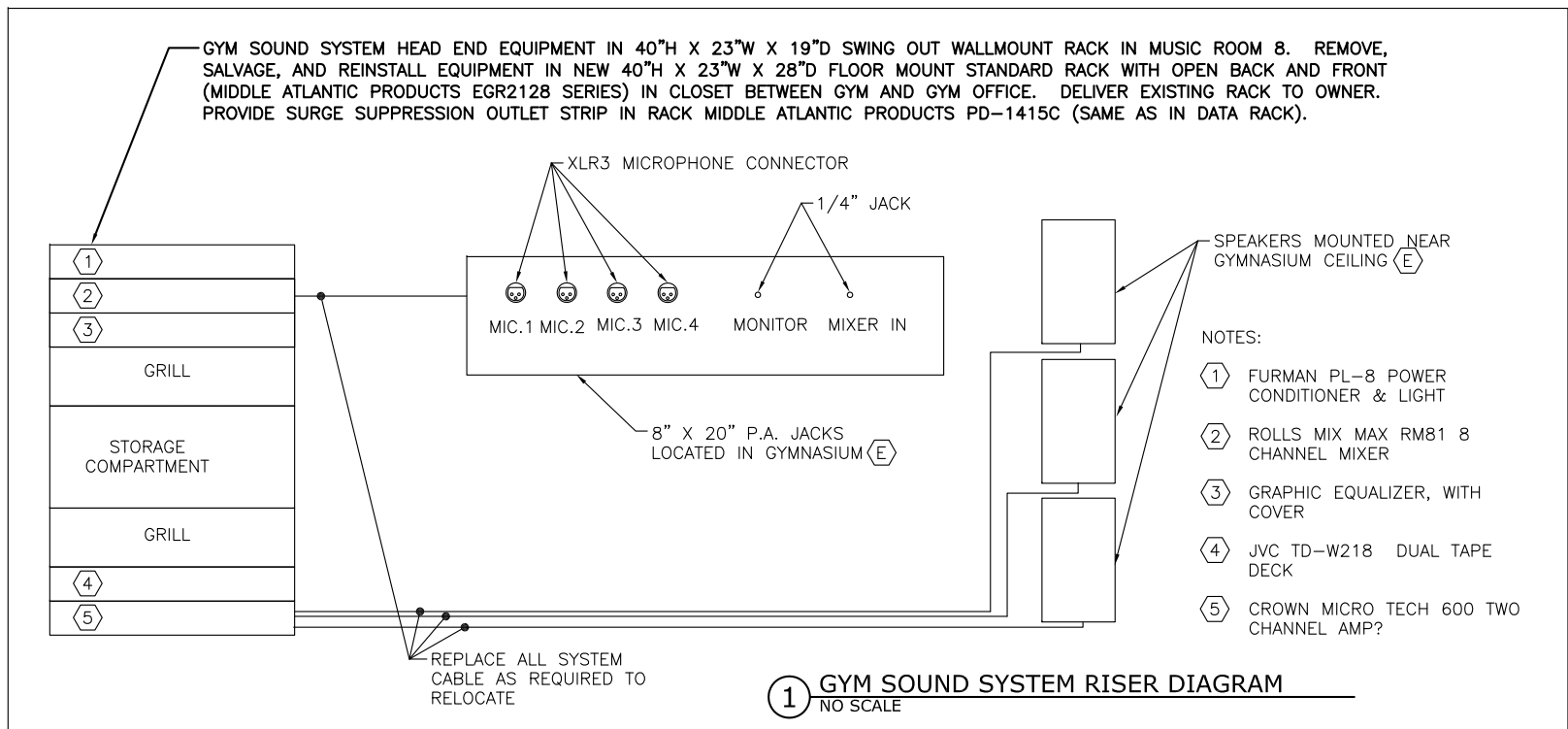
**3 DUKANE INTERCOM RISER DIAGRAM**  
NO SCALE

- NOTES:
1. DURING SEASON 1, REMOVE SYSTEM DEVICES LOCATED IN AREAS C AND D. RETAIN DEVICES IN AREAS A AND B.
  2. DURING SEASON 2, REMOVE THE REMAINDER OF THE SYSTEM DEVICES AND HEAD END EQUIPMENT.



**2 CLOCK SYSTEM RISER DIAGRAM**  
NO SCALE

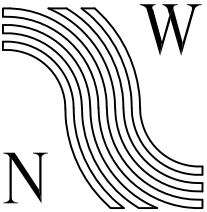
- NOTES:
1. DURING SEASON 1, REMOVE SYSTEM DEVICES LOCATED IN AREAS C AND D. RETAIN DEVICES IN AREAS A AND B.
  2. DURING SEASON 2, REMOVE THE REMAINDER OF THE SYSTEM DEVICES AND HEAD END EQUIPMENT.



**1 GYM SOUND SYSTEM RISER DIAGRAM**  
NO SCALE

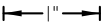
- NOTES:
- 1 FURMAN PL-8 POWER CONDITIONER & LIGHT
  - 2 ROLLS MIX MAX RM81 8 CHANNEL MIXER
  - 3 GRAPHIC EQUALIZER, WITH COVER
  - 4 JVC TD-W218 DUAL TAPE DECK
  - 5 CROWN MICRO TECH 600 TWO CHANNEL AMP?





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SHEET TITLE:

EXISTING  
RISER DIAGRAM 3

DATE: NOV. 15, 2010

REVISION: ....

CHECKED BY: MGM

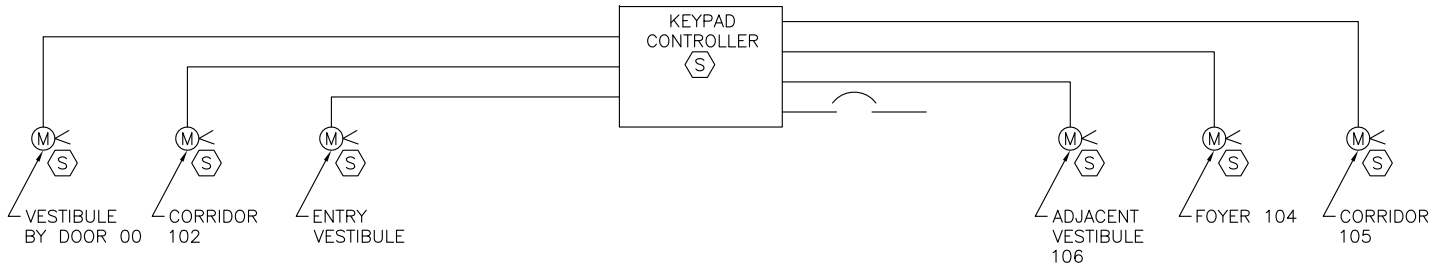
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SHEET #

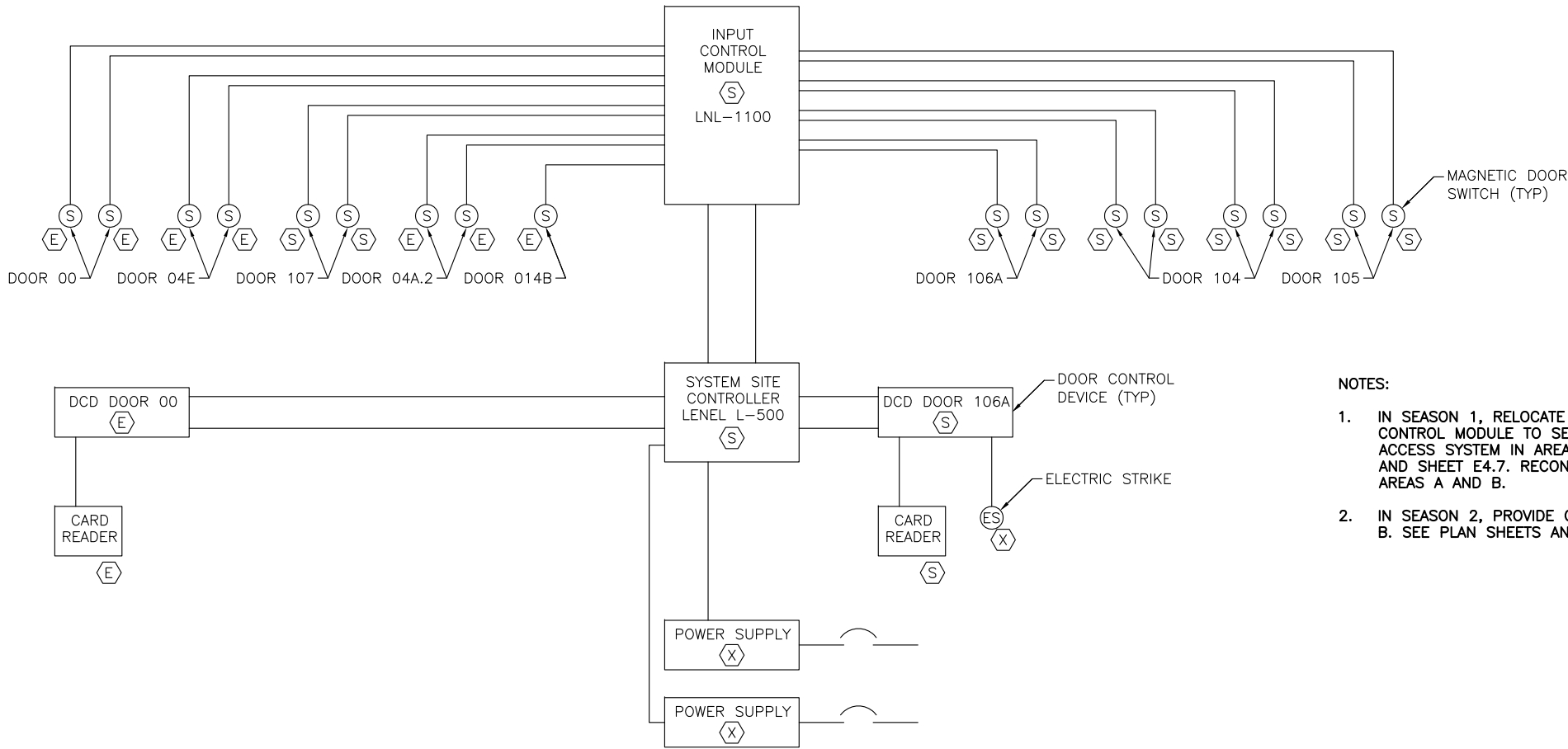
E1.22

NOTES:

1. DURING SEASON 1, REMOVE AND REINSTALL SYSTEM DEVICES IN AREAS C AND D.
2. DURING SEASON 2, REMOVE AND REINSTALL REMAINING DEVICES INCLUDING KEYPAD CONTROLLER.



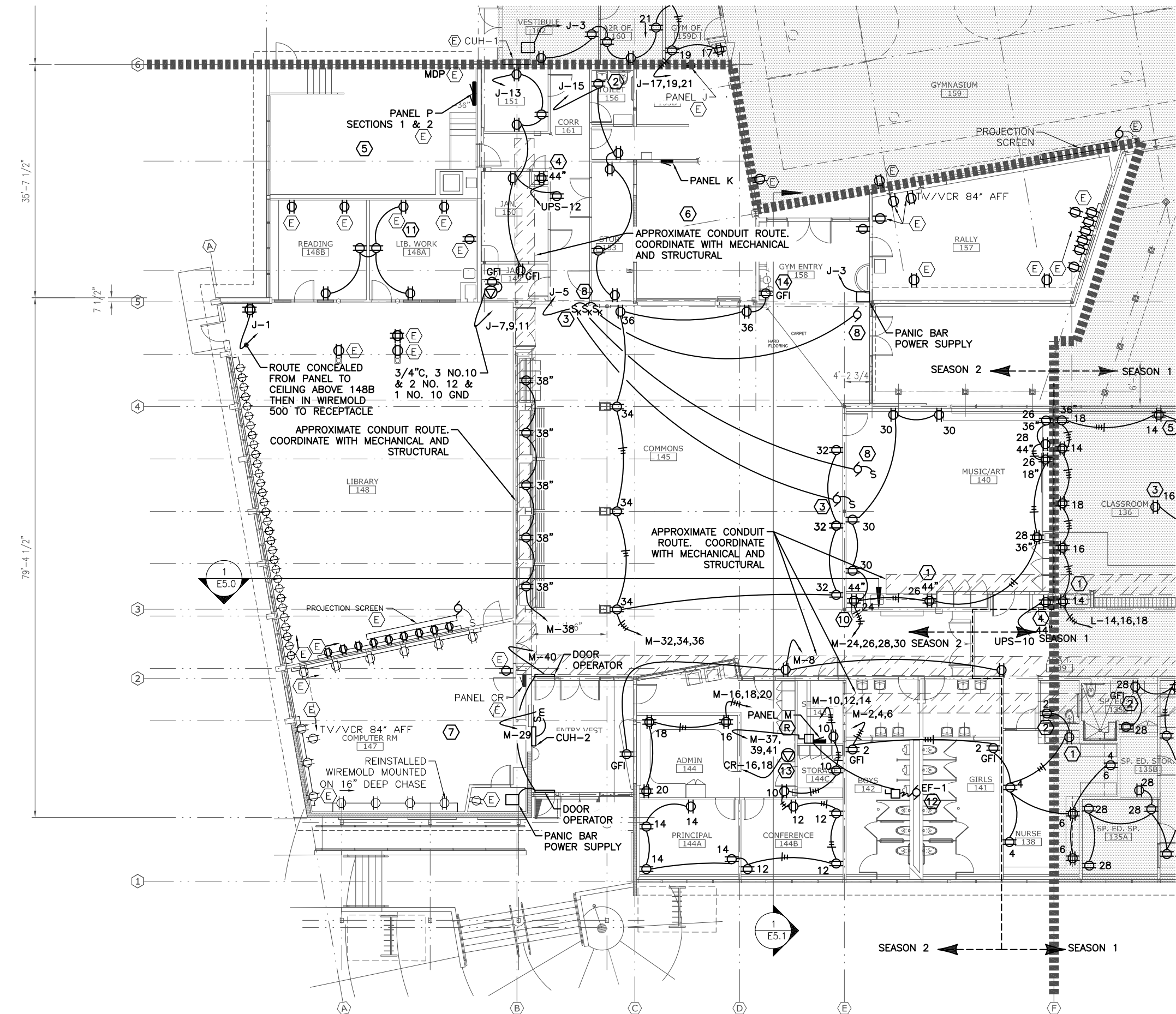
1 BUILDING SECURITY SYSTEM SCHEMATIC  
NO SCALE



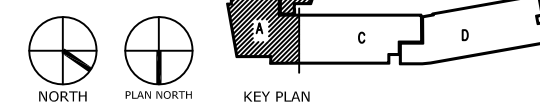
NOTES:

1. IN SEASON 1, RELOCATE SITE CONTROLLER AND INPUT CONTROL MODULE TO SERVER ROOM. PROVIDE CARD ACCESS SYSTEM IN AREAS C AND D. SEE PLAN SHEETS AND SHEET E4.7. RECONNECT EXISTING DEVICES IN AREAS A AND B.
2. IN SEASON 2, PROVIDE CARD ACCESS IN AREAS A AND B. SEE PLAN SHEETS AND SHEET E4.7

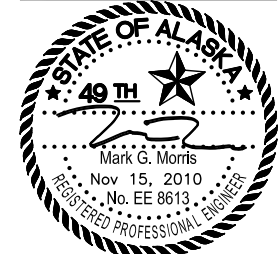
2 CARD ACCESS SYSTEM SCHEMATIC  
NO SCALE



1 AREA A - FLOOR PLAN - POWER  
1/8" = 1'-0" on 22 x 34  
1/16" = 1'-0" on 11 x 17



- NOTES:
- 1 PROVIDE A GFI RECEPTACLE AT 44" AT A.F.F.
  - 2 PROVIDE A GFI RECEPTACLE AT 34".
  - 3 POWER PROJECTION SCREEN CONTROL WITH KEYED SWITCH.
  - 4 POWER FOR WALL MOUNT DATA RACK
  - 5 SEE SHEET E2.4 FOR ELECTRICAL IN BOILER ROOM 152.
  - 6 SEE SHEET E2.4 FOR ELECTRICAL IN FAN ROOM 201+201A LOCATED ABOVE KITCHEN 155.
  - 7 SEE SHEET E2.4 FOR ELECTRICAL IN FAN ROOM 202 LOCATED ABOVE ROOM 147.
  - 8 POWER ELECTRIC SHADES FROM KEYED SWITCH. INSTALL 20 AMP, 120V DISC SWITCH AT MOTOR.
  - 9 NOT USED
  - 10 POWER COMMONS SOUND SYSTEM SEE SCHEMATIC, SHEET E4.9.
  - 11 CONNECT NEW RECEPTACLES IN READING 148B & LIBRARY WORK 148A TO EXISTING RECEPTACLES CIRCUIT.
  - 12 MOUNT DISCONNECT ON UNISTRUT TO SIDE OF ROOF CURB AT EF-1.
  - 13 PROVIDE A 20/2 C/B IN PANEL CR. RECEPTACLE PER OWNER FOR COPIER.
  - 14 LOCATE RECEPTACLE INSIDE FOUNTAIN ENCLOSURE FOR REFRIDGERATOR UNIT. COORDINATED HEIGHT & LOCATION WITH MECHANICAL.



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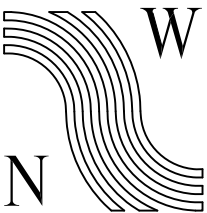
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RENOVATION**  
CBJ Contract No. E11-137  
JUNEAU, ALASKA

SHEET TITLE:  
**AREA A FLOOR  
PLAN POWER**

DATE: NOV. 15, 2010  
REVISION: ....  
CHECKED BY: MGM  
DRAWN: DMP

SHEET #  
**E2.0**



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JUNEAU, ALASKA

SHEET TITLE:

AREA B FLOOR  
PLAN POWER

DATE: NOV. 15, 2010

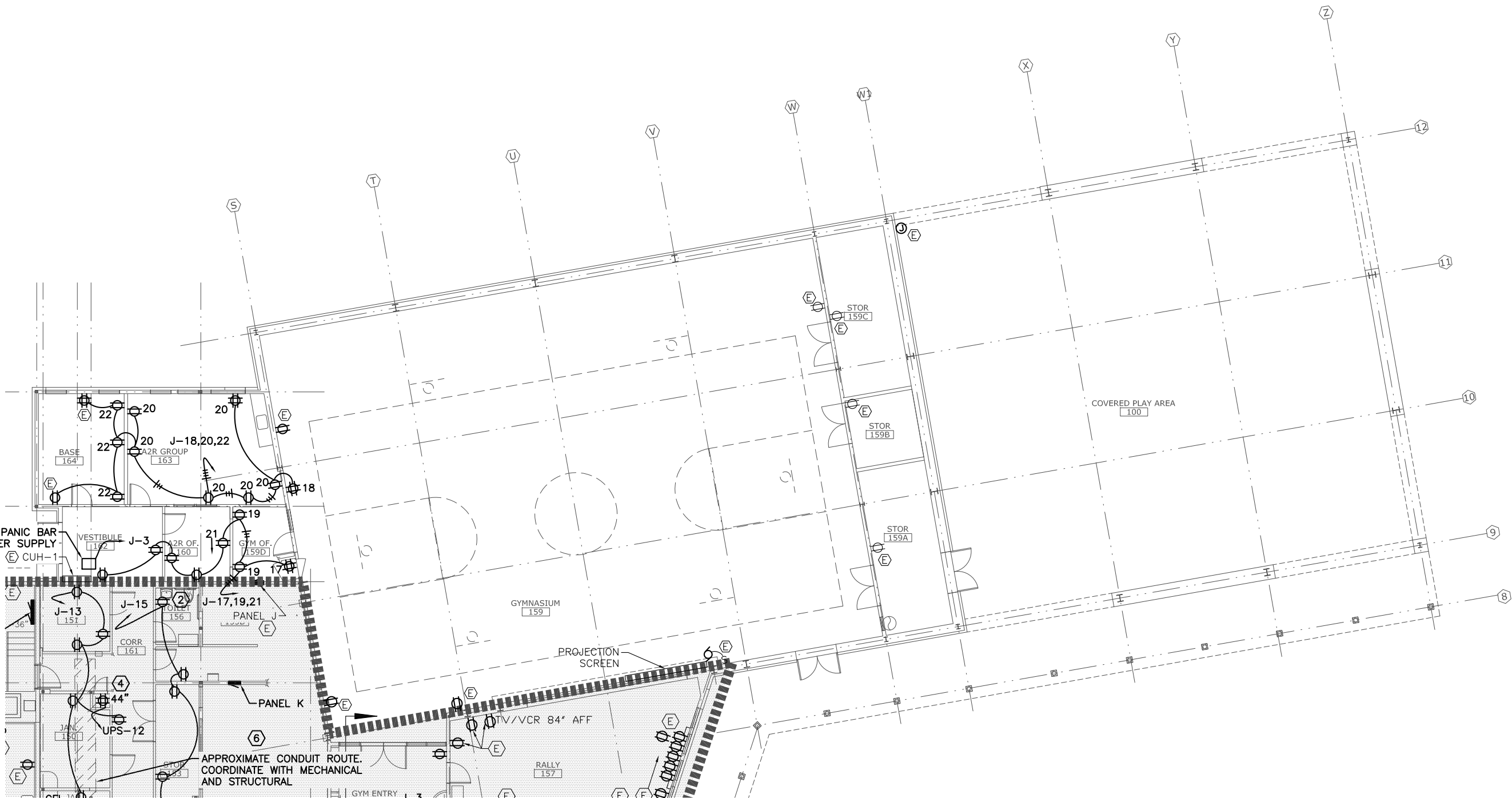
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CHECKED BY: MGM

DRAWN: DMP

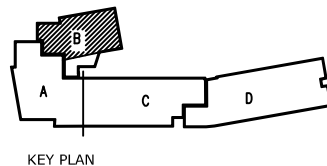
SHEET #:

E2.1



1 AREA B - POWER FLOOR PLAN

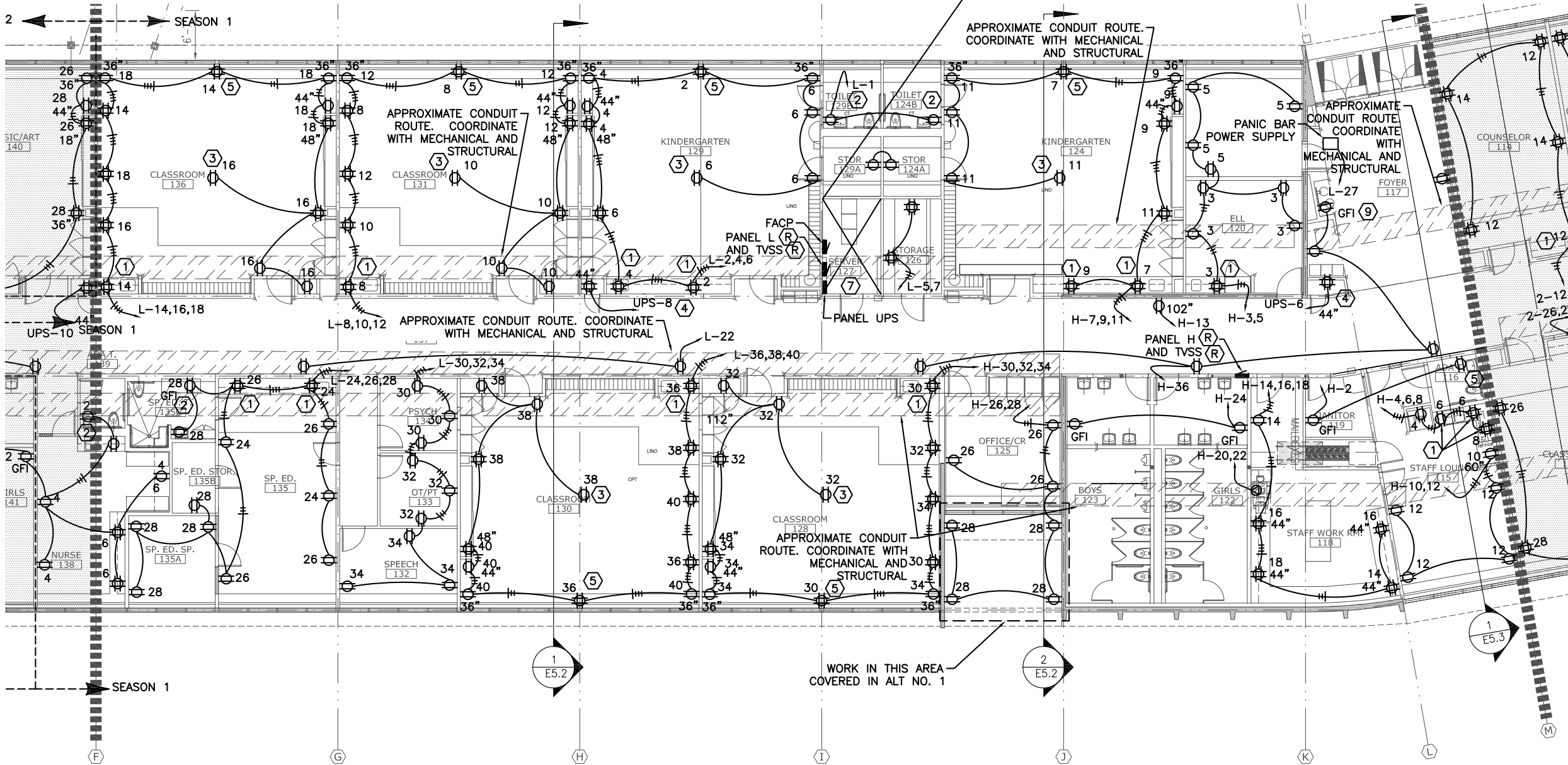
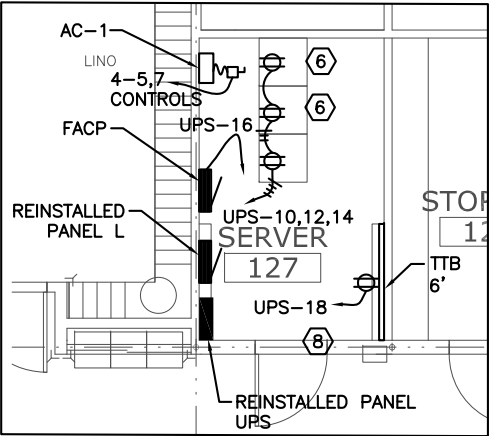
1/8" = 1'-0" on 22 x 34  
1/16" = 1'-0" on 11 x 17



NOTES:

- ① PROVIDE A GFI RECEPTACLE AT 44" AT A.F.F.
- ② PROVIDE A GFI RECEPTACLE AT 34".
- ③ MOUNT REC IN SUSPENDED CEILING. CO LOCATE WITH DATA RECEPTACLE. SEE SHEET E4.2
- ④ POWER FOR WALL MOUNTED DATA RACK
- ⑤ FLUSH MOUNT RECEPTACLE IN P-LAM CLOSURE PANEL BETWEEN BOOK SHELF CABINETS. FEED WITH SURFACE MOUNTED CONDUIT ON EXTERIOR WALL BEHIND CABINET AND ABOVE FIN PIPE. SEE DETAIL 1, SHEET A11.5. ROUTE CONDUIT ON EXTERIOR WALL UNTIL IT INTERSECTS WITH THE INTERIOR CLASSROOM WALL. ROUTE CONDUIT CONCEALED IN INTERIOR WALL TO THE NEXT RECEPTACLE IN THE CIRCUIT.
- ⑥ PROVIDE RECEPTACLES IN RACK POWERED BY UPS PANEL. PROVIDE ONE REC TO POWER EACH RACK MOUNTED RECEPTACLE STRIP.

- ⑦ SEE ENLARGED PLAN THIS SHEET FOR SERVER 127
- ⑧ SEE SCHEMATIC, SHEET E2.7 FOR CCU-1 EVAPORATOR
- ⑨ MOUNT BELOWFOUNTAIN BEHIND COVER. COORDINATE HEIGHT WITH MECHANICAL



① AREA C - FLOOR PLAN - POWER  
1/8" = 1'-0" on 22 x 34  
1/16" = 1'-0" on 11 x 17



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CBJ Contract No. E11-137  
JUNEAU, ALASKA

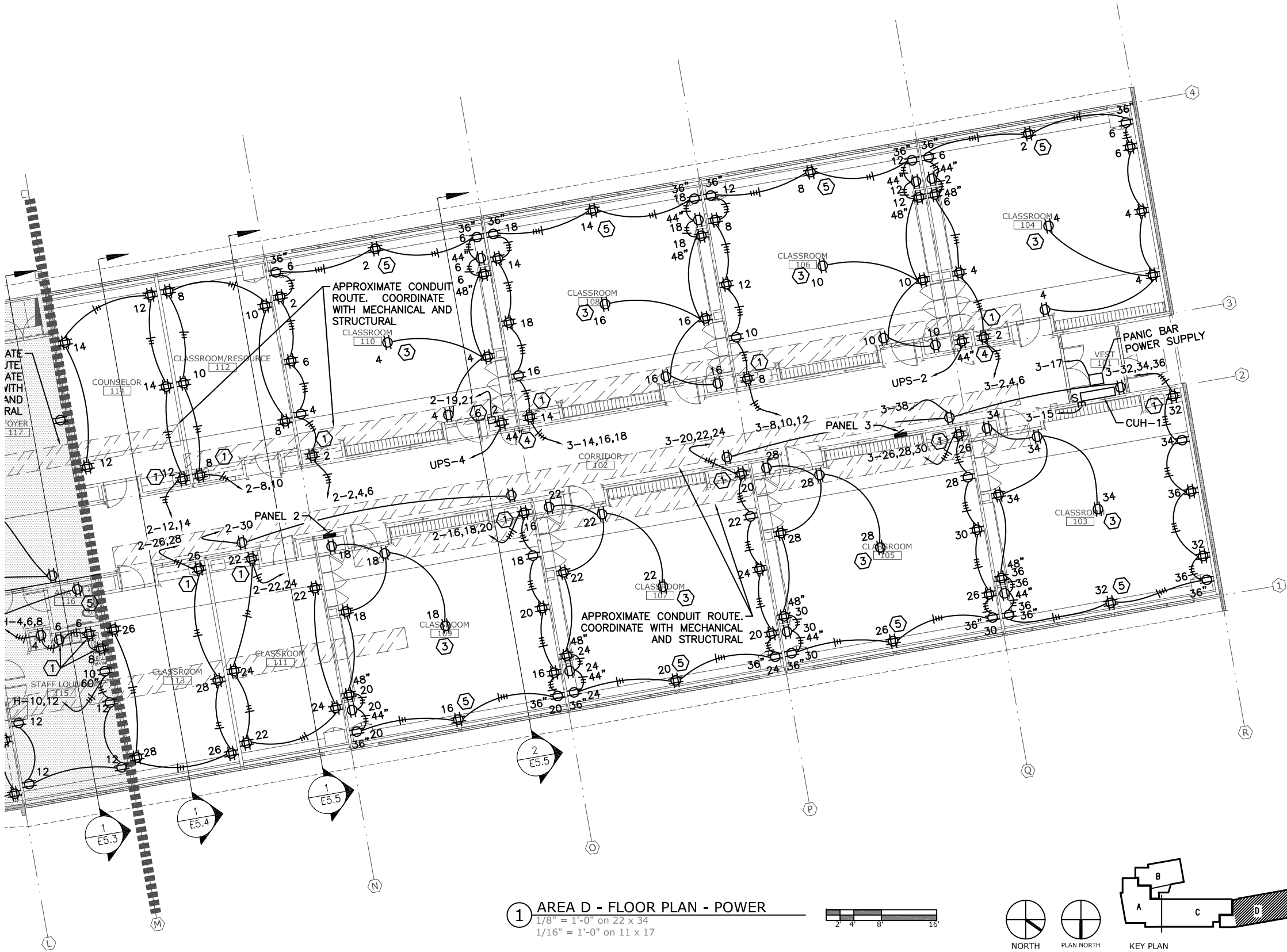
SHEET TITLE:  
AREA C FLOOR  
PLAN POWER

DATE: NOV. 15, 2010  
REVISION: ....  
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DRAWN: DMP

SHEET #  
E2.2

NOTES:

- ①
- PROVIDE A GFI RECEPTACLE AT 44" AT A.F.F.
- ②
- NOT USED
- ③
- MOUNT REC IN SUSPENDED CEILING. CO LOCATE WITH DATA RECEPTACLE. SEE SHEET E4.3
- ④
- POWER FOR WALL MOUNTED DATA RACK.
- ⑤
- FLUSH MOUNT RECEPTACLE IN P-LAM ENCLOSURE PANEL BETWEEN BOOK SHELF CABINETS. FEED WITH SURFACE MOUNTED CONDUIT ON EXTERIOR WALL BEHIND CABINET AND ABOVE FIN PIPE. SEE DETAIL 1, SHEET A11.5. ROUTE CONDUIT ON EXTERIOR WALL UNTIL IT INTERSECTS WITH WITH THE INTERIOR CLASSROOM WALL. ROUTE CONDUIT CONCEALED IN INTERIOR WALL TO THE NEXT RECEPTACLE IN THE CIRCUIT.



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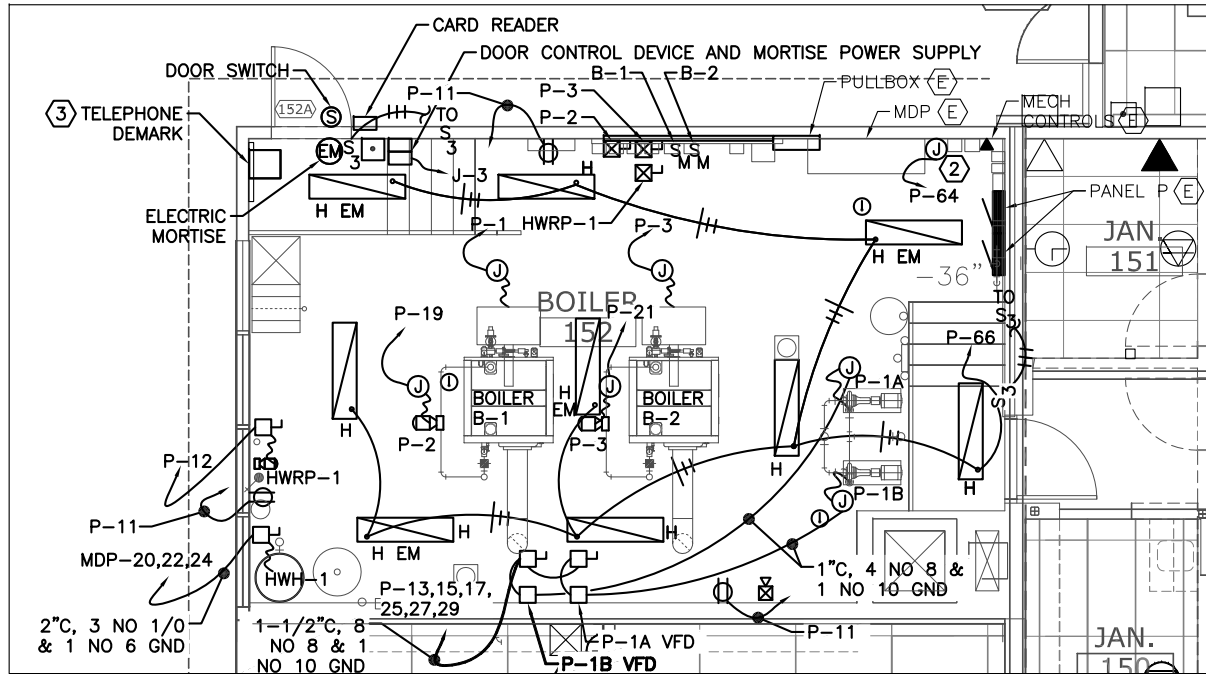
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RENOVATION  
CBJ Contract No. E11-137  
JUNEAU, ALASKA

SHEET TITLE:  
AREA D FLOOR  
PLAN POWER

DATE: NOV. 15, 2010  
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SHEET #  
E2.3

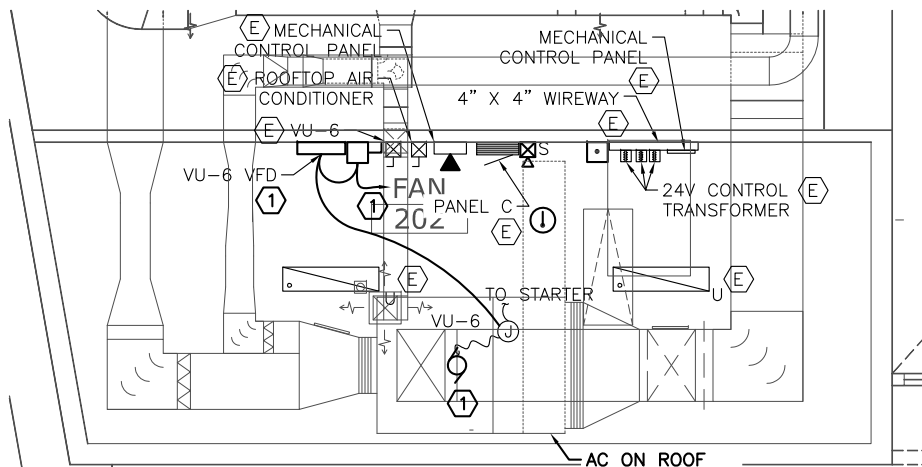


NOTES:

1. HOME RUNS FOR ALL EQUIPMENT SHALL BE ROUTED FROM MOTOR IN FLEX CONDUIT TO DISCONNECT OR JUNCTION BOX, THEN TO STARTER, THEN TO PANEL.
2. PROVIDE NEW POWER & DATA CONNECTION TO EXISTING BAS CONTROL PANEL.
3. EXISTING TELEPHONE DEMARK TO REMAIN. PROVIDE 25 PAIR CABLE FROM PUNCHDOWN BLOCK TO SERVER ROOM PUNCH DOWN BLOCK AS PART OF SEASON 1 WORK

1 BOILER ROOM 152 - ELECTRICAL

1/4" = 1'-0" on 22x34  
1/8" = 1'-0" on 11x17

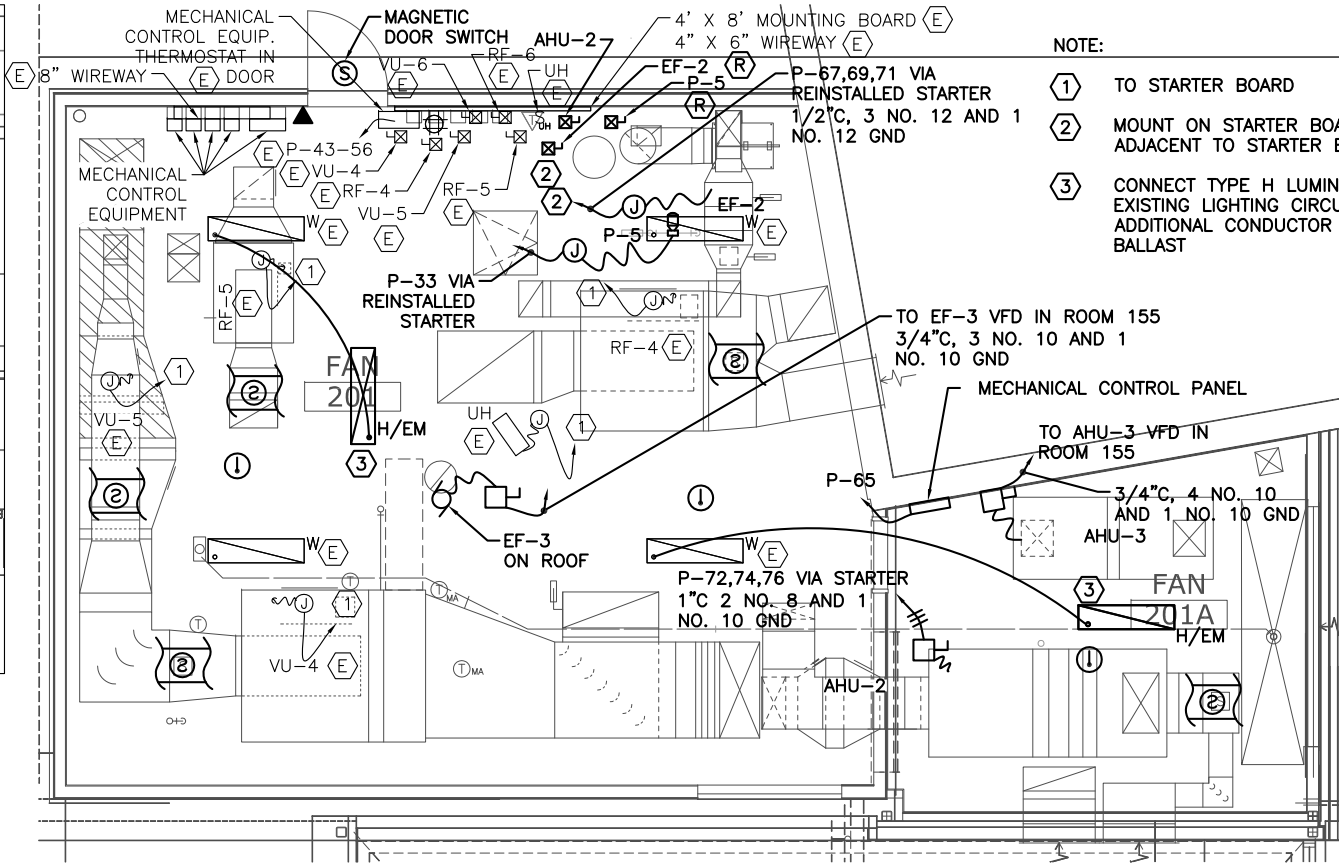


NOTE:

- 1 ADDITIVE ALT NO. 6 INCLUDES REPLACING MOTOR TO VU-6 & REPLACING VU-6 STARTER WITH A VFD. PROVIDE A DISCONNECT FOR THE VFD. REFEED MOTOR, POWER VFD FROM SAME CIRCUIT BREAKER IN PANEL C THAT POWERED THE VU-6 STARTER

3 FAN ROOM 202 - ELECTRICAL

1/4" = 1'-0" on 22x34  
1/8" = 1'-0" on 11x17

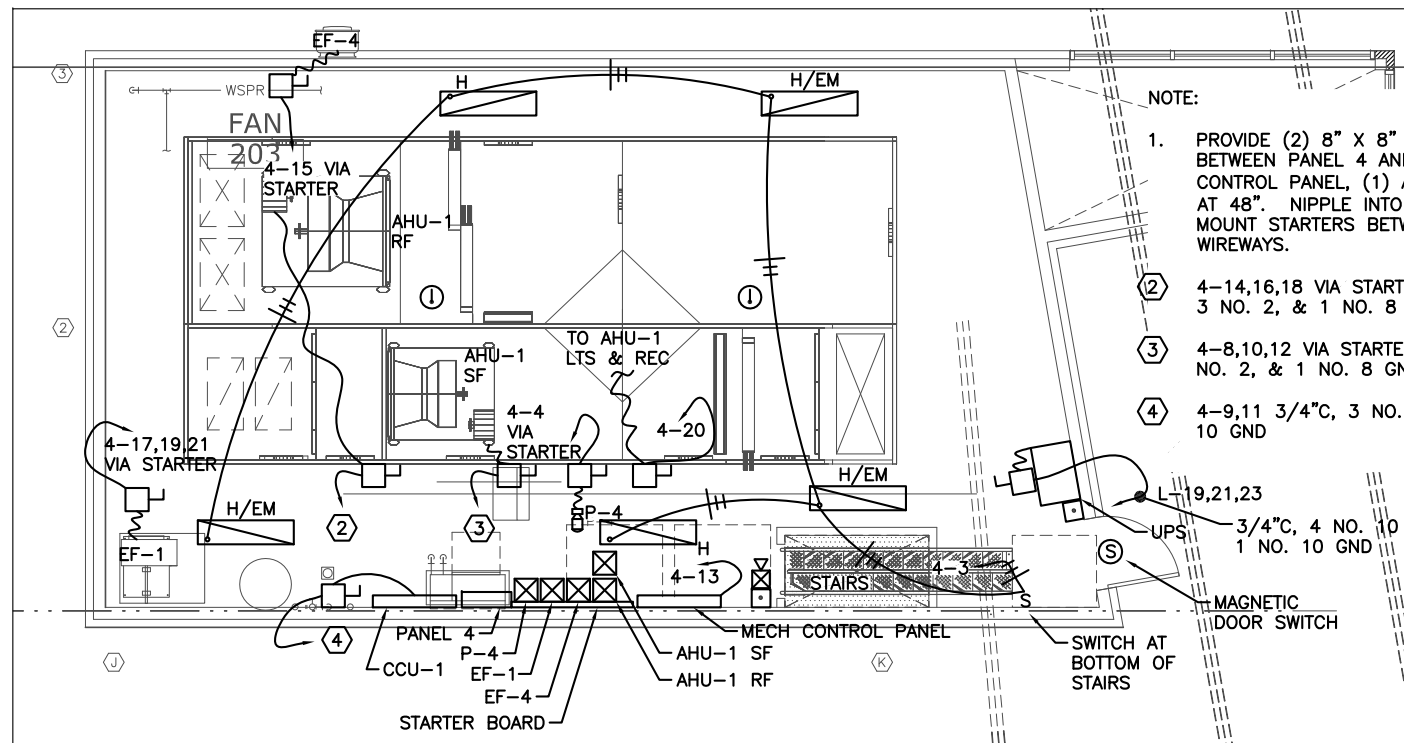


NOTE:

- 1 TO STARTER BOARD
- 2 MOUNT ON STARTER BOARD OR ADJACENT TO STARTER BOARD
- 3 CONNECT TYPE H LUMINAIRES TO EXISTING LIGHTING CIRCUIT. PULL ADDITIONAL CONDUCTOR FOR EM BALLAST

2 FAN ROOMS 201 & 201A - ELECTRICAL

1/4" = 1'-0" on 22x34  
1/8" = 1'-0" on 11x17



NOTE:

1. PROVIDE (2) 8" X 8" WIREWAYS BETWEEN PANEL 4 AND MECHANICAL CONTROL PANEL, (1) AT 72", ONE AT 48". NIPPLE INTO WIREWAYS. MOUNT STARTERS BETWEEN WIREWAYS.
- 2 4-14,16,18 VIA STARTER 1 1/2"C, 3 NO. 2, & 1 NO. 8 GND
- 3 4-8,10,12 VIA STARTER 1 1/2"C, 3 NO. 2, & 1 NO. 8 GND
- 4 4-9,11 3/4"C, 3 NO. 10, & 1 NO. 10 GND

4 FAN ROOM 203 - ELECTRICAL

1/4" = 1'-0" on 22x34  
1/8" = 1'-0" on 11x17



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RENOVATION**

CBJ Contract No. E11-137  
JUNEAU, ALASKA

SHEET TITLE:

ROOMS 152, 201,  
201A, 202, & 203  
ELECTRICAL

DATE: NOV. 15, 2010

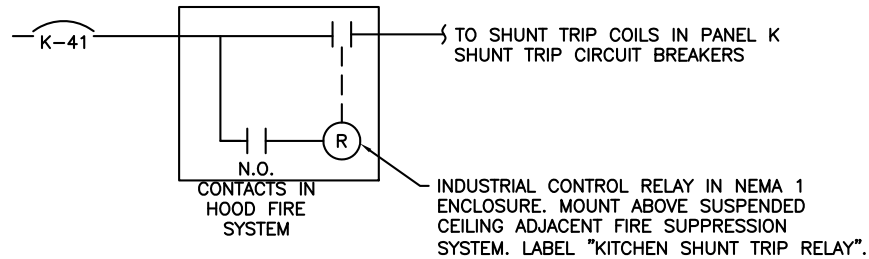
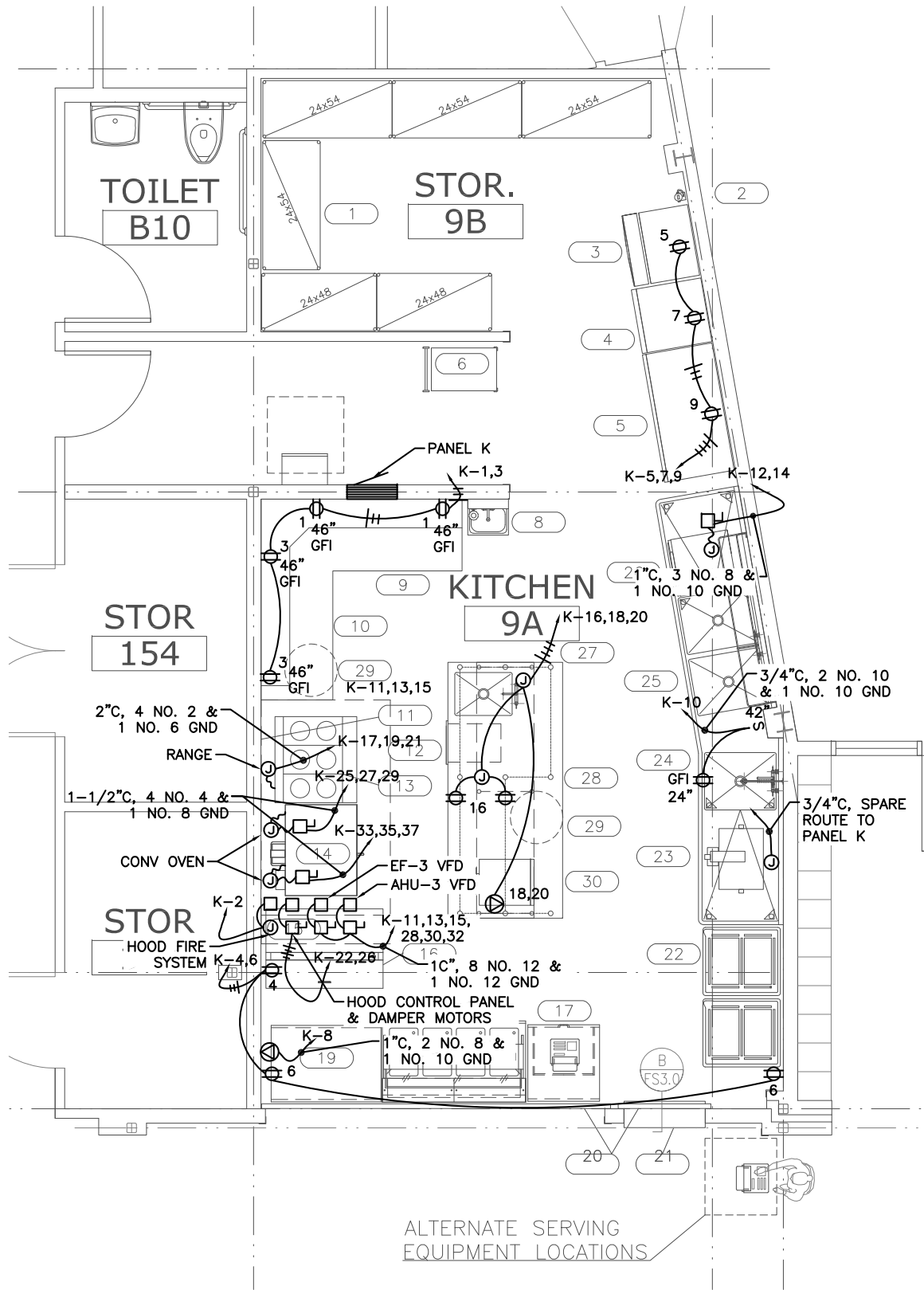
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SHEET #

**E2.4**

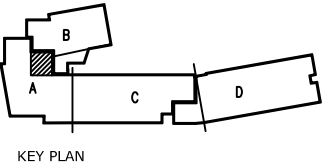


SHUNT TRIP CIRCUIT SCHEMATIC

KITCHEN EQUIPMENT SCHEDULE												
ITEM NO	QTY	EQUIPMENT CATEGORY	STATUS	AMPS	KW	HP	VOLTS	PHASE	DIRECT PLUG	NEMA PLUG	DISCONNECT SIZE	REMARKS
1	6	SHELVING, DRY STORAGE	D									
2	1	FILTER SYSTEM, ICEMAKER	D									
3	1	ICE MAKER W/ BIN	D	9.9		1/2	115	1	X	5-15P		
4	1	FREEZER, REACH-IN	D	10.4		1/2	115	1	X	5-15P		
5	1	REFRIGERATOR, REACH-IN	D	9.1		1/2	120	1	X	5-15P		
6	1	CART, UTILITY	D									
7		- SPARE NUMBER -										
8	1	SINK, HAND	A									
9	1	BASE CABINETS WITH S/S COUNTER TOP	A	20.0			120	1	X			
10	1	WALL CABINETS	A									
11	1	WALL FLASHING	A									
12	1	EXHAUST HOOD, CLASS ONE	A	15.0			120	1	X		30/3	CONTROL PANEL, DAMPERS
13	1	RANGE, RESTAURANT, ELECTRIC	D	72.0	15.0		208	3	X			PROVIDE SHUNT TRIP CIRCUIT BREAKER
14	1	OVEN, CONVECTION, ELECTRIC (TOP)	E	58.0	12.0	1/2	208	3	X		100/3	PROVIDE SHUNT TRIP CIRCUIT BREAKER
15	1	OVEN, CONVECTION, ELECTRIC (BOTTOM)	E	58.0	12.0	1/2	208	3	X		100/3	PROVIDE SHUNT TRIP CIRCUIT BREAKER
16	1	FIRE SUPPRESSION SYSTEM	A	15.0			120	1	X			
17	1	MILK COOLER	D	9.1		1/2	120	1	X	5-15P		
18	1	CASHIER STATION	D				120	1	X	5-15P		
19	1	HOT FOOD STATION	D	25.0	3.0		120	1	X	5-50P		
20	1	DRY/COLD FOOD STATION	D									
21	2	ROLL DOWN COUNTER DOORS	C									
22	1	PASS THRU COUNTER LEDGE	A									
23	2	TRANSPORT CABINETS	D									
24	1	GREASE INTERCEPTOR	C	3.4			120	1	X			
25	1	SINK, 3 COMPARTMENT	A									
26	1	POT RACK	D									
27	1	WAREWASHER, UNDERCOUNTER, HIGH TEMP	A	37.7			208	1	X		60/3	
28	1	COUNTER, PREPARATION WITH SINK	A	20.0			120	1	X			(2) GFI RECEPTACLES PROVIDED WITH COUNTER
29	1	SHelf, TABLE MOUNTED	A									
30	2	TRASH CAN	B									
31	1	MICROWAVE OVEN, CONVECTION	D		3.3		208	1	X	6-20P		
32		- SPARE NUMBER -										
33	1	WASHER	B	10.0			120	1	X	5-15P		
34	1	DRYER	B	35			240	1	X	6-50P		

NOTE:  
1. ALL KITCHEN ELECTRICAL WITH EXCEPTION OF CONNECTION OF RANGE TO JUNCTION BOX WITH FLEX CONDUIT IS IN BASE BID. FINAL CONNECTION OF RANGE IN ALTERNATE NO.2

1 FOOD SERVICE PLAN  
3/8" = 1'-0"



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GASTINEAU ELEMENTARY SCHOOL  
RENOVATION  
CBJ Contract No. E11-157  
JUNEAU, ALASKA

SHEET TITLE:  
FOOD SERVICE  
PLAN AND  
SCHEDULE POWER

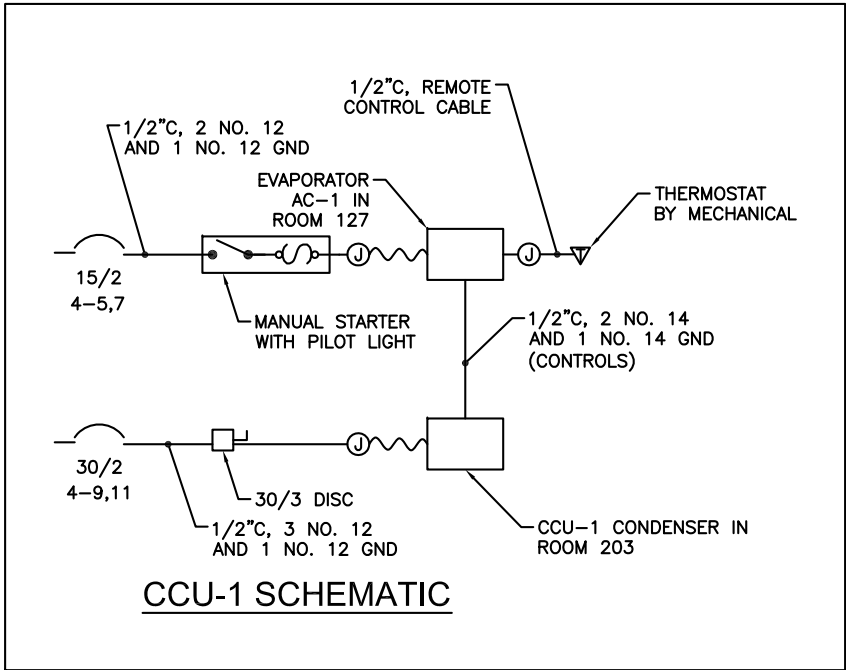
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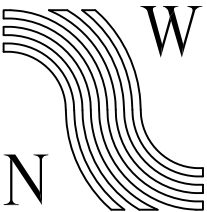
MECHANICAL EQUIPMENT SCHEDULE								
EQUIPMENT	LOCATION	HP/KW	VOLTS/PH	STARTER TYPE/ NEMA SIZE	STARTER SWITCH	STARTER LOCATION	DISCONNECT AT MOTOR	REMARKS
BOILER B1	BOILER RM	3/4	120/1	MANUAL	ON/OFF	BOILER ROOM STARTER BOARD		
BOILER B2	BOILER RM	3/4	120/1	MANUAL	ON/OFF	BOILER ROOM STARTER BOARD		
PUMP P-1A	BOILER RM	5	208/3	VFD		BOILER ROOM STARTER BOARD	60/3	DISCONNECT AT VFD
PUMP P-1B	BOILER RM	5	208/3	VFD		BOILER ROOM STARTER BOARD	60/3	DISCONNECT AT VFD
PUMP P-2	BOILER RM	1/2	120/1	MAG $\phi$	HOA	BOILER ROOM STARTER BOARD		
PUMP P-3	BOILER RM	1/2	120/1	MAG $\phi$	HOA	BOILER ROOM STARTER BOARD		
PUMP P-4	203	1/2	120/1	MAG $\phi$ (4)	HOA	ROOM 203 STARTER BOARD	30/3	
PUMP P-5	201	1/2	120/1	MAG $\phi$ (R)	HOA	ROOM 203 STARTER BOARD		
HWRP-1	BOILER RM	1/8	120/1	MAG $\phi$	HOA	BOILER ROOM STARTER BOARD	30/3	
HWH-1	BOILER RM	30KW	208/3	NONE			200/3	
AHU-1 SF	203	20HP	208/3	NEMA 3 (4)		ROOM 203 STARTER BOARD	100/3	
AHU-1 RF	203	15HP	208/3	NEMA 3 (4)		ROOM 203 STARTER BOARD	100/3	
AHU-1	203		120/1	NONE			30/3	LTG + REC CIRCUIT
AHU-2	201A	5HP	208/3	MAG 1	HOA	ROOM 201 STARTER BOARD	60/3	
AHU-3	201A	1HP	208/3	VFD		ROOM 201	(2) 30/3	VFD IN KITCHEN EXHAUST HOOD. DISCONNECT AT VFD AND AHU-3
VU-4 (E)	201		208/3	MAG	HOA	ROOM 201 STARTER BOARD		
VU-5 (E)	201		208/3	MAG	HOA	ROOM 201 STARTER BOARD		
VU-6 (E)	202		208/3	MAG	HOA	ROOM 202 STARTER BOARD		EXTG TO REMAIN- BASE BID, REMOVE IN ALT NO. 6
EF-1	203	1	208/3	MAG $\phi$ (4)	HOA	ROOM 203 STARTER BOARD		
EF-2	201	1	208/3	MAG $\phi$ (R)	HOA	ROOM 201 STARTER BOARD		
EF-3	ROOF	1 1/2	208/3	VFD		ROOM155	(2) 30/3	STAINLESS STEEL DISC. AT ROOF. VFD IN KITCHEN HOOD DISC. AT VFD
EF-4	203	1/2	120/1	MAG $\phi$ (4)	HOA	ROOM 203 STARTER BOARD	30/3	
RF-4 (E)	201		208/3	MAG	HOA	ROOM 201		
RF-5 (E)	201		120/1	MAG	HOA	ROOM 201		
UNIT HEATER (UH) (E)	201		120/1	MANUAL	ON/OFF	ROOM 201		
CCU (E)	202+ROOF							
CCU-1	203		208/1	NONE			30/3	
CONTROL PANEL	BOILER RM		120/1					POWER CONTROL PANEL
CONTROL PANEL	201		120/1					POWER CONTROL PANEL
CONTROL PANEL	203		120/1					POWER CONTROL PANEL
CUH-1 (E)	VESTIBULE 162	1/12	120/1	MANUAL	ON/OFF	WALL MOUNT AT UNIT		
CUH-1	VESTIBULE 101	1/12	120/1	MANUAL	ON/OFF	WALL MOUNT AT UNIT		MOUNT NEXT TO UNIT BEHIND COVER
CUH-2	VESTIBULE 146	1/10	120/1	MANUAL	ON/OFF	WALL MOUNT AT UNIT		MOUNT NEXT TO UNIT BEHIND COVER
AC-1	127		208/1	MANUAL	ON/OFF			
KITCHEN HOOD	155		120/1					MELINK PROCESSOR
KITCHEN HOOD	155		120/1					VENTILATION DAMPER MOTORS
VU-6 (ALT-6)	202	7.5HP	208/3	VFD		ROOM 202	60/3	DISCONNECT AT VFD ALT NO. 6

NOTES:

- ALL EQUIPMENT IS NEW UNLESS OTHERWISE NOTED.
- ALL MAGNETIC STARTERS SHALL BE NEMA RATED, NON-FUSIBLE COMBINATION STARTER/DISCONNECTS WITH HOA SWITCH UNLESS OTHERWISE NOTED.
- ALL DISCONNECTS SHALL BE HEAVY DUTY, 600V, NON-FUSIBLE, WITH LOCKABLE HANDLE.

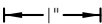
(4) PROVIDE MAGNETIC STARTER ONLY

1 MECHANICAL EQUIPMENT SCHEDULE  
NO SCALE



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GASTINEAU ELEMENTARY SCHOOL

RENOVATION

CBJ Contract No. E11-157  
JUNEAU, ALASKA

SHEET TITLE:

MECHANICAL  
EQUIPMENT  
SCHEDULE

DATE: NOV. 15, 2010







REVISION: ....

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SHEET #

E2.7

PANEL MDP		NEW CONFIG	SIZE	VOLTS, PHASE			MOUNTING		MAIN	LOCATION	
			600A	120/208V, 3φ, 4W			SURFACE		6	BOILER ROOM	
CKT NO	DESCRIPTION	C/B SIZE	KVA					C/B SIZE	DESCRIPTION	CKT NO	
			CKT	Aφ	Bφ	Cφ	CKT				
1	PANEL P 	200/3	8.0	21.0			13.0	*225/3	PANEL 4	2	
3	----	----	8.0		23.2		15.2	----	----	4	
5	----	----	8.0			22.4	14.4	----	----	6	
7	PANEL J 	150/3	7.9	7.9			0.0			8	
9	----	----	7.3		7.3		0.0			10	
11	----	----	4.9			4.9	0.0			12	
13	PANEL M 	*150/3	16.7	16.7			0.0	200/3	PANEL C 	14	
15	----	----	8.9		8.9		0.0	----	----	16	
17	----	----	9.1			9.1	0.0	----	----	18	
19	PANEL L 	150/3	11.5	21.5			10	*125/3	HWH-1	20	
21	----	----	9.6		19.6		10	----	----	22	
23	----	----	9.4			19.4	10	----	----	24	
25	PANEL K	*225/3	22.9	33.0			10.1	*150/3	PANEL H 	26	
27	----	----	19.6		32.7		13.1	----	----	28	
29	----	----	19.7			30.3	10.6	----	----	30	
31	PANEL 2	200/3	9.9	9.9			0.0			32	
33	----	----	10.1		10.1		0.0			34	
35	----	----	9.4			9.4	0.0			36	
37	PANEL 3	150/3	13.4	13.4			0.0			38	
39	----	----	9.5		9.5		0.0			40	
41	----	----	12.3			12.3	0.0			42	
TOTAL CONNECTED LOAD = 342.5KVA/951A			123.4	111.3	107.8						

\* NEW CIRCUIT BREAKER

PANEL P SECTION 1 NEW CONFIG			SIZE	VOLTS, PHASE			MOUNTING	MAIN	LOCATION		
			225A	120/208VY 3φ, 4W			SURFACE	LUGS	BOILER ROOM		
CKT NO	DESCRIPTION	C/B SIZE	KVA					C/B SIZE	DESCRIPTION	CKT NO	
			CKT	Aφ	Bφ	Cφ	CKT				
1	B1 BOILER	*20/1	0.8				0.0	15/1	SPARE	2	
3	B2 BOILER	*20/1	0.8				0.0	15/1	SPARE	4	
5	SPARE	*20/1	0.0				0.0	15/1	SPARE	6	
7	SPARE	*20/1	0.0				0.0	20/1	SPARE	8	
9	SPARE	*20/1	0.0				0.0	15/1	P-4 	10	
11	REC	*20/1	0.6				0.2	20/1	HWRP-1	12	
13	P-1A	*35/3	1.8				0.0	20/2	SPARE	14	
15	----	----	1.8				0.0	----	----	16	
17	----	----	1.8				0.0		SPACE	18	
19	P-2	*25/1	0.8				0.0	20/2	SPARE	20	
21	P-3	*25/1	0.8				0.0	----	----	22	
23	CCI COMPUTER CONTROL 	20/1	0.0				0.0	20/1	SPARE	24	
25	P-1B	*35/3	1.8				0.0	15/3	SPARE	26	
27	----	----	1.8				0.0	----	----	28	
29	----	----	1.8				0.0	----	----	30	
31	SPACE		0.0				0.0	20/3	SPARE	32	
33	P-5	15/1	0.2				0.0	----	----	34	
35	SPACE		0.0				0.0	----	----	36	
37	SPARE	20/3	0.0				0.0	20/1	SPARE	38	
39	----	----	0.0				0.0	30/2	SPARE	40	
41	----	----	0.0				0.0	----	----	42	
TOTAL ESTIMATED LOAD = 24KVA/66AMPS											

\* NEW CIRCUIT BREAKER

PANEL P SECTION 2 NEW CONFIG			SIZE	VOLTS, PHASE			MOUNTING	MAIN	LOCATION		
			225A	120/208VY 3Φ, 4W			SURFACE	LUGS	BOILER ROOM		
CKT NO	DESCRIPTION	C/B SIZE	KVA					C/B SIZE	DESCRIPTION	CKT NO	
			CKT	AΦ	BΦ	CΦ	CKT				
43	VU-4 ⌞E⌟	15/3	0.0				0.0	20/3	RF-4 ⌞E⌟	44	
45	-----	---	0.0				0.0	---	-----	46	
47	-----	---	0.0				0.0	---	-----	48	
49	VU-5 ⌞E⌟	15/3	0.0				0.6	20/1	RF-5 ⌞E⌟	50	
51	-----	---	0.0				0.0	20/1	RF-6 ⌞E⌟	52	
53	-----	---	0.0				0.0	20/1	SPARE	54	
55	VU-6, PDC CONTROLS MZ-11,12,13,14 ⌞E⌟	20/1	0.0				0.0	20/1	SPARE	56	
57	CUH-1 ⌞E⌟	15/1	0.0				0.0	20/1	UH FAN ROOM ⌞E⌟	58	
59	SPARE	15/1	0.0				0.0	20/1	LGT FAN ROOM 200 ⌞E⌟	60	
61	REC. ⌞E⌟	*20/1	0.0				0.0	20/1	2 DUPLEX REC FOR 200 ⌞E⌟	62	
63	RIGHT OF PANEL ⌞E⌟	*20/1	0.0				0.0	20/1	SPARE	64	
65	ROOM 201 MECHANICAL CONTROL PANEL ⌞E⌟	*20/1	0.1				1.1	20/1	BOILER ROOM LIGHTING	66	
67	EF-2	15/3	0.3				0.0	20/2	PARKING LOT LIGHTS ⌞E⌟	68	
69	-----	---	0.3				0.0	---	-----	70	
71	-----	---	0.3				1.7	*35/2	AHU-2	72	
73	SPARE	15/3	0.0				1.7	---	-----	74	
75	-----	---	0.0				1.7	---	-----	76	
77	-----	---	0.0				0.0		SPACE	78	
79	SPARE	15/3	0.0				0.0	20/3	SPARE	80	
81	-----	---	0.0				0.0	---	-----	82	
83	-----	---	0.0				0.0	---	-----	84	

\* NEW CIRCUIT BREAKER



W

N

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RENOVATION

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JUNEAU, ALASKA

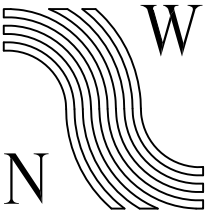
PANEL SCHEDULES  
BOILER ROOM

DATE: NOV. 15, 2010  
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PANEL J NEW CONFIG		SIZE	VOLTS, PHASE			MOUNTING		MAIN	LOCATION		
		225A	120/208V, 3φ, 4W			FLUSH		LUGS	GYMNASIUM OFFICE		
CKT NO	DESCRIPTION	C/B SIZE	KVA					C/B SIZE	DESCRIPTION	CKT NO	
			CKT	Aφ	Bφ	Cφ	CKT				
1	LIBRARY LAPTOP	*20/1	0.4	1.9			1.5	20/1	BASE164,A2R163,2R160,GYM159 LTG	2	
3	CARD ACCESS	*20/1	0.1		1.1		1.0	20/1	GYM 159 <span>E</span>	4	
5	COMMONS SCREENS	*20/1	1.0			2.0	1.0	20/1	GYM 159 <span>E</span>	6	
7	JAN 149 WASHER	20/1	0.6	0.8			0.2	20/1	GYM 159 <span>E</span>	8	
9	JAN 149 DRYER	30/2	1.0		2.0		1.0	20/1	GYM 159 <span>E</span>	10	
11	JAN 149 DRYER	---	1.0			1.5	0.5	20/1	GYM 159 <span>E</span>	12	
13	JAN 149,150,151,CORR 165	20/1	1.2	1.8			0.6	20/1	COVERED PLAY AREA 100 <span>E</span>	14	
15	RESTROOM156,STOR154,KITHALL	20/1	1.0		2.0		1.0	20/1	COVERED PLAY AREA 100 <span>E</span>	16	
17	GYM SOUND SYS	20/1	0.5			0.9	0.4	20/1	COVERED PLAY AREA 100 <span>E</span>	18	
19	GYM OFFICE	20/1	0.6	2.0			1.4	20/1	PLAY AREA 100 <span>E</span>	20	
21	A2R OFFICE 160, VEST 162	20/1	1.0		1.6		0.6	20/1	SPARE	22	
23	GYM EAST WALL	20/1	0.4			0.4	0.0	*30/3	TVSS	24	
25	A2R GROUP 163	20/1	1.4	1.4			0.0	---	----	26	
27	BASE 164	20/1	0.6		0.6		0.0	---	----	28	
29	GYMNASIUM 159 <span>E</span>	20/1	0.0			0.0	0.0	20/1	LIBRARY WORK AREA	30	
31	RALLY 157 <span>E</span>	20/1	0.0	0.0			0.0	20/1	EXTERIOR LTG <span>E</span>	32	
33	STOR 159A,B,C <span>E</span>	20/1	0.0		0.0		0.0	20/1	EXTERIOR LTG <span>E</span>	34	
35	COVERED PLAY AREA 100 <span>E</span>	20/1	0.0			0.0	0.0	20/1	EXTERIOR LTG <span>E</span>	36	
37	PROJECTION SCREEN GYM 159 <span>E</span>	20/1	0.0	0.0			0.0	20/1	RALLY 157 LTG <span>E</span>	38	
39	UNKNOWN <span>E</span>	20/1	0.0		0.0		0.0	20/1	STORAGE 159A,B,C <span>E</span>	40	
41	CUH-1	20/1	0.1			0.1	0.0	20/1	MAGNETIC DOOR HOLDER	42	
TOTAL CONNECTED LOAD = 20.1 KVA/ 56 AMPS				7.9	7.3	4.9					

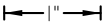
\* NEW CIRCUIT BREAKER

PANEL 4		SIZE	VOLTS, PHASE			MOUNTING		MAIN	LOCATION	
		225A	120/208V, 3φ, 4W			SURFACE		LUGS ONLY	203	
CKT NO	DESCRIPTION	C/B SIZE	KVA					C/B SIZE	DESCRIPTION	CKT NO
			CKT	Aφ	Bφ	Cφ	CKT			
1	SPARE	20/1	0.0	0.0			0.0	20/1	SPARE	2
3	LTG	20/1	0.7		1.3		0.6	20/1	PUMP P-4	4
5	AC-1 EVAPORATOR	15/2	0.5			1.1	0.6	20/1	PUMP P-5	6
7	---	---	0.5	7.5			7.0	100/3	AHU-1 SF	8
9	CCU-1 CONDENSER	30/2	1.0		8.0		7.0	---	----	10
11	---	---	1.0			8.0	7.0	---	----	12
13	MECH CONTROL PANEL	20/1	0.2	5.2			5.0	90/3	AHU-1 RF	14
15	EF-5	20/1	0.6		5.6		5.0	----	----	16
17	EF-1	20/3	0.3			5.3	5.0	----	----	18
19	-----	---	0.3	0.3			0.0	20/1	AHU-1 LIGHTS & RECEPTACLES	20
21	-----	---	0.3		0.3		0.0	30/3	TVSS	22
23			0.0			0.0	0.0	----	----	24
25			0.0	0.0			0.0	----	----	26
27			0.0		0.0		0.0			28
29			0.0			0.0	0.0			30
31										32
33										34
35										36
37										38
39										40
41										42
TOTAL CONNECTED LOAD = 42.6 KVA/ 118 AMPS				13.0	15.2	14.4				



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GASTINEAU ELEMENTARY SCHOOL

RENOVATION

CRJ Contract No. E11-157  
JUNEAU, ALASKA

SHEET TITLE:

PANEL SCHEDULES  
J & 4

DATE: NOV. 15, 2010

REVISION: ....

CHECKED BY: MGM

DRAWN: DMP

SHEET #

E2.9

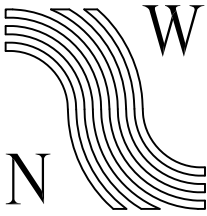
PANEL M NEW CONFIG			SIZE	VOLTS, PHASE			MOUNTING		MAIN	LOCATION		
			225A	120/208V, 3φ, 4W			SURFACE		LUGS	STORAGE 143		
CKT NO	DESCRIPTION	C/B SIZE	KVA					C/B SIZE	DESCRIPTION	CKT NO		
			CKT	Aφ	Bφ	Cφ	CKT					
1	BOYS 412, GIRLS 141, STOR. LTG	20/1	8.0	8.6			0.6	20/1	BOYS 142, GIRLS 141, RESTR 139	2		
3	ADMIN, PRINCIPAL, CONF. LTG	20/1	1.9		2.5		0.6	20/1	NURSE 138	4		
5	MUSIC 140 LTG	20/1	1.7			2.7	1.0	20/1	NURSE 138	6		
7	COMMONS LTG	20/1	1.4	2.0			0.6	20/1	CORRIDOR, ENTRY 146	8		
9	COMMONS LTG	20/1	0.8		1.6		0.8	20/1	STOR 143, 144, ADMIN 144	10		
11	CORRIDOR AT COMMONS LTG	20/1	1.4			2.2	0.8	20/1	CONF 144	12		
13	CORRIDOR AT COMMONS LTG	20/1	1.0	1.8			0.8	20/1	PRINCIPAL 144	14		
15	KITCHEN LTG	20/1	1.6		2.0		0.4	20/1	ADMIN 144	16		
17	STOR & JAN LTG	20/1	0.9			1.3	0.4	*20/1	ADMIN 144	18		
19	VEST 162, CORR 161 LTG	20/	0.4	0.8			0.4	*20/1	ADMIN 144	20		
21	EXTERIOR ENTRY CANOPY LTG	20/1	0.4		0.4		0.0	*20/1	SPARE	22		
23	EXTERIOR STAIRS & SIGN LTG	20/1	0.7			1.3	0.6	*20/1	COMMONS SOUND SYS	24		
25	EXTERIOR POLES FRONT DOOR LTG	*30/2	0.8	1.6			0.8	*20/1	MUSIC 140	26		
27	---- ALT NO. 3	---	0.8		1.4		0.6	*20/1	MUSIC 140	28		
29	CUH-2	20/1	0.1			0.9	0.8	*20/1	MUSIC 140	30		
31	TVSS	*30/3	0.0	0.6			0.6	*20/1	COMMONS 145 WEST WALL	32		
33	----(R)	---	0.0		0.6		0.6	*20/1	COMMONS 145 EAST WALL	34		
35	----	---	0.0			0.4	0.4	*20/1	COMMONS 145 SOUTH WALL	36		
37	EF-2	*20/3	0.3	1.3			1.0	*20/1	DISPLAY CASES	38		
39	----	---	0.3		0.4		0.1	*20/1	CARD ACCESS	40		
41	----	---	0.3			0.3	0.0	*20/1		42		
TOTAL CONNECTED LOAD = 34.7 KVA/ 96 AMPS				16.7	8.9	9.1						

PANEL H			NEW CONFIG		SIZE	VOLTS, PHASE		MOUNTING		MAIN		LOCATION	
				225A	120/208V, 3φ, 4W		FLUSH		LUGS ONLY		CORRIDOR 137		
CKT NO	DESCRIPTION	C/B SIZE	KVA				Δ	C/B SIZE	DESCRIPTION	CKT NO			
			CKT	Aφ	Bφ	Cφ	CKT						
1	FOYER 117 & CORRIDOR 137	20/1	0.8	1.2			0.4	20/1	JAN 119, TOILET 11	2			
3	ELL 120	20/1	1.2		1.4		0.2	20/1	STAFF 115 REF	4			
5	RESOURCES 121	20/1	0.8			1.4	0.6	20/1	STAFF 115 KITCHEN COUNTERS	6			
7	KINDERGARTEN 124	20/1	0.8	1.2			0.4	20/1	STAFF 115 KITCHEN COUNTERS	8			
9	KINDERGARTEN 124	20/1	1.0		1.2		0.2	20/1	STAFF 115 MICROWAVE	10			
11	KINDERGARTEN 124	20/1	1.0			1.8	0.8	20/1	STAFF 115 LOUNGE	12			
13	WIRELESS ACCESS POINT	20/1	0.2	0.8			0.6	*20/1	STAFF 118	14			
15	BOYS 123, GIRLS 122, 125 LTG	20/1	1.8		2.6		0.8	*20/1	STAFF 118	16			
17	STAFF 118, 115	20/1	1.5			1.9	0.4	*20/1	STAFF 118	18			
19	CLASSROOM 128	20/1	1.8	2.3			0.5	*20/2	STAFF COPIER	20			
21	CLASSROOM 130	20/1	1.8		2.3		0.5	----	----	22			
23	132,133,134,135 SPECIAL ED	20/1	1.9			2.3	0.4	*20/1	BOYS & GIRLS 122 & 123	24			
25	NURSE 138, SPECIAL ED	20/1	1.7	2.3			0.6	*20/1	OFFICE 125	26			
27	KINDERGARTEN 124	20/1	1.9		2.7		0.8	*20/1	OFFICE 125	28			
29	ELL & RESOURCES	20/1	1.0			2.6	1.6	*20/1	CLASSROOM 128	30			
31	SPARE	20/1	0.0	0.8			0.8	*20/1	CLASSROOM 128	32			
33	SPARE	20/1	0.0		1.4		1.4	*20/1	CLASSROOM 128	34			
35	SPARE	20/1	0.0			0.6	0.6	*20/1	CORRIDOR 137	36			
37	TVSS	*30/3	0.0	1.5			1.5	*20/1	CORRIDOR 137 LIGHTING	38			
39	-----	----	0.0		1.5		1.5	*20/1	CORRIDOR 137 LIGHTING	40			
41	-----	----	0.0			0.0	0.0	*20/1	SPARE	42			
TOTAL CONNECTED LOAD = 33.8 KVA/ 94 AMPS				10.1	13.1	10.6							

Δ PROVIDE FLUSH COVER

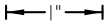
PANEL L NEW CONFIG			SIZE	VOLTS, PHASE			MOUNTING		MAIN	LOCATION		
			225A	120/208V, 3φ, 4W			SURFACE		LUGS	SERVER 127		
CKT NO	DESCRIPTION	C/B SIZE	KVA					C/B SIZE	DESCRIPTION	CKT NO		
			CKT	Aφ	Bφ	Cφ	CKT					
1	TOILETS AND STORAGE 129, 124	20/1	0.8	2.2			1.4	20/1	KINDERGARDEN 129	2		
3	SPARE	20/1	0.4		1.2		0.8		KINDERGARDEN 129	4		
5	STORAGE 126	20/1	0.4			1.2	0.8		KINDERGARDEN 129	6		
7	STORAGE 126	20/1	0.4	2.0			1.6		CLASSROOM 131	8		
9	SPARE	20/1	0.0		0.8		0.8		CLASSROOM 131	10		
11	STORAGE, TOILET & SERVER LTG	20/1	1.1			2.5	1.4		CLASSROOM 131	12		
13	KINDERGARDEN 129	20/1	1.9	3.3			1.4		CLASSROOM 136	14		
15	CLASSROOM 131	20/1	1.9		2.7		0.8		CLASSROOM 136	16		
17	CLASSROOM 136	20/1	0.3			1.7	1.4		CLASSROOM 136	18		
19	UPS	*30/3	0.8	0.8			0.0		SPARE	20		
21	---	---	0.8		1.2		0.4		CORRIDOR 137	22		
23	---	---	0.8			1.8	1.0		SPECIAL EDU 135	24		
25	MAGNETIC DOOR HOLDER	20/1	1.0	1.8			0.8		SPECIAL EDU 135	26		
27	CARD ACCESS SYSTEM	20/1	0.5		1.7		1.2		SPEC EDU SP, STOR, REST R.	28		
29	SPARE	20/1	0.0			0.6	0.6		PSYCH 134	30		
31	SPARE	20/1	0.0	0.6			0.6		OT/PT 133	32		
33	SPARE	20/1	0.0		0.6		0.6		SPEECH 132	34		
35	SPARE	20/1	0.0			1.6	1.6		CLASSROOM 130	36		
37	TVSS	30/3	0.0	0.8			0.8		CLASSROOM 130	38		
39	---	---	0.0		1.4		1.4		CLASSROOM 130	40		
41	---	---	0.0			0.0	0.0		SPARE	42		
TOTAL CONNECTED LOAD = 30.5 KVA/ 85 AMPS				11.5	9.6	9.4						

UPS			SIZE	VOLTS, PHASE			MOUNTING		MAIN		LOCATION		
			100A	120/208V, 3φ, 4W			SURFACE		LUGS ONLY		SERVER 127		
CKT NO	DESCRIPTION	C/B SIZE	KVA					C/B SIZE		DESCRIPTION	CKT NO		
			CKT	Aφ	Bφ	Cφ	CKT						
1	SPARE	20/1	0.0	0.4			0.4	20/1		DATA RACK 102B	2		
3	SPARE	20/1	0.0		0.4		0.4			DATA RACK 102A	4		
5	SPARE	20/1	0.0			0.4	0.4			DATA RACK 137C	6		
7	SPARE	20/1	0.0	0.2			0.2			DATA RACK 137B	8		
9	SPARE	20/1	0.0		0.2		0.2			VIDEO RACK 127	10		
11	SPARE	20/1	0.0			0.2	0.2			DATA RACK 127	12		
13	SPARE	20/1	0.0	0.2			0.2			INTERCOM RACK 127	14		
15	SPARE	20/1	0.0		0.2		0.2			FIRE ALARM 127	16		
17	SPARE	20/1	0.0			0.2	0.2			TTB 127	18		
TOTAL CONNECTED LOAD = 2.4 KVA/ 7 AMPS				0.8	0.8	0.8							



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GASTINEAU ELEMENTARY SCHOOL

RENOVATION

CBJ Contract No. E11-157  
JUNEAU, ALASKA

SHEET TITLE:

PANEL SCHEDULES  
M, H, L, & UPS

DATE: NOV. 15, 2010

REVISION: ....

CHECKED BY: MGM

PANEL K		SIZE	VOLTS, PHASE			MOUNTING		MAIN	LOCATION		
		225	120/208V, 3ϕ, 4W			FLUSH		LUGS ONLY	KITCHEN		
CKT NO	DESCRIPTION	C/B SIZE	KVA					C/B SIZE	DESCRIPTION	CKT NO	
			CKT	Aϕ	Bϕ	Cϕ	CKT				
1	COUNTER REC	20/1	0.4	0.5			0.1	20/1	KITCHEN FIRE SUPPRESSION SYS	2	
3	COUNTER REC	20/1	0.4		1.5		1.1	20/1	MILK COOLER	4	
5	ICE MAKER	20/1	1.2			1.6	0.4	20/1	REC AT NORTH END	6	
7	FREEZER	20/1	1.3	4.3			3.0	50/1	HOT FOOD STATION	8	
9	REFRIGERATOR	20/1	1.1		2.6		1.5	30/1	GARBAGE DISPOSAL	10	
11	AHU–3 VFD	20/3	0.3			4.3	4.0	50/2	WARE WASHER	12	
13	(KITCHEN EXHAUST HOOD)	----	0.3	4.3			4.0	----	----	14	
15	(KITCHEN EXHAUST HOOD)	----	0.3		2.1		1.8	20/1	PREP COUNTER	16	
17	KITCHEN RANGE	100/3	5.0			5.4	0.4	20/2	MICROWAVE OVEN	18	
19	WITH SHUNT TRIP	----	5.0	5.4			0.4	----	----	20	
21	----	----	5.0		5.1		0.1	20/1	KITCHEN HOOD PROCESSOR	22	
23	----	----	0.1			0.1	0.0	----	WITH SHUNT TRIP	24	
25	CONVECTION OVEN (TOP)	80/3	4.0	4.1			0.1	20/1	HOOD DAMPER MOTORS	26	
27	WITH SHUNT TRIP	----	4.0		4.3		0.3	20/3	EF–3 VFD	28	
29	----	----	4.0			4.3	0.3	----	(KITCHEN EXHAUST HOOD)	30	
31	----	----	0.0	0.3			0.3	----	(KITCHEN EXHAUST HOOD)	32	
33	CONVECTION OVEN (BOTTOM)	80/3	4.0		4.0		0.0	20/1	SPARE	34	
35	WITH SHUNT TRIP	----	4.0			4.0	0.0	20/1	SPARE	36	
37	----	----	4.0	4.0			0.0	20/1	SPARE	38	
39	----	----	0.0		0.0		0.0	20/1	SPARE	40	
41	SHUNT TRIP CKT	20/1	0.0			0.0	0.0	20/1	SPARE	42	
TOTAL CONNECTED LOAD = 62.2KVA / 173 AMPS				22.9	19.6	19.7					

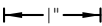
NOTE: WIRE SHUNT TRIP CIRCUIT TO TRIP CIRCUIT BREAKER WHEN KITCHEN FIRE SUPPRESSION SYSTEM ACTIVATES. ALSO SHUT DOWN AHU–3.

PANEL 3		SIZE	VOLTS, PHASE		MOUNTING		MAIN		LOCATION	
		225A	120/208V, 3φ, 4W		FLUSH		LUGS ONLY		CORRIDOR 102	
CKT NO	DESCRIPTION	C/B SIZE	KVA				C/B SIZE	DESCRIPTION	CKT NO	
			CKT	Aφ	Bφ	Cφ				CKT
1	SPARE	20/1	0.0	1.0			1.0	20/1	CLASSROOM 104	2
3	CLASSROOM 104 LIGHTING	20/1	1.9		3.1		1.2	20/1		4
5	CLASSROOM 106 LIGHTING	20/1	1.9			3.3	1.4	20/1		6
7	CLASSROOM 108 LIGHTING	20/1	1.9	3.5			1.6	20/1	CLASSROOM 106	8
9	CLASSROOM 103 LIGHTING	20/1	1.9		2.7		0.8	20/1		10
11	CLASSROOM 105 LIGHTING	20/1	1.9			3.3	1.4	20/1		12
13	CLASSROOM 107 LIGHTING	20/1	1.9	3.5			1.6	20/1	CLASSROOM 108	14
15	CUH-1	20/1	0.1		0.9		0.8	20/1		16
17	DOOR 101 CARD ACCESS	20/1	0.1			1.5	1.4	20/1		18
19	SPARE	20/1	0.0	1.6			1.6	20/1	CLASSROOM 107	20
21	SPARE	20/1	0.0		0.8		0.8	20/1		22
23	SPARE	20/1	0.0			1.4	1.4	20/1		24
25	SPARE	20/1	0.0	1.6			1.6	20/1	CLASSROOM 105	26
27	SPARE	20/1	0.0		0.8		0.8	20/1		28
29	SPARE	20/1	0.0			1.4	1.4	20/1		30
31	SPARE	20/1	0.0	1.6			1.6	20/1	CLASSROOM 103	32
33	SPARE	20/1	0.0		0.8		0.8	20/1		34
35	SPARE	20/1	0.0			1.4	1.4	20/1		36
37	TVSS	30/3	0.0	0.6			0.6	20/1	CORRIDOR 102	38
39	---	---	0.0		0.4		0.4	20/1	DATA CLOSET	40
41	---	---	0.0			0.0	0.0	20/1	SPARE	42
TOTAL CONNECTED LOAD = 35.2 KVA/ 98 AMPS				13.4	9.5	12.3				

PANEL 2		SIZE	VOLTS, PHASE		MOUNTING		MAIN	LOCATION		
		225A	120/208V, 3ϕ, 4W		FLUSH		LUGS ONLY	CORRIDOR 102		
CKT NO	DESCRIPTION	C/B SIZE	KVA					C/B SIZE	DESCRIPTION	CKT NO
			CKT	Aϕ	Bϕ	Cϕ	CKT			
1	SPARE	20/1	0.0	1.4			1.4	20/1	CLASSROOM 110	2
3	CLASSROOM 110 LIGHTING	20/1	1.9		2.7		0.8	20/1	CLASSROOM 110	4
5	CLASSROOM 109 LIGHTING	20/1	1.9			3.3	1.4	20/1	CLASSROOM 110	6
7	CLASSROOM 112 LIGHTING	20/1	1.0	2.2			1.2	20/1	CLASSROOM 112	8
9	CLASSROOM 114 LIGHTING	20/1	1.0		1.8		0.8	20/1	CLASSROOM 112	10
11	CLASSROOM 111 LIGHTING	20/1	1.0			2.2	1.2	20/1	CLASSROOM 114	12
13	CLASSROOM 113 LIGHTING	20/1	1.0	1.8			0.8	20/1	CLASSROOM 114	14
15	CORRIDOR 102 LIGHTING	20/1	0.9		2.5		1.6	20/1	CLASSROOM 109	16
17	CORRIDOR 102 LIGHTING	20/1	0.9			1.7	0.8	20/1	CLASSROOM 109	18
19	WEST PARKING LIGHTING	20/2	0.8	2.2			1.4	20/1	CLASSROOM 109	20
21	----- ALT NO. 4	----	0.8		2.0		1.2	20/1	CLASSROOM 111	22
23	MAGNETIC DOOR HOLDERS	20/1	1.0			1.8	0.8	20/1	CLASSROOM 111	24
25	EXTERIOR LIGHTS PLAY GROUND SIDE	20/1	0.7	1.9			1.2	20/1	CLASSROOM 113	26
27	EXTERIOR LIGHTS PLAY WEST END	20/1	0.3		1.1		0.8	20/1	CLASSROOM 113	28
29		20/1	0.0			0.4	0.4	20/1	CORRIDOR 102	30
31		20/1	0.0	0.4			0.4	20/1	DATA CLOSET	32
33		20/1	0.0		0.0		0.0	20/1		34
35		20/1	0.0			0.0	0.0	20/1		36
37	TVSS	30/3	0.0	0.0			0.0	20/1		38
39	----	----	0.0		0.0		0.0	20/1		40
41	----	----	0.0			0.0	0.0	20/1		42
TOTAL CONNECTED LOAD = 29.4 KVA/ 82 AMPS				9.9	10.1	9.4				



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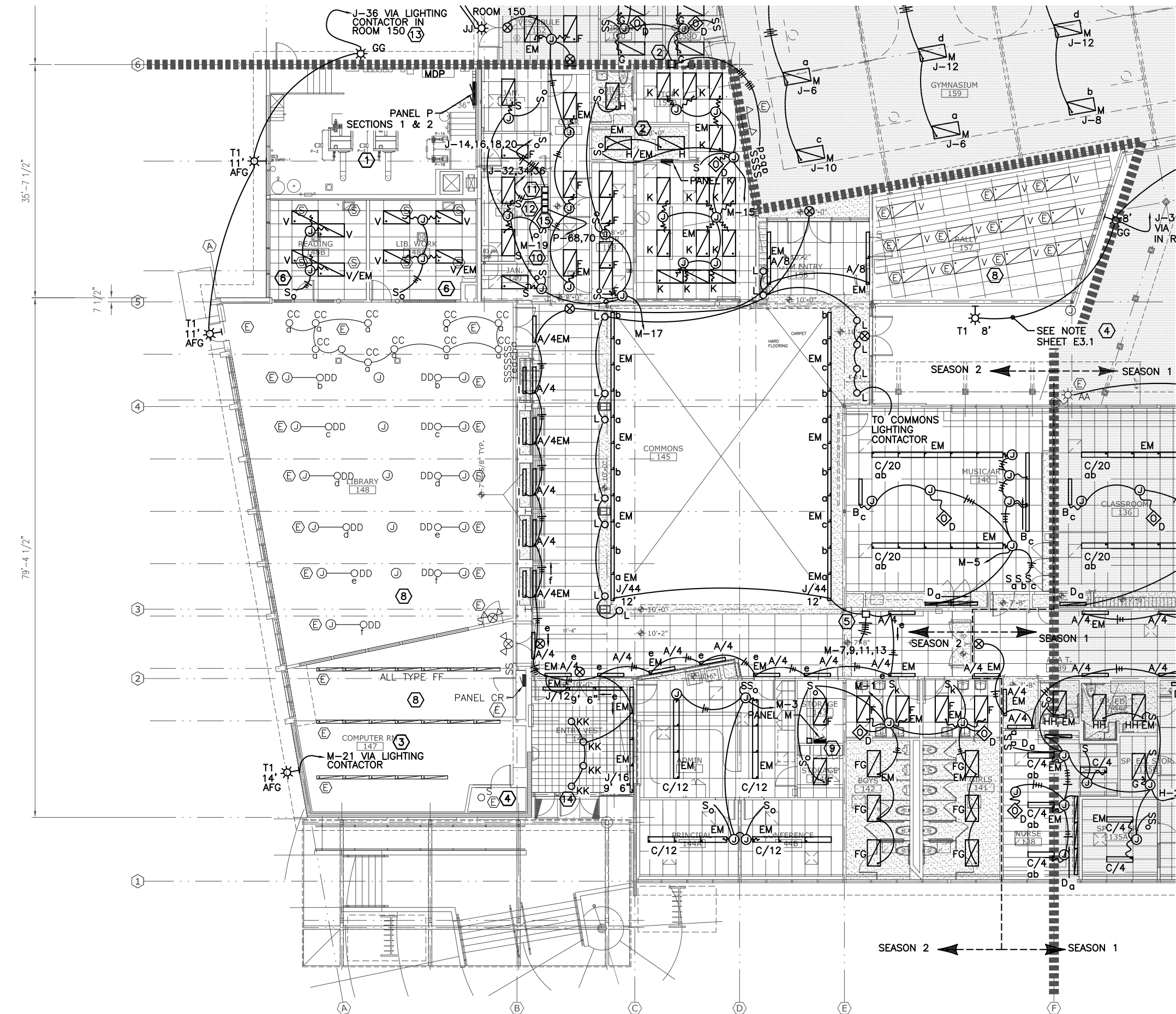
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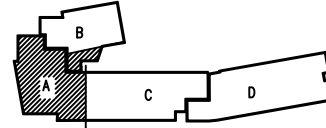
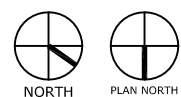
SHEET TITLE:  
PANEL SCHEDULES  
K, 2, & 3

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SHEET #  
E2.11



1 AREA A - FLOOR PLAN LIGHTING  
1/8" = 1'-0" on 22 x 34  
1/16" = 1'-0" on 11 x 17



- NOTES:
- SEE SHEET E2.4 FOR ELECTRICAL IN BOILER ROOM 154.
  - SEE SHEET E2.4 FOR ELECTRICAL IN ROOM 201+201A LOCATED ABOVE KITCHEN 155.
  - SEE SHEET E2.4 FOR ELECTRICAL IN ROOM 202 LOCATED ABOVE ROOM 147.
  - SEE SHEET E0.1 FOR EXTERIOR LIGHTING AT ENTRY AND ON NORTH WALL OF AREA A.
  - LIGHTING CONTACTOR FOR COMMONS AND ADJACENT CORRIDOR, MOUNT AT 72" AFF. MOUNT LIGHTING SWITCHES Sa-Sf IN CLOSET AT 48" AFF UNDER CONTACTOR.
  - REINSTALL EXISTING LUMINAIRES AS SHOWN. RECIRCUIT AS SHOWN. FEED FROM EXISTING LIGHTING CIRCUIT THAT FED THIS ROOM (PANEL C).
  - LIGHTING CONTACTOR FOR CORRIDOR BY COMMONS ENTRY, MOUNT AT 72" AFF. MOUNT Se AND Sf UNDER CONTACTOR IN CLOSET AT 48" AFF.
  - THE EXISTING LUMINAIRES IN THIS ROOM ARE TO REMAIN. THE LUMINAIRES IN RALLY ROOM 157 ARE FED FROM PANEL J. THE LUMINAIRES IN LIBRARY 148 AND COMPUTER ROOM 147 ARE FED FROM PANEL C. ALL CIRCUITING INCLUDING HOME RUNS IS TO REMAIN. REMOVE EXISTING RELAY IN RALLY ROOM 157 CIRCUIT.
  - EXTERIOR LIGHTING CONTACTOR FOR FRONT ENTRY AND DRIVE LIGHTING AT 72" AFF.
  - LIGHTING CONTACTOR FOR VEST 162 AND CORR 161.
  - LIGHTING CONTACTOR FOR COVERED PLAY AREA AND PLAY GROUND FLOOD LIGHTS. MOUNT AT 72" AFF.
  - LIGHTING CONTACTOR FOR EXTERIOR LIGHTING AREA A SOUTH AND AREA B. MOUNT AT 72" AFF.
  - MOUNT TYPE GG AND T1 LUMINAIRES TO OUTSIDE WALL FEED FROM JUNCTION BOX MOUNTED ON INTERIOR SIDE OF WALL WITH NIPPLE THROUGH TO LUMINAIRE. ROUTE CONDUIT CONCEALED ABOVE SUSPENDED CEILING, SURFACE MOUNTED IN BOILER ROOM, AND USE WIREMOLD 500 AND SURFACE JUNCTION BOX IN LIBRARY. FEED FROM LIGHTING CONTACTOR IN ROOM 150.
  - ADJUST TYPE KK LUMINAIRE TO ILLUMINATE TOTEM. LUMINAIRES SHALL BE NON-SWITCHED. CENTER LUMINAIRES IN 12" X 12" CEILING TILES.
  - LIGHTING CONTACTOR FOR SOUTH PARKING AREA LIGHTING.



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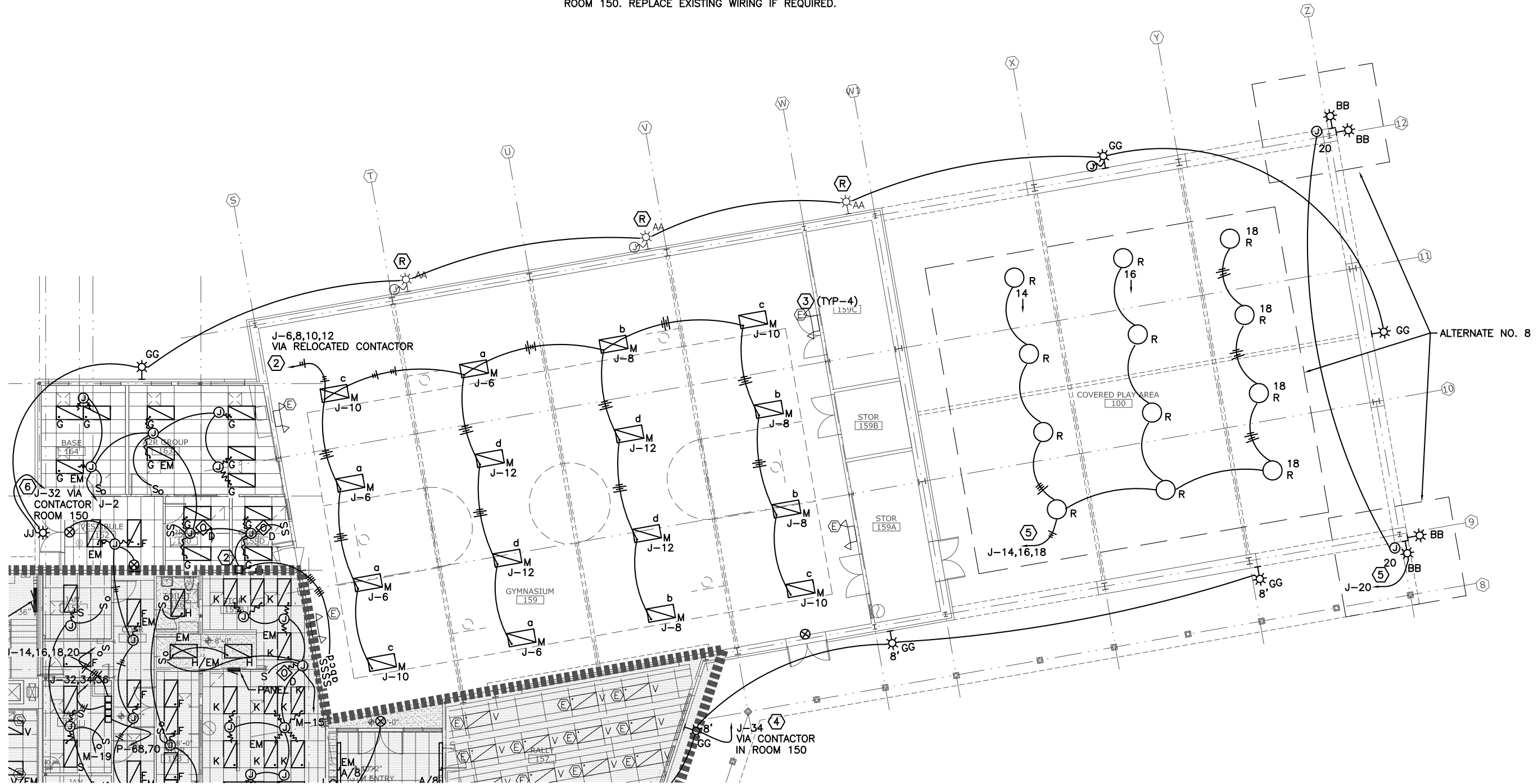
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**AREA A  
FLOOR PLAN  
LIGHTING**

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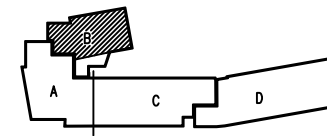
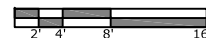
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**E3.0**

1. NOT USED

- 5 INSTALL TYPE R AND BB LUMINAIRES AT EXISTING JUNCTION BOX LOCATIONS. USE UNISTRUT AS REQUIRED TO MOUNT LUMINAIRES. REUSE EXISTING WIRING AND CONDUIT BACK TO JUNCTION BOX ABOVE KITCHEN, THEN NEW CONDUIT AND WIRING TO LIGHTING CONTACTOR IN ROOM 150. REPLACE EXISTING WIRING IF REQUIRED. THIS WORK IS INCLUDED IN ALTERNATED NO. 8
- 6 REUSE EXISTING WIRING TO POWER NEW TYPE GG AND REINSTALL TYPE AA LUMINAIRES MOUNTED AT EXISTING JUNCTION BOXES. ANCHOR LUMINAIRES TO EXTERIOR WALLS USING ANCHOR BOLTS OR OTHER FASTENERS OF APPROPRIATE TYPE. REUSE EXISTING CONDUIT AND WIRING TO JUNCTION BOXES ABOVE CEILING AT KITCHEN, THEN NEW CONDUIT AND WIRING TO LIGHTING CONTACTOR IN ROOM 150. REPLACE EXISTING WIRING IF REQUIRED.

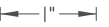


1  $1/8" = 1'-0"$  on 22 x 34  
 $1/16" = 1'-0"$  on 11 x 17



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# GASTINEAU ELEMENTARY SCHOOL

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## RENOVATION

CBJ Contract No. E11-137  
JUNEAU, ALASKA

SHEET TITLE:

## AREA B FLOOR PLAN LIGHTING

DATE: NOV. 15, 2010

REVISION: .....

CHECKED BY: MGM

DRAWN: DMP

SHEET # \_\_\_\_\_

## E3.1





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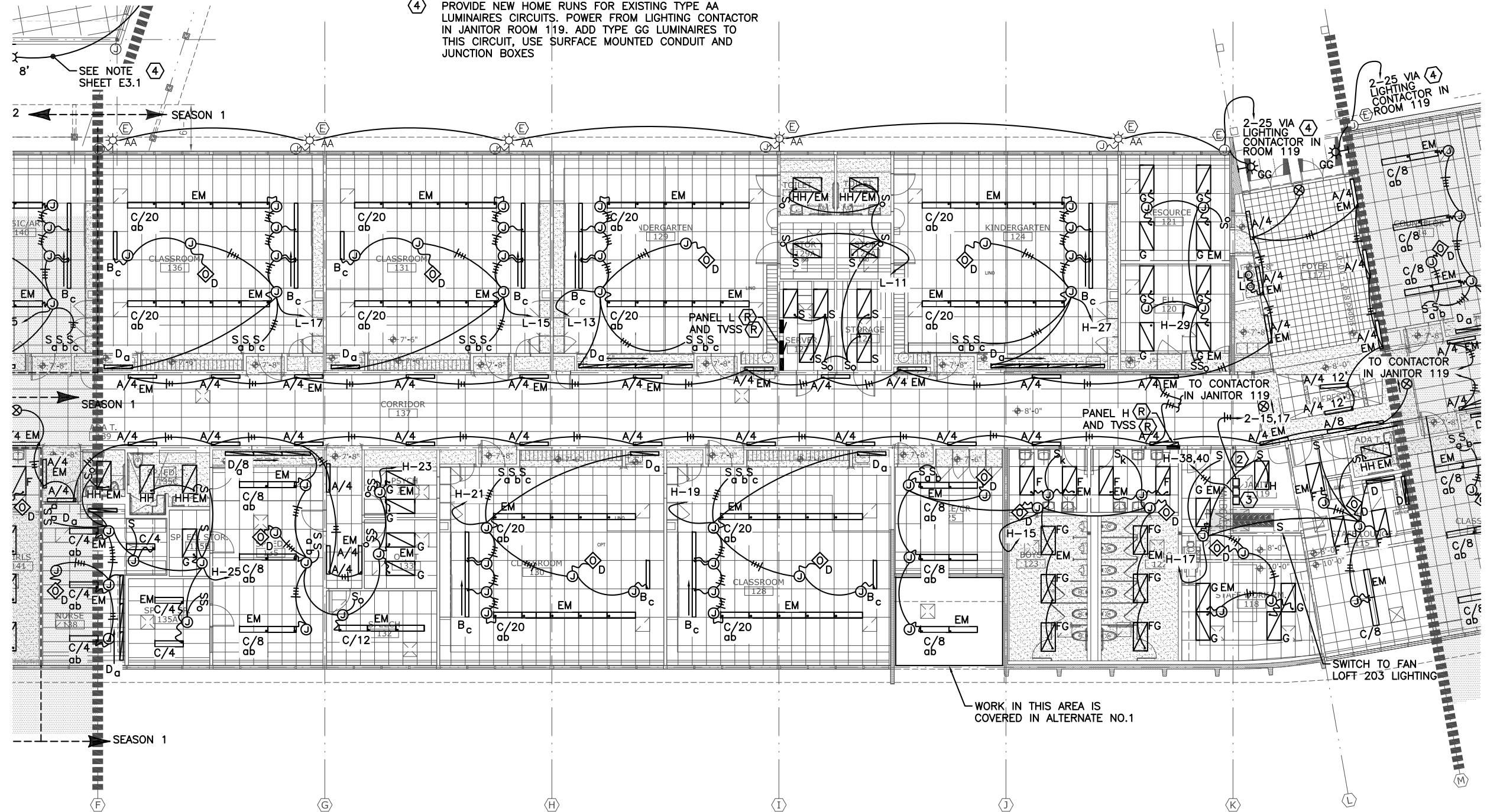
**GASTINEAU ELEMENTARY SCHOOL  
RENOVATION**  
CJ Contract No. E11-137  
JUNEAU, ALASKA

SHEET TITLE:	AREA C FLOOR PLAN LIGHTING
DATE:	NOV. 15, 2010
REVISION:	....
CHECKED BY:	MGM
DRAWN:	DMP

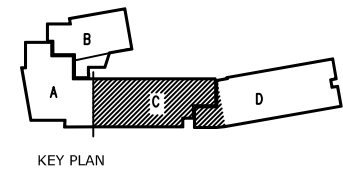
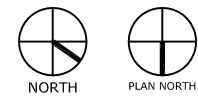
SHEET #  
**E3.2**

NOTES:

- SEE SHEET E2.4 FOR ELECTRICAL IN ROOM 203 LOCATED ABOVE CORRIDOR BETWEEN GRID LINES J THROUGH L.
- LIGHTING CONTACTORS FOR CORRIDOR C AND D AREAS. DO NOT SWITCH THE CORRIDOR LUMINAIRES WITH EM BALLASTS.
- LIGHTING CONTACTOR FOR EXTERIOR LIGHTING AREAS C AND D, AND WEST PARKING. PROVIDE HOME RUN TO PANEL 2
- PROVIDE NEW HOME RUNS FOR EXISTING TYPE AA LUMINAIRES CIRCUITS. POWER FROM LIGHTING CONTACTOR IN JANITOR ROOM 119. ADD TYPE GG LUMINAIRES TO THIS CIRCUIT, USE SURFACE MOUNTED CONDUIT AND JUNCTION BOXES



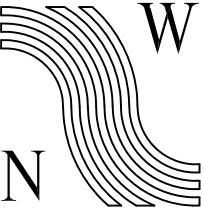
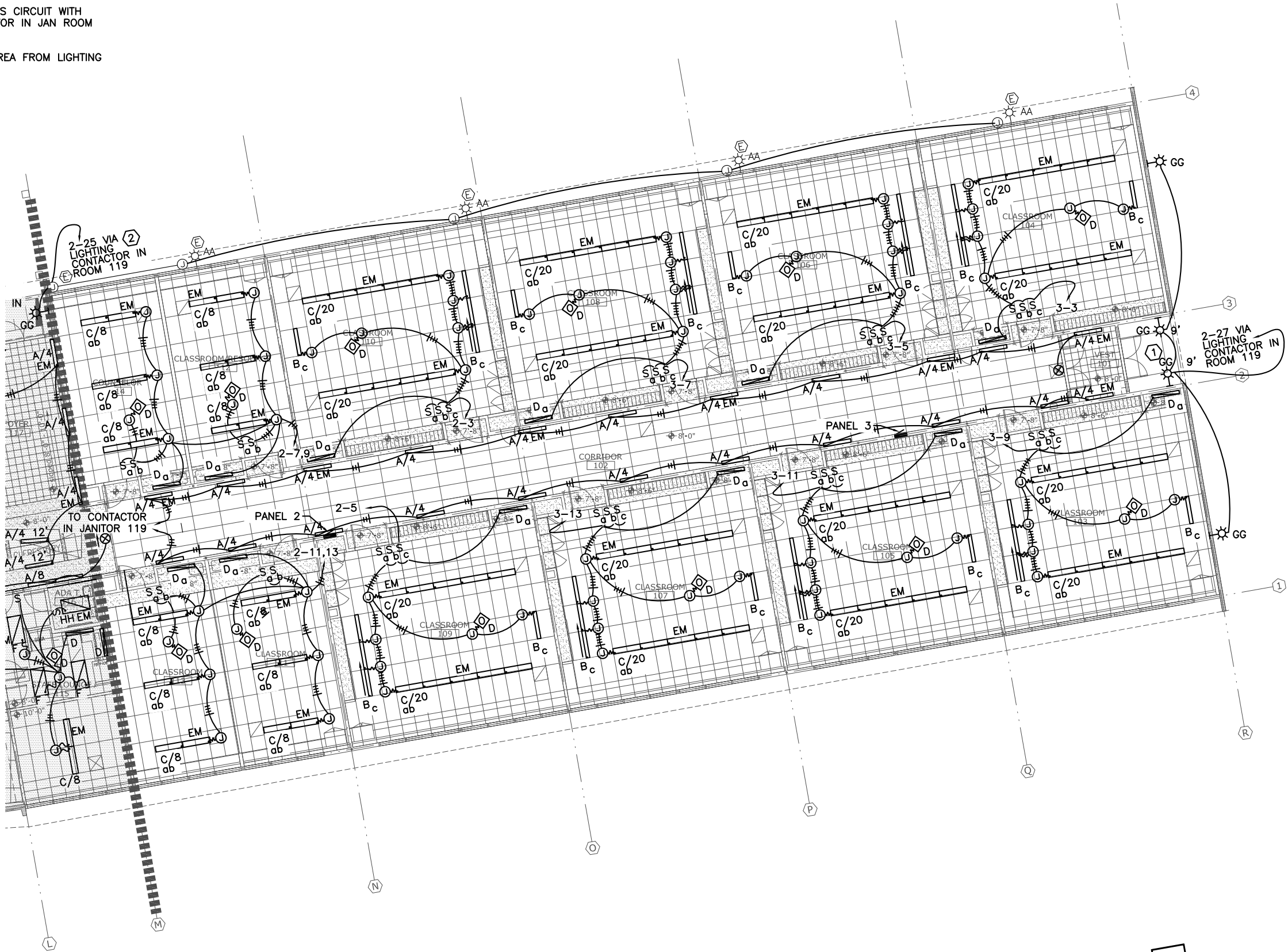
**1 AREA C - FLOOR PLAN LIGHTING**  
1/8" = 1'-0" on 22 x 34  
1/16" = 1'-0" on 11 x 17





NOTES:

- ① PROVIDE SURFACE CONDUIT AND JUNCTION BOXES TO MOUNT TYPE GG LUMINAIRES. POWER FROM LIGHTING CONTACTOR IN JAN ROOM 119.
- ② RE-FEED EXISTING TYPE AA LUMINAIRES CIRCUIT WITH NEW HOME RUN TO LIGHTING CONTACTOR IN JAN ROOM 119.
- ③ FEED LUMINAIRES IN WEST PARKING AREA FROM LIGHTING CONTACTOR IN JANITOR ROOM 119.



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RENOVATION

CBJ Contract No. E11-137  
JUNEAU, ALASKA

SHEET TITLE:

AREA D  
FLOOR PLAN  
LIGHTING

DATE: NOV. 15, 2010

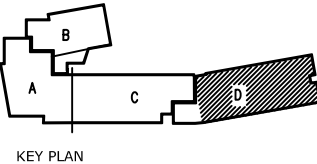
REVISION: ....

CHECKED BY: MGM


DRAWN: DMP

SHEET #

E3.3



LUMINAIRE SCHEDULE				
TYPE	DESCRIPTION	MANUFACTURER	LAMPS	REMARKS
A	WALL MOUNT DIRECT/ INDIRECT WITH ROUND PERFORATIONS AND STRAIGHT BLADE BAFFLE. WHITE OPAL OVERLAY. DUST COVER. WHITE. ROW LENGTH SHOWN NEXT TO TYPE LETTER.	PEERLESS CERRA: CRW4232PERFWR4FTR4120GEB10PSEELSC TLP835C210DU PART NO. GIVEN (1) 4' LUMINAIRE MODIFY FOR LONGER ROW.	(2) 32W T8 PER 4' SECTION	MOUNT AT 6'-8" TO BOTTOM OF LUMINAIRE. UNLESS OTHERWISE NOTED
B	ASYMMETRIC RECESSED WALL WASH. WHITE. INTERNAL BALLAST.	LITHONIA AVANTE AVG232MDRASYMVOLTGEB1015	(2) 32W T8	LAY IN CEILING GRID WHERE SHOWN
C	SUSPENDED LINEAR DIRECT/INDIRECT ROUND PERFORATIONS AND STRAIGHT BLADE BAFFLE. WHITE OPAL OVERLAY. SUSPENDED 18" ON AIRCRAFT CABLE FROM T-BAR CEILING WITH J-BOX. DUST COVER. WHITE.	PEERLESS CERRA 10: 10CRM432WHR20FTR4120GEB10PSEELDCTLP835 FIA/18C210DU PART NO. GIVEN FOR (1)20' ROW. MODIFY PART NO. FOR DIFFERENT ROW LENGTH. MAX 4' SECTION.	(4) 32W T8 PER 4' SECTION	SWITCH (2) LAMPS SEPARATELY
D	LOW PROFILE UNDER CABINET LIGHT W/ HIGH IMPACT ACRYLIC LENS. 48" LONG.	LITHONIA: 2UC132AR120GEB10RS	(1) 32W T8	MOUNT UNDER CABINET AT FRONT OF CABINET. FACE LENS TOWARD WALL
F	DIRECT/INDIRECT FLUORESCENT TROFFER METAL DIFFUSER, ROUND HOLES WITH WHITE ACRYLIC DIFFUSER & ACRYLIC LITTER GUARD. (2 'X 4')	LITHONIA 2AVG232MDRMVOLTGEB10RSALGEL	(2) 32W T8	LAY IN CEILING GRID WHERE SHOWN
G	DIRECT/INDIRECT FLUORESCENT TROFFER METAL DIFFUSER, ROUND HOLES WITH WHITE ACRYLIC DIFFUSER & ACRYLIC LITTER GUARD. (2 'X 4')	LITHONIA: 2AVG332MDRMVOLTGEB10RSALGEL	(3) 32W T8	SWITCH (1) LAMP SEPARATELY LAY IN CEILING GRID WHERE SHOWN
H	17"x48" SURFACE ARCHITECTURAL W/ ACRYLIC LENS	LITHONIA: 2AW332120GEB10RSEL	(3) 32W T8	SURFACE MOUNT TO CEILING
I	6"x4' RECESSED, FLANGED TROFFER	LITHONIA: 6NATF132152W	(1) 32W T8	FLUSH MOUNT IN GYPSUM CEILING
J	WALLMOUNT LINEAR ASYMMETRIC CEILING WASH WHITE.	ELLIPTIPAR: F106T155S021VCO, AFE06070	(1) 54W T5 HO PER 4' SECTION	WALL MOUNT AT HEIGHT SHOWN
K	2X4 CLEAN ROOM FLUORESCENT RECESSED 1125" ACRYLIC LENS	LITHONIA: 2SRTG432FWA12125VMVOLTGEB10RS	(4) 32W T8	LAY IN CEILING GRID WHERE SHOWN
L	3" DIA, SEMI DIFFUSED DOWN LIGHT LED WITH WHITE FLANGE	AMERLUX E2.9R-12-LED-E-120-E2.9RD-SD-W-FL-3000	12W LED 460 LUMENS	FLUSH MOUNT IN BOTTOM OF SOFFIT OR IN CEILING
M	2X4 FLUORESCENT HIGH BAY. SPECULAR ALUMINUM REFLECTOR WITH WIRE GUARD	LITHONIA: FGB24654T5H0S1X20NLWGMVOLTGEB1OPSLP 835	(6) 54W T5 HO	MOUNT TO UNISTRUT ON CEILING
N	UP/DN SCONCE MACHINED ALUMINUM	ARCHITECTURAL LTG WKS CAS GX10201DREM120AL	20W CMH	MOUNT 8' AFG
O	WHITE LOW PROFILE CUTOFF AREA LUMINAIRE WITH HOUSE SIDE SHIELD AND TRANSITION TO POLE TOP TENON	GARDCO G1313XL140CMPEUNIVWPHS WITH TR1 TRANSITION TO POLE 05TRS2011T2FPGV	(1) 140W MH COSMOPOLIS	20' GALVANIZED THEN PAINTED TAPERED POLE. WHITE. 130 MH RATING WITH LUMINAIRE
P	WALL RECESSED. VANDAL RESISTANT FLUORESCENT	SISTEMALUX: S.4619-120 & S.4523	(1) 26W QUAD G24q 3	MOUNT IN CONCRETE WALL AT 24" AFG
Q	120V LED ROPE LIGHTING. WARM WHITE. 36 LED/METER	WIDE LOYAL LIGHTING FLEXILIGHT IFLA-65W	LED WARM WHITE	MOUNT TO BACK OF SIGN INTERIOR. PLUG INTO RECEPTACLE IN SIGN
R	CANOPY LUMINAIRE WITH POLYCARBONATE DROP LENS AND WIRE GUARD	LITHONIA: KACM250MDPP120KACWG	250W MH	MOUNT TO UNISTRUT AT J-BOX LOCATION PROVIDE SUPPORT, CONDUIT AND WIRING AS REQUIRED
S	2' X 4' RECESSED FLUORESCENT LENSED TROFFER	LITHONIA GT2MV	(2) 32W T8	

LUMINAIRE SCHEDULE				
TYPE	DESCRIPTION	MANUFACTURER	LAMPS	REMARKS
T1	DOWN LIGHT SHIELDED WITH DIFFUSED GLASS	ARCHITECTURAL AREA LIGHTING ES1-370MH____LDLSMB	70W MH	MATCH COLOR TO TYPE O LUMINAIRE. WALLMOUNT AT HEIGHT SHOWN
T2	DOWN LIGHT SHIELDED WITH DIFFUSED GLASS	ARCHITECTURAL AREA LIGHTING ES1439MHT6____LDLSMB	39W MH	MATCH COLOR TO TYPE O LUMINAIRE. WALLMOUNT AT HEIGHT SHOWN
U	1X4 SURFACE MOUNT FLUORESCENT W/ LENS	EXISTING	(2) 40W T12	⬡
V	2X4 PARABOLIC TROFFER, 3X8 CELL GRID	EXISTING	(3) 40W T12	⬡
W	FLUORESCENT PENDANT	EXISTING	(2) 40W T12	⬡
Y	EXTERIOR WALL MOUNTED AREA LIGHT FIXTURE	EXISTING	(1) INCANDESCENT OR COMPACT FLUORESCENT	⬡
Z	10"x10" SURFACE MOUNT AREA LIGHT	EXISTING	(1) INCANDESCENT OR COMPACT FLUORESCENT	⬡
AA	EXTERIOR WALL MOUNTED AREA LIGHT FIXTURE	LITHONIA	(1) HPS TWAC	REINSTALL (3) LUMINAIRES WHERE SHOWN
BB	WET LOCATION FLOOD LIGHT YOKE ADJUSTABLE MOUNT WITH WALL MOUNT ADAPTER	HOLOPHANE PF32LPMMTKW3GPFWGBKT-2-HG	(1) 320W MH	AIM AS DIRECTED BY OWNER
CC	5" ROUND RECESSED DOWN LIGHT	EXISTING	INCANDESCENT	⬡
DD	PENDANT BOWL LIGHT	EXISTING	FLUORESCENT	⬡
FF	PENDANT DIRECT/INDIRECT LINEAR ARCHITECTURAL	EXISTING	FLUORESCENT	⬡
FG	DIRECT/INDIRECT FLUORESCENT TROFFER METAL DIFFUSER, ROUND HOLES WITH WHITE ACRYLIC DIFFUSER & ACRYLIC LITTER GUARD. (2 'X 4')	LITHONIA 2AVG232MDRMVOLTGEB10RSALGEL DGA24 DRYWALL ADAPTER	(2) 32W T8	PROVIDE WITH DRYWALL ADAPTER TO FLUSH MOUNT IN GYP BOARD CEILING
GG	SHIELDED WALLMOUNT DIFFUSE LENS AND VANDAL GUARD WIDE THROW	LITHONIA WSR70MWT120DWHGLPI	70W MH	WALLMOUNT AT HEIGHT SHOWN
HH	SURFACE MOUNT DIRECT/INDIRECT	LITHONIA AVSM232MDRDLSMVOLTGEB10PSALG	(2) 32W T8	
JJ	6" DIAMETER DOWNLIGHT FLUORESCENT WITH FRESNEL LENS	LITHONIA LI6F 26/32TRT 6LB4 MVOLT	(1) 26W TRT	FLUSH MOUNT IN SOFFIT
KK	ADJUSTABLE LED DOWNLIGHT 4.75" DIAMETER, 10K LUMENS, NARROW FLOOD, WHITE FLANGE	AMERLUX E4.75RA24LED 120 WTNF 3000 AND E4.75 FLANGE TRIM	LED	FLUSH MOUNT IN CEILING. AIM TO LIGHT TOTEM.
	EMERGENCY LIGHTING UNIT	EXISTING	HALOGEN	⬡

NOTES:

1. LUMINAIRE PART NOS. MAY BE INCORRECT. VERIFY WITH MANUFACTURER TO ASSURE ALL FEATURES ARE INCLUDED INCLUDING CONFIGURATION, ROW LENGTH, SECTION LENGTH, NO. OF BALLASTS REQUIRED FOR SEPARATE SWITCHING, ETC.
2. PROVIDE WITH EMERGENCY BALLAST WHERE SHOWN ON PLAN VIEW WITH "EM"
- ③ TYPE A LUMINAIRES WITH EM BALLASTS SHALL BE NON SWITCHED (ALL BALLASTS).

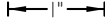




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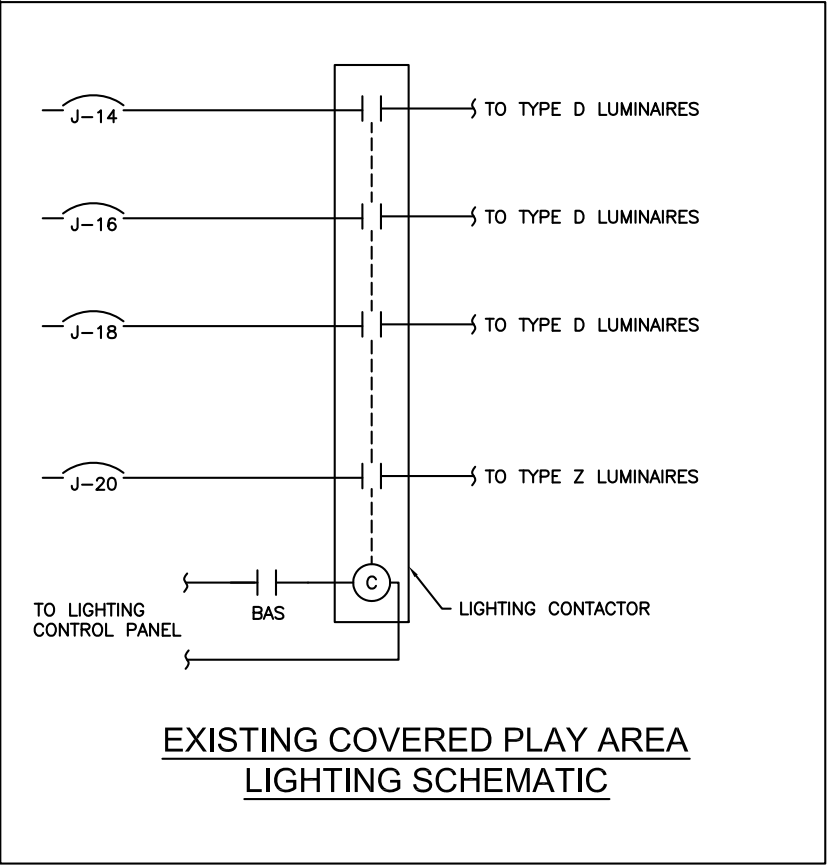
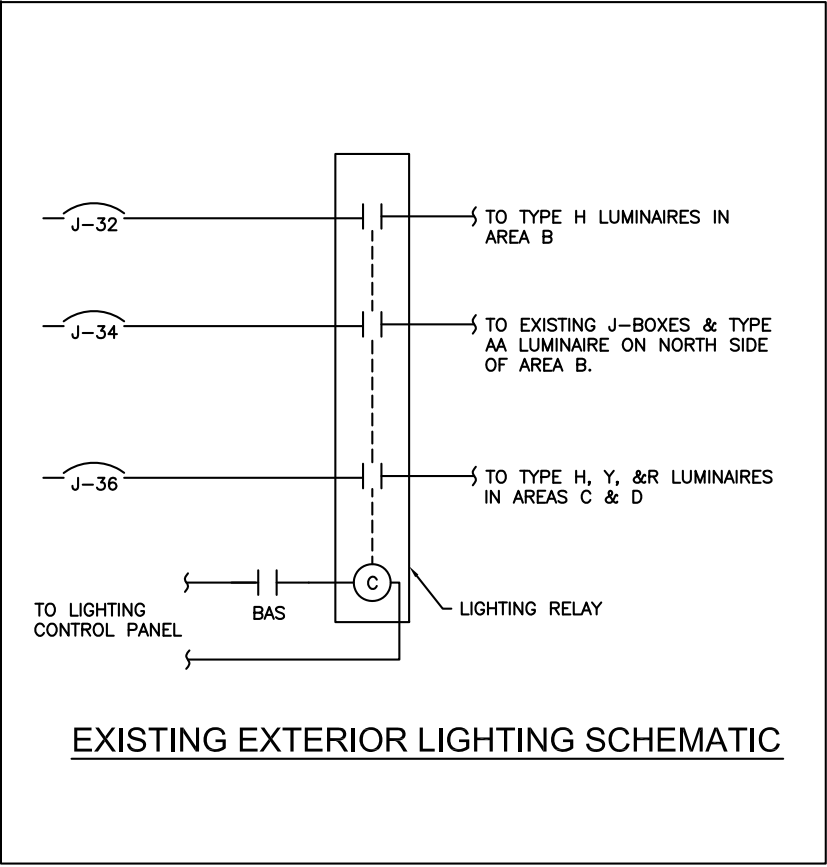
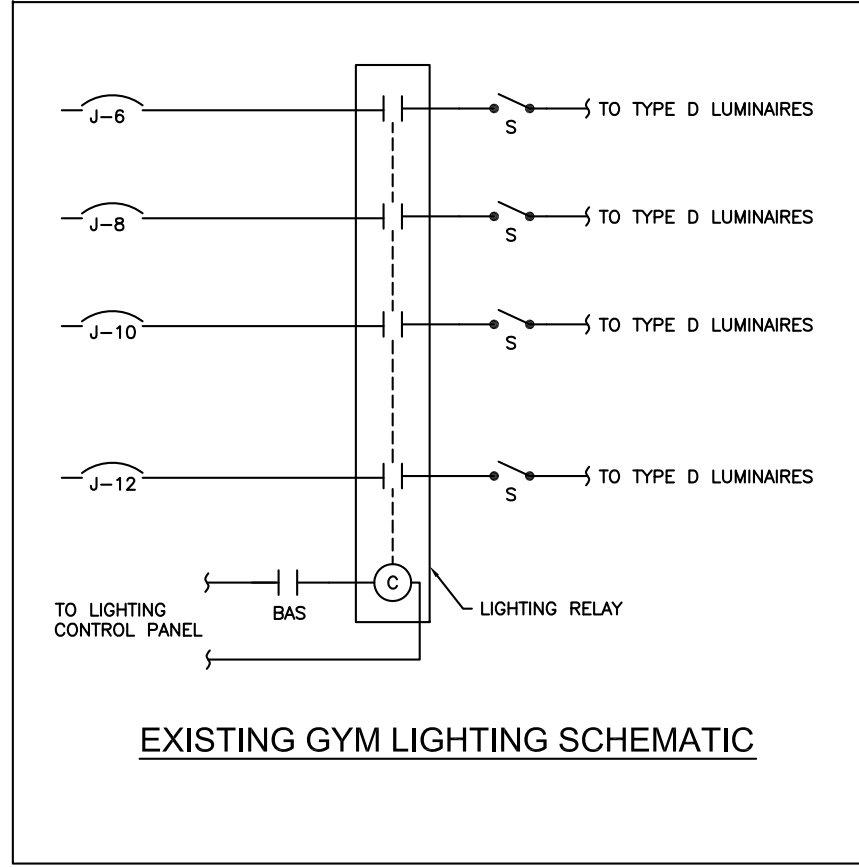
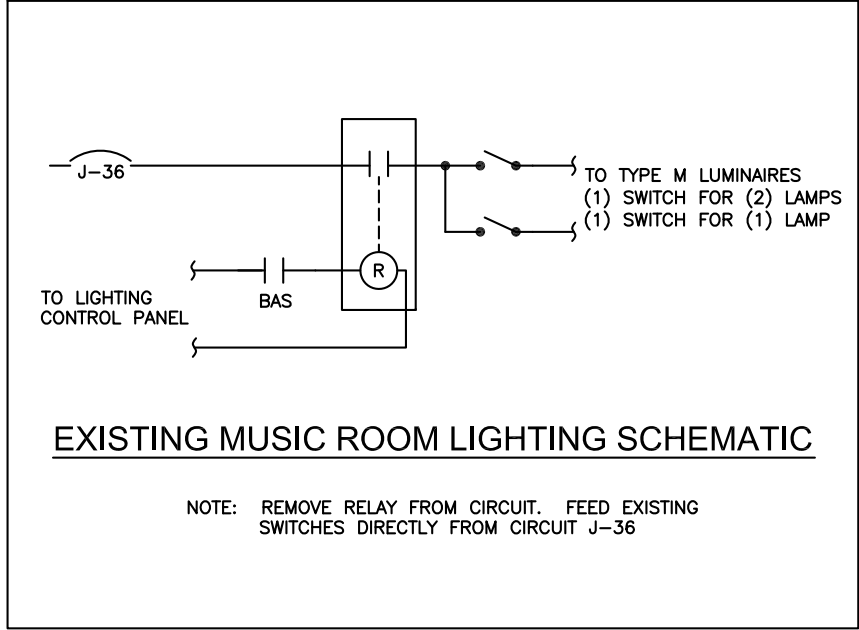
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RENOVATION

CBJ Contract No. E11-157  
JUNEAU, ALASKA

SHEET TITLE:		LUMINAIRE SCHEDULE
DATE:	NOV. 15, 2010	
REVISION:	....	
CHECKED BY:	MGM	
DRAWN:	DMP	
SHEET #		E3.4



NOTE: REMOVE LIGHTING CONTROL PANEL AND ALL LIGHTING RELAYS. PROVIDE JUNCTION BOXES ON STRUCTURAL CEILING ABOVE RELAYS. ROUTE WIRING TO LUMINAIRES INTO THESE J-BOXES. PROVIDE NEW HOME RUNS TO NEW LIGHTING CONTACTORS FROM THESE J-BOXES.



1" = 1"

IF THE ABOVE DIMENSION DOES NOT EQUAL EXACTLY 1", THIS DRAWING HAS BEEN ENLARGED OR REDUCED, AFFECTING ALL LABELED SCALES

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SHEET TITLE:  
**EXISTING LIGHTING CONTROL SCHEMATICS**

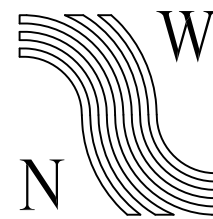
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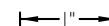
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**E3.5**



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RENOVATION  
C&J Contract No. E11-157  
JUNEAU, ALASKA

SHEET TITLE:  
LIGHTING  
CONTROL  
SCHEMATICS 1

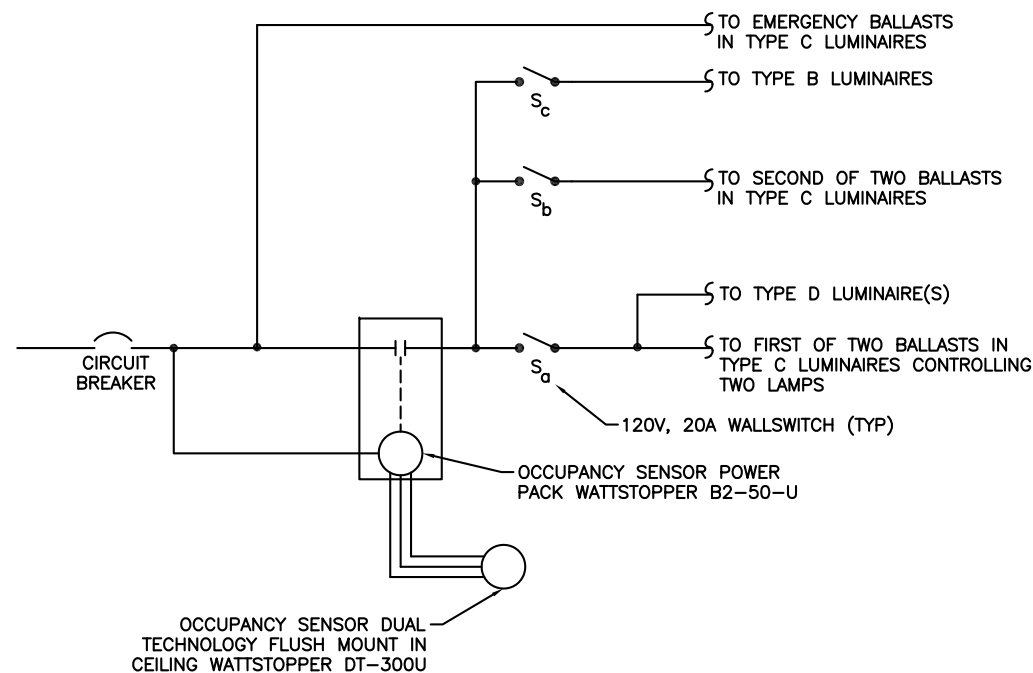
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REVISION: ....

CHECKED BY: MGM

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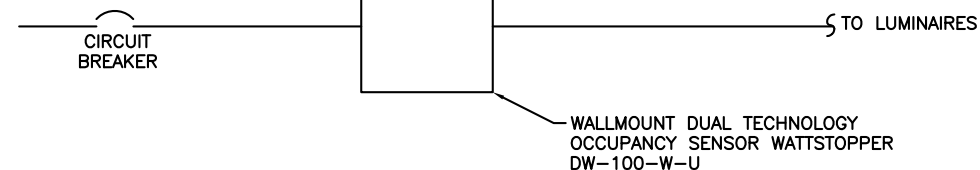
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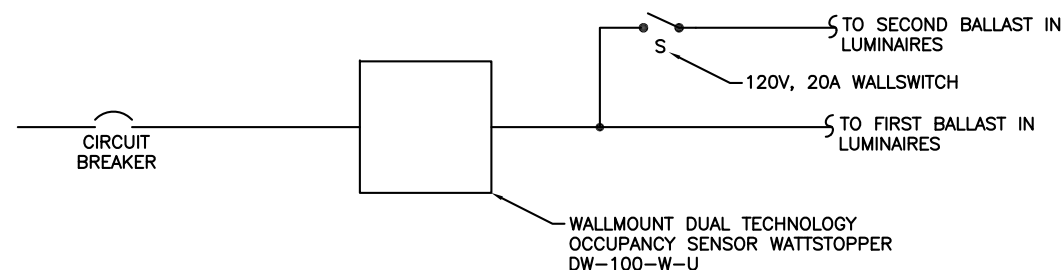
### CEILING MOUNT OCCUPANCY SENSOR SCHEMATIC

#### NOTE:

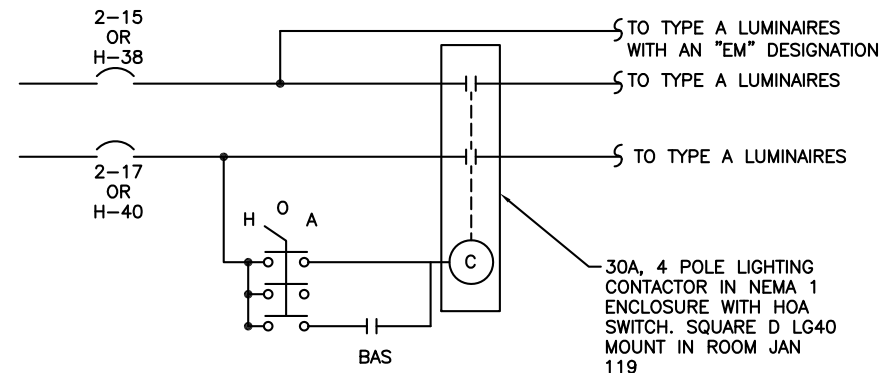
1. THE WIRING IS SHOWN FOR A TYPICAL CLASSROOM. IN OTHER LOCATIONS NOT ALL SWITCHES ARE USED. ALL LUMINAIRES SHALL BE POWERED FROM SWITCH "a" WHERE ONLY ONE SWITCH IS SHOWN.
2. THE RESTROOMS SHALL HAVE A KEYED SWITCH.



### WALL MOUNT OCCUPANCY SENSOR SCHEMATIC

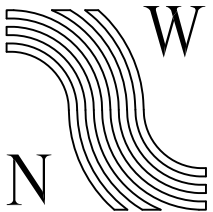


### WALL MOUNT OCCUPANCY SENSOR WITH SECOND SWITCH SCHEMATIC



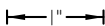
### CORRIDOR 102 & 137 LIGHTING CONTROL SCHEMATICS

NOTE: COORDINATE WITH MECHANICAL TO  
CONTROL CONTACTOR WITH BAS SYSTEM.



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JUNEAU, ALASKA

SHEET TITLE:  
LIGHTING  
CONTROL  
SCHEMATICS 2

DATE: NOV. 15, 2010

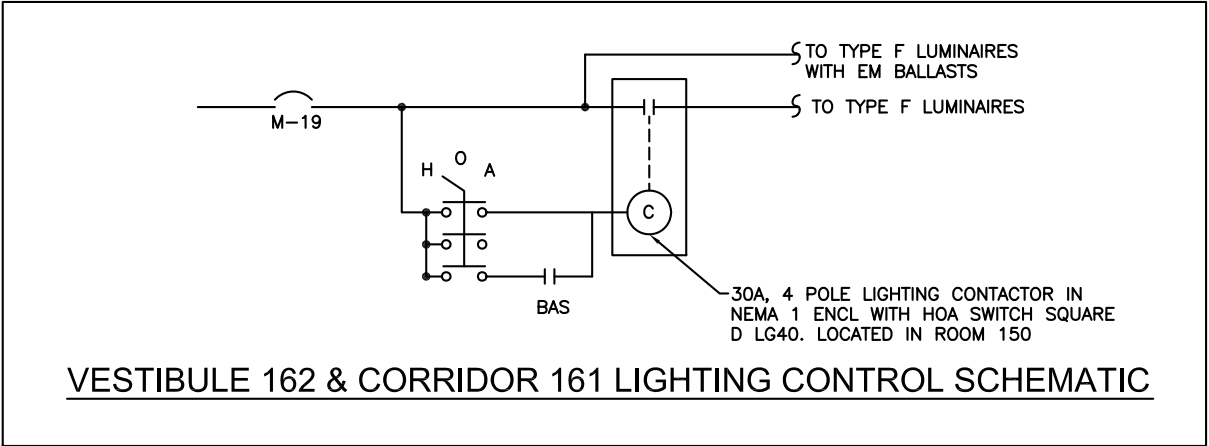
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CHECKED BY: MGM

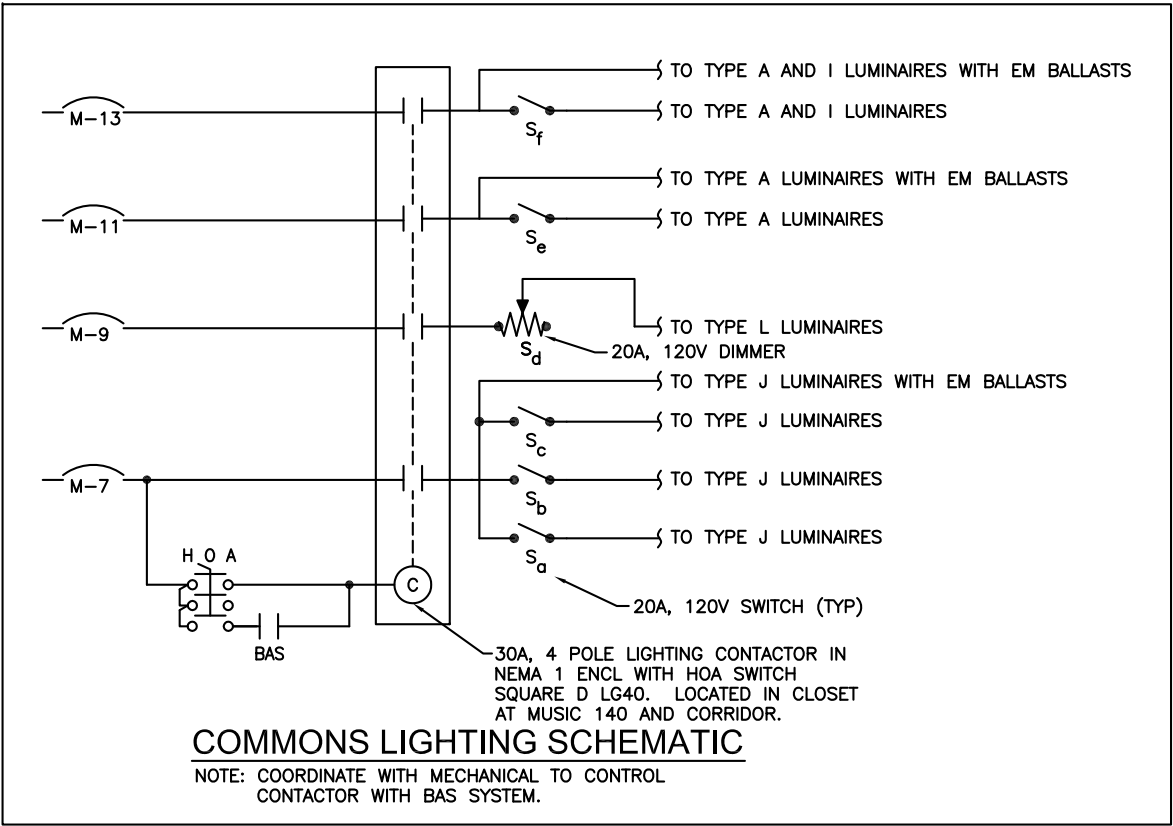
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SHEET #

E3.7

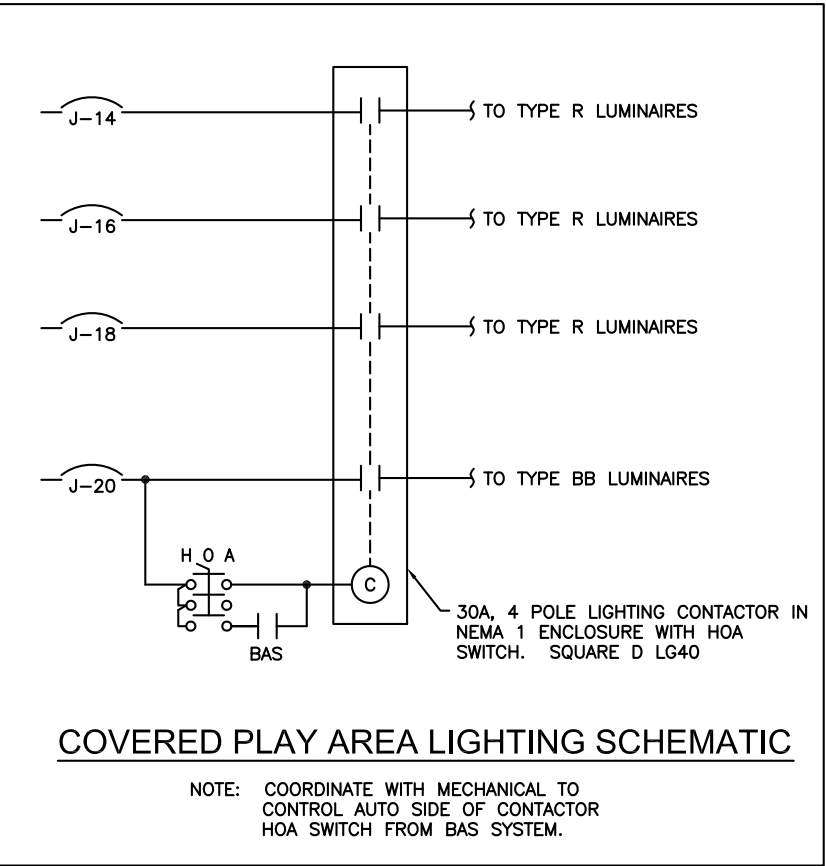
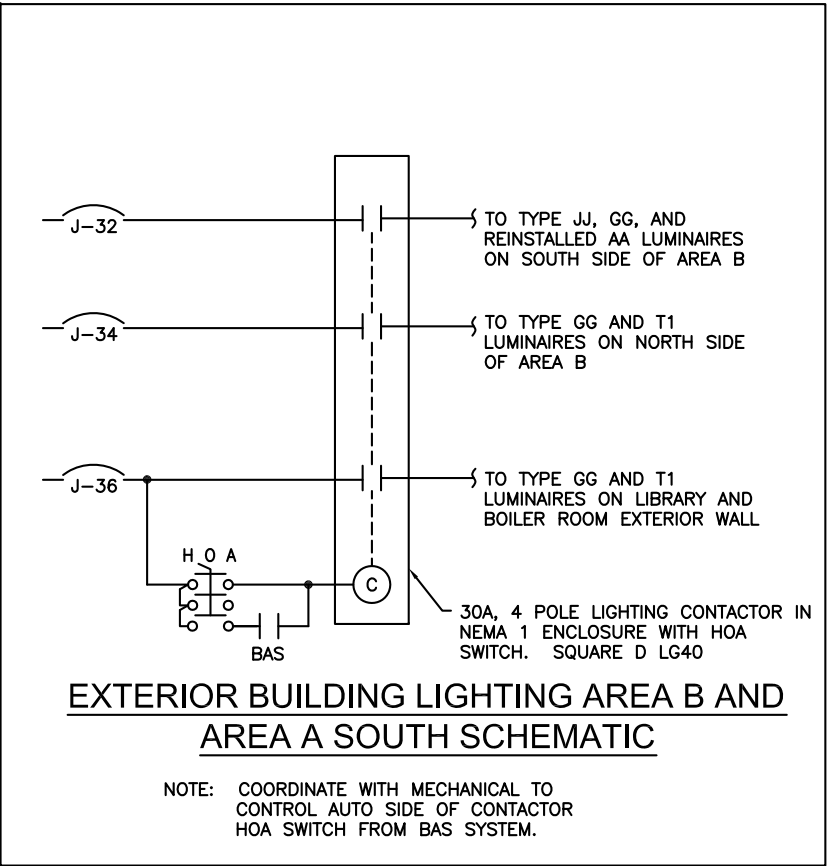
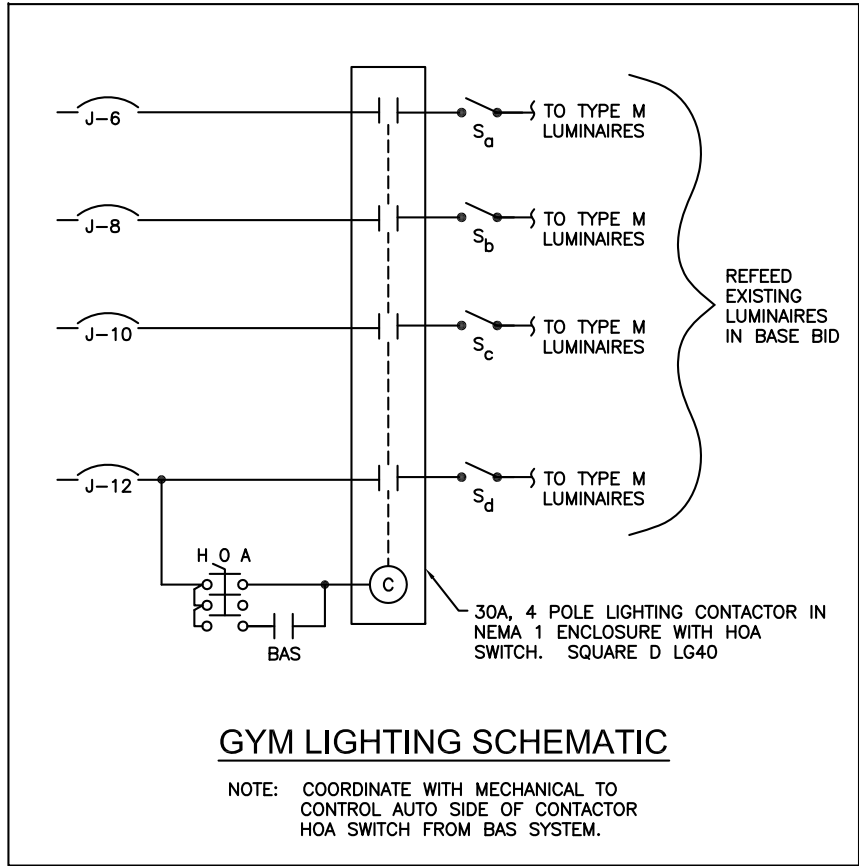
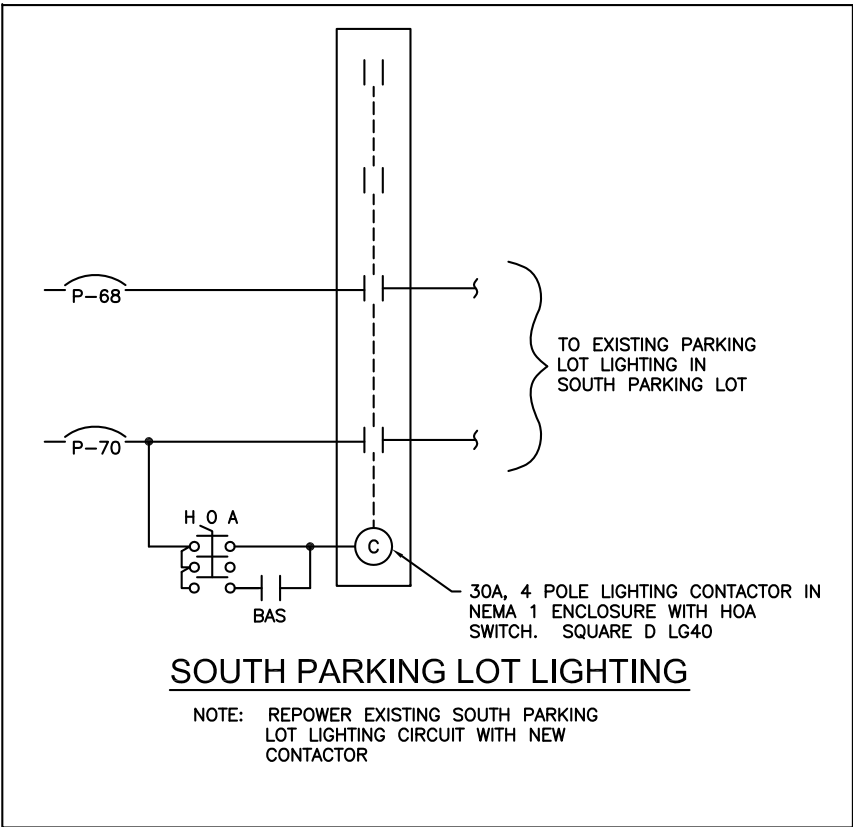
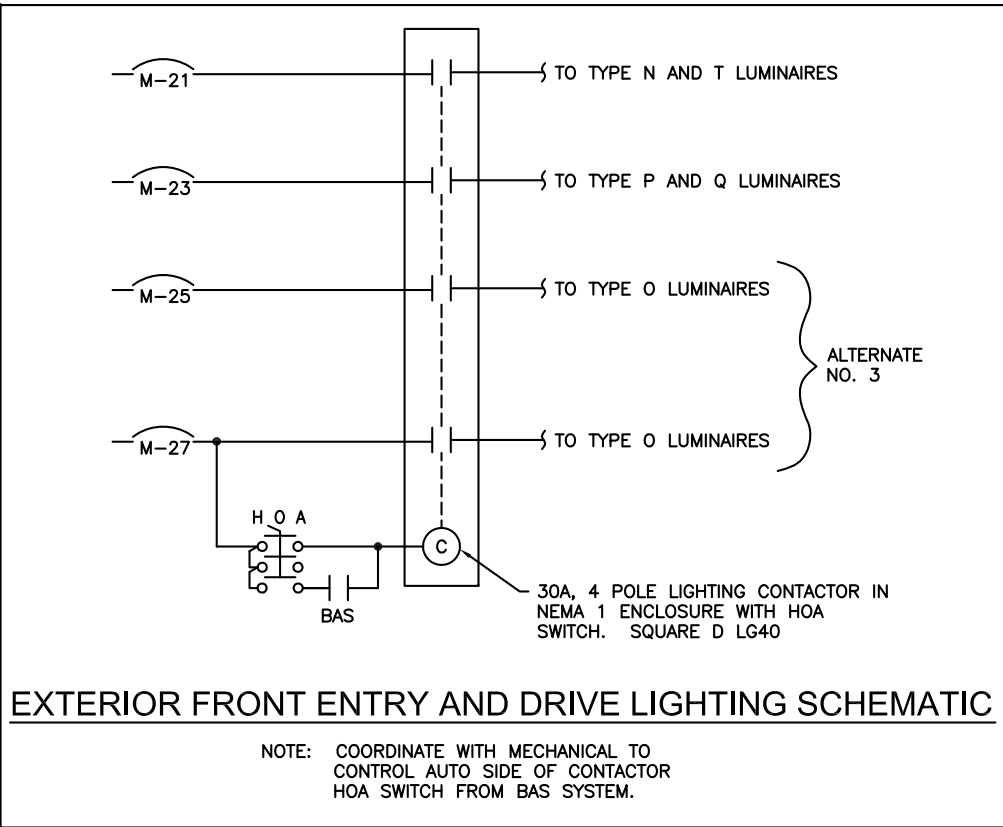
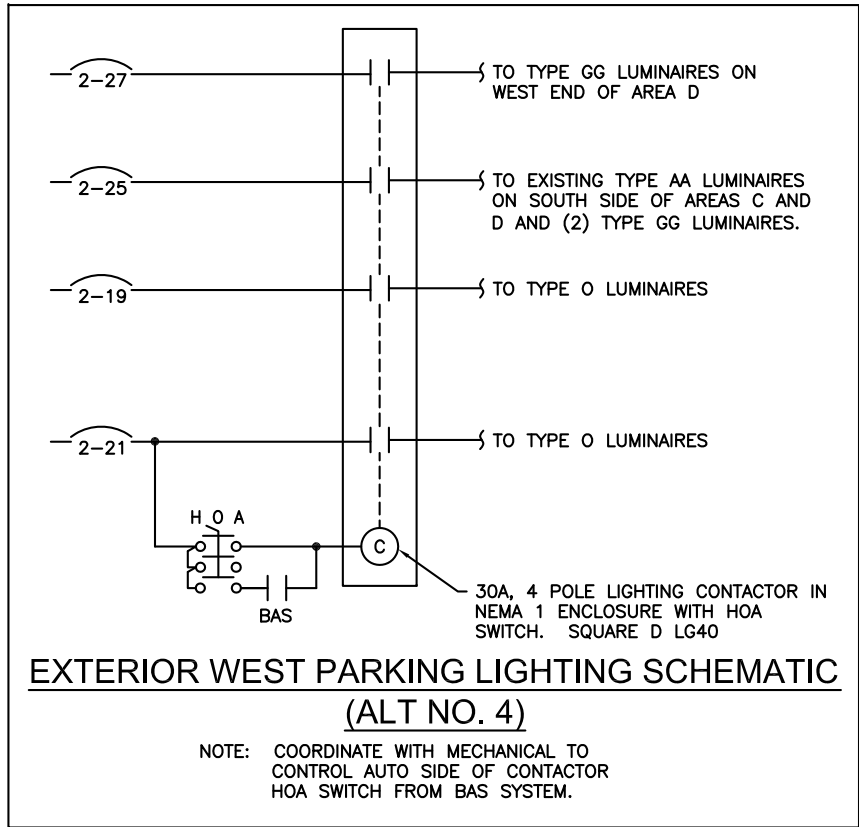


VESTIBULE 162 & CORRIDOR 161 LIGHTING CONTROL SCHEMATIC



COMMONS LIGHTING SCHEMATIC

NOTE: COORDINATE WITH MECHANICAL TO CONTROL  
CONTACTOR WITH BAS SYSTEM.



1" = 1'

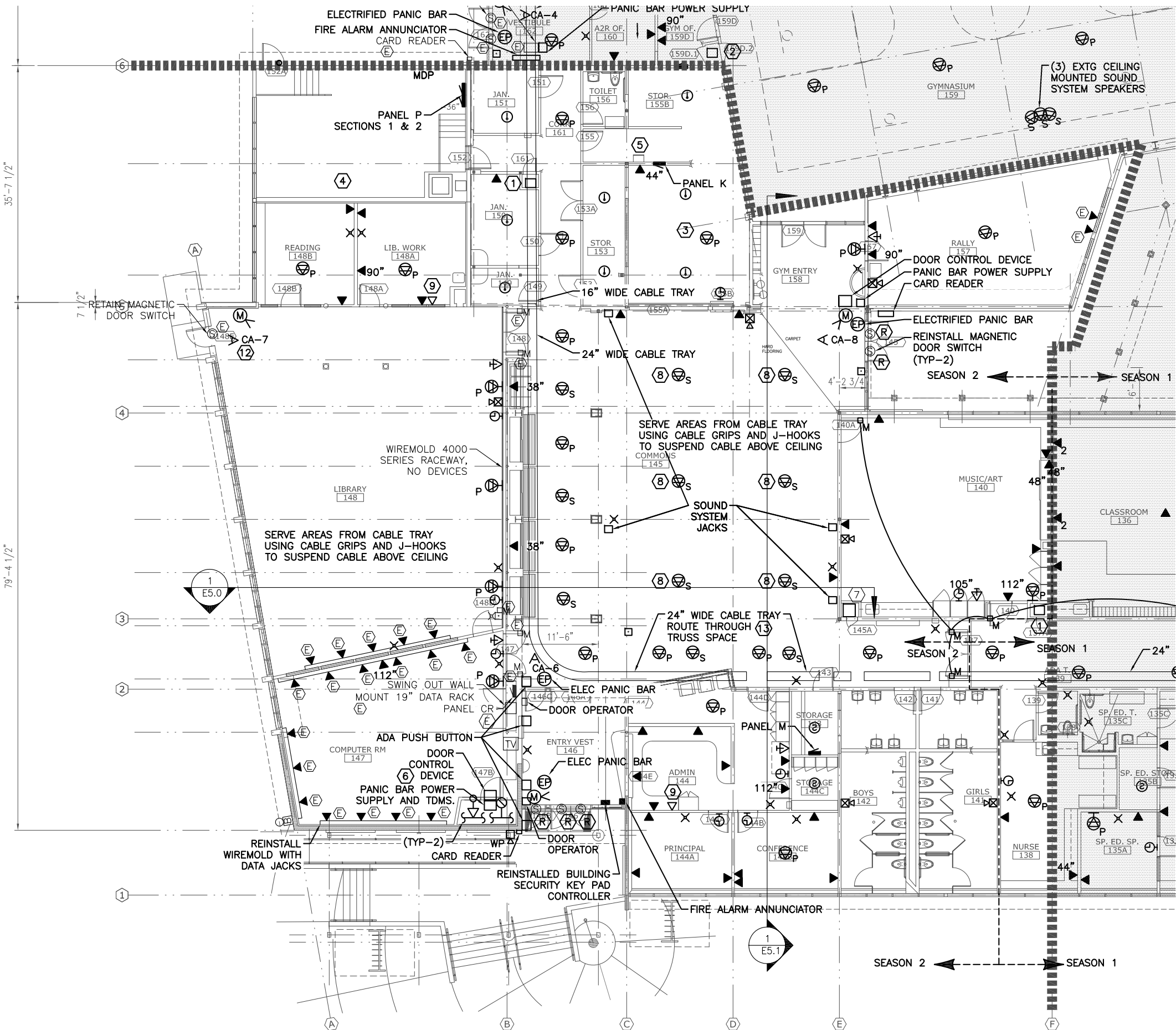
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RENOVATION  
CBJ Contract No. E11-157  
JUNEAU, ALASKA

SHEET TITLE:  
LIGHTING  
CONTROL  
SCHEMATICS 3

DATE: NOV. 15, 2010  
REVISION: ....  
CHECKED BY: MGM  
DRAWN: DMP

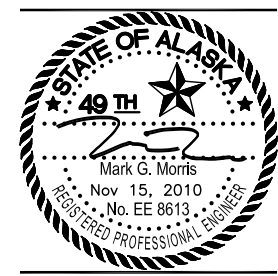
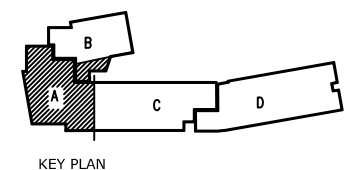
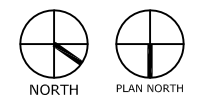
SHEET #  
E3.8



1 AREA A - SIGNAL FLOOR PLAN  
1/8" = 1'-0" on 22 x 34  
1/16" = 1'-0" on 11 x 17



- NOTES:
- 1 WALL MOUNT NETWORK RACK
  - 2 REINSTALLED GYM SOUND SYSTEM EQUIPMENT.
  - 3 PROVIDE IDC CONNECTION TO FIRE SUPPRESSION SYSTEM IN KITCHEN HOOD
  - 4 SEE SHEET E2.4 FOR ELECTRICAL IN BOILER ROOM 152.
  - 5 SEE SHEET E2.4 FOR ELECTRICAL IN ROOM 201 & 201A LOCATED ABOVE KITCHEN 155.
  - 6 SEE SHEET E2.4 FOR ELECTRICAL IN ROOM 202 LOCATED ABOVE ROOM 147.
  - 7 COMMONS SOUND SYSTEM HEAD END EQUIPMENT
  - 8 SURFACE MOUNT SPEAKER
  - 9 PROVIDE A DEDICATED TELEPHONE RECEPTACLE FOR A FAX LINE, PROVIDE A HOME RUN TO SERVER ROOM DISTRIBUTION BLOCKS, CROSS CONNECT TO TELEPHONE LINES COORDINATE WITH OWNER.
  - 10 = PA SPEAKER
  - 11 = SOUND SYSTEM SPEAKER
  - 12 FEED WITH WIRE MOLD 500 RACEWAY WHERE WIRING IS EXPOSED. CONCEAL ABOVE SUSPENDED CEILINGS IN 148A AND 148B.
  - 13 START AND STOP TRAY BETWEEN CEILING JOISTS AND MECHANICAL EQUIPMENT AS REQUIRED. SUPPORT CABLES FROM J-HOOKS ON CEILING WHERE TRAY STOPS. ROUTE AROUND BUILDING STRUCTURE AND MECHANICAL EQUIPMENT.



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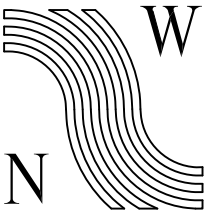
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RENOVATION**  
CJ Contract No. E11-137  
JUNEAU, ALASKA

SHEET TITLE:  
**AREA A  
FLOOR PLAN  
SIGNAL**

DATE: NOV. 15, 2010  
REVISION: ....  
CHECKED BY: MGM  
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SHEET #  
**E4.0**



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SHEET TITLE:

AREA B  
FLOOR PLAN  
SIGNAL

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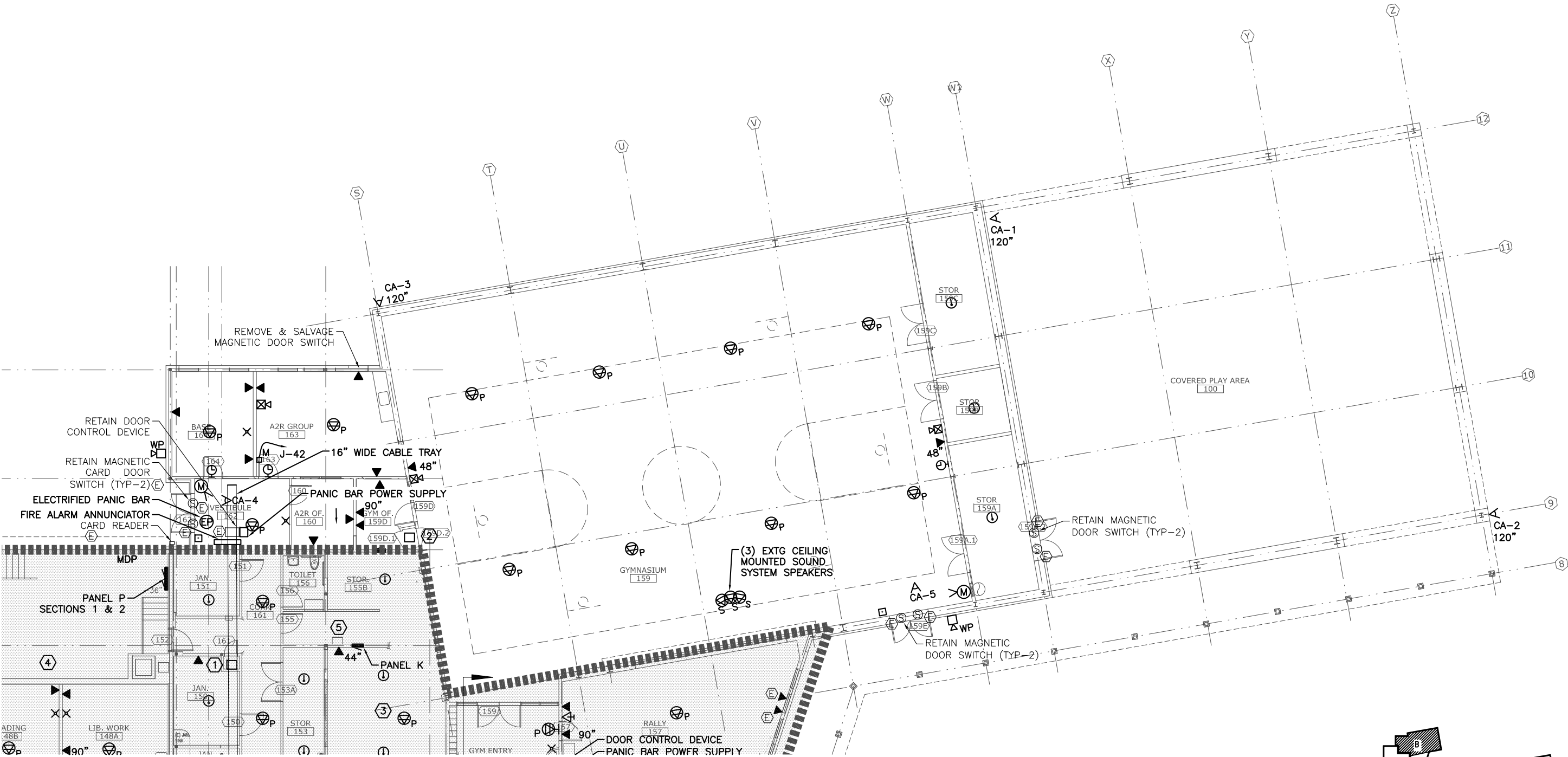
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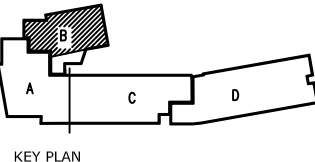
E4.1

NOTES:

- 1 WALL MOUNT NETWORK RACK
- 2 REINSTALLED GYM SOUND SYSTEM HEAD END EQUIPMENT IN NEW RACK
- 3 PROVIDE NEW HOME RUN TO CATV SYSTEM IN SERVER ROOM.



1 AREA B - FLOOR PLAN SIGNAL  
1/8" = 1'-0" on 22 x 34  
1/16" = 1'-0" on 11 x 17







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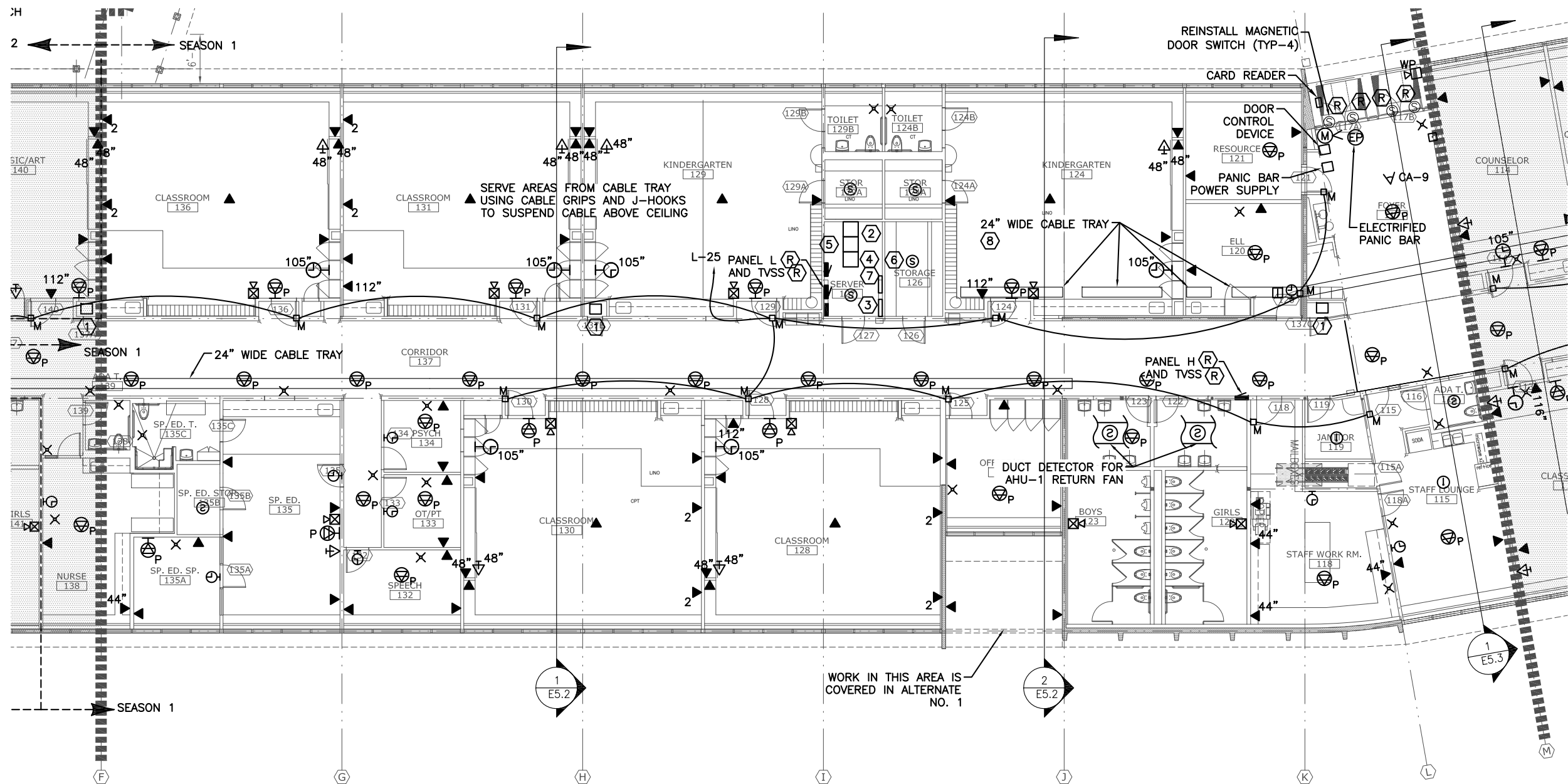
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AREA C  
FLOOR PLAN  
SIGNAL

DATE: NOV. 15, 2010  
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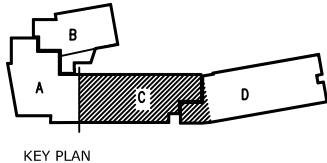
SHEET #  
E4.2

## NOTES:

- 1 WALL MOUNT NETWORK RACK
- 2 NETWORK DATA RACK
- 3 TELEPHONE TERMINAL BOARD
- 4 INTERCOM HEAD END EQUIPMENT MOUNTED IN A NETWORK RACK
- 5 VIDEO SURVEILLANCE SYSTEM MOUNTED IN A NETWORK RACK
- 6 MOTION DETECTION SYSTEM PANEL. RELOCATE EXISTING MOTION SENSORS WHERE SHOWN
- 7 CARD ACCESS HEAD END EQUIPMENT
- 8 START AND STOP TRAY BETWEEN CEILING JOISTS AND MECHANICAL EQUIPMENT AS REQUIRED. SUPPORT CABLES FROM J-HOOKS ON CEILING WHERE TRAY STOPS. ROUTE AROUND BUILDING STRUCTURE AND MECHANICAL EQUIPMENT.

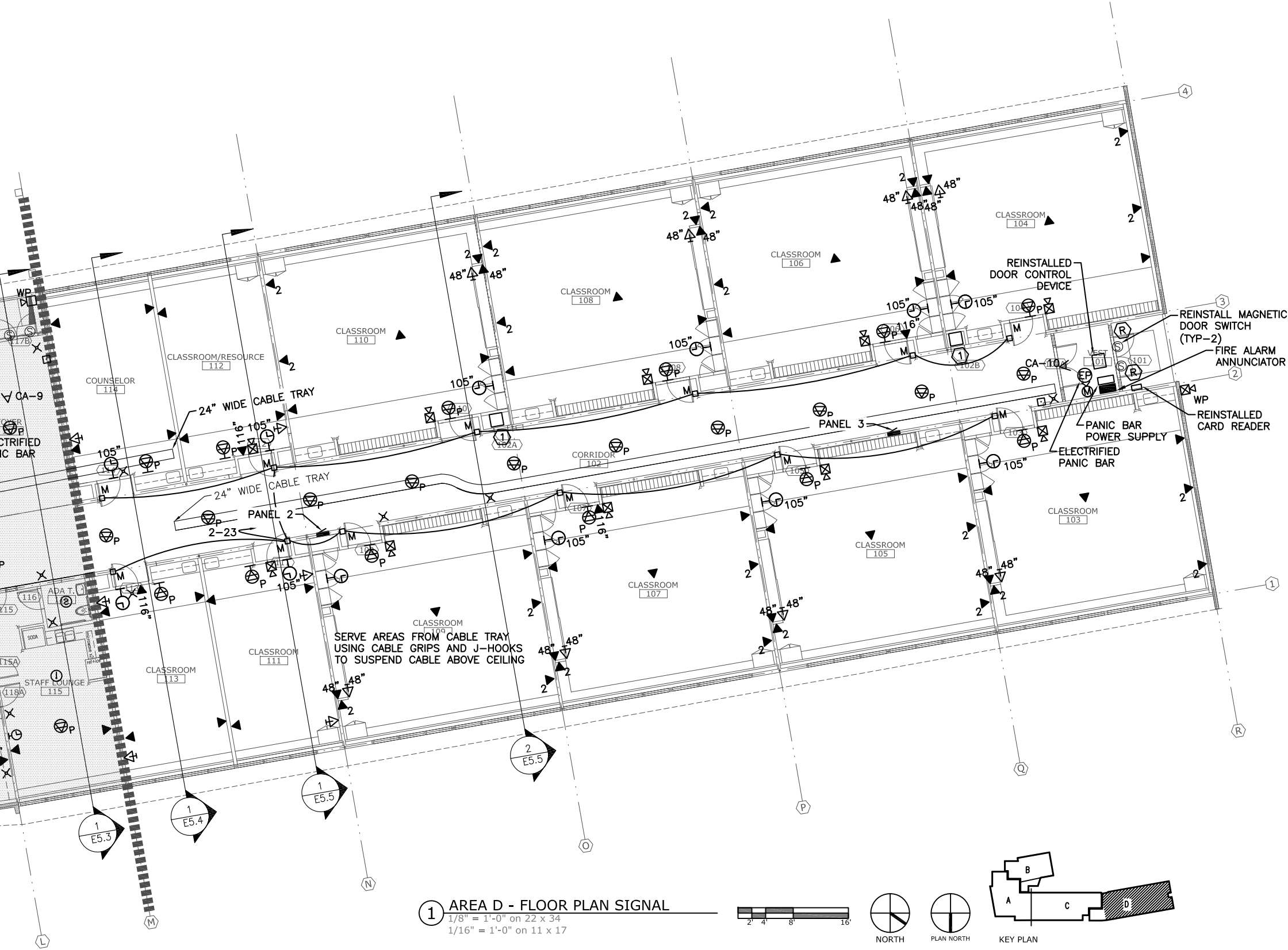


1 AREA C - FLOOR PLAN SIGNAL  
1/8" = 1'-0" on 22 x 34  
1/16" = 1'-0" on 11 x 17



NOTES:

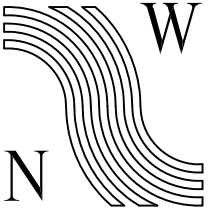
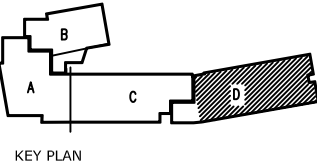
- ① WALL MOUNT NETWORK RACK
- ② ROUTE CABLES ACROSS GAP IN CABLE TRAY.  
SUPPORT CABLES USING CABLE GRIPS SUSPENDED  
FROM THE TRUSSES OR CEILING.



① AREA D - FLOOR PLAN SIGNAL

1/8" = 1'-0" on 22 x 34

1/16" = 1'-0" on 11 x 17



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AREA D  
FLOOR PLAN  
SIGNAL

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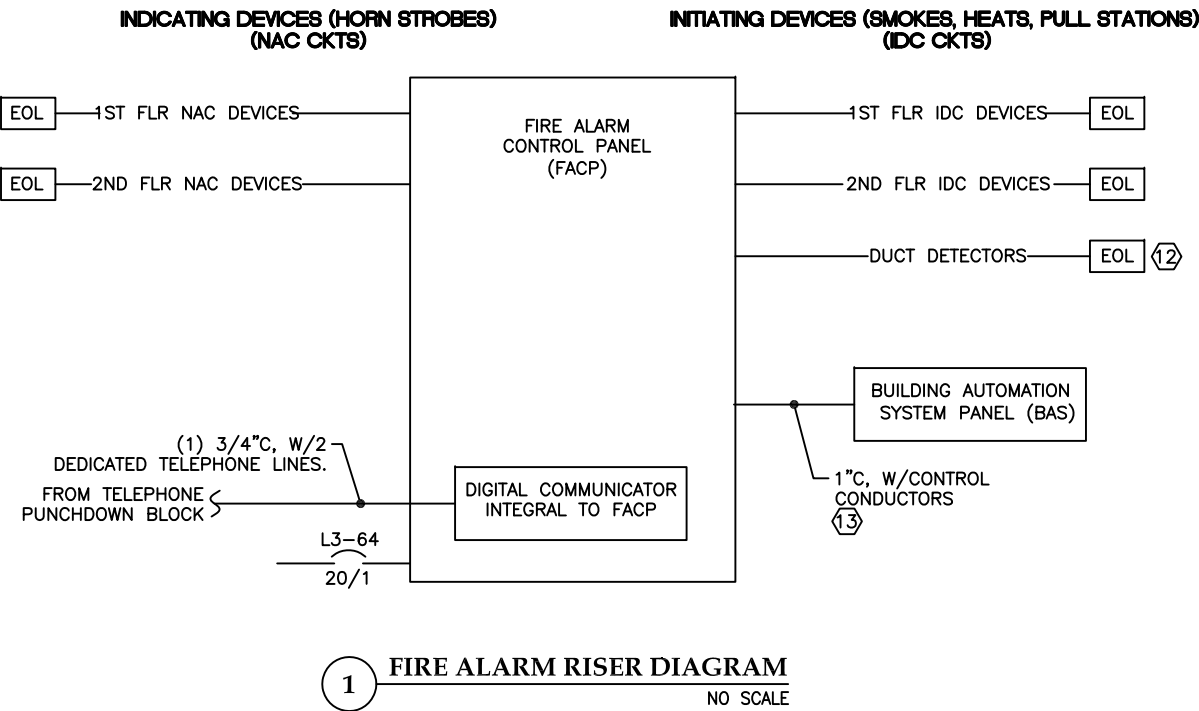
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E4.3

NOTES:

1. PROVIDE AN ADDRESSABLE MAIN FACP. SIMPLEX 4100U OR APPROVED EQUAL. PROVIDE ADDRESSABLE HORN STROBES ON THE INDICATING CIRCUITS.
2. PROVIDE SHOP DRAWINGS DURING SUBMITTALS. AFTER CONSTRUCTION, PROVIDE AS-BUILTS SHOWING ALL CIRCUITING. SHOW WHICH DEVICES ARE ON EACH IDC CIRCUIT, AND WHICH DEVICES ARE ON EACH NAC CIRCUIT. SHOW ALL CIM AND ALL OTHER CONTROL WIRING. PROVIDE (3) SETS OF AS-BUILT DRAWINGS TO THE ENGINEER.
3. ROUTE ALL WIRING IN CONDUIT. ALL WIRING SHALL BE RED JACKETED FIRE ALARM CABLE. PERFORM INDICATING DEVICE CIRCUIT LOAD CALCULATIONS PRIOR TO CONSTRUCTION. SIZE CONDUCTORS BASED ON THE LOAD CALCULATIONS. ALL CIRCUITS SHALL USE NO. 14 AWG CONDUCTORS MINIMUM. LABEL EACH CONDUCTOR IN EVERY J-BOX WITH ITS CIRCUIT DESIGNATION. PAINT J-BOX COVERS RED.
4. WHEN HORNS ARE SILENCED, THEY SHALL ALL SILENCE TOGETHER. WHEN THE SYSTEM IS RESET, THE INDICATING CIRCUITS SHALL ALL RESET TOGETHER. ALL STROBES AND HORN STROBES VIEWABLE FROM ANY ONE POINT IN THE BUILDING SHALL BE SYNCHRONIZED TOGETHER.
5. THE FIRE ALARM SYSTEM DEVICES AND PANEL SHALL BE LOCATED AND INSTALLED PER THESE DRAWINGS, THE SPECIFICATIONS, AND PER THE SHOP DRAWINGS PROVIDED BY THE FIRE ALARM MANUFACTURER'S DISTRIBUTOR THAT HAVE BEEN APPROVED BY THE ENGINEER DURING THE SUBMITTAL PROCESS. NO DEVIATIONS FROM THESE DOCUMENTS MAY BE MADE WITHOUT THE WRITTEN CONSENT OF THE ENGINEER.
6. THE FIRE ALARM DEVICES AND PANEL SHALL BE INSTALLED BY AN INSTALLER CERTIFIED BY THE STATE OF ALASKA TO INSTALL FIRE ALARM SYSTEMS. THE SYSTEM PROGRAMMING, TESTING, AND CERTIFICATION SHALL BE DONE BY A MANUFACTURER CERTIFIED TECHNICIAN EMPLOYED BY THE MANUFACTURER'S DISTRIBUTOR THAT SUPPLIED THE FIRE ALARM SYSTEM MATERIALS FOR THE PROJECT.
7. THE ADDRESS FOR EACH INITIATING DEVICE SHALL BE PROGRAMMED IN THE BASE OF EACH INITIATING DEVICE (SMOKE OR HEAT DETECTOR), NOT IN THE DEVICE ITSELF. A DEVICE SHALL BE ABLE TO BE REPLACED WITHOUT HAVING TO PERFORM ANY PROGRAMMING. PROVIDE CIRCUIT INTERFACE MODULES TO PROVIDE ADDRESSABILITY FOR ALL NON-ADDRESSABLE INITIATING & OTHER DEVICES (FLOW & TAMPER SWITCHES, FAN MOTOR STARTERS, ETC). PROVIDE ONE CIM PER DEVICE.
8. PROVIDE STROBE INTENSITIES AS REQUIRED TO MEET NFPA 72.
9. ALL DEVICES SHALL BE TESTED AND SOUND READINGS OF THE AMBIENT AND ALARM LEVELS SHALL BE TAKEN IN EVERY ROOM OF THE BUILDING. A WRITTEN REPORT OF THE TEST OF EVERY DEVICE PRODUCED BY THE SYSTEM SHALL BE PROVIDED TO THE ENGINEER 7 DAYS PRIOR TO REQUESTING A FINAL INSPECTION.



NOTES (CON'T):

10. PROVIDE END OF LINE RESISTORS ON THE IDC CIRCUITS THAT CONTAIN CIRCUIT INTERFACE MODULES AS REQ'D. PROVIDE END OF LINE RESISTORS ON OTHER FACP CIRCUITS AS NECESSARY TO MEET NFPA 72.
11. ALL DEVICES SHALL BE FLUSH MOUNTED AT THE HEIGHTS INDICATED ON THE LEGEND. DEVICES MAY BE SURFACE MOUNTED ONLY IF SPECIFICALLY NOTED. THERE SHALL BE NO CHANGE TO THE LOCATION OR MOUNTING HEIGHT EXCEPT WITH WRITTEN PERMISSION FROM THE ENGINEER.
- 12

DUCT DETECTORS SHALL SHUTDOWN FANS DURING AN ALARM. PROVIDE FACP PROGRAMMING AS REQUIRED. COORD. W/MECH. AS REQUIRED.
- 13

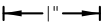
PROVIDE CIRCUITS AND SYSTEM PROGRAMMING TO SHUT DOWN DDC CONTROLLED FANS DURING A FIRE ALARM. COORD. WITH MECH.
14. PROVIDE RELAY MODULES TO TRIP THE 120V CIRCUITS POWERING THE MAGNETIC DOOR HOLDERS.
15. SEASON 1 – PROVIDE FIRE ALARM CONTROL PANEL AND FIRE ALARM DEVICES IN AREAS C & D. CONNECT EXISTING FIRE ALARM SYSTEM TO NEW PANEL SO EITHER PANEL IN ALARM CAUSES THE OTHER PANEL TO BE IN ALARM. CONNECT DIGITAL COMMUNICATOR TO TELEPHONE PUNCHDOWN BLOCKS IN SERVER ROOM. COORDINATE WITH MONITORING SERVICE AND TEST COMMUNICATOR.
- SEASON 2 – REMOVE REMAINDER OF EXISTING FIRE ALARM SYSTEM AND PROVIDE FIRE ALARM DEVICES IN AREAS A & B.

FIRE ALARM LEGEND

DESCRIPTION	MOUNTING HT.
<div><div></div></div> PULL STATION	48" AFF
<div><div></div></div> HORN STROBE	86" AFF
<div><div></div></div> SMOKE DETECTOR	CEILING
<div><div></div></div> STROBE ONLY	86" AFF
<div><div></div></div> HEAT DETECTOR. RATE OF RISE.	CEILING
FACP FIRE ALARM CONTROL PANEL	
<div><div></div></div> JUNCTION BOX	
<div><div></div></div> TAMPER SWITCH	
<div><div></div></div> FLOW SWITCH (PRESSURE) (BOTH HI & LOW)	
<div><div>EOL</div></div> END OF LINE RESISTOR	
<div><div>CIM</div></div> CIRCUIT INTERFACE MODULE	
<div><div><div>2</div></div></div> DUCT SMOKE DETECTOR	INSIDE DUCT
<div><div></div></div> HORN ONLY	86" AFF
NAC NOTIFICATION APPLIANCE CIRCUIT	
IDC INITIATING DEVICE CIRCUIT	



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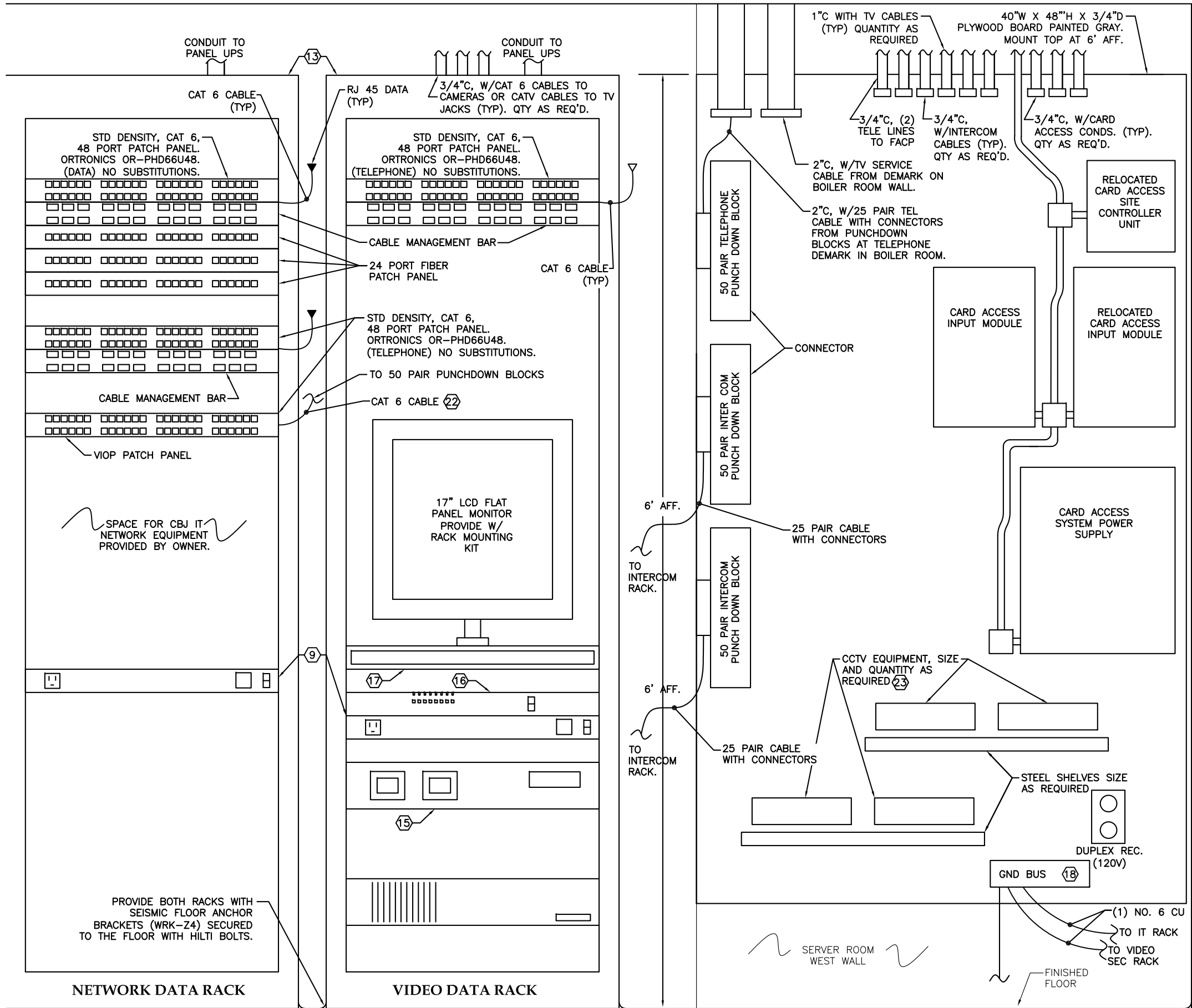
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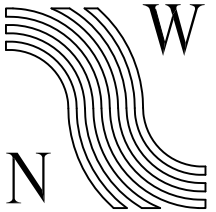
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E4.4



NOTES:

- ROUTE A PRECONNECTORIZED 25 PAIR TELEPHONE CABLE FROM PUNCHDOWN BLOCK IN BOILER ROOM. TERMINATE ON PRECONNECTORIZED PUNCHDOWN BLOCKS ON PLYWOOD BOARD IN SERVER ROOM. CROSS CONNECT TO CABLES FEEDING VOIP PATCH PANEL. SEE NOTE 22, THIS SHEET.
- TERMINATE ALL CAT 6 CABLES FROM DATA JACKS ON PATCH PANELS. OWNER TO PROVIDE IT NETWORK EQUIPMENT IN RACK SUPPLIED BY CONTRACTOR. PROVIDE PATCH PANELS, OUTLET STRIP, AND CABLE MANAGEMENT AS INDICATED.
- PROVIDE CAT 6 WIRING BETWEEN THE TELEPHONE PUNCHDOWN BLOCKS AND A 48 PORT PATCH PANEL
- CONNECT TWO PHONE LINES TO FIRE ALARM CONTROL PANEL.
- PROVIDE CABLE MANAGEMENT IN BOTH RACKS TO NEATLY TRAIN CABLES FROM CONDUIT NIPPLES IN CEILING, THROUGH RACKS TO THE PATCH PANELS.
- PROVIDE A LABEL AT EACH JACK AND EACH PORT OF THE PATCH PANEL. LABEL NUMBERING CONVENTION PER OWNER.
- AFTER TERMINATING CAT 6 CABLES AT JACKS AND PATCH PANELS, TEST CABLES PER CAT 6 EIA/TIA STANDARDS AND PER THE SPECIFICATIONS. PROVIDE ELECTRONIC AND HARD COPIES OF TEST REPORTS. REPLACE CABLES THAT FAIL THE TEST.
- 15 AMP, 14 RECEPTACLE, 2 STAGE SURGE SUPPRESSOR OUTLET STRIP. MIDDLE ATLANTIC PRODUCTS PD-1415C OR EQUAL. POWER OUTLET STRIP FROM DEDICATED UPS RECEPTACLE. POWER ALL RACK EQUIPMENT FROM THE OUTLET STRIP. PROVIDE (1) OUTLET STRIP FOR EACH RACK.
- ALL CABLES DO NOT HAVE TO BE PLENUM RATED.
- USE WHITE CABLING FOR ALL JACKS.
- PROVIDE 125 WHITE CAT 6 PATCH CORDS WITH FACTORY INSTALLED MALE CONNECTORS. 50 @ 18", 25 @ 3', 25 @ 7', 25 @ 10'.
- PROVIDE (2) 19" EIA, 26" DEEP, 70" HIGH FLOOR MOUNTED RACKS WITH 40 RACK UNITS CAPACITY MIN (40RU). (1) RACK FOR CBJ IT NETWORK EQUIPMENT, (1) RACK FOR VIDEO SECURITY SYSTEM EQUIPMENT. MIDDLE ATLANTIC PRODUCTS MRK-4026 OR EQUAL. PROVIDE WITH LOCKABLE FRONT DOOR, SOLID SIDE AND BACK DOORS AND WITH 10" TOP MOUNT FAN WITH INTEGRAL THERMOSTAT FOR ACTIVE THERMAL MANAGEMENT.
- SEASON 1 - PROVIDE NEW DATA EQUIPMENT IN AREAS C & D. CONNECT RELOCATED NETWORK RACK FROM ROOM 29 INTO CLASSROOM 22 FOR INTERIM SCHOOL YEAR. RECONNECT EXISTING DATA RACK IN COMPUTER ROOM 147. RECONNECT EXISTING DATA JACKS IN AREAS A & B THAT WERE CONNECTED TO THE RACK IN ROOM 29. SEASON 2 - PROVIDE NEW DATA EQUIPMENT IN AREAS A AND B WHERE SHOWN. DISCONNECT EXISTING RACK N COMPUTER ROOM TO ALLOW CONSTRUCTION, THEN RECONNECT.
- DIGITAL VIDEO RECORDER (2 RACK UNITS).
- PoE NETWORK SWITCH (1 RACK UNIT).
- PROVIDE RACK WITH SLIDE OUT KEYBOARD TRAY (1 RACK UNIT).
- PROVIDE (1) NO. 2 INSULATED GROUND FROM BLDG. SERVICE GROUND TO GROUND BUS AT TELE TERMINAL BACKBOARD.
- NOT ALL CONDUITS ARE SHOWN. PROVIDE ADDITIONAL CONDUIT AS REQUIRED. ADJUST LAYOUT FROM WHAT IS SHOWN AS NECESSARY.
- PROVIDE THE FOLLOWING RECEPTACLES, FACEPLATES, JACKS AND INSERTS FOR ALL TELE/DATA RECEPTACLES. NO SUBSTITUTIONS:  

FACE PLATES:	ORTRONICS OR-40300158
SINGLE JACK INSERTS:	ORTRONICS OR-S21600
DOUBLE JACK INSERTS:	ORTRONICS OR-S22600
BLANK INSERTS:	OR-40300164
- SEASON 1 - INSTALL CARD ACCESS SYSTEM IN AREAS C AND D. REMOVE, SALVAGE, AND REINSTALL EXISTING CARD ACCESS EQUIPMENT IN AREAS C & D. PROVIDE NEW EQUIPMENT AS SHOWN. RECONNECT EXISTING CARD ACCESS SYSTEM EQUIPMENT IN AREAS A & B TO HEAD END EQUIPMENT IN SERVER ROOM. SEASON 2 - PROVIDE CARD ACCESS SYSTEM IN AREAS A AND B. REMOVE, SALVAGE AND REINSTALL EXISTING EQUIPMENT. PROVIDE NEW EQUIPMENT AS SHOWN.
- TERMINATE 25 CABLES ON 50 PAIR PUNCHDOWN BLOCK AND ON TELEPHONE PATCH PANEL. CONNECT CENTER TWO PINS TO EACH TELEPHONE PAIR.
- PROVIDE A BLONDER TONGUE CLOSED CIRCUIT TV SYSTEM. SEE E4.10. MOUNT EQUIPMENT ON STEEL SHELVES THAT CAN'T BE RACK MOUNTED IN INTERIOR RACK.



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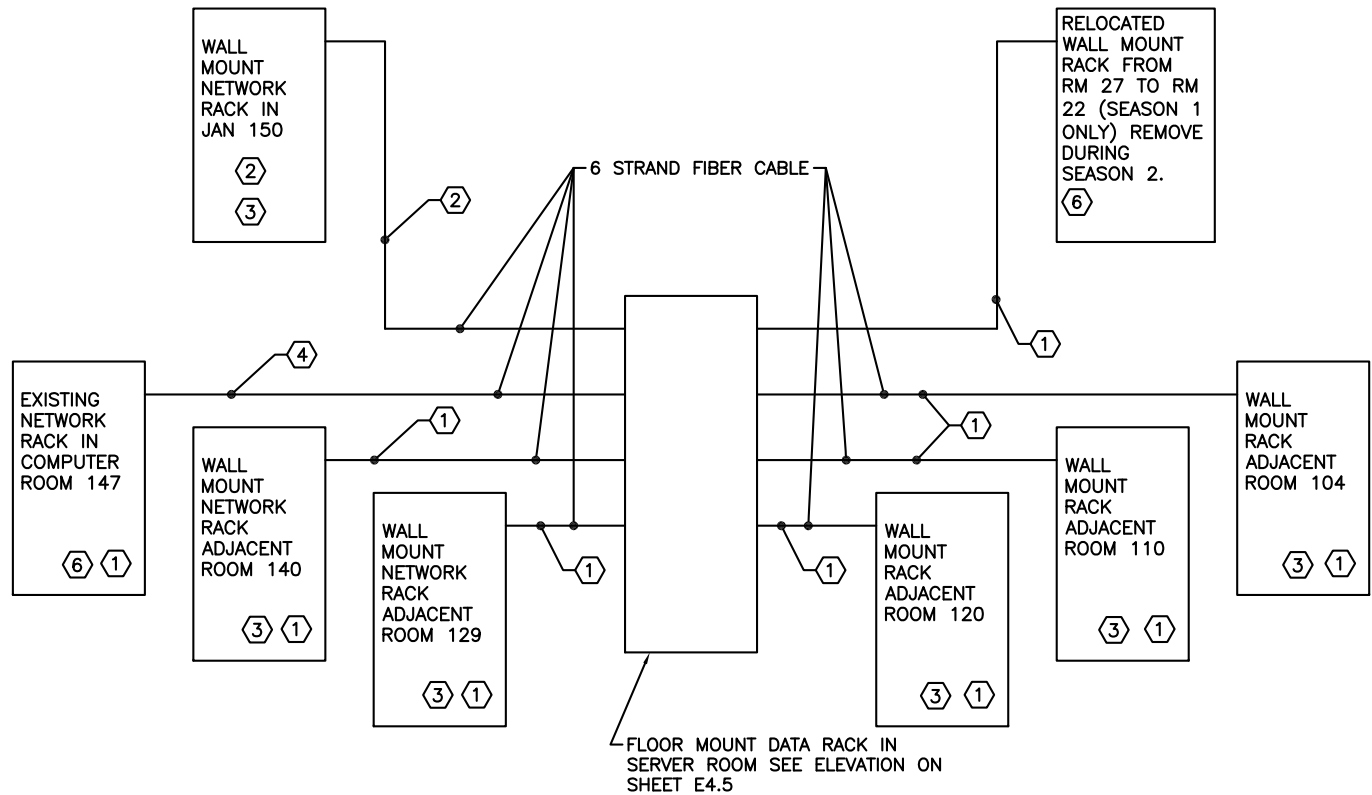
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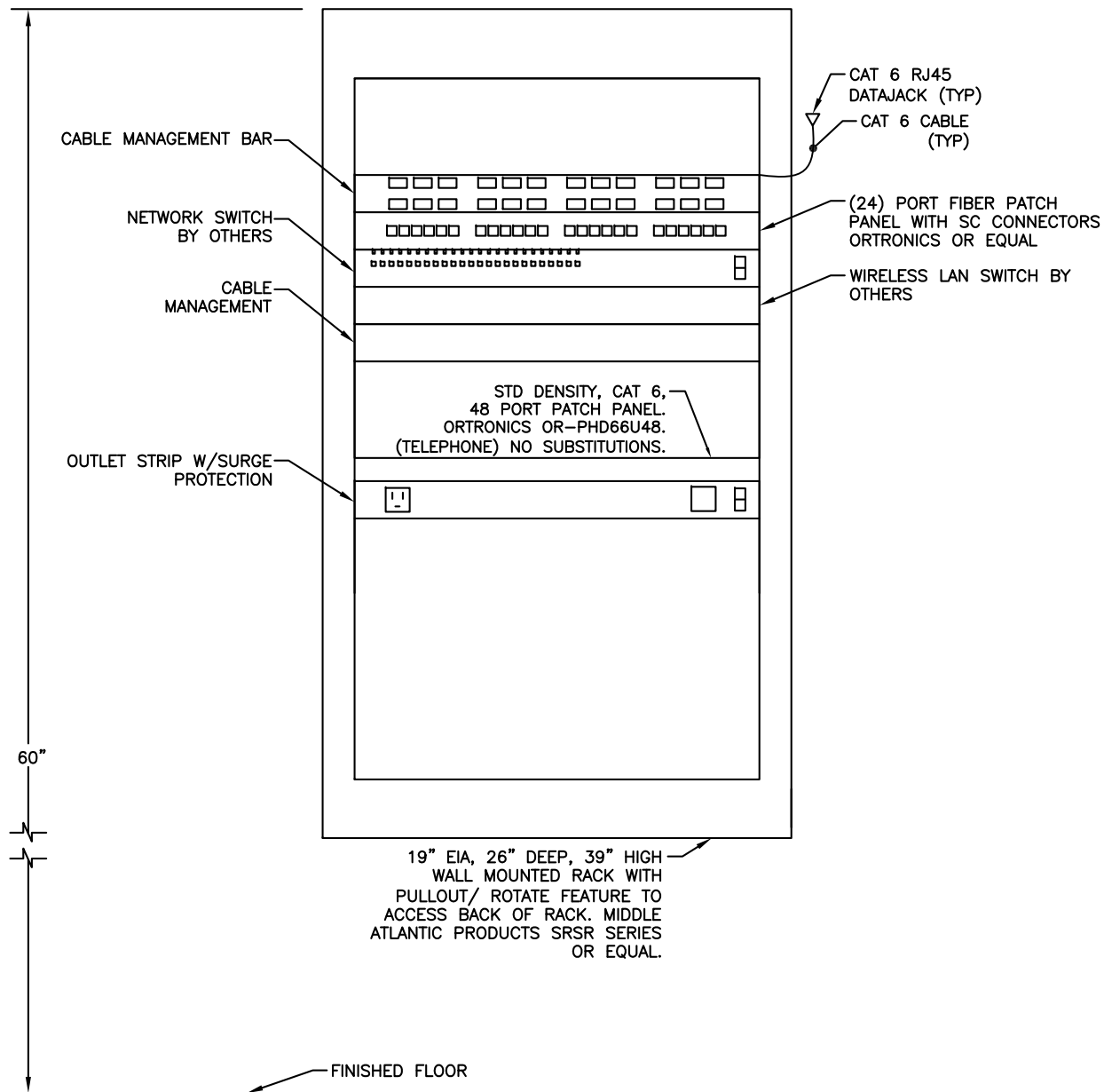
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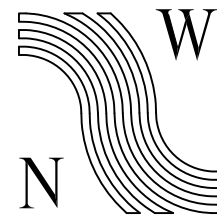
## 2 IT NETWORK SCHEMATIC

### NOTES:

- ① SEASON 1 WORK.
- ② SEASON 2 WORK.
- ③ SEE ELEVATION ON THIS SHEET
- ④ THIS CONNECTION SHALL BE MADE IN SEASON 1, THEN REMOVED AT BEGINNING OF SEASON 2 AND REINSTALLED AFTER COMMONS IS CONSTRUCTED.
- 5. PROVIDE A HOME RUN FROM EVERY DATA JACK TO THE NEAREST WALLMOUNT NETWORK RACK. ALL JACKS IN ONE ROOM SHALL BE ROUTED TO ONE RACK
- ⑥ ADD A 24 PORT FIBER PATCH PANEL IN THIS RACK. SAME TYPE AS SHOWN ON RACK ELEVATION THIS SHEET.

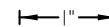


## 1 WALL MOUNTED DATA RACK ELEVATION



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E4.6

NOTES:

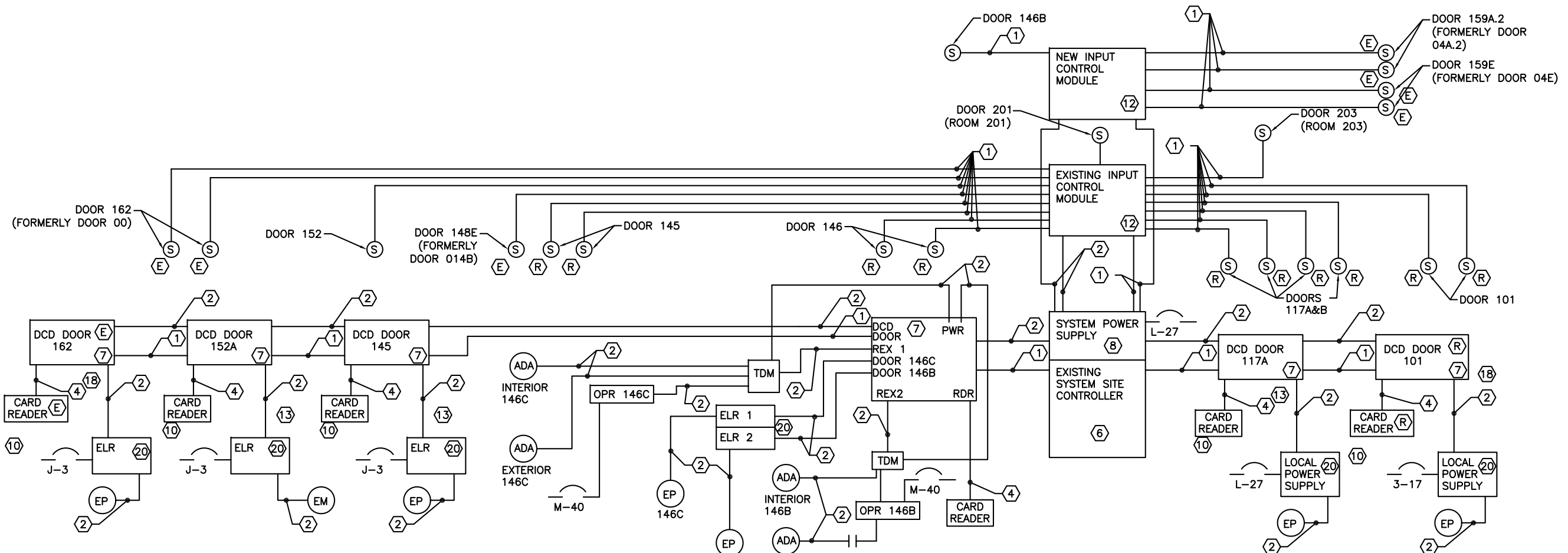
- ① BACKBONE DATA CABLE. (1) NO. 22 STP WITH DRAINWIRE. BELDEN 82761 OR EQUAL.
- ② POWER SUPPLY CABLE. (1) 2 NO. 16 COND. CABLE. BELDEN 6200UE OR EQUAL.
3. ROUTE ALL CABLES & CONDUCTORS IN CONDUIT UNLESS IN CABLE TRAY ABOVE SUSPENDED CEILING. PROVIDE CONDUIT, J-BOXES, ETC. AS REQUIRED.
- ④ CARD READER CABLE. (1) 8 SHIELDED NO. 22 COND. CABLE. BELDEN 6506FE OR EQUAL. REWIRE EXISTING DOOR SWITCHES AS REQUIRED TO ROUTE CABLE TO RELOCATED HEAD END EQUIPMENT.
- ⑤ DOOR SWITCH CABLE. (1) 4 NO. 22 COND. CABLE. BELDEN 6502UE OR EQUAL. REWIRE EXISTING DOOR SWITCHES AS REQUIRED
- ⑥ EXISTING SITE CONTROLLER FOR MANAGING & POWERING DOOR CONTROL DEVICES. LENEL L-500. CONTROL VIA EXISTING SOFTWARE. MOUNT ON TTB BOARD, ROOM 127.
- ⑦ DOOR CONTROL DEVICE TO CONTROL CARD READERS, ELECTRIFIED PANIC BARS, ETC. PROVIDE IN STANDARD BACK BOX. LENEL L-1320.
- ⑧ 12VDC, 5 AMP SYSTEM POWER SUPPLY IN LOCKABLE NEMA 1 ENCLOSURE. LENEL LNL-AL400ULX. PROVIDE WITH BATTERY KIT ABT-12. MOUNT ON TTB, ROOM 127.
- ⑨ 1/2" C, 2 NO. 12 TO HINGE, 2 NO. 12 CABLE TO ELECTRIFIED PANIC BAR. WEST PENN WPW-227.
- ⑩ WEATHERPROOF, LOW PROFILE, PROXIMITY CARD READER. 125 KHZ, COMPATIBLE WITH 26-BIT WIEGAND CARD FORMAT. MOUNTS DIRECTLY TO STANDARD SINGLE GANG BOX. HID THINLINE 2 5395 OR EQUAL. TYPICAL, UNLESS NOTED OTHERWISE.
- ⑪ NOT USED
- ⑫ MAGNETIC DOOR SWITCH INPUT MODULE LNL-1100.

NOTES (CON'T):

- ⑬ ELECTRIC HINGE
14. FURNISH 100 BLANK PROXIMITY CARDS TO OWNER. 125 KHZ, ISO STANDARD CARDS. HID CORP. ISOPROX II 1386 OR EQUAL. FURNISH 50 BLANK PROXIMITY KEY FOB TO OWNER. 125 KHZ, ISO STANDARD KEY FOB. HID CORP. PROXKEY II FOB 1346 OR EQUAL.
15. PROGRAM ACCESS CONTROL SYSTEM PER OWNER'S REQUIREMENTS WITH FEATURES AND FUNCTIONALITY FOR OPERATING, MAINTAINING, AND UPDATING DOOR CONTROL DEVICES THROUGHOUT THE BUILDING. CONNECT SYSTEM TO SCHOOL COMPUTER NETWORK.
16. 2 DIGITAL INPUT, 2 FORM "C" RELAY OUTPUT CONTROL MODULE. ELK PRODUCTS, INC. ELK-MM220 OR EQUAL. PROGRAM AS REQ'D TO CONTROL CONNECTED DEVICES.
- ⑰ ADA OPERATOR; (1) EXTERIOR AND (1) INTERIOR. SEE ARCHITECTURAL. DURING NORMAL BUSINESS HOURS OPERATORS SHALL CONTROL MOTORIZED DOOR OPERATOR. DURING NON-BUSINESS HOURS, EXTERIOR OPERATOR SHALL CONTROL DOOR ONLY AFTER VALID CARD READ IS MADE. PROVIDE CIRCUITING & PROGRAMMING AS REQ'D.
- ⑱ PROVIDE MIN. 18" ARMORED CABLE CORD FROM DOOR FRAME TO HINGE SIDE OF DOOR. SECURITRON TSB-C DOOR CORD OR EQUAL. ROUTE REX AND ELECTRIFIED PANIC FEEDER CABLES IN CORD FROM DOOR CONCEALED UP INTO CEILING.
- ⑲ MAGNETIC DOOR CONTACT SWITCH. SEE ARCHITECTURAL. CIRCUIT AS SHOWN.
- ⑳ PROVIDE LOCAL 12VDC POWER SUPPLY TO FEED THE ELECTRIFIED PANIC HARDWARE. STANLEY APEX2000 ELR-150 POWER SUPPLY OR EQUAL. PROVIDE WITH BATTERY BACKUP MODULE, BT-150-07.
- ㉑ POWER SUPPLY CABLE. (1) 2 NO. 12 COND. CABLE. PLENUM RATED. BELDEN 6000UE OR EQUAL.
22. NOT ALL ACCESS CONTROL EQUIPMENT & CIRCUITING IS SHOWN ON FLOOR PLANS DUE TO SPACE. PROVIDE AND CONNECT EQUIPMENT AS SHOWN IN SCHEMATIC, ON FLOOR PLANS, AND AS REQUIRED TO PROVIDE A COMPLETE, OPERATIONAL SYSTEM. MOUNT DEVICES IN CONCRETE BUILDING EXTERIOR AS REQUIRED. SEAL AROUND ALL EXTERIOR DEVICES. CONCEAL ALL WIRING. FLUSH MOUNT ALL DEVICES UNLESS OTHERWISE NOTED.

ACCESS CONTROL LEGEND		
DESCRIPTION	MOUNTING LOCATION/HT. (TYP)	
DCD DOOR CONTROL DEVICE	CONCEALED ABOVE CEILING	
REX REQUEST-TO-EXIT		
OPR DOOR OPERATOR		
TDM TIME DELAY MODULE		
⑰ ADA OPERATOR*	FLUSH IN WALL	
⑰ ELECTRIFIED PANIC BAR*	IN DOOR	
⑰ MAGNETIC DOOR SWITCH*	IN DOOR	
⑰ PANIC HARDWARE POWER	CONCEALED ABOVE CEILING	
⑰ CONTROL MODULE ⑰	CONCEALED ABOVE CEILING	
⑰ ELECTRIC MORTISE	IN DOOR HANDLE ASSEMBLY	
⑰ CARD READER ⑰	48" AFF	
⑰ DOOR CONTROL DEVICE ⑦	CONCEALED ABOVE CEILING	

\* DEVICE SPECIFIED IN ARCHITECTURAL. COORDINATE INSTALLATION WITH GENERAL.



① CARD ACCESS SYSTEM SCHEMATIC  
NO SCALE



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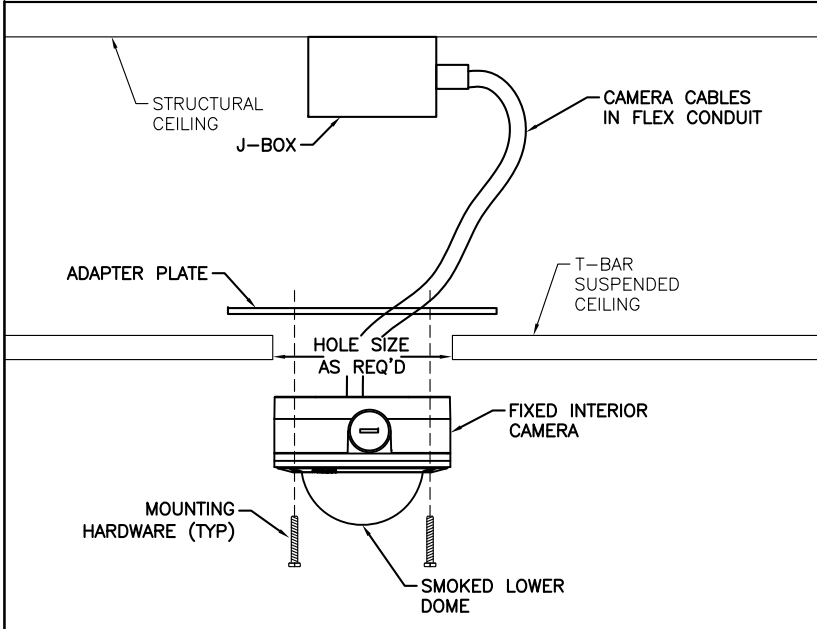
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SHEET TITLE:  
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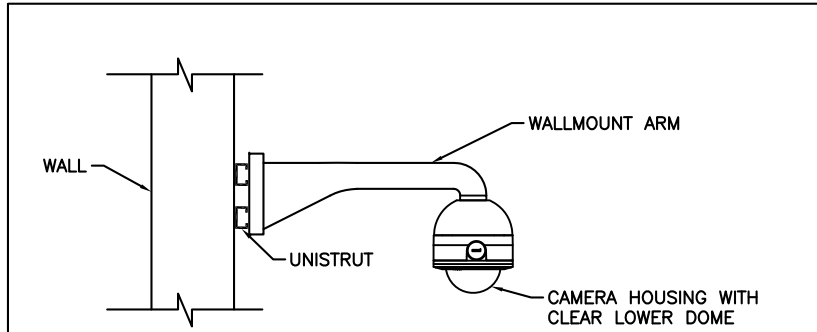
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**E4.7**



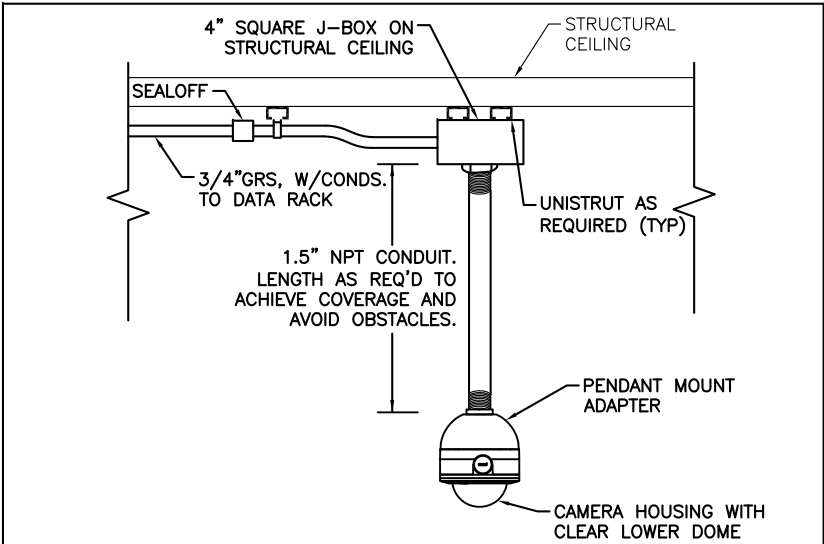
2 CAMERA SUSPENDED CEILING MOUNTING DETAIL NO SCALE

- NOTES:
1. THIS DETAIL IS A GENERAL GUIDELINE ONLY. PROVIDE CAMERA CEILING MOUNT KIT & MOUNTING HARDWARE PER CAMERA MANUFACTURER REQUIREMENTS.
  2. LOCATE CAMERAS TO AVOID OBSTACLES AND PROVIDE AIMING PER CAMERA EQUIPMENT SCHEDULE.



3 CAMERA WALLMOUNT MOUNTING DETAIL NO SCALE

- NOTES:
1. THIS DETAIL IS A GENERAL GUIDELINE ONLY. PROVIDE CAMERA WALL MOUNT KIT & MOUNTING HARDWARE PER CAMERA MANUFACTURER REQUIREMENTS.
  2. LOCATE CAMERAS TO AVOID OBSTACLES AND PROVIDE AIMING PER CAMERA EQUIPMENT SCHEDULE.
  3. FEED WITH FLEX CONDUIT FROM J-BOX MOUNTED NEXT TO CAMERA ON WALL.



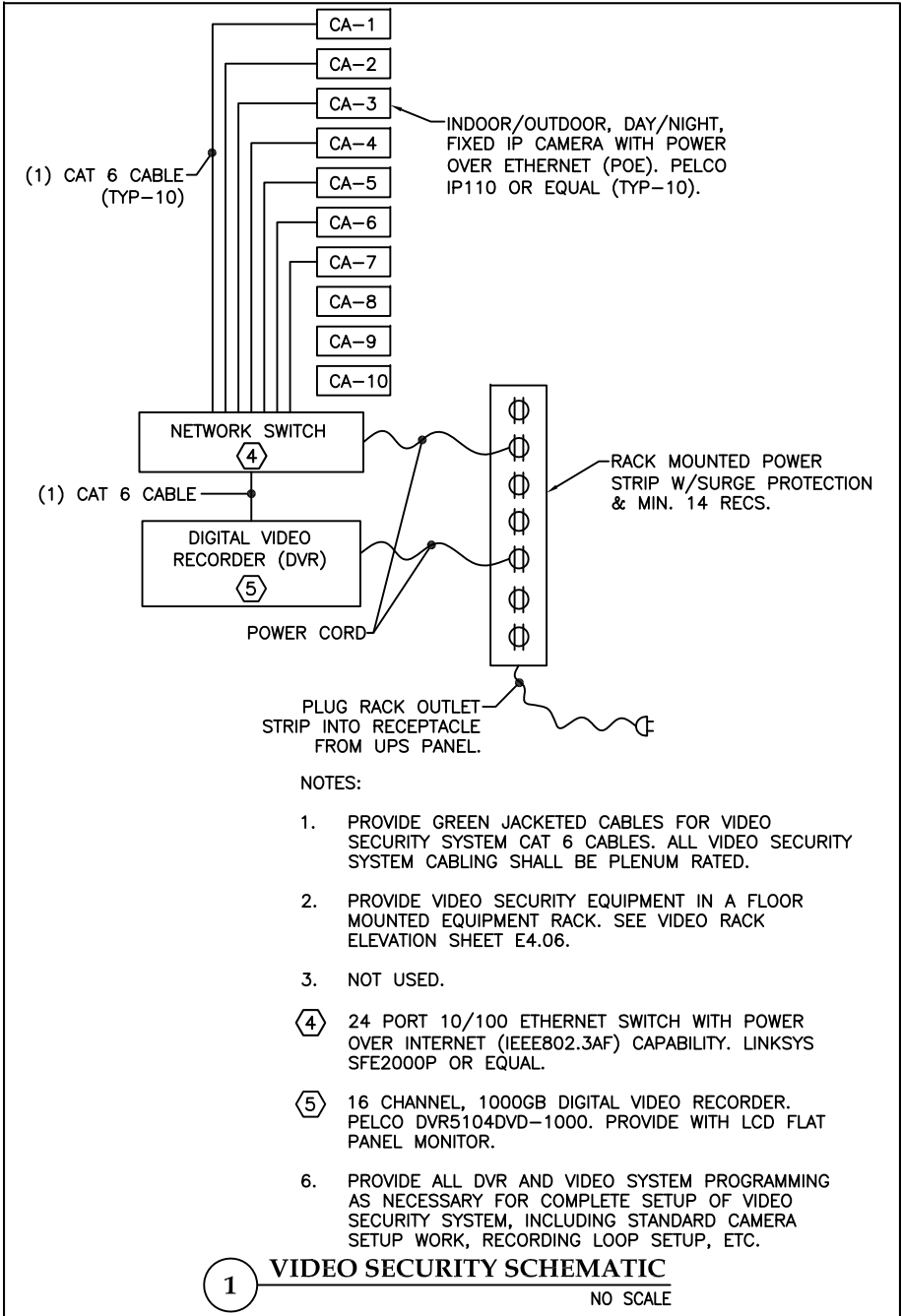
4 CAMERA PENDANT MOUNTING DETAIL NO SCALE

- NOTES:
1. THIS DETAIL IS A GENERAL GUIDELINE ONLY. PROVIDE CAMERA CEILING MOUNT KIT & MOUNTING HARDWARE PER CAMERA MANUFACTURER REQUIREMENTS.
  2. LOCATE CAMERAS TO AVOID OBSTACLES AND PROVIDE AIMING PER CAMERA EQUIPMENT SCHEDULE.

CAMERA EQUIPMENT SCHEDULE

CAMERA	MODEL	LOCATION	MOUNTING	AIMING	MOUNTING HARDWARE	REMARKS
CA-1*	PELCO IP110	COVERED PLAY AREA	WALL MOUNT	PLAY AREA	PROVIDE WITH CLEAR LOWER DOME & EXTERIOR WALL MOUNT KIT	
CA-2*	PELCO IP110	COVERED PLAY AREA	WALL MOUNT	PLAYGROUND	PROVIDE WITH CLEAR LOWER DOME & EXTERIOR WALL MOUNT KIT.	
CA-3*	PELCO IP110	SOUTH GYM WALL	WALL MOUNT	ALLEY	PROVIDE WITH CLEAR LOWER DOME & EXTERIOR WALL MOUNT KIT.	
CA-4	PELCO IP110	VESTIBULE 162	CEILING MOUNT	DOOR 162	PROVIDE WITH SMOKED LOWER DOME & CEILING MOUNTING KIT.	
CA-5	PELCO IP110	GYM	PENDANT MOUNT	DOOR 159E	PROVIDE WITH SMOKED LOWER DOME & PENDANT MOUNT KIT.	
CA-6	PELCO IP110	MAIN ENTRY	CEILING MOUNT	DOOR 146A	PROVIDE WITH SMOKED LOWER DOME & CEILING MOUNT KIT.	
CA-7	PELCO IP110	LIBRARY	PENDANT MOUNT	DOOR 148E	PROVIDE WITH SMOKED LOWER DOME & PENDANT MOUNTING KIT	
CA-8	PELCO IP110	COMMONS 145	PENDANT MOUNT	DOOR 145	PROVIDE WITH SMOKED LOWER DOME & PENDANT MOUNTING KIT	
CA-9	PELCO IP110	FOYER 117	CEILING MOUNT	DOOR 117	PROVIDE WITH SMOKED LOWER DOME & CEILING MOUNTING KIT	
CA-10	PELCO IP110	VESTIBULE 101	CEILING MOUNT	DOOR 101	PROVIDE WITH SMOKED LOWER DOME & CEILING MOUNTING KIT	

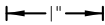
- NOTES:
1. INSTALL CAMERAS PER DETAILS, THIS SHEET, AND PER MANUFACTURER WRITTEN INSTRUCTIONS.  
  
\* PROVIDE CAMERA IN WEATHERPROOF, OUTDOOR ENCLOSURE WITH HEATER AND FAN.
  2. ALL VIDEO SECURITY SYSTEM WORK IS IN ALTERNATE NO. 7.
  3. PROVIDE HEAD END EQUIPMENT AND CAMERAS IN AREA C & D DURING SEASON 1. PROVIDE CAMERAS IN AREAS A & B IN SEASON 2.



1 VIDEO SECURITY SCHEMATIC NO SCALE



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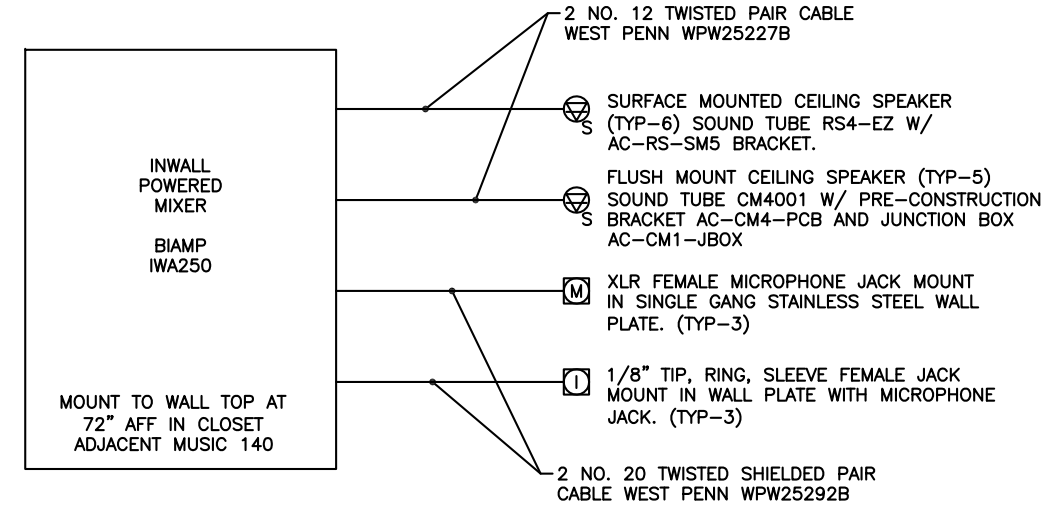
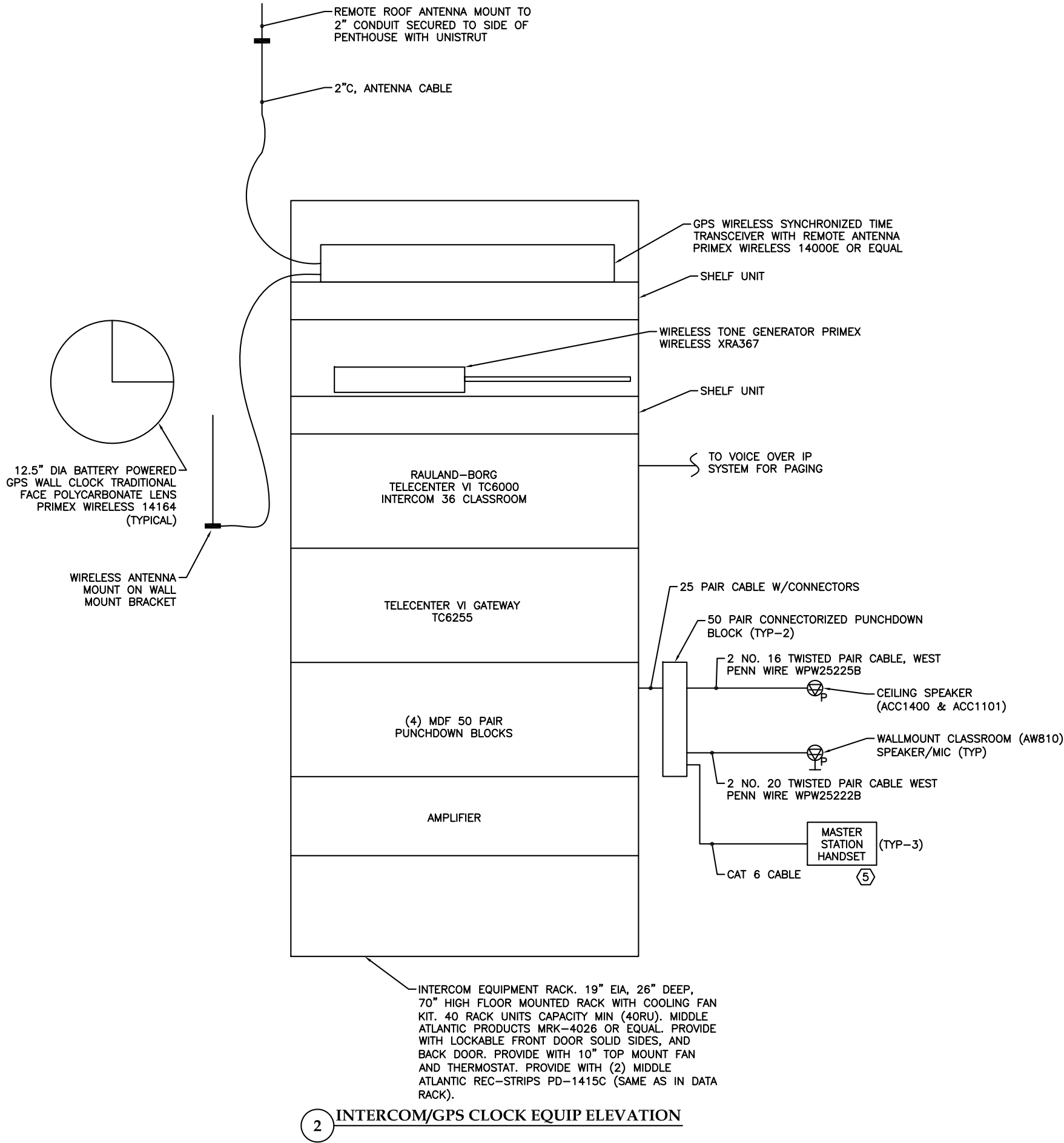
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SHEET #  
E4.8



1 COMMONS SOUND SYSTEM SCHEMATIC

- NOTES:
1. PROVIDE A DEDICATED HOME RUN FOR EACH CLASSROOM SPEAKER/MIC AND FOR EACH CALL SWITCH.
  2. UP TO (10) CEILING SPEAKERS MAY BE INSTALLED ON ONE HOME RUN.
  3. DURING SEASON 1, PROVIDE 12 CEILING SPEAKERS IN AREA A AND B FOR INTERIM SCHOOL YEAR. INSTALL WHERE DIRECTED BY OWNER. INSTALL CABLES ABOVE SUSPENDED CEILING ON J HOOKS FROM STRUCTURAL CEILING.
  4. DURING SEASON 2, INSTALL SPEAKERS IN AREAS A & B WHERE SHOWN.
- 5 PROVIDE A HANDSET IN THE ADMIN OFFICE, NURSES OFFICE, AND NEXT TO COMMONS SOUND SYSTEM. WALL MOUNT UNIT AT COMMONS SOUND SYSTEM



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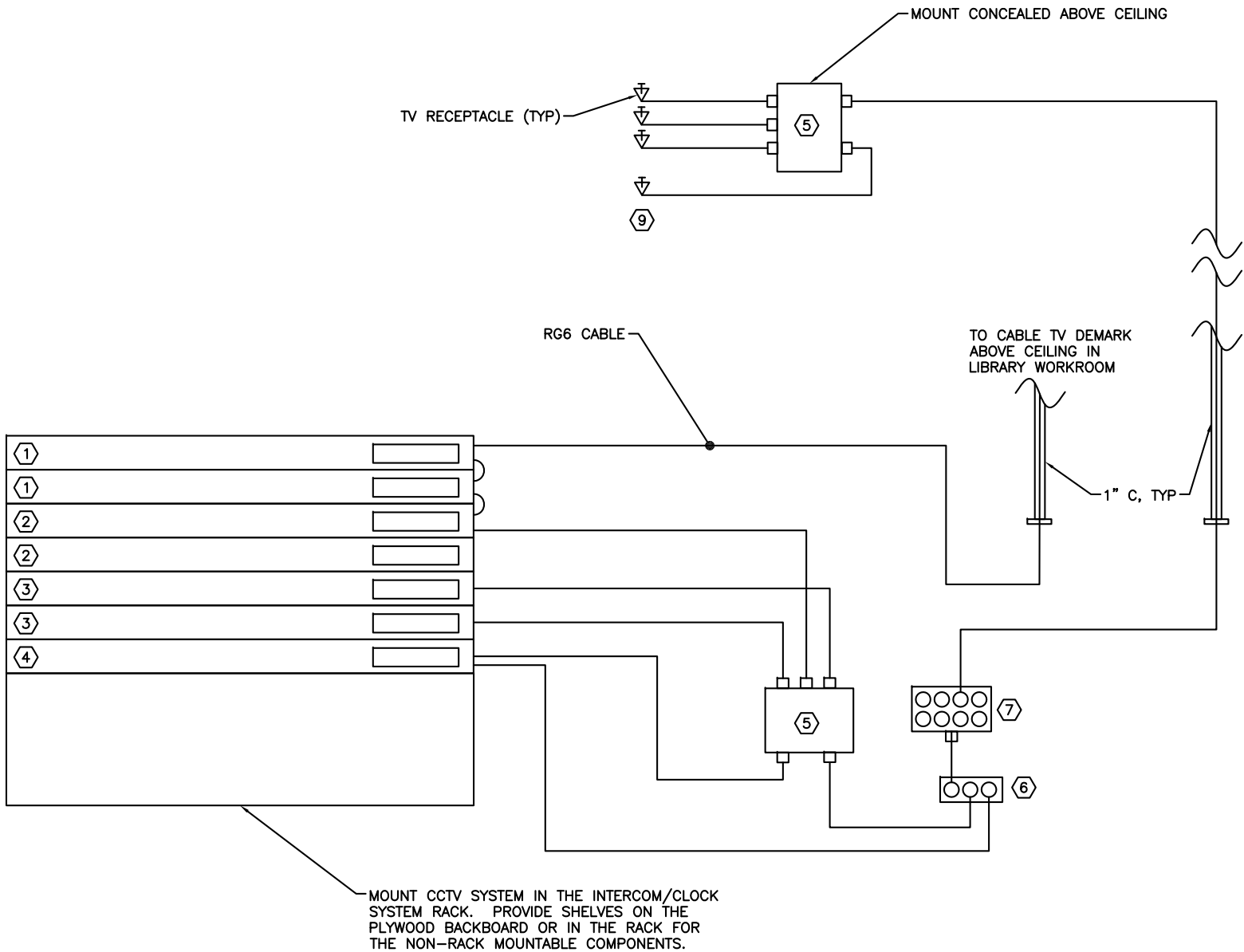
CBJ Contract No. E11-137  
JUNEAU, ALASKA

SHEET TITLE:  
**RISER DIAGRAMS 6**

DATE: NOV. 15, 2010  
REVISION: ....  
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DRAWN: DMP

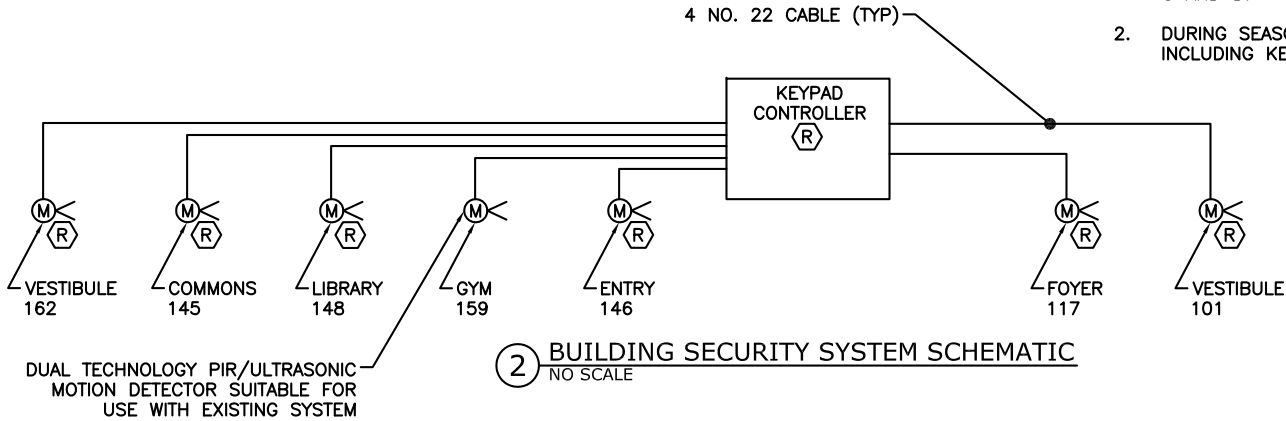
SHEET #  
**E4.9**





- NOTES:
- 1 RACK MOUNT CHANNEL ELIMINATION FILTER. BLONDER TONGUE CEF SERIES.
  - 2 RACK MOUNT DISTRIBUTION AMPLIFIER. BLONDER TONGUE RMDA SERIES
  - 3 CHANNELIZED AGILE MODULATOR AUDIO/VIDEO. BLONDER TONGUE MAVM SERIES
  - 4 HETERODYNE PROCESSOR. BLONDER TONGUE AP SERIES
  - 5 FOUR WAY SPLITTER. BLONDER TONGUE SXRS-4
  - 6 MUX DEVICE. BLONDER TONGUE DSV SERIES
  - 7 EIGHT WAY SPLITTER. BLONDER TONGUE SXRS-8
  - 8 PROVIDE A CLOSED-CIRCUIT TELEVISION SYSTEM WITH TV RECEPTACLES IN ALL OF THE LOCATIONS SHOWN ON THE FLOOR PLANS. PROVIDE THE SYSTEM WITH THE CAPABILITY OF RECEIVING A SIGNAL FROM A CABLE TV SOURCE, A DVD PLAYER, TV CAMERA AND A DIGITAL VIDEO DEVICE (IPOD, ETC.). THE SYSTEM SHALL HAVE THE CAPABILITY TO OUTPUT A SIGNAL TO BE RECORDED BY A DVD RECORDER OR VIDEO RECORDING DEVICE. THE SYSTEM SHALL USE BLONDER TONGUE EQUIPMENT OR AN APPROVED EQUAL. THE SYSTEM SHALL HAVE THE MINIMUM COMPONENTS SHOWN. PROVIDE A DESIGN BY BLONDER TONGUE LABORATORIES, INC, 1-800-523-6049. PROVIDE CIRCUITING PER MANUFACTURER'S INSTRUCTIONS. PROVIDE ALL WIRING AND ADDITIONAL COMPONENTS NOT SHOWN HERE FOR A FULLY FUNCTIONAL SYSTEM. INCREASE CABLE SIZE, SPLITTER CONFIGURATOIN OR QUANTITY AS REQUIRED.
  - 9 TV RECEPTACLE. LOCATE WHERE SHOWN ON THE FLOOR PLANS. LEVITON 40539-OMW OR EQUAL.

1 CLOSED CIRCUIT TELEVISION (CCTV) SYSTEM SCHEMATIC  
NO SCALE

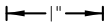


- NOTES:
- 1. DURING SEASON 1, REMOVE AND REINSTALL SYSTEM DEVICES IN AREAS C AND D.
  - 2. DURING SEASON 2, REMOVE AND REINSTALL REMAINING DEVICES INCLUDING KEYPAD CONTROLLER.

2 BUILDING SECURITY SYSTEM SCHEMATIC  
NO SCALE



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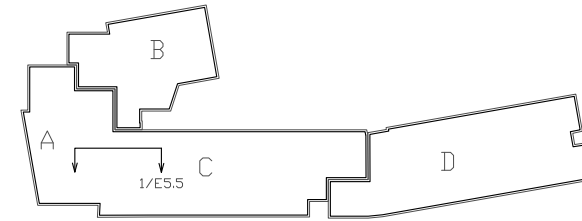
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CBJ Contract No. E11-137  
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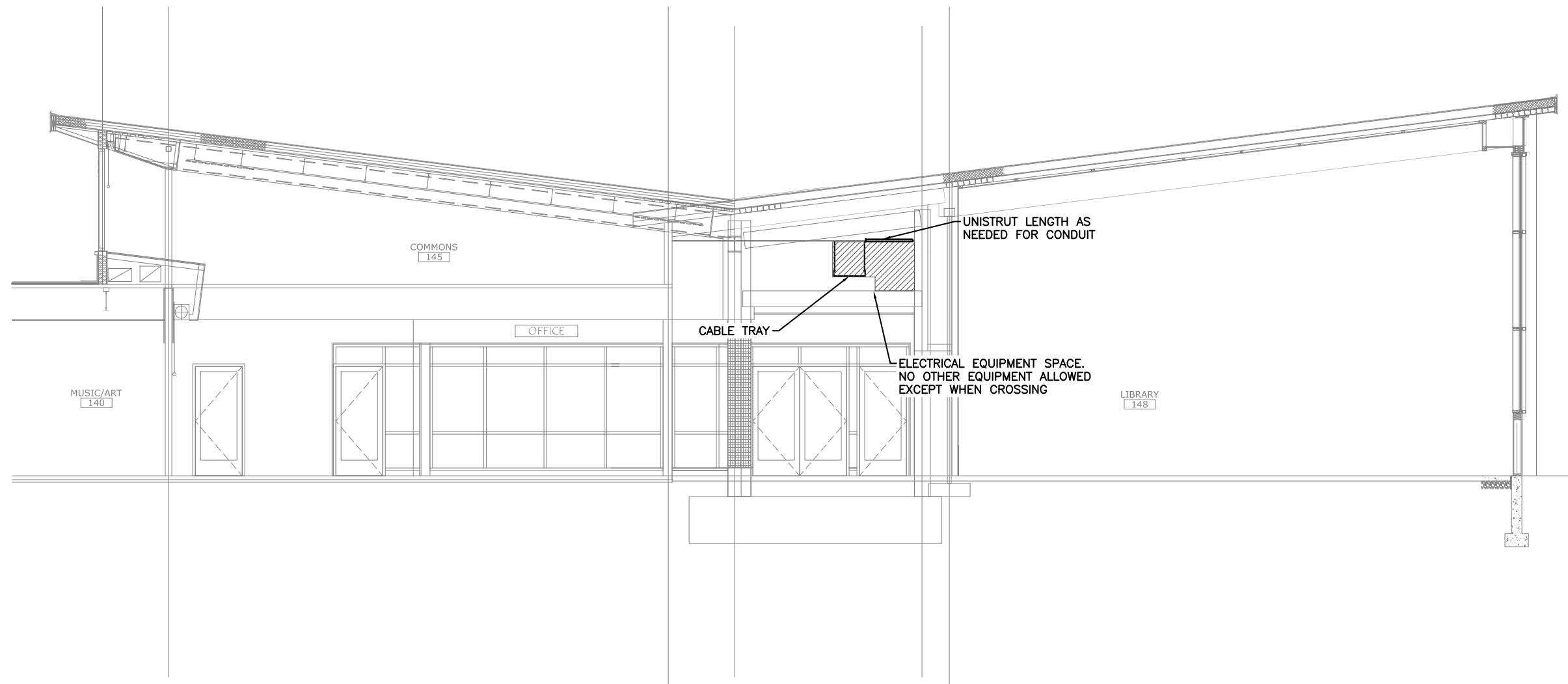
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RISER DIAGRAMS 7

DATE: NOV. 15, 2010  
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SHEET #  
E4.10

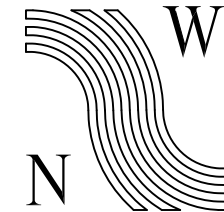
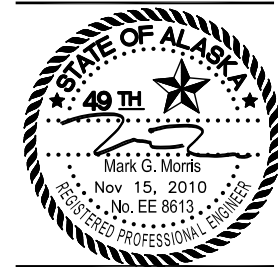


KEY PLAN



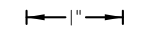
1 BLDG SECTION—GRID LINE 4

SCALE: 0 2' 4' 8'



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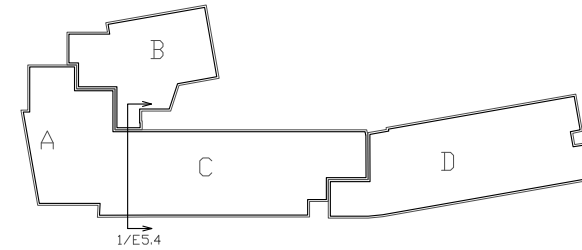
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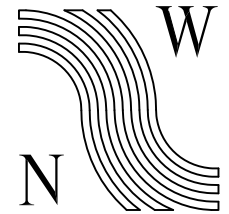
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BUILDING  
SECTIONS 1

DATE: NOV. 15, 2010  
REVISION: ....  
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SHEET #  
E5.0

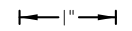


KEY PLAN

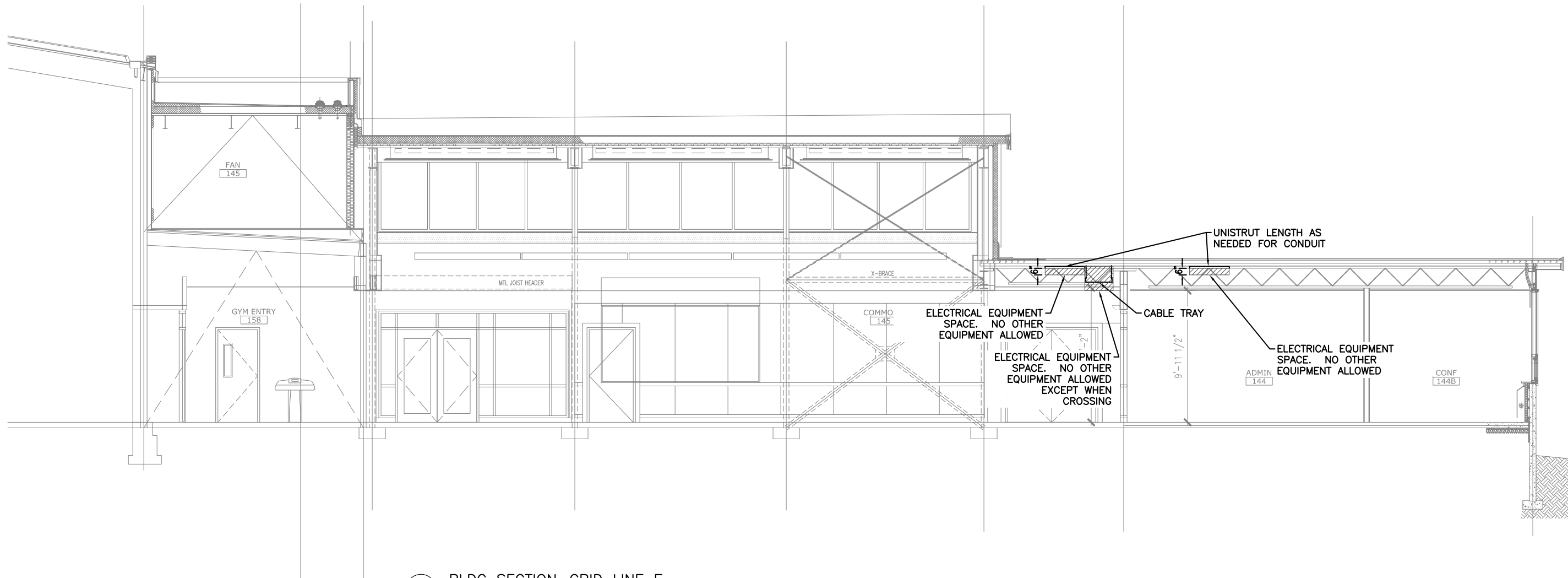


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1 BLDG SECTION—GRID LINE E

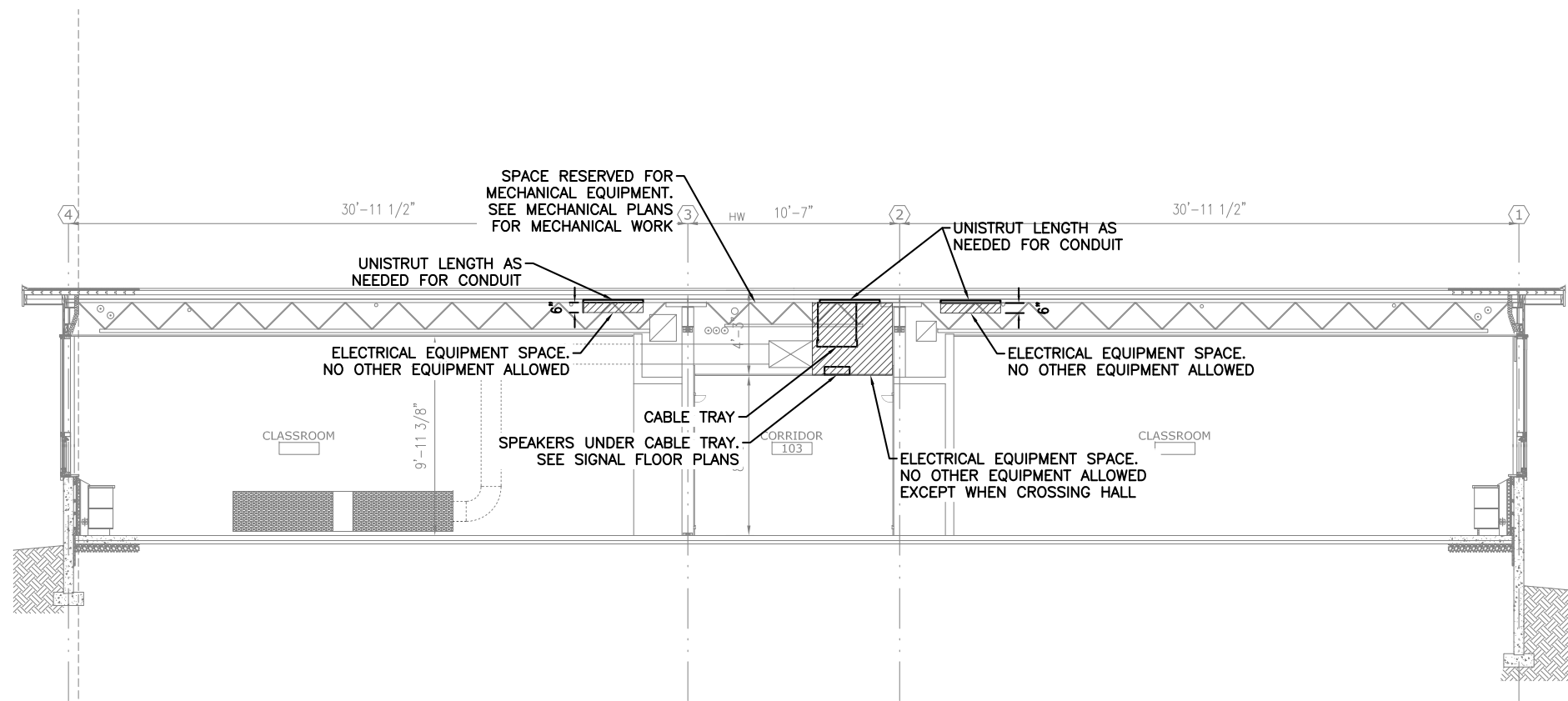
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SHEET TITLE:  
**BUILDING  
SECTIONS 2**

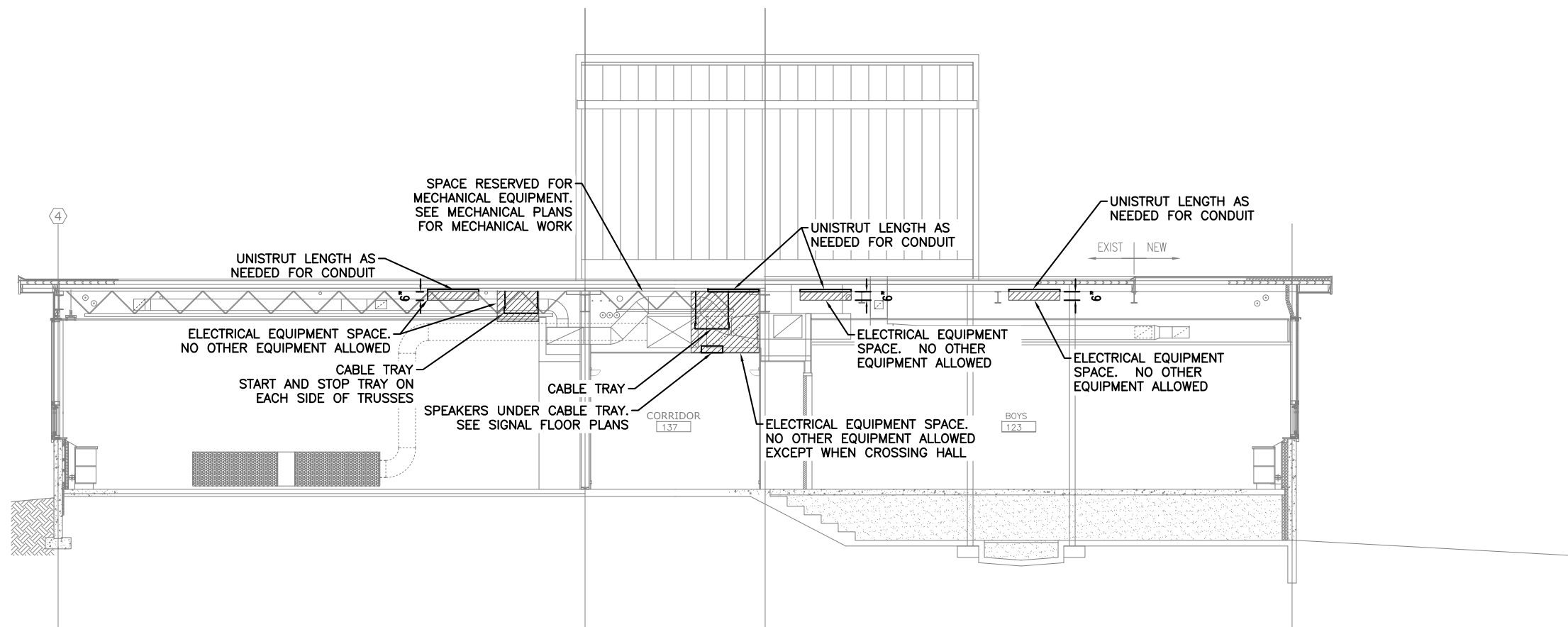
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SHEET #  
**E5.1**



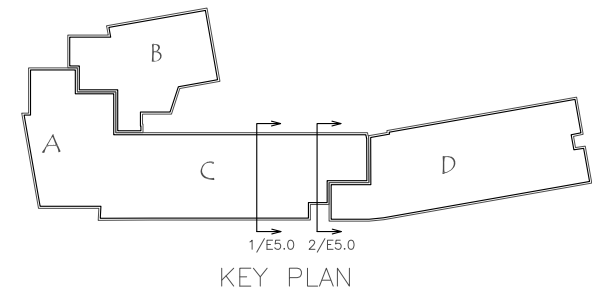
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SCALE: 0 2' 4' 8'



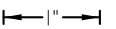
2 BLDG SECTION-GRID LINE J

SCALE: 0 2' 4' 8'



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SHEET TITLE:

**BUILDING SECTIONS 3**

DATE: NOV. 15, 2010

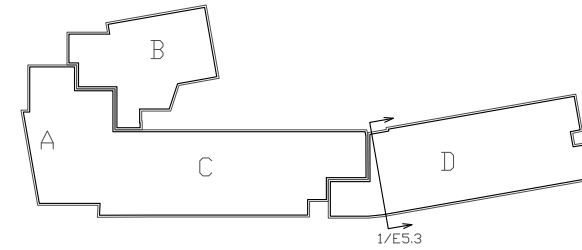
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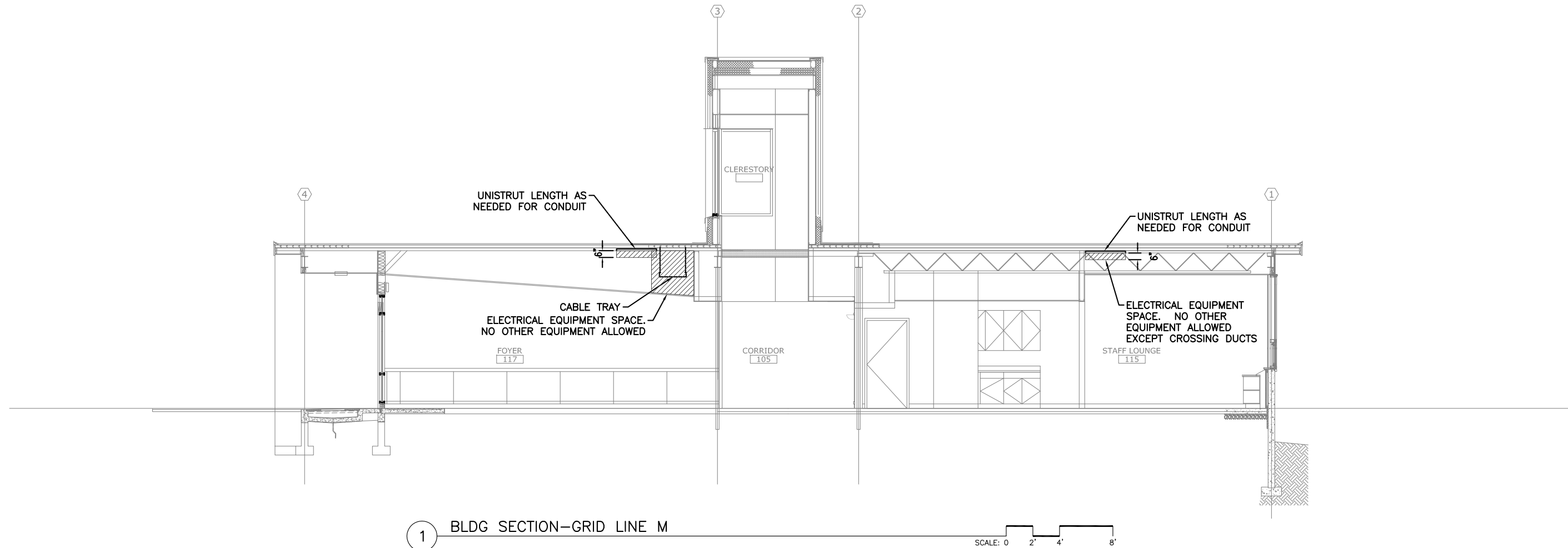
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**E5.2**

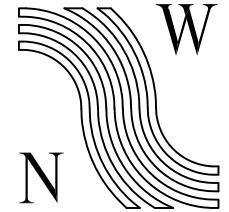


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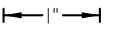
1 BLDG SECTION—GRID LINE M

SCALE: 0 2' 4' 8'



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SHEET TITLE:

BUILDING  
SECTIONS 4

DATE: NOV. 15, 2010

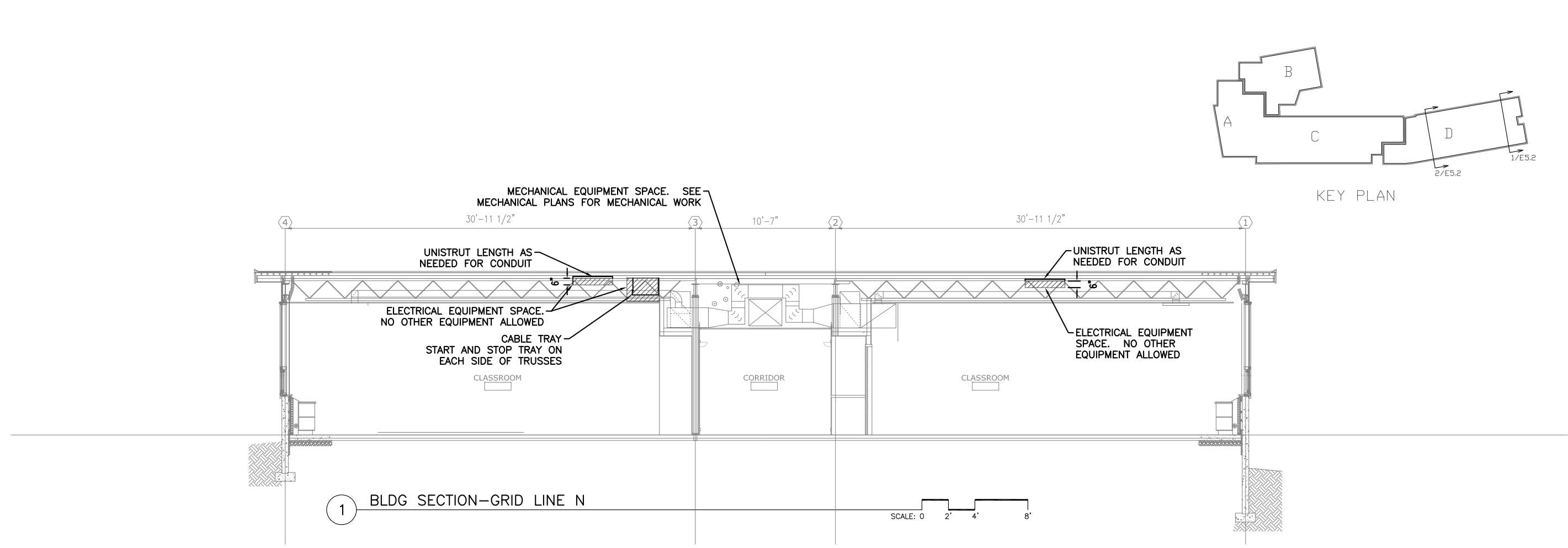
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E5.3





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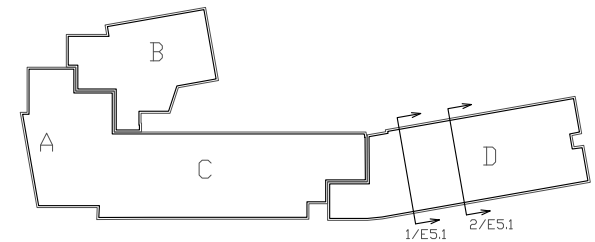
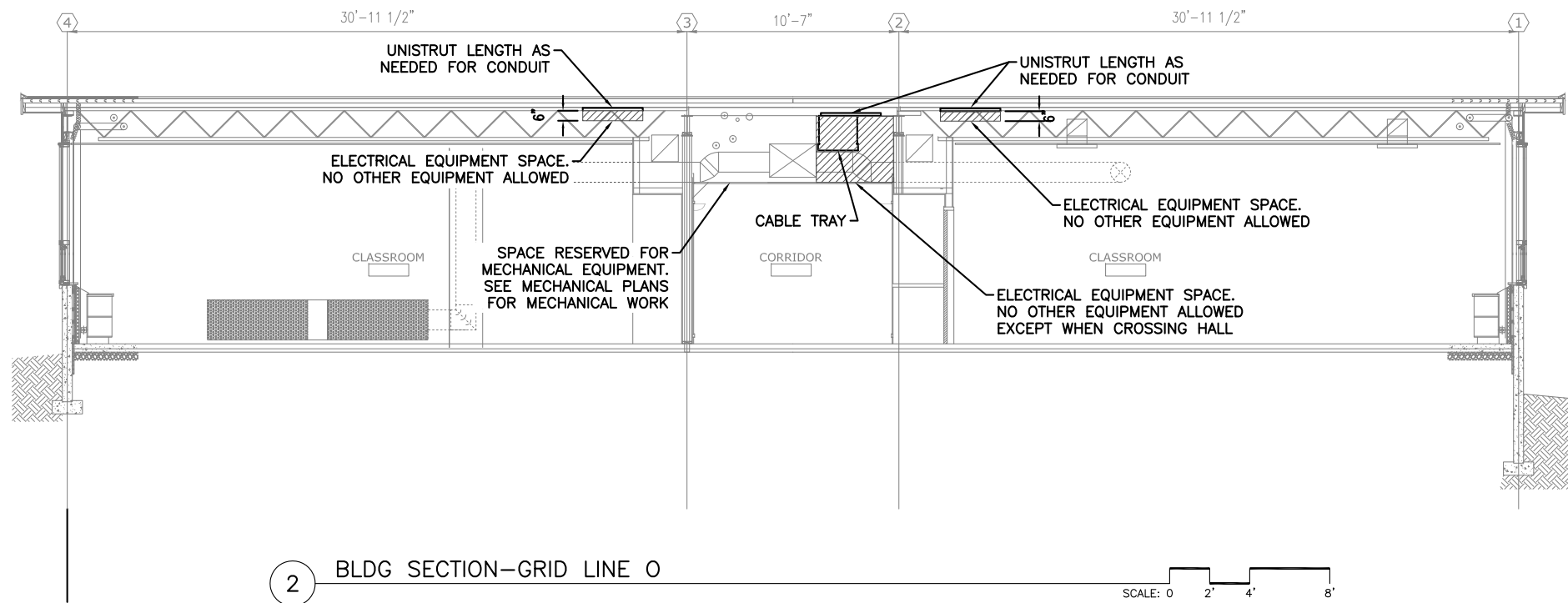
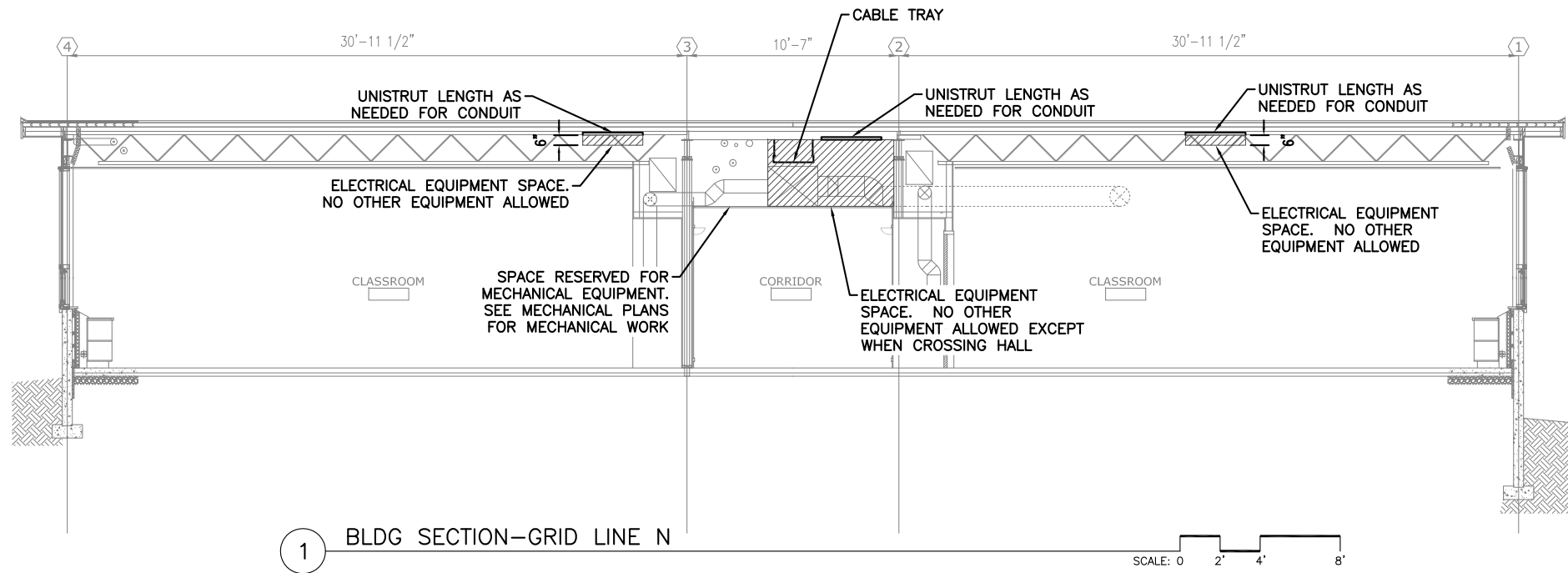
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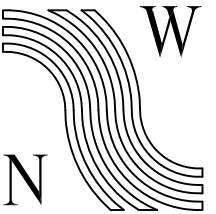
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DATE:	NOV. 15, 2010
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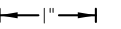


KEY PLAN



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**BUILDING  
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**E5.5**