

NEW ELEMENTARY AND MIDDLE SCHOOL

STUDY AREA 59, Sherwood, Oregon, 97140-8520

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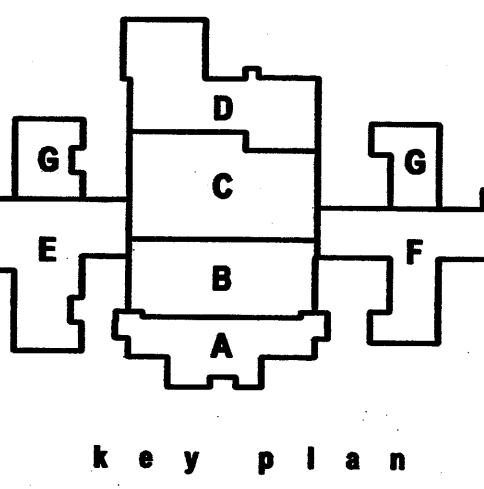
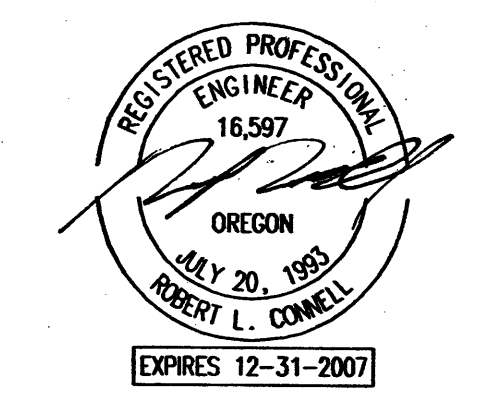
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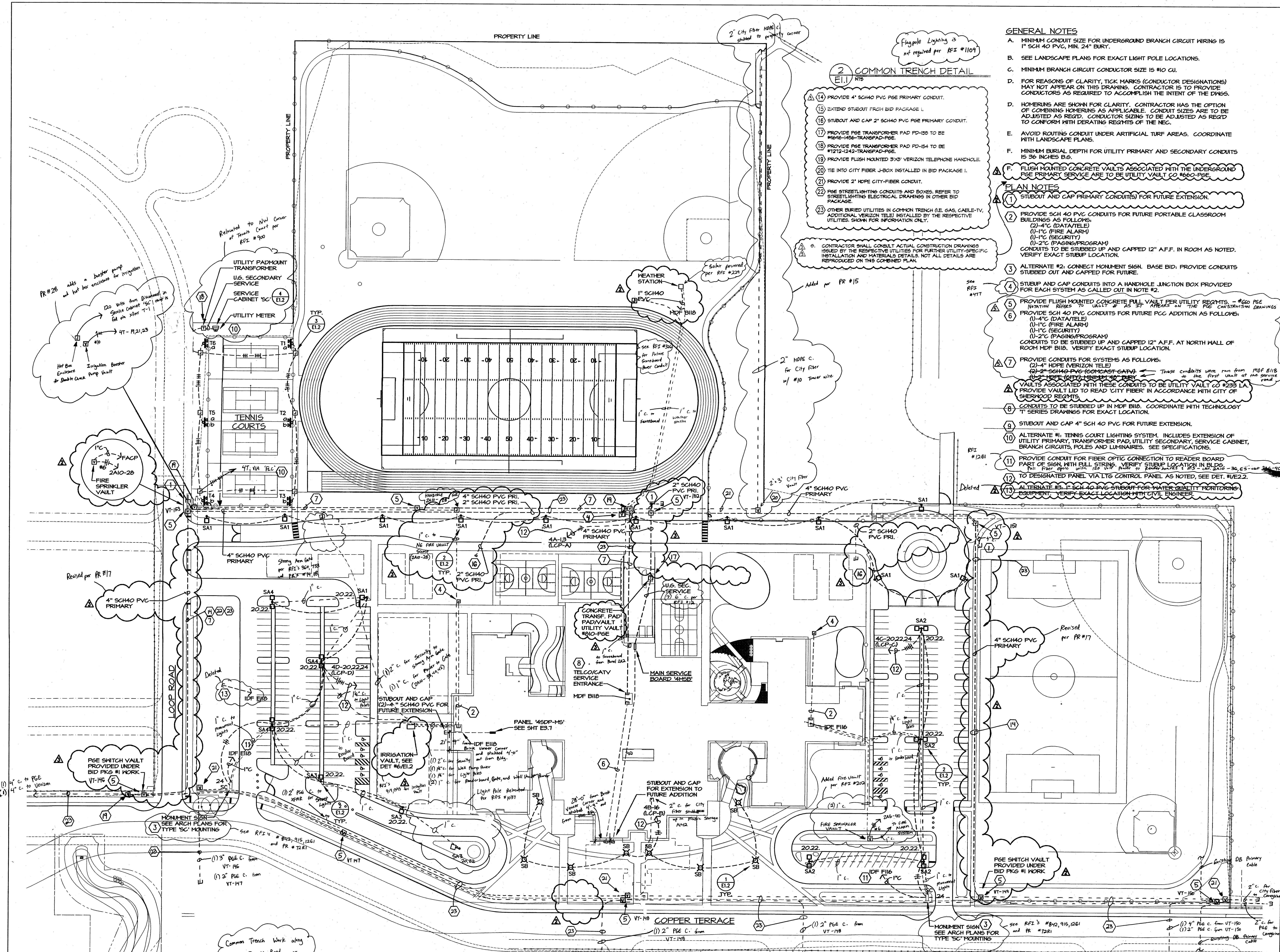


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ADD	October 17, 2007
ADD	October 26, 2007
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ADD	November 5, 2007

project # 06022

Electrical Site Plan

E1.1


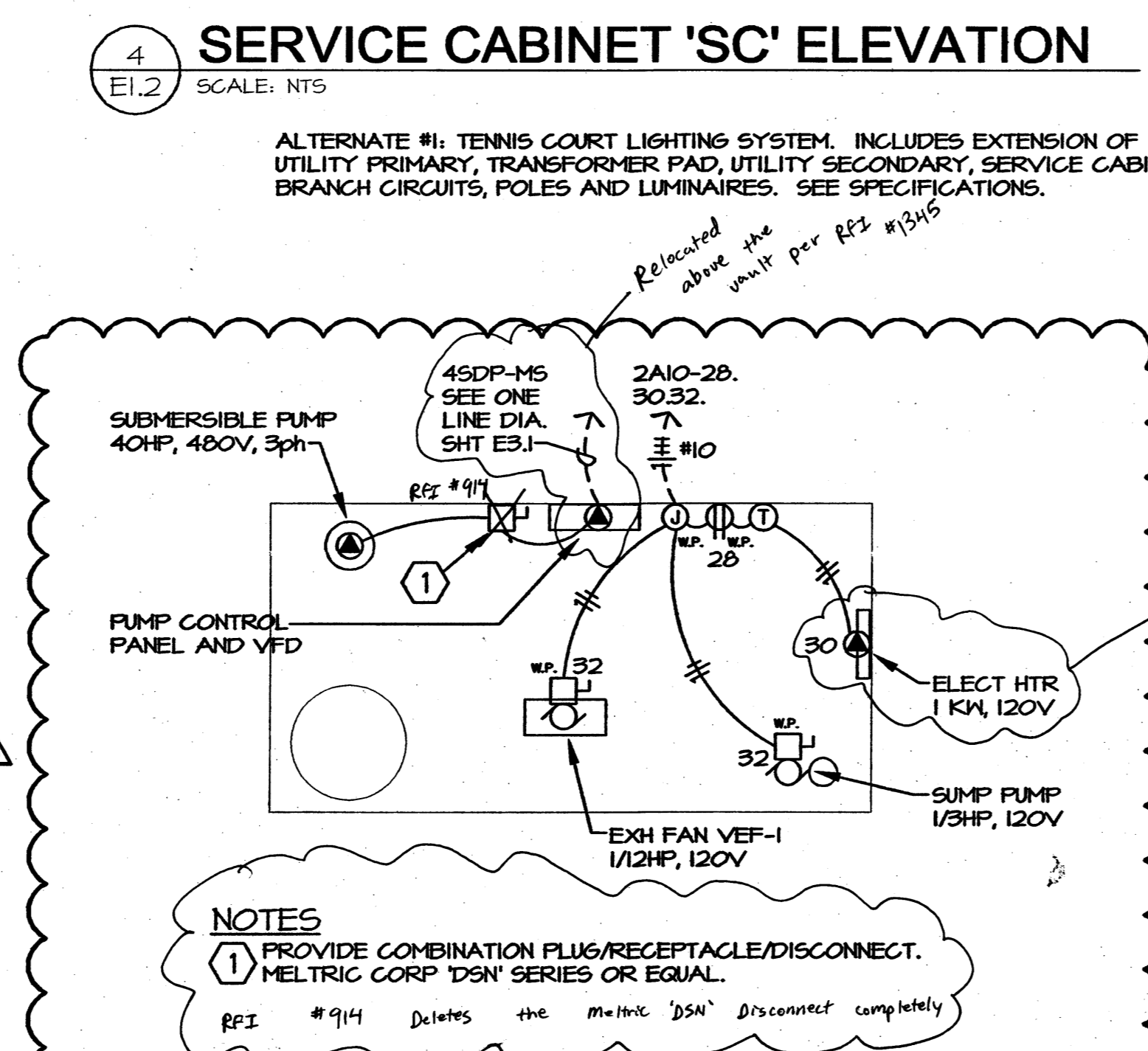
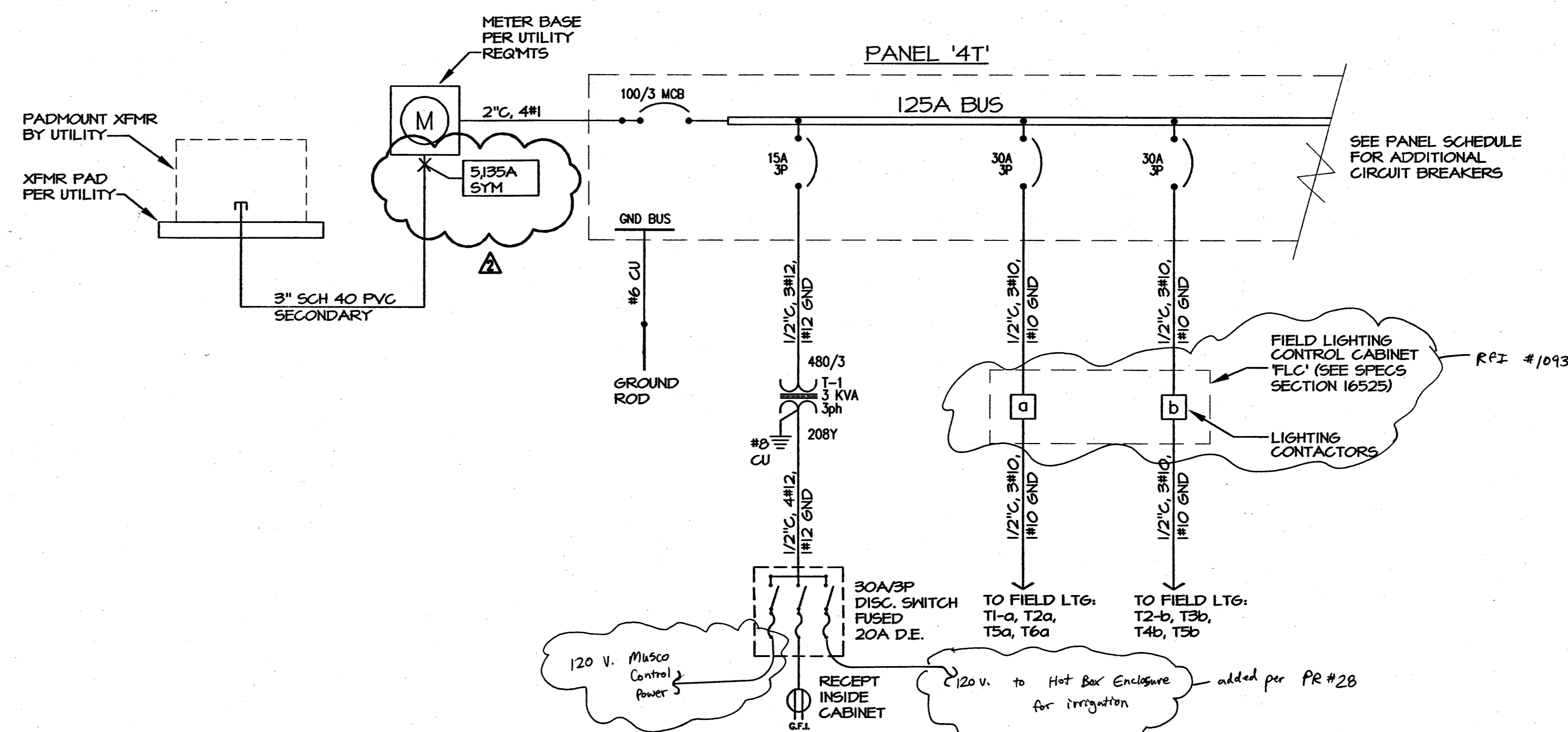
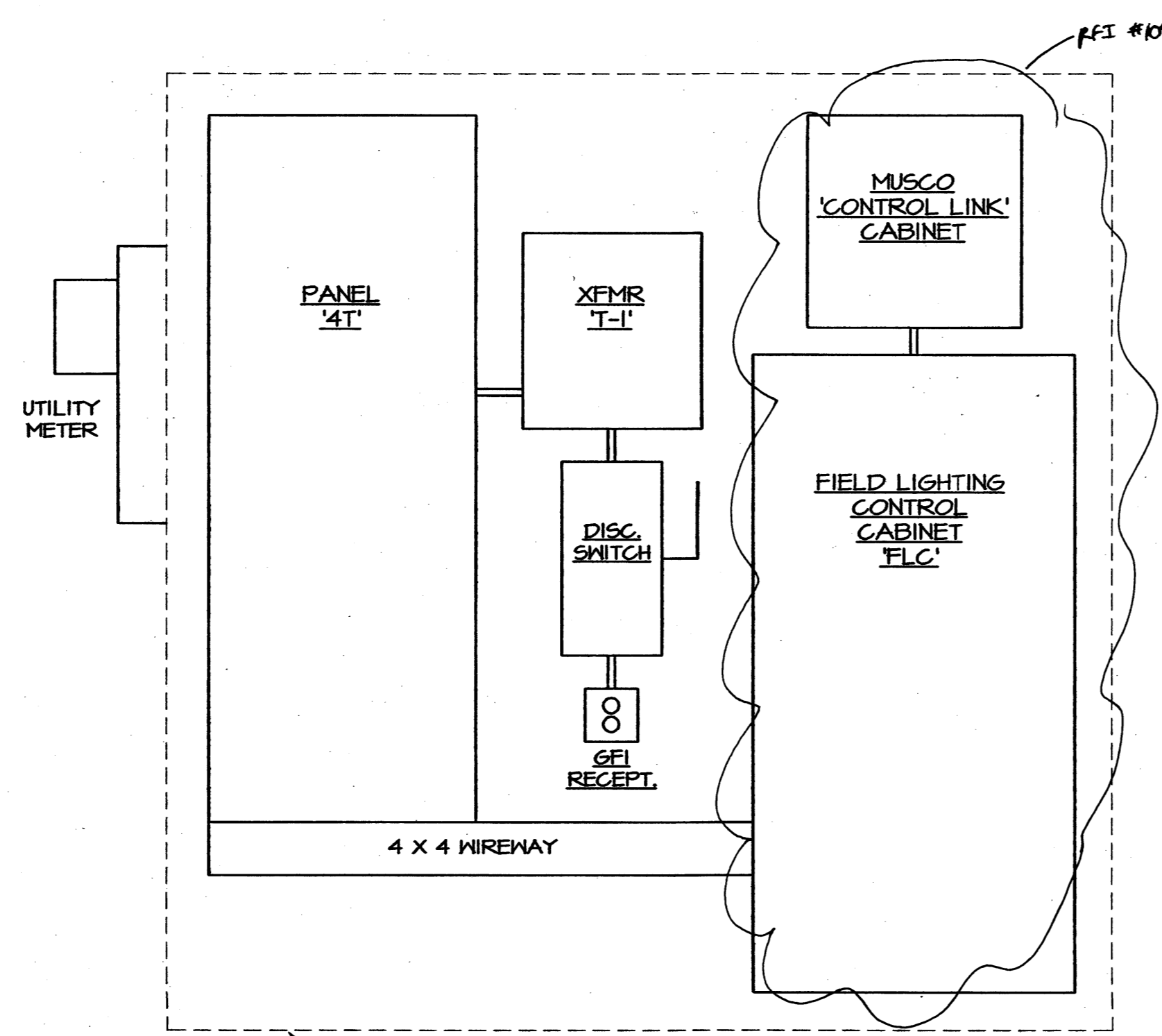
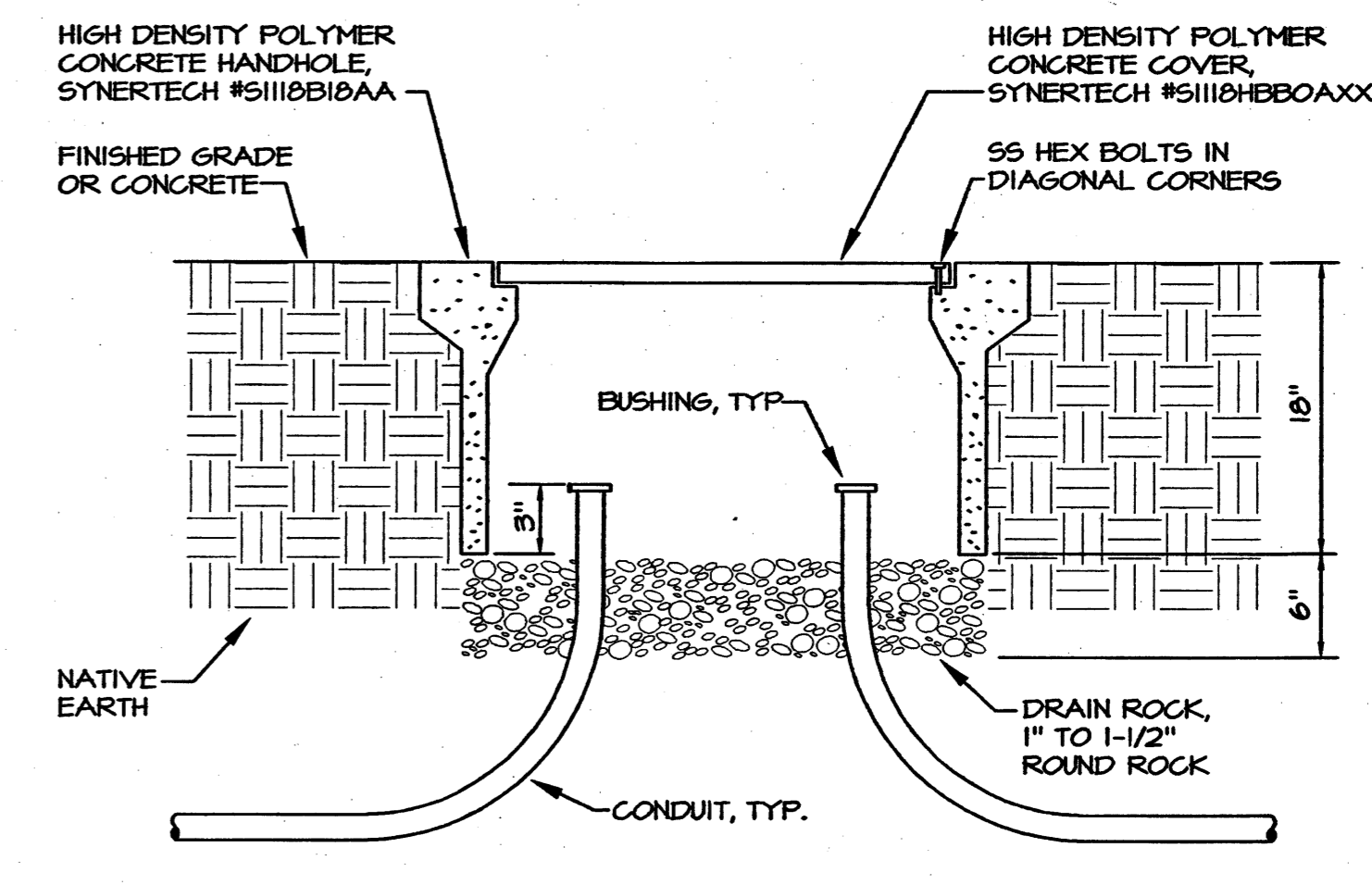
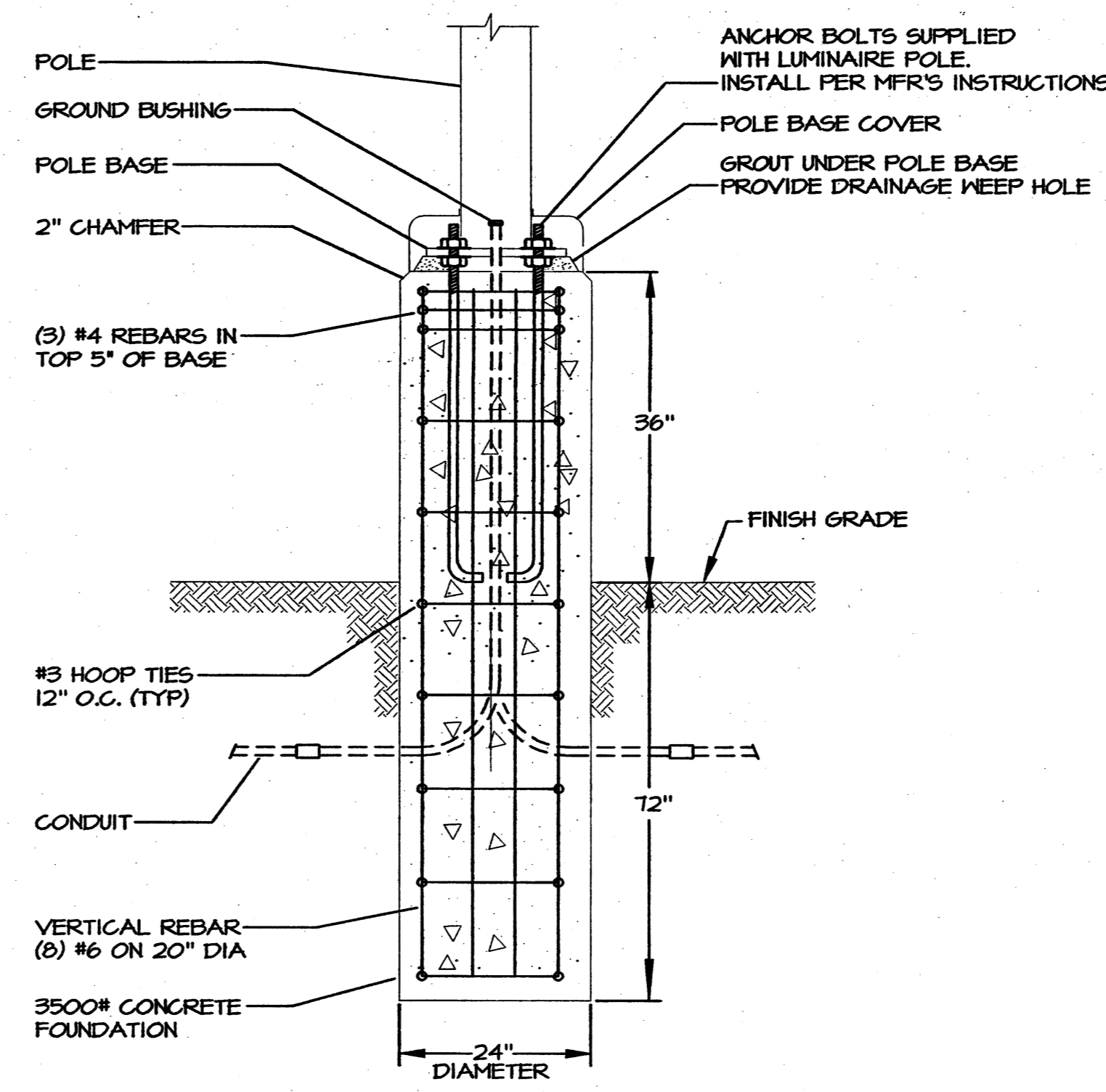
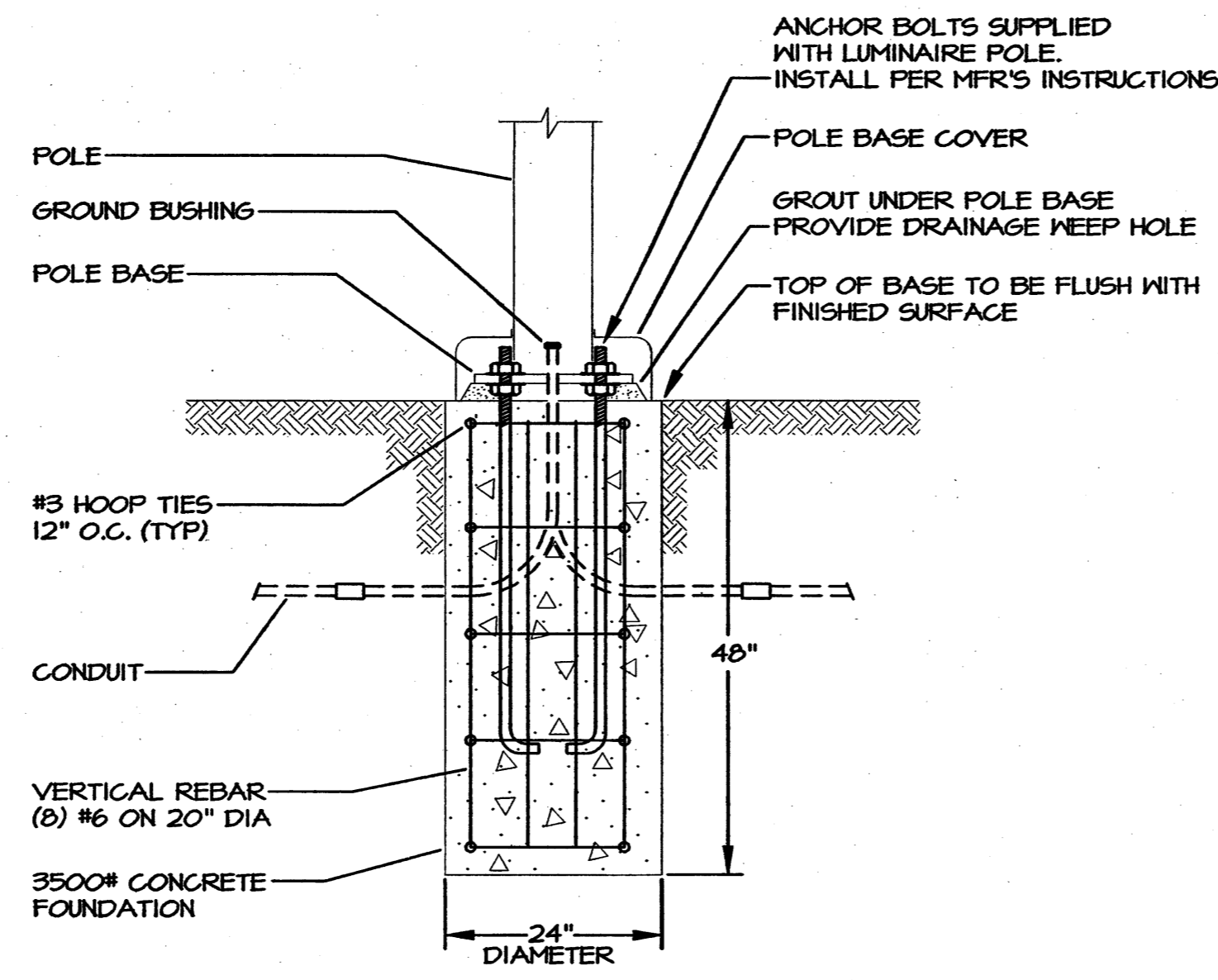
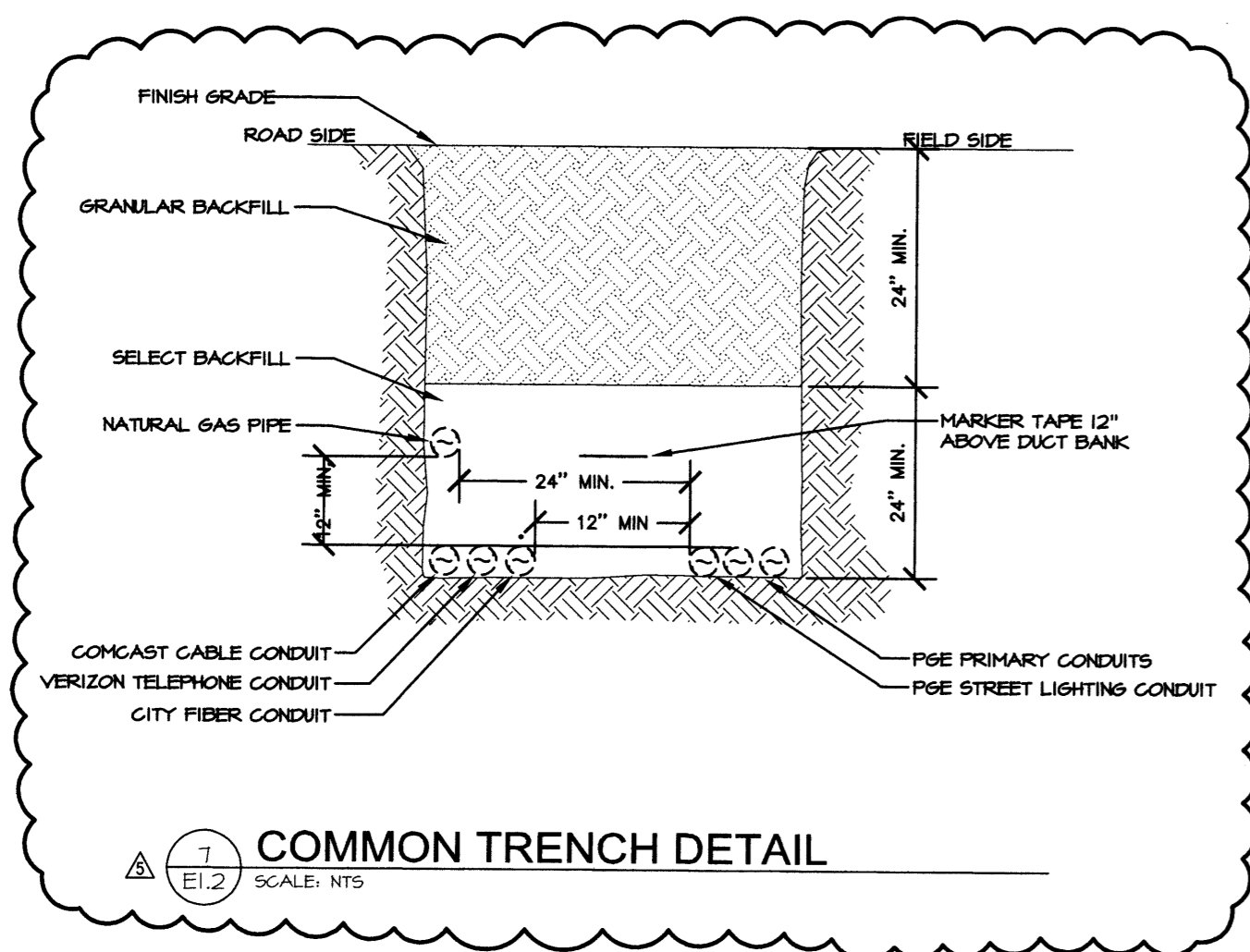
- GENERAL NOTES**
- MINIMUM CONDUIT SIZE FOR UNDERGROUND BRANCH CIRCUIT WIRING IS 1" SCH 40 PVC, MIN. 24" BURIED.
 - SEE LANDSCAPE PLANS FOR EXACT LIGHT POLE LOCATIONS.
 - MINIMUM BRANCH CIRCUIT CONDUCTOR SIZE IS #10 CU.
 - FOR REASONS OF CLARITY, TICK MARKS (CONDUCTOR DESIGNATIONS) MAY NOT APPEAR ON THIS DRAWING. CONTRACTOR IS TO PROVIDE CONDUCTORS AS REQUIRED TO ACCOMPLISH THE INTENT OF THE DWGS.
 - HOMERUNS ARE SHOWN FOR CLARITY. CONTRACTOR HAS THE OPTION OF COMBINING HOMERUNS AS APPLICABLE. CONDUIT SIZES ARE TO BE ADJUSTED AS REQ'D. CONDUCTOR SIZING TO BE ADJUSTED AS REQ'D TO CONFORM WITH DERATING REQUIREMENTS OF THE NEC.
 - AVOID ROUTING CONDUIT UNDER ARTIFICIAL TURF AREAS. COORDINATE WITH LANDSCAPE PLANS.
 - MINIMUM BURIAL DEPTH FOR UTILITY PRIMARY AND SECONDARY CONDUITS IS 36 INCHES B.G.
 - FLUSH MOUNTED CONCRETE VAULTS ASSOCIATED WITH THE UNDERGROUND PGE PRIMARY SERVICE ARE TO BE UTILITY VAULT CO #660-PGE.

- COMMON TRENCH DETAIL**
- PROVIDE 4" SCH40 PVC PGE PRIMARY CONDUIT.
 - EXTEND STUBOUT FROM BID PACKAGE 1.
 - STUBOUT AND CAP 2" SCH40 PVC PGE PRIMARY CONDUIT.
 - PROVIDE PGE TRANSFORMER PAD PD-155 TO BE 1212-1242-TRANS-PAD-PGE.
 - PROVIDE PGE TRANSFORMER PAD PD-154 TO BE 1212-1242-TRANS-PAD-PGE.
 - PROVIDE FLUSH MOUNTED 3"x3" VERIZON TELEPHONE HANDLE.
 - TIE INTO CITY FIBER J-BOX INSTALLED IN BID PACKAGE 1.
 - PROVIDE 2" HDPE CITY-FIBER CONDUIT.
 - PGE STREETLIGHTING CONDUITS AND BOXES, REFER TO STREETLIGHTING ELECTRICAL DRAWINGS IN OTHER BID PACKAGE.
 - OTHER BURIED UTILITIES IN COMMON TRENCH (I.E. GAS, CABLE-TV, ADDITIONAL VERIZON TELE) INSTALLED BY THE RESPECTIVE UTILITIES SHOWN FOR INFORMATION ONLY.

- PLAN NOTES**
- STUBOUT AND CAP PRIMARY CONDUIT(S) FOR FUTURE EXTENSION.
 - PROVIDE SCH 40 PVC CONDUITS FOR FUTURE PORTABLE CLASSROOM BUILDINGS AS FOLLOWS:
 (1)-4" (DATA/TELE)
 (1)-1" (C (FIRE ALARM))
 (1)-1" (C (SECURITY))
 (1)-2" (FACING/PROGRAM)
 CONDUITS TO BE STUBBED UP AND CAPPED 12" A.F.F. IN ROOM AS NOTED. VERIFY EXACT STUBUP LOCATION.
 - ALTERNATE #2: CONNECT MONUMENT SIGN. BASE BID: PROVIDE CONDUITS STUBBED OUT AND CAPPED FOR FUTURE.
 - STUBUP AND CAP CONDUITS INTO A HANDHOLE JUNCTION BOX PROVIDED FOR EACH SYSTEM AS CALLED OUT IN NOTE #2.
 - PROVIDE FLUSH MOUNTED CONCRETE FULL VAULT PER UTILITY REQ'TS. - #660 PGE NUMBER REFERS TO VAULT OF PGE 221. PROVIDE CONSTRUCTION DRAWINGS FOR CONSTRUCTION.
 - PROVIDE SCH 40 PVC CONDUITS FOR FUTURE PCC ADDITION AS FOLLOWS:
 (1)-4" (DATA/TELE)
 (1)-1" (C (FIRE ALARM))
 (1)-1" (C (SECURITY))
 (1)-2" (FACING/PROGRAM)
 CONDUITS TO BE STUBBED UP AND CAPPED 12" A.F.F. AT NORTH MALL OF ROOM MDF B118. VERIFY EXACT STUBUP LOCATION.
 - PROVIDE CONDUITS FOR SYSTEMS AS FOLLOWS:
 (2)-4" HDPE (VERIZON TELE)
 (2)-2" SCH40 PVC (FACING/PROGRAM)
 (2)-2" HDPE (SECURITY)
 (2)-2" HDPE (SECURITY) - These conduits were run from MDF B118 to the first vault at the service road.
 - VAULTS ASSOCIATED WITH THESE CONDUITS TO BE UTILITY VAULT CO #660 PGE. PROVIDE VAULT LID TO READ "CITY FIBER" IN ACCORDANCE WITH CITY OF SHERWOOD REQ'TS.
 - CONDUITS TO BE STUBBED UP IN MDF B118. COORDINATE WITH TECHNOLOGY "I" SERIES DRAWINGS FOR EXACT LOCATION.
 - STUBOUT AND CAP 4" SCH 40 PVC FOR FUTURE EXTENSION.
 - ALTERNATE #1: TENNIS COURT LIGHTING SYSTEM. INCLUDES EXTENSION OF UTILITY PRIMARY, TRANSFORMER PAD, UTILITY SECONDARY, SERVICE CABINET, BRANCH CIRCUITS, POLES AND LUMINAIRES. SEE SPECIFICATIONS.
 - PROVIDE CONDUIT FOR FIBER OPTIC CONNECTION TO READER BOARD PART OF SIGN, WITH FULL STRING. VERIFY STUBUP LOCATION IN BLDG. PER PGE 221. VERIFY STUBUP LOCATION WITH CIVIL ENGINEER.
 - TO DESIGNATED PANEL VIA LYS CONTROL PANEL AS NOTED, SEE DET. #1E2.2.
 - ALTERNATE #3: 1" SCH 40 PVC STUBOUT FOR WATER QUALITY MONITORING EQUIPMENT. VERIFY EXACT LOCATION WITH CIVIL ENGINEER.

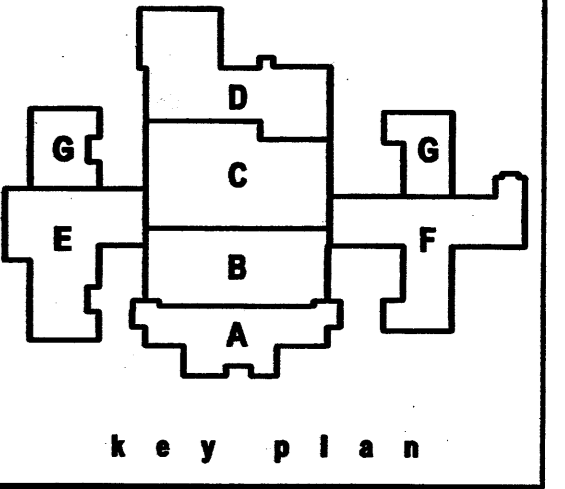
E1.1 ELECTRICAL SITE PLAN
 SCALE: 1" = 50'-0"

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MFA PANEL SCHEDULE 21-Sep-07

panel	4T	mounting		location		connected load amps		
		surface	125A MLO	bus & main	tennis courts	calculated load amps	28	
7	TRANSFORMER T-1	1000	15/3	1	2	20/1	SPARE	C
7		1000	3	3	4	20/1	SPARE	C
7		1000	5	5	6	20/1	SPARE	C
1	TENNIS COURT LTS - CIRCUIT	3400	30/3	7	8		BLANK	
1		3400	9	10			BLANK	
1	TENNIS COURT LTS - CIRCUIT	3400	11	12			BLANK	
1		3400	13	14			BLANK	
1		3400	15	16			BLANK	
1		3400	17	18			BLANK	
1		3400	19	20			BLANK	
1		3400	21	22			BLANK	
1		3400	23	24			BLANK	
1		3400	25	26			BLANK	
1		3400	27	28			BLANK	
1		3400	29	30			BLANK	
Phase A		7800 VA						
Phase B		7800 VA						
Phase C		7800 VA						
Total Connected		23400 VA						
load code:	ph. A	ph. B	ph. C	total factor	calculated load (va)			
1. LIGHTS	6800	6800	6800	20400	1.25		25500	
2. RECEPT	0	0	0	0	0.5		0	
3. HEATING	0	0	0	0	1.00		0	
4. KITCHEN	0	0	0	0	1.00		0	
5. EQUIP.	0	0	0	0	1.00		0	
6. MOTORS	0	0	0	0	1.00		0	
7. MISC	1000	1000	1000	3000	1.00		3000	
TOTAL							28500	



phase | Bid Package No. 2

date	January 3, 2008
ADD	October 17, 2007
ADD	October 26, 2007
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ADD	November 5, 2007

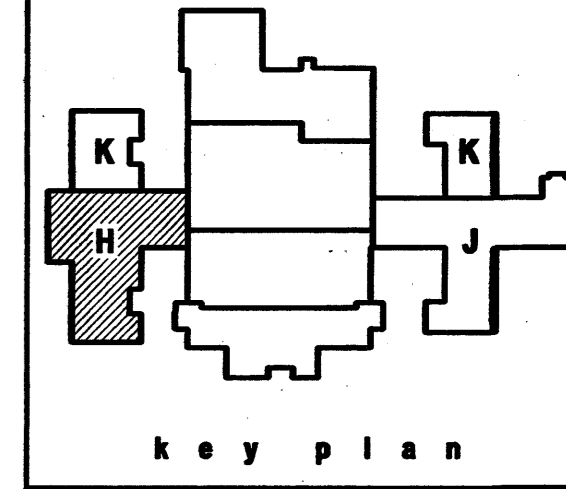
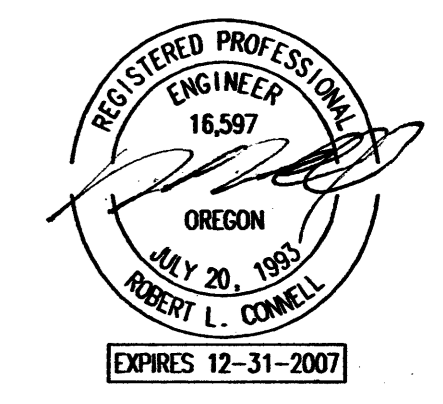
project# | 06022
Electrical Site Plan
Details

E1.2

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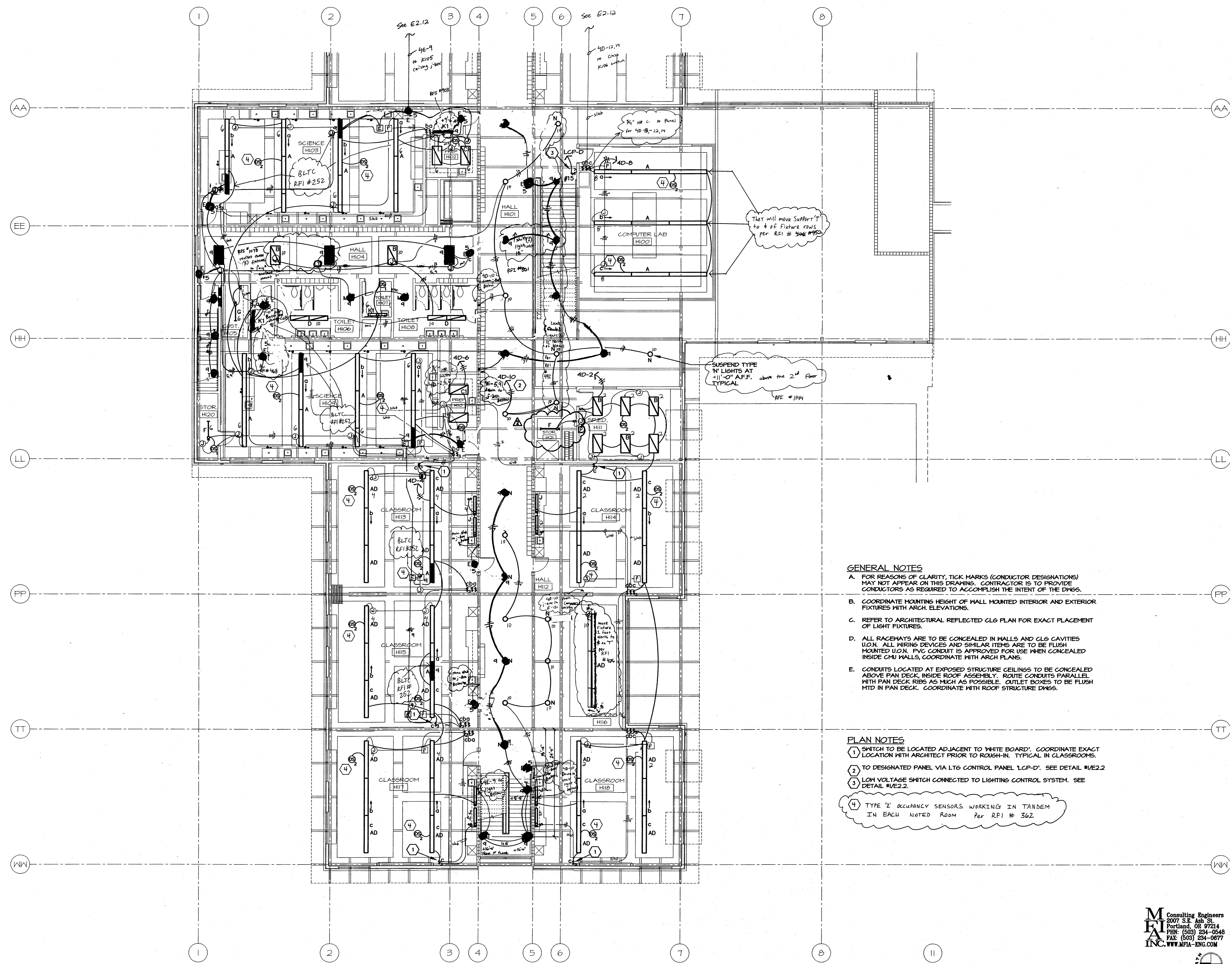
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Lighting Plan
Sector "H"

E2.10



- GENERAL NOTES**
- A. FOR REASONS OF CLARITY, TICK MARKS (CONDUCTOR DESIGNATIONS) MAY NOT APPEAR ON THIS DRAWING. CONTRACTOR IS TO PROVIDE CONDUCTORS AS REQUIRED TO ACCOMPLISH THE INTENT OF THE DWGS.
 - B. COORDINATE MOUNTING HEIGHT OF WALL MOUNTED INTERIOR AND EXTERIOR FIXTURES WITH ARCH. ELEVATIONS.
 - C. REFER TO ARCHITECTURAL REFLECTED CLG PLAN FOR EXACT PLACEMENT OF LIGHT FIXTURES.
 - D. ALL RACEWAYS ARE TO BE CONCEALED IN WALLS AND CLG CAVITIES U.O.N. ALL WIRING DEVICES AND SIMILAR ITEMS ARE TO BE FLUSH MOUNTED U.O.N. PVC CONDUIT IS APPROVED FOR USE WHEN CONCEALED INSIDE CMU WALLS, COORDINATE WITH ARCH PLANS.
 - E. CONDUITS LOCATED AT EXPOSED STRUCTURE CEILINGS TO BE CONCEALED ABOVE PAN DECK, INSIDE ROOF ASSEMBLY. ROUTE CONDUITS PARALLEL WITH PAN DECK RIBS AS MUCH AS POSSIBLE. OUTLET BOXES TO BE FLUSH MTD IN PAN DECK. COORDINATE WITH ROOF STRUCTURE DWGS.

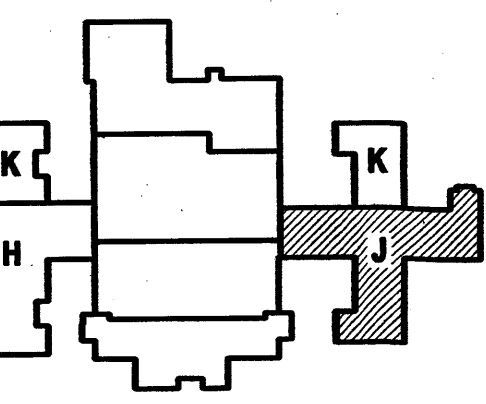
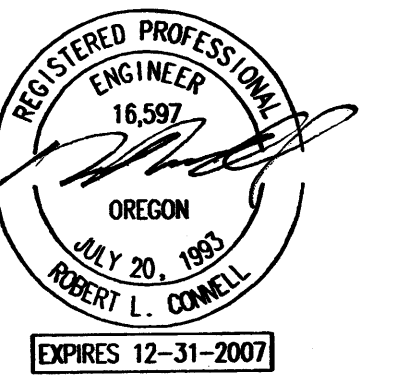
- PLAN NOTES**
- 1 SWITCH TO BE LOCATED ADJACENT TO 'WHITE BOARD'. COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN. TYPICAL IN CLASSROOMS.
 - 2 TO DESIGNATED PANEL VIA LTG CONTROL PANEL 'LCP-D'. SEE DETAIL #E2.2
 - 3 LOW VOLTAGE SWITCH CONNECTED TO LIGHTING CONTROL SYSTEM. SEE DETAIL #E2.2
 - 4 TYPE '2' OCCUPANCY SENSORS WORKING IN TANDEM IN EACH NOTED ROOM Per RFI # 362

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key plan

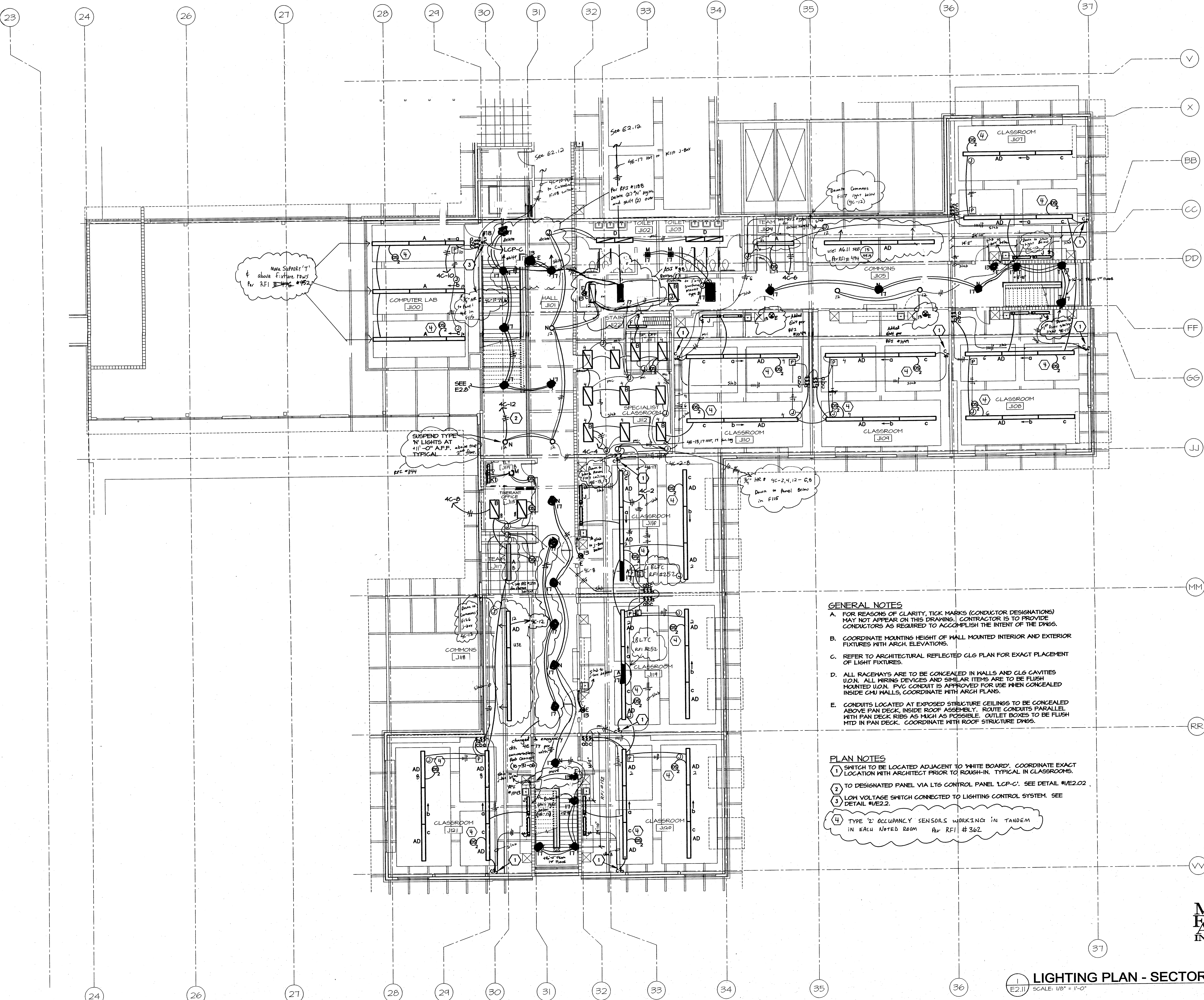
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date	January 3, 2008
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Lighting Plan
Sector "J"

E2.11



GENERAL NOTES

- A. FOR REASONS OF CLARITY, TICK MARKS (CONDUCTOR DESIGNATIONS) MAY NOT APPEAR ON THIS DRAWING. CONTRACTOR IS TO PROVIDE CONDUCTORS AS REQUIRED TO ACCOMPLISH THE INTENT OF THE DWGS.
- B. COORDINATE MOUNTING HEIGHT OF WALL MOUNTED INTERIOR AND EXTERIOR FIXTURES WITH ARCH. ELEVATIONS.
- C. REFER TO ARCHITECTURAL REFLECTED CLG PLAN FOR EXACT PLACEMENT OF LIGHT FIXTURES.
- D. ALL RACEWAYS ARE TO BE CONCEALED IN WALLS AND CLG CAVITIES U.O.N. ALL WIRING DEVICES AND SIMILAR ITEMS ARE TO BE FLUSH MOUNTED U.O.N. PVC CONDUIT IS APPROVED FOR USE WHEN CONCEALED INSIDE CMU WALLS, COORDINATE WITH ARCH PLANS.
- E. CONDUITS LOCATED AT EXPOSED STRUCTURE CEILING TO BE CONCEALED ABOVE PAN DECK, INSIDE ROOF ASSEMBLY. ROUTE CONDUITS PARALLEL WITH PAN DECK RIBS AS MUCH AS POSSIBLE. OUTLET BOXES TO BE FLUSH MTD IN PAN DECK. COORDINATE WITH ROOF STRUCTURE DWGS.

PLAN NOTES

- 1 SWITCH TO BE LOCATED ADJACENT TO 'WHITE BOARD'. COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN. TYPICAL IN CLASSROOMS.
- 2 TO DESIGNATED PANEL VIA LTG CONTROL PANEL LCP-C. SEE DETAIL #1/E2.02
- 3 LOW VOLTAGE SWITCH CONNECTED TO LIGHTING CONTROL SYSTEM. SEE DETAIL #1/E2.2.
- 4 TYPE "2" OCCUPANCY SENSORS WORKING IN TANDEM IN EACH NOTED ROOM PER RFI # 362.

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LIGHTING PLAN - SECTOR "J"

E2.11 SCALE: 1/8" = 1'-0"



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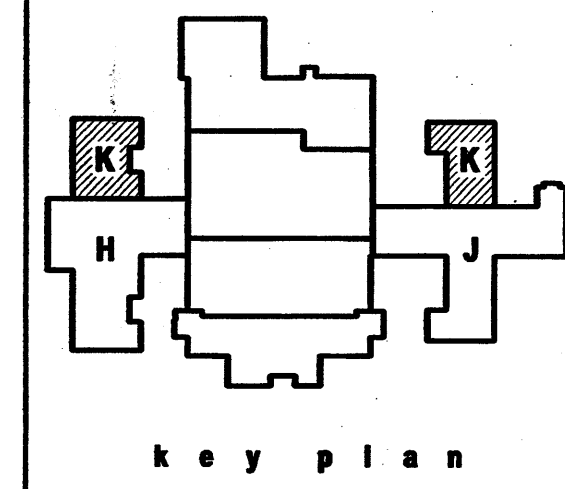
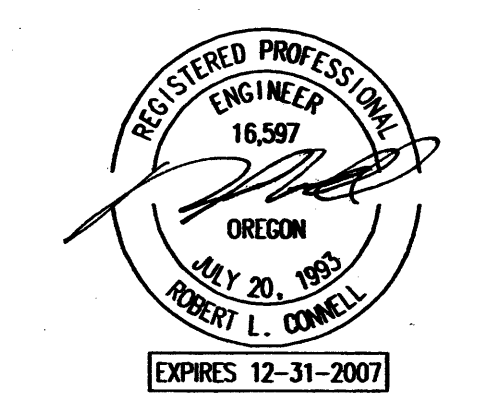
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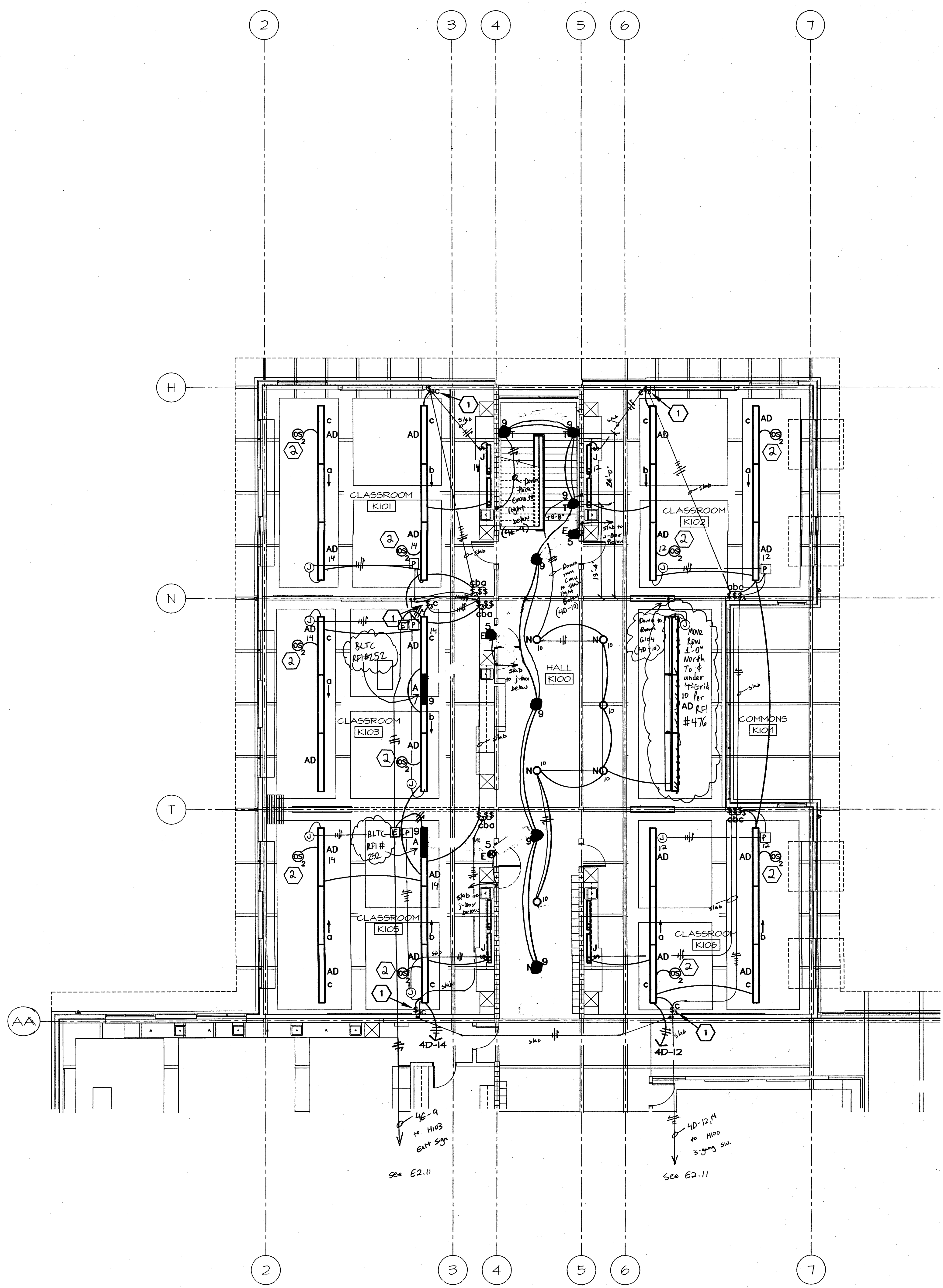


phase | Bid Package No. 2

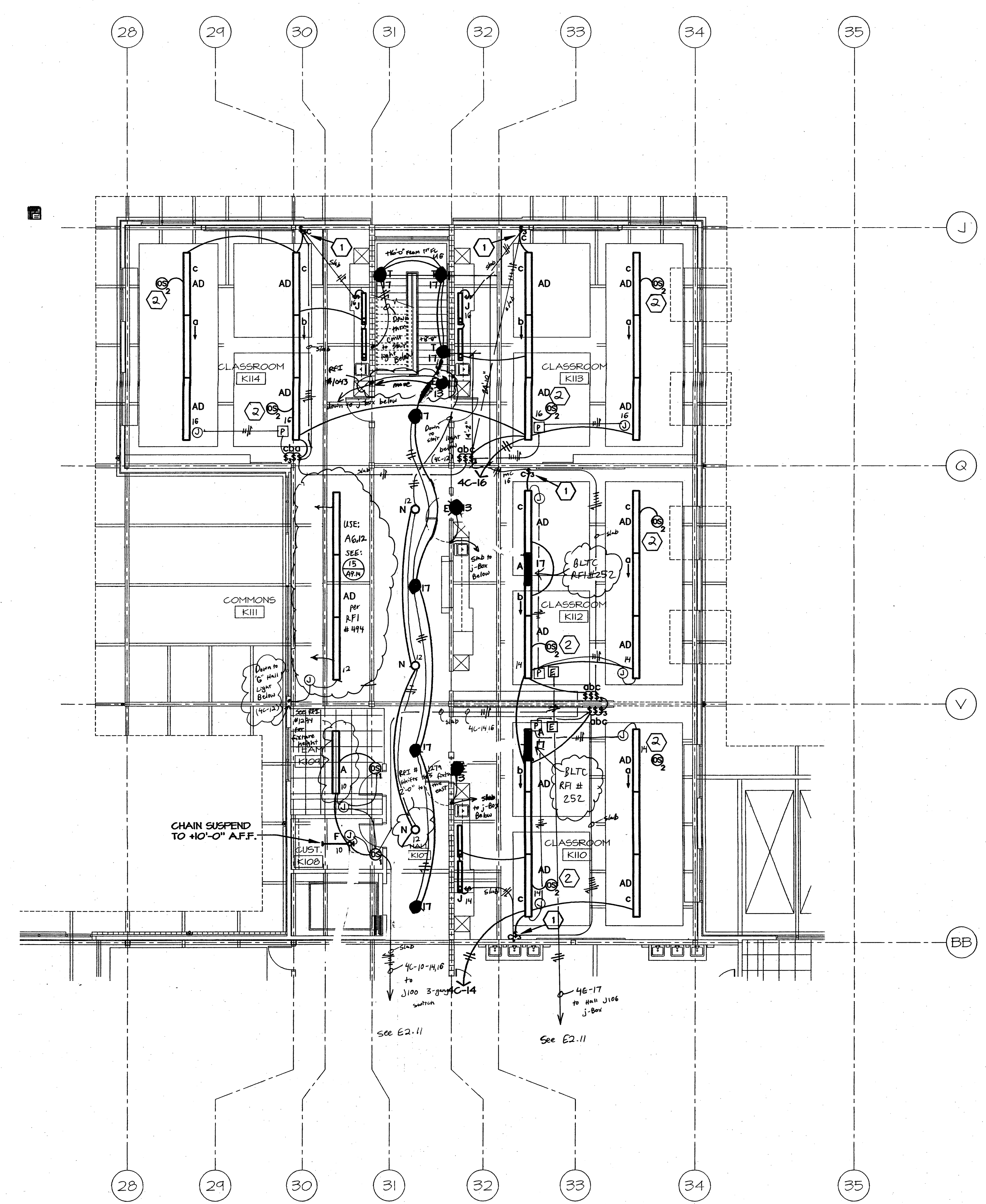
date	January 3, 2008
ADD	October 17, 2007
ADD	October 26, 2007
ADD	November 2, 2007
ADD	November 5, 2007

project # | 06022

Lighting Plan
Sector "K"
E2.12



E2.12 LIGHTING PLAN SECTOR 'K' - MS SIDE
SCALE: 1/8" = 1'-0"



E2.12 LIGHTING PLAN - SECTOR 'K' - ES SIDE
SCALE: 1/8" = 1'-0"

GENERAL NOTES

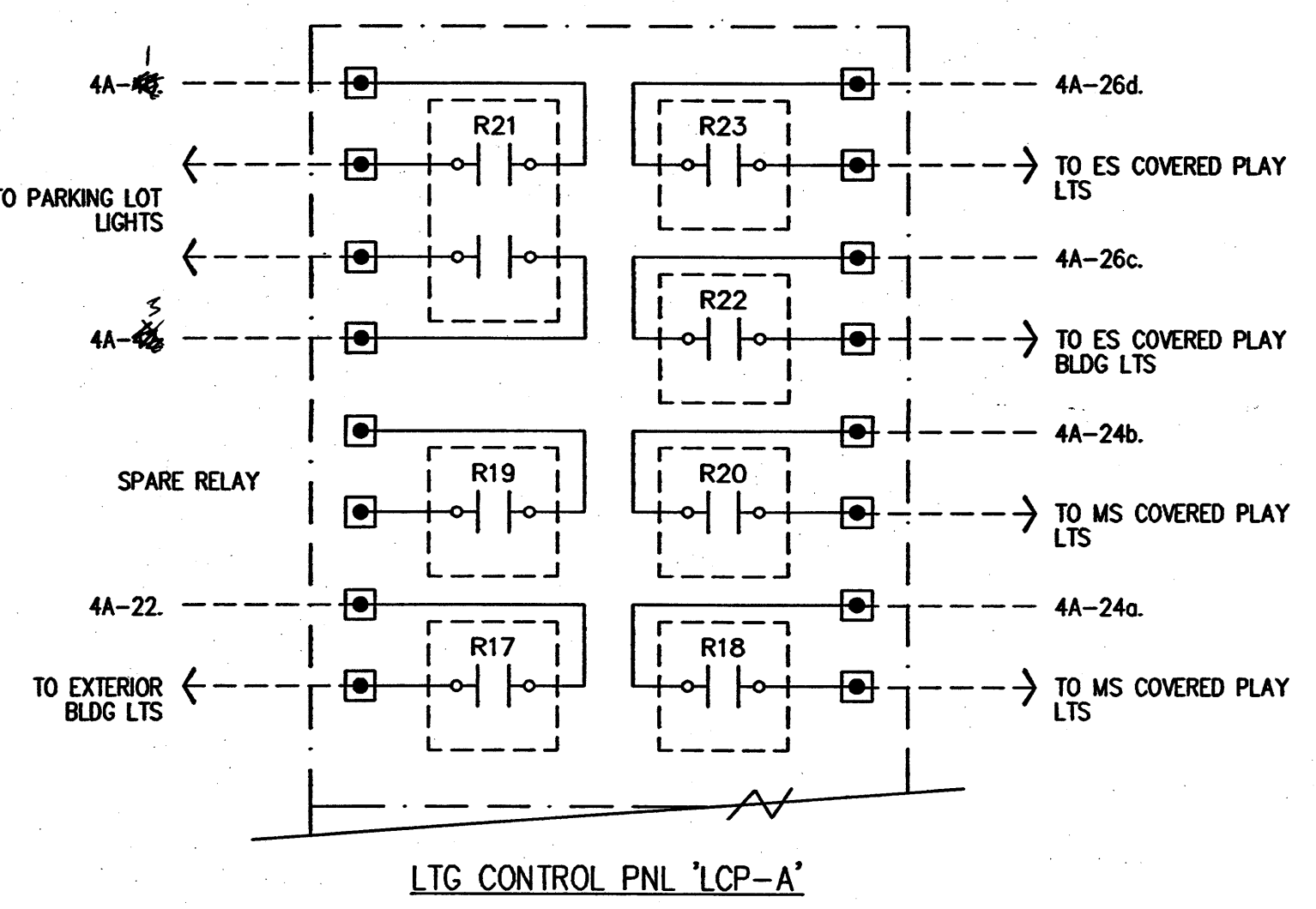
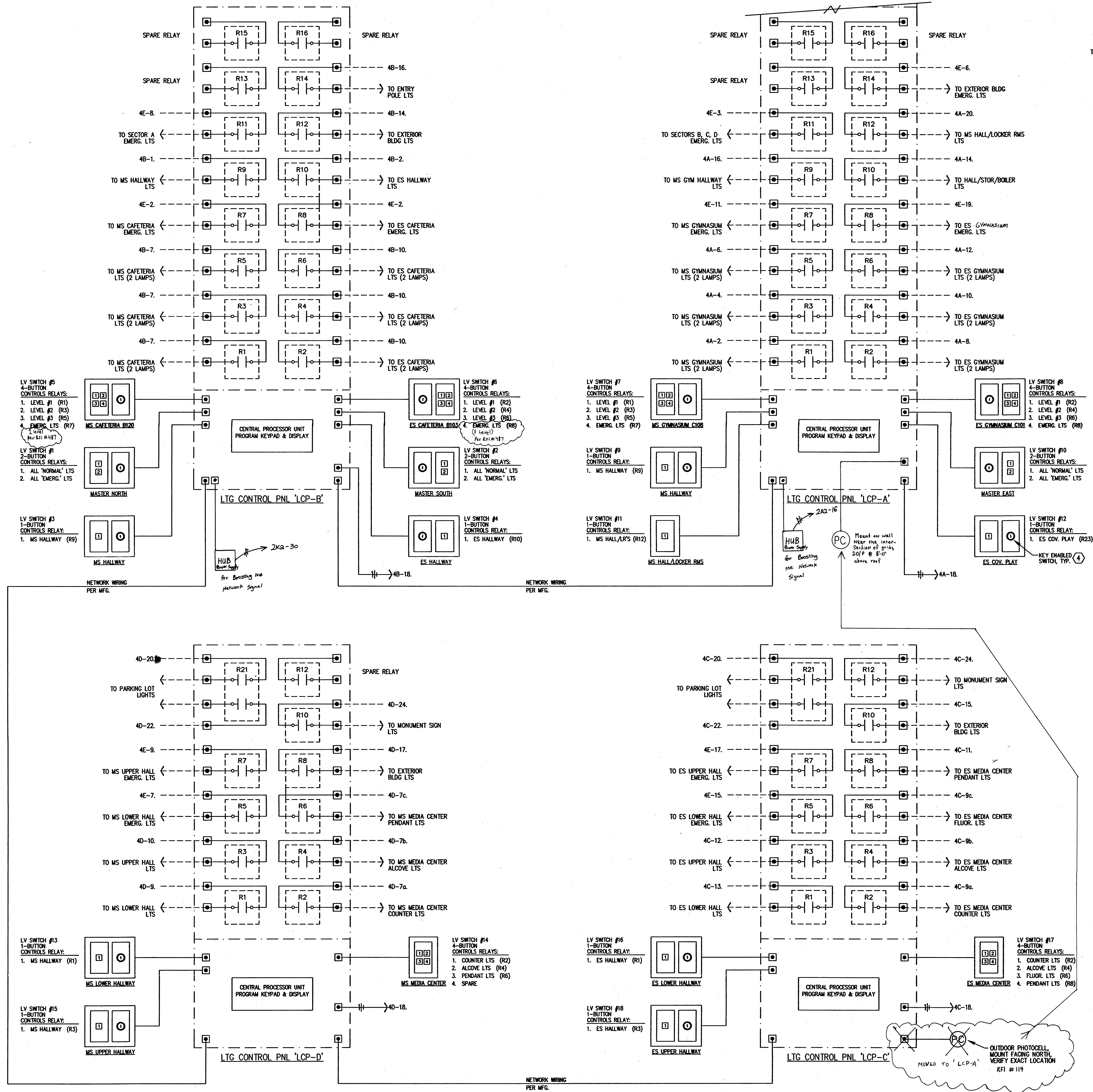
- A. FOR REASONS OF CLARITY, TICK MARKS (CONDUCTOR DESIGNATIONS) MAY NOT APPEAR ON THIS DRAWING. CONTRACTOR IS TO PROVIDE CONDUCTORS AS REQUIRED TO ACCOMPLISH THE INTENT OF THE DWGS.
- B. COORDINATE MOUNTING HEIGHT OF WALL MOUNTED INTERIOR AND EXTERIOR FIXTURES WITH ARCH. ELEVATIONS.
- C. REFER TO ARCHITECTURAL REFLECTED CLG PLAN FOR EXACT PLACEMENT OF LIGHT FIXTURES.
- D. ALL RACEWAYS ARE TO BE CONCEALED IN HALLS AND CLG CAVITIES U.O.N. ALL WIRING DEVICES AND SIMILAR ITEMS ARE TO BE FLUSH MOUNTED U.O.N. PVC CONDUIT IS APPROVED FOR USE WHEN CONCEALED INSIDE CMU WALLS, COORDINATE WITH ARCH PLANS.
- E. CONDUITS LOCATED AT EXPOSED STRUCTURE CEILINGS TO BE CONCEALED ABOVE PAN DECK, INSIDE ROOF ASSEMBLY. ROUTE CONDUITS PARALLEL WITH PAN DECK RIBS AS MUCH AS POSSIBLE. OUTLET BOXES TO BE FLUSH MTD IN PAN DECK. COORDINATE WITH ROOF STRUCTURE DWGS.

PLAN NOTES

- 1 SWITCH TO BE LOCATED ADJACENT TO 'WHITE BOARD'. COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN. TYPICAL IN CLASSROOMS.
- 2 TYPE '2' OCCUPANCY SENSORS WORKING IN TANDEM IN EACH NOTED ROOM. Per RFI # 362.

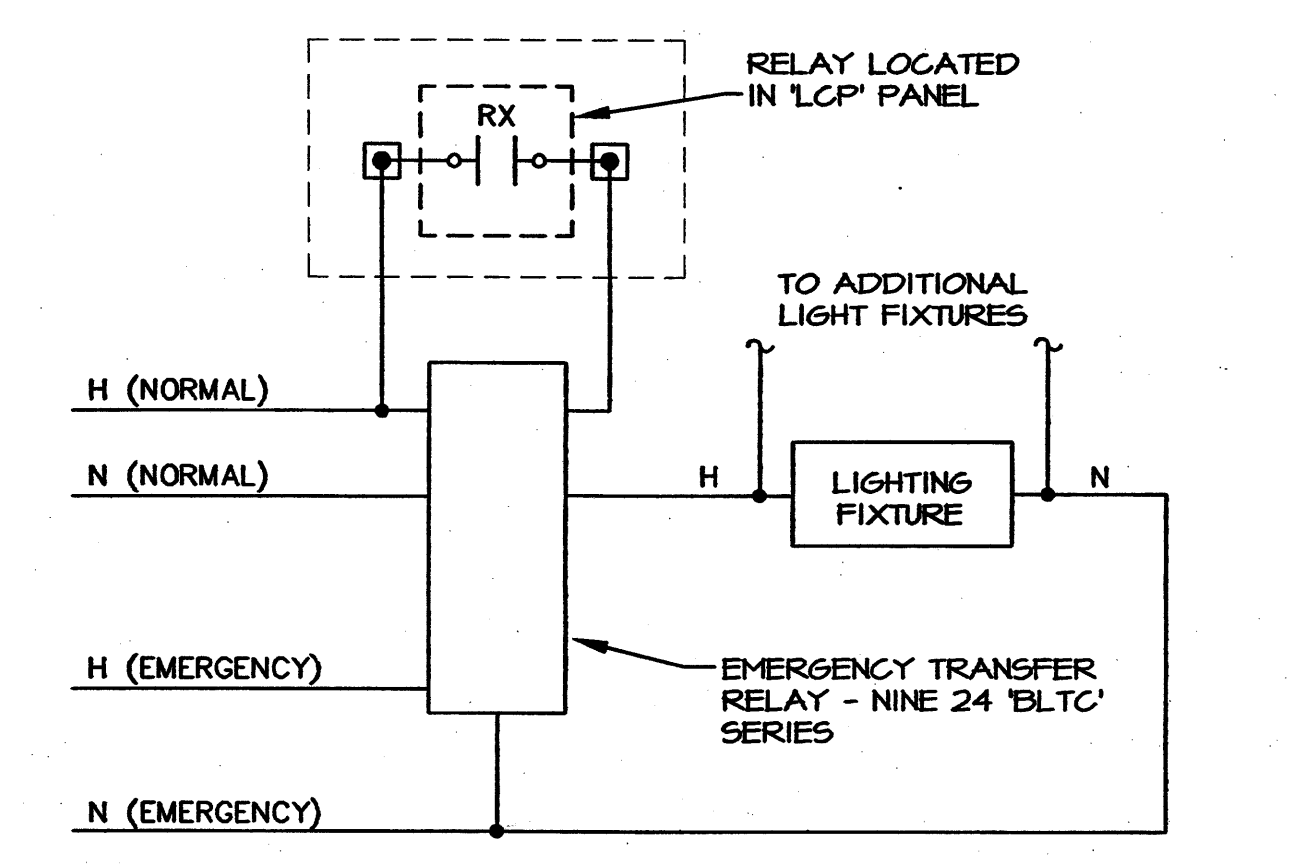
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- LIGHTING CONTROL SCHEMATIC NOTES**
1. PROVIDE LOW VOLTAGE CABLING AS REQUIRED BY MFG.
 2. LOW VOLTAGE SWITCHES TO BE FACTORY ENGRAVED. VERIFY EXACT LABELING WITH OWNER.
 3. SWITCH AND COVERPLATE COLOR BY ARCHITECT.
 4. KEYLOCKS TO BE AS FOLLOWS. ELECTROMECHANICAL SWITCHLOCK. SPDT WITH CONTACT RATINGS AS REQUIRED. APPROVED MFG IS 'BEST ACCESS SYSTEMS'. VERIFY PART NUMBER WITH OWNER. LOCKS TO BE KEYPED PER OWNER.

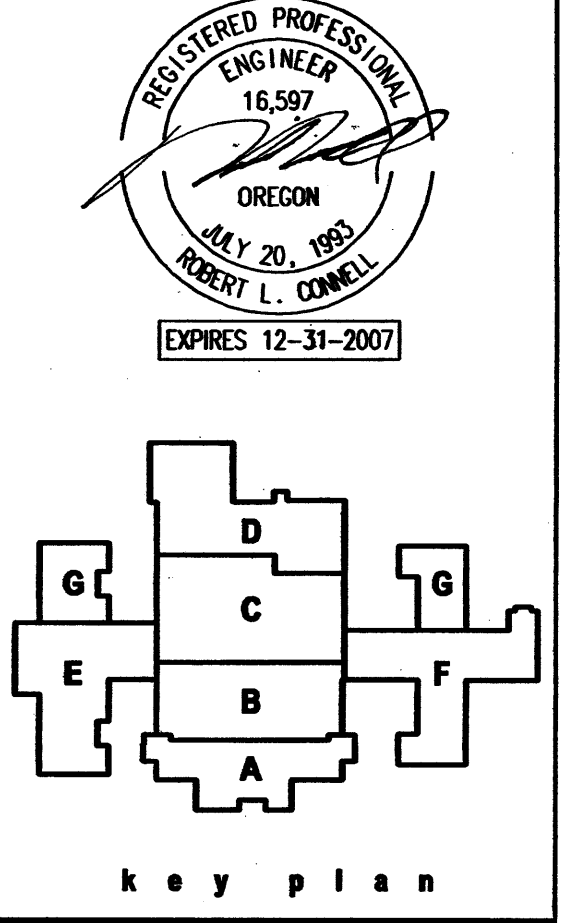
see RFI # 791 on L.V. switches



EMERGENCY TRANSFER RELAY

Note: classroom emergency fixtures off of corridor etc. will need BLTC to turn on w/ classroom Regular lights. Ref: RFI# 252, 670

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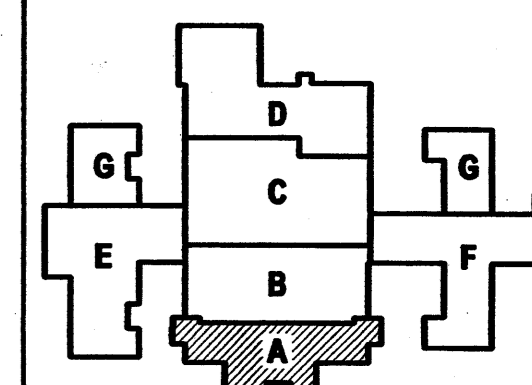
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Lighting Details

E2.2

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LIGHTING CONTROL SCHEMATIC

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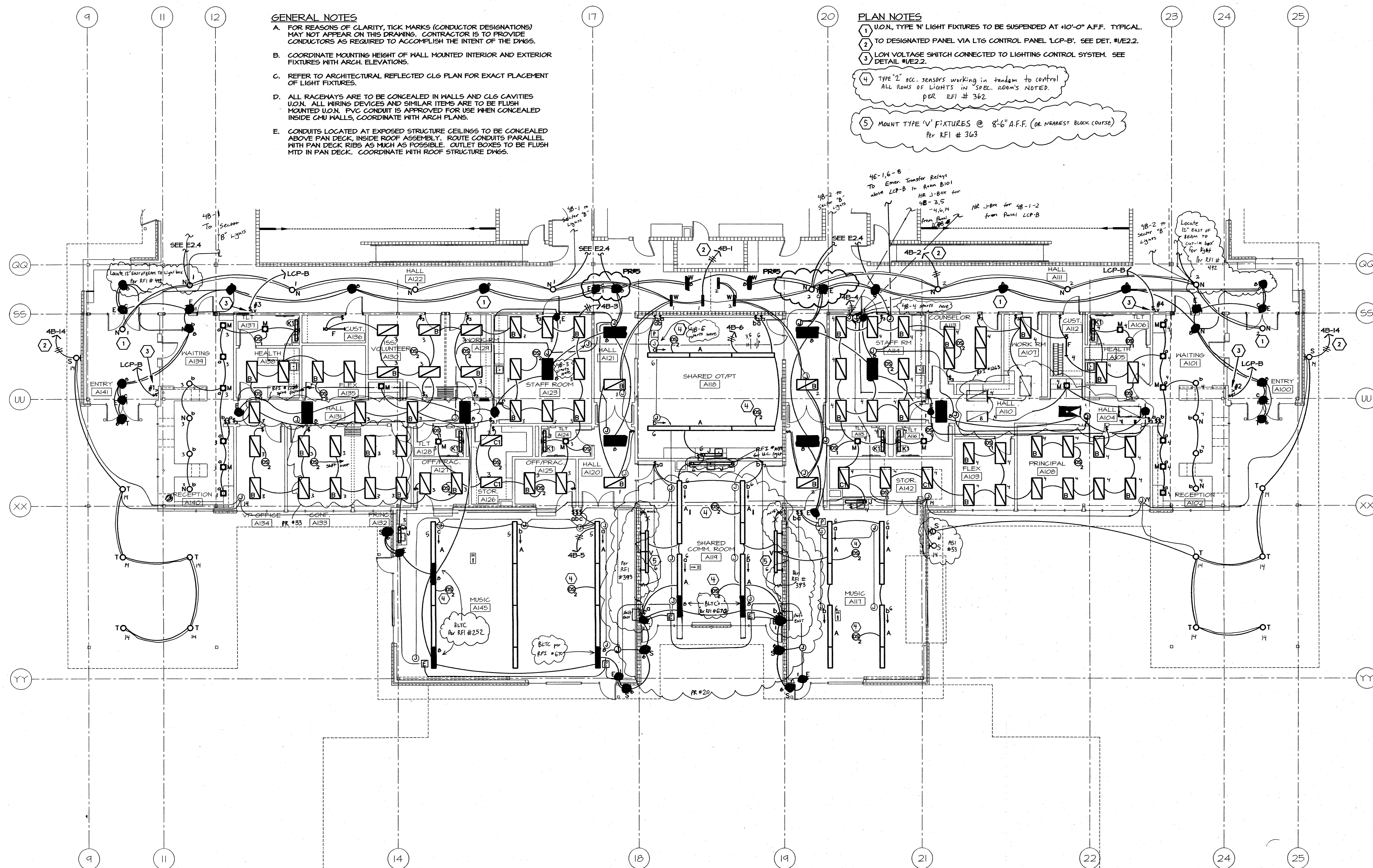
key plan

phase | Bid Package No. 2

date	January 3, 2008
ADD	October 17, 2007
ADD	October 26, 2007
ADD	November 2, 2007
ADD	November 5, 2007

project # | 06022

 Lighting Plan
Sector "A"

E2.3

GENERAL NOTES

- FOR REASONS OF CLARITY, TICK MARKS (CONDUCTOR DESIGNATIONS) MAY NOT APPEAR ON THIS DRAWING. CONTRACTOR IS TO PROVIDE CONDUCTORS AS REQUIRED TO ACCOMPLISH THE INTENT OF THE DWGS.
- COORDINATE MOUNTING HEIGHT OF HALL MOUNTED INTERIOR AND EXTERIOR FIXTURES WITH ARCH. ELEVATIONS.
- REFER TO ARCHITECTURAL REFLECTED CLG PLAN FOR EXACT PLACEMENT OF LIGHT FIXTURES.
- ALL RACEMAYS ARE TO BE CONCEALED IN WALLS AND CLG CAVITIES UO.N. ALL WIRING DEVICES AND SIMILAR ITEMS ARE TO BE FLUSH MOUNTED U.O.N. PVC CONDUIT IS APPROVED FOR USE WHEN CONCEALED INSIDE CMU WALLS, COORDINATE WITH ARCH PLANS.
- CONDUITS LOCATED AT EXPOSED STRUCTURE CEILINGS TO BE CONCEALED ABOVE PAN DECK, INSIDE ROOF ASSEMBLY. ROUTE CONDUITS PARALLEL WITH PAN DECK RIBS AS MUCH AS POSSIBLE. OUTLET BOXES TO BE FLUSH MTD IN PAN DECK. COORDINATE WITH ROOF STRUCTURE DWGS.

PLAN NOTES

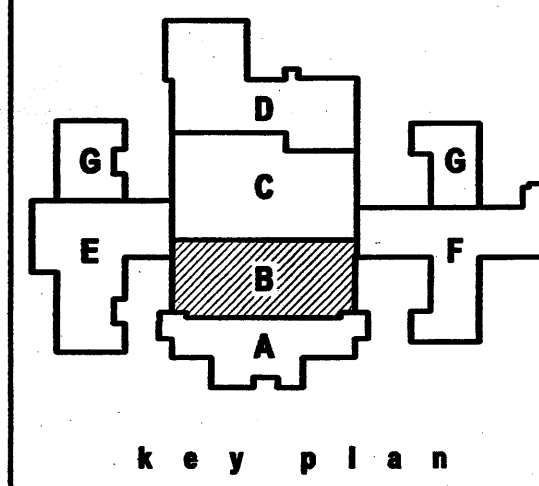
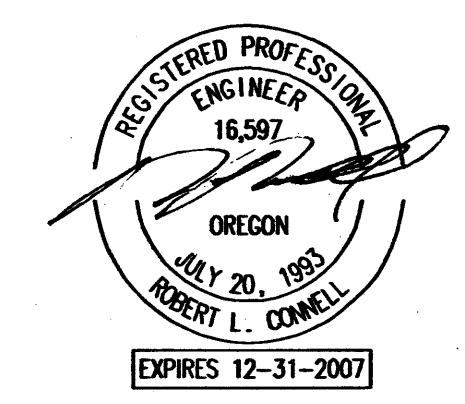
- U.O.N. TYPE 'N' LIGHT FIXTURES TO BE SUSPENDED AT 10'-0" A.F.F. TYPICAL.
- TO DESIGNATED PANEL VIA LTG CONTROL PANEL 'LCP-B'. SEE DET. #1/E2.2.
- LOW VOLTAGE SWITCH CONNECTED TO LIGHTING CONTROL SYSTEM. SEE DETAIL #1/E2.2.
- TYPE 'Z' OCC. SENSORS WORKING IN TANDUM TO CONTROL ALL ROWS OF LIGHTS IN SPEC. ROOMS NOTED. PER RFI # 362.
- MOUNT TYPE 'V' FIXTURES @ 8'-6" A.F.F. (OR NEAREST BLACK COURSE) PER RFI # 363.

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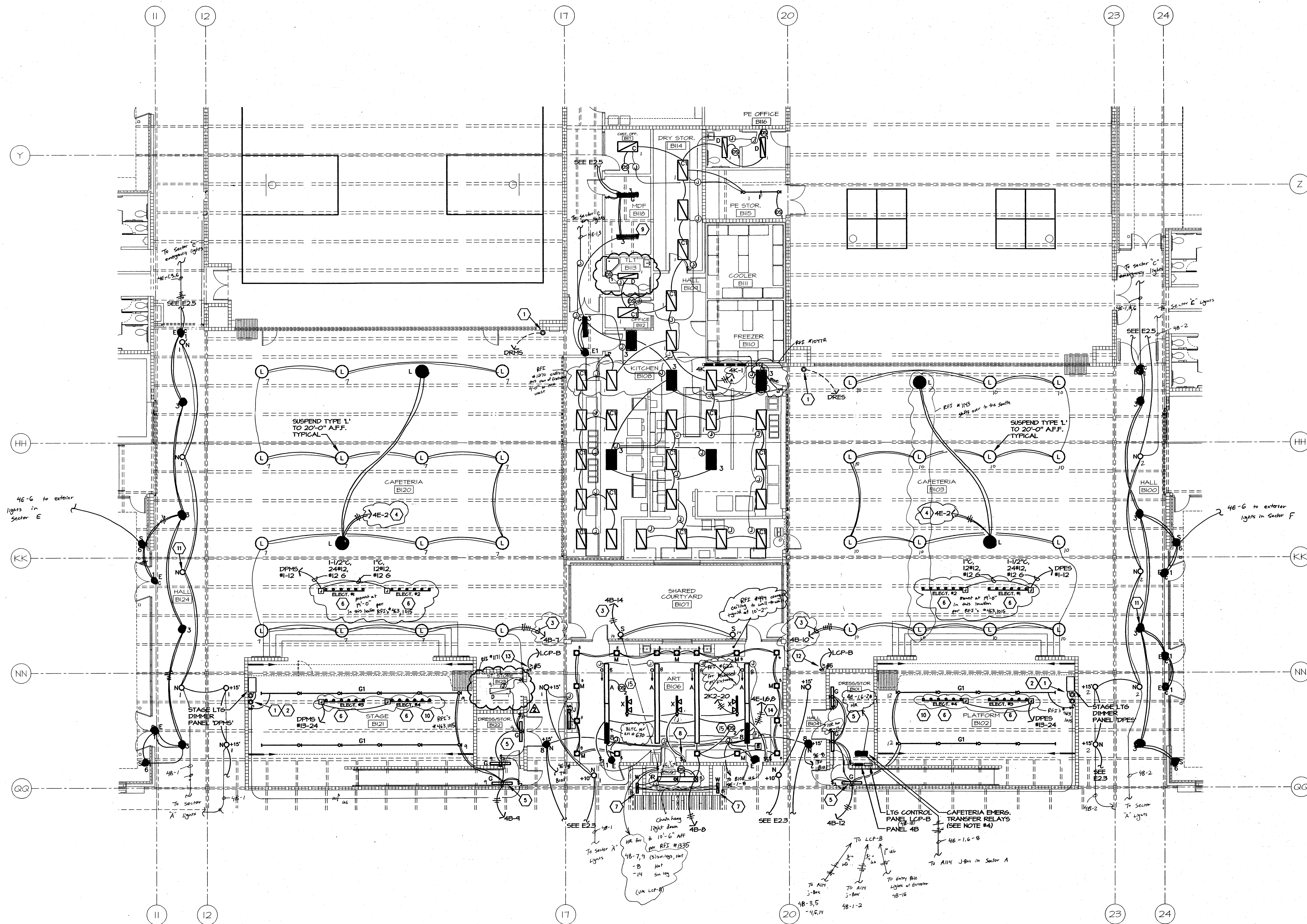


phase | Bid Package No. 2

date	January 3, 2008
ADD	October 17, 2007
ADD	October 26, 2007
ADD	November 2, 2007
ADD	November 5, 2007

project # | 06022
Lighting Plan
Sector "B"

E2.4



GENERAL NOTES

- A. FOR REASONS OF CLARITY, TICK MARKS (CONDUCTOR DESIGNATIONS) MAY NOT APPEAR ON THIS DRAWING. CONTRACTOR IS TO PROVIDE CONDUCTORS AS REQUIRED TO ACCOMPLISH THE INTENT OF THE DWGS.
- B. COORDINATE MOUNTING HEIGHT OF WALL MOUNTED INTERIOR AND EXTERIOR FIXTURES WITH ARCH. ELEVATIONS.
- C. REFER TO ARCHITECTURAL REFLECTED CLG PLAN FOR EXACT PLACEMENT OF LIGHT FIXTURES.
- D. ALL RACEWAYS ARE TO BE CONCEALED IN WALLS AND CLG CAVITIES U.O.N. ALL WIRING DEVICES AND SIMILAR ITEMS ARE TO BE FLUSH MOUNTED U.O.N. PVC CONDUIT IS APPROVED FOR USE WHEN CONCEALED INSIDE CMU WALLS. COORDINATE WITH ARCH. PLANS.
- E. CONDUITS LOCATED AT EXPOSED STRUCTURE CEILINGS TO BE CONCEALED ABOVE FAN DECK, INSIDE ROOF ASSEMBLY. ROUTE CONDUITS PARALLEL WITH FAN DECK RIBS AS MUCH AS POSSIBLE. OUTLET BOXES TO BE FLUSH MTD IN FAN DECK. COORDINATE WITH ROOF STRUCTURE DWGS.

PLAN NOTES

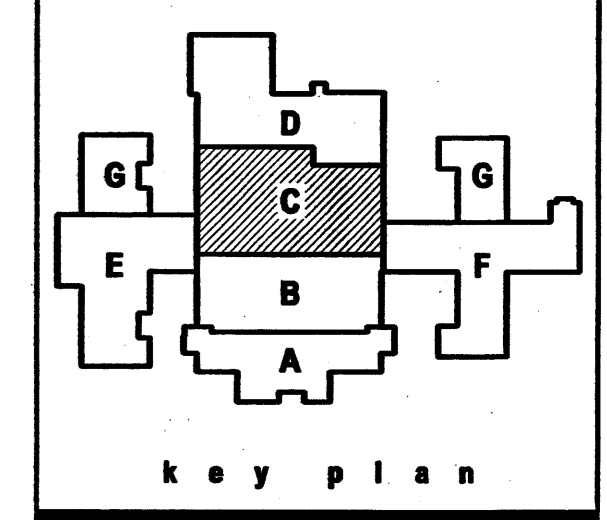
- 1 THEATRICAL LIGHTING 'DMX' RECEPTACLE. SEE DETAIL #E2.2.
- 2 THEATRICAL LIGHTING 'CONTROL STATION'. SEE DETAIL #E2.2.
- 3 TO DESIGNATED PANEL VIA LGS CONTROL PANEL 'LCP-B'. SEE DET. #E2.2.
- 4 CONNECT TO CIRCUIT AT EMERGENCY PANEL '4E' AS INDICATED. CIRCUIT IS ROUTED THROUGH AN EMERGENCY TRANSFER RELAY (SEE DETAIL #E2.2), AND 'LCP-B' (SEE DETAIL #E2.2).
- 5 TYPE '6' FIXTURE(S) IN THIS ROOM TO BE WALL MOUNTED AT +10'-0".
- 6 THEATRICAL LIGHTING ELECTRIC. SEE SPECIFICATIONS. PROVIDE MTS BRACKETS FOR EACH ELECTRIC. MOUNTING BRACKETS SUPPORT BOTH THE ELECTRIC AND THE FIXTURE PIPE - ETC TYPE '21' OR APPROVED. FIXTURE PIPE BY ARCHITECT. RFI # 463.
- 7 FIXTURE IS FLUSH MOUNTED INSIDE DISPLAY CASE. COORDINATE WITH ARCH.
- 8 PROVIDE 1000M, SLIDE-TO-OFF, SINGLE POLE INCANDESCENT DIMMER SWITCH. LUTRON NOVA #N-1000-COLOR BY ARCHITECT.
- 9 LIGHT FIXTURES IN THIS ROOM TO BE CHAIN SUSPENDED TO +10'-0" A.F.F.
- 10 TYPE '61' LIGHT FIXTURES AT STAGE/PLATFORM TO BE CHAIN SUSPENDED TO +20'-0" A.F.F.
- 11 U.O.N. TYPE 'N' LIGHT FIXTURES TO BE SUSPENDED AT +10'-0" A.F.F. TYPICAL.
- 12 KEY ENABLED LOW VOLTAGE SWITCHES FOR CONTROL OF CAFETERIA B103 LIGHTING. SEE DETAIL #E2.2.
- 13 KEY ENABLED LOW VOLTAGE SWITCHES FOR CONTROL OF CAFETERIA B120 LIGHTING. SEE DETAIL #E2.2.
- 14 CONNECT TO CIRCUITS AT EMERGENCY PANEL '4E' AS INDICATED. CIRCUIT '1' SERVES EXIT LIGHTS AND IS SWITCHED AT PANEL '4E'. CIRCUIT '11' SERVES INTERIOR EMERGENCY LIGHTS AND IS ROUTED THROUGH 'LCP-B'. (SEE DETAIL #E2.2). CIRCUIT '6' SERVES EXTERIOR EMERGENCY LIGHTS AND IS ROUTED THROUGH 'LCP-A' (SEE DETAIL #E2.2).
- 15 TYPE '2' occ. sensors working in tandem to control all Rows in Hotel Rooms. Per RFI # 362.

LIGHTING PLAN - SECTOR "B"
SCALE: 1/8" = 1'-0"

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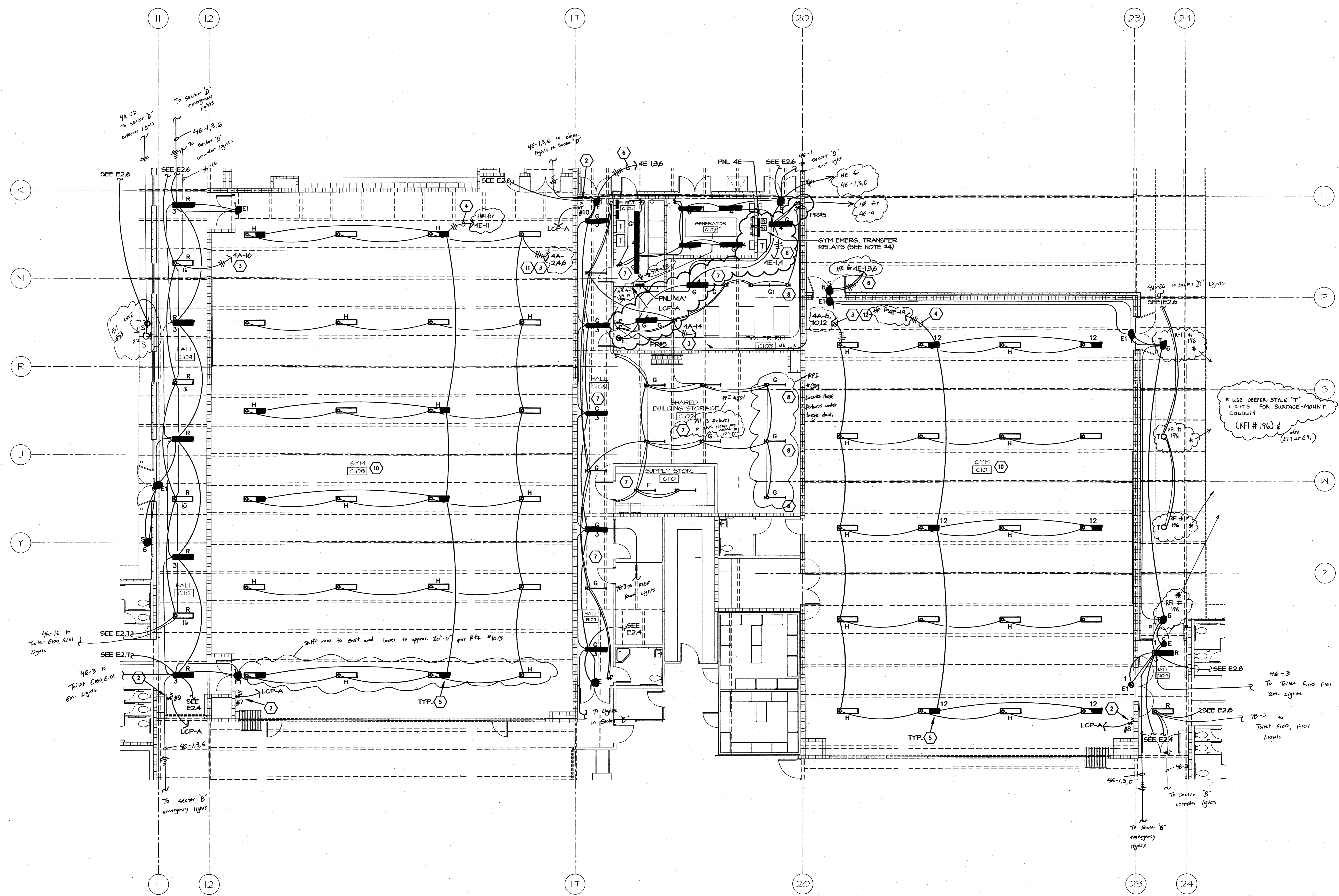


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date	January 3, 2008
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project # | 06022
Lighting Plan
Sector "C"

E2.5



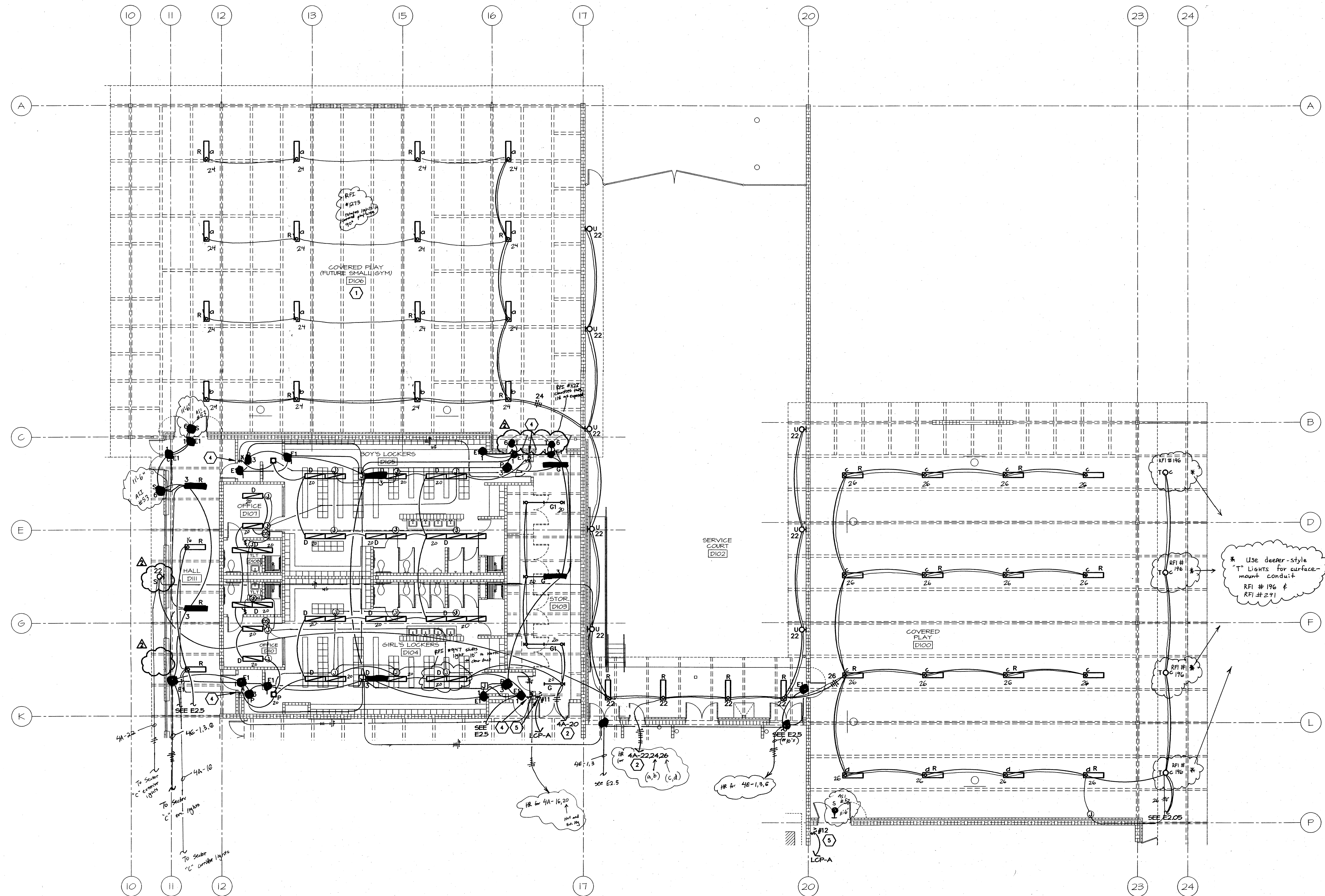
- GENERAL NOTES**
- FOR REASONS OF CLARITY, TICK MARKS (CONDUCTOR DESIGNATIONS) MAY NOT APPEAR ON THIS DRAWING. CONTRACTOR IS TO PROVIDE CONDUCTORS AS REQUIRED TO ACCOMPLISH THE INTENT OF THE DWGS.
 - COORDINATE MOUNTING HEIGHT OF WALL MOUNTED INTERIOR AND EXTERIOR FIXTURES WITH ARCH. ELEVATIONS.
 - REFER TO ARCHITECTURAL REFLECTED CLG PLAN FOR EXACT PLACEMENT OF LIGHT FIXTURES.
 - ALL RACENATS ARE TO BE CONCEALED IN WALLS AND CLG CAVITIES U.O.N. ALL WIRING DEVICES AND SIMILAR ITEMS ARE TO BE FLUSH MOUNTED U.O.N. PVC CONDUIT IS APPROVED FOR USE WHEN CONCEALED INSIDE GYM WALLS, COORDINATE WITH ARCH PLANS.
 - CONDUITS LOCATED AT EXPOSED STRUCTURE CEILING TO BE CONCEALED ABOVE PAN DECK, INSIDE ROOF ASSEMBLY. ROUTE CONDUITS PARALLEL WITH PAN DECK RIBS AS MUCH AS POSSIBLE. OUTLET BOXES TO BE FLUSH MTD IN PAN DECK. COORDINATE WITH ROOF STRUCTURE DWGS.

- PLAN NOTES**
- NOT USED.
 - LOW VOLTAGE SWITCH CONNECTED TO LIGHTING CONTROL SYSTEM. SEE DETAIL #1/E2.2.
 - TO DESIGNATED PANEL VIA LTG CONTROL PANEL 'LCP-A'. SEE DET. #1/E2.2.
 - CONNECT TO CIRCUIT AT EMERGENCY PANEL '4E' AS INDICATED. CIRCUIT IS ROUTED THROUGH AN EMERGENCY TRANSFER RELAY (SEE DETAIL #2/E2.2) AND 'LCP-A' (SEE DETAIL #1/E2.2).
 - THO LAMPS ONLY ARE CONNECTED TO THE EMERGENCY CIRCUIT. OTHER LAMPS ARE CONNECTED TO THE NORMAL SOURCE.
 - CONNECT TO CIRCUITS AT EMERGENCY PANEL '4E' AS INDICATED. CIRCUIT '1' SERVES EXIT LIGHTS AND IS SWITCHED AT PANEL '4E'. CIRCUIT '3' SERVES INTERIOR EMERGENCY LIGHTS AND IS ROUTED THROUGH 'LCP-A' (SEE DETAIL #1/E2.2). CIRCUIT '5' SERVES EXTERIOR EMERGENCY LIGHTS AND IS ROUTED THROUGH 'LCP-A' (SEE DETAIL #1/E2.2).
 - U.O.N. LIGHT FIXTURES IN THIS ROOM TO BE CHAIN SUSPENDED TO 32'-0" A.F.F.
 - LIGHT FIXTURES ARE SURFACE MOUNTED AT GYPBOARD FIRE RATED CEILING.
 - NOT USED.

- TYPE 'H' LIGHT FIXTURES IN GYMNASIUM TO BE CHAIN SUSPENDED TO BOTTOM OF BEAMS, APPROX. +23'-0" A.F.F.
- EACH TYPE 'H' FIXTURE IS SERVED BY THREE NORMAL CIRCUITS: UPLIGHT LAMP 4A-2, (2) DNLT LAMPS 4A-4, (2) DNLT LAMPS 4A-6.
- EACH TYPE 'H' FIXTURE IS SERVED BY THREE NORMAL CIRCUITS: UPLIGHT LAMP 4A-8, (2) DNLT LAMPS 4A-10, (2) DNLT LAMPS 4A-12.

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1 LIGHTING PLAN - SECTOR "C"
E2.5 SCALE: 1/8" = 1'-0"



GENERAL NOTES

- A. FOR REASONS OF CLARITY, TICK MARKS (CONDUCTOR DESIGNATIONS) MAY NOT APPEAR ON THIS DRAWING. CONTRACTOR IS TO PROVIDE CONDUCTORS AS REQUIRED TO ACCOMPLISH THE INTENT OF THE DWGS.
- B. COORDINATE MOUNTING HEIGHT OF HALL MOUNTED INTERIOR AND EXTERIOR FIXTURES WITH ARCH. ELEVATIONS.
- C. REFER TO ARCHITECTURAL REFLECTED CL6 PLAN FOR EXACT PLACEMENT OF LIGHT FIXTURES.
- D. ALL RACEWAYS ARE TO BE CONCEALED IN WALLS AND CL6 CAVITIES U.O.N. ALL WIRING DEVICES AND SIMILAR ITEMS ARE TO BE FLUSH MOUNTED U.O.N. PVC CONDUIT IS APPROVED FOR USE WHEN CONCEALED INSIDE CMU WALLS, COORDINATE WITH ARCH PLANS.
- E. CONDUITS LOCATED AT EXPOSED STRUCTURE CEILINGS TO BE CONCEALED ABOVE PAN DECK, INSIDE ROOF ASSEMBLY. ROUTE CONDUITS PARALLEL WITH PAN DECK RIBS AS MUCH AS POSSIBLE. OUTLET BOXES TO BE FLUSH MTD IN PAN DECK. COORDINATE WITH ROOF STRUCTURE DWGS.

PLAN NOTES

- 1 ALTERNATE #5; LIGHTING IN COVERED PLAY D112. SEE SPECIFICATIONS.
- 2 TO DESIGNATED PANEL VIA LTG CONTROL PANEL 'LCP-A'. SEE DET. #1/E2.02.
- 3 CONNECT TO CIRCUITS AT EMERG. PANEL '4E' AS INDICATED. CIRCUIT '3' SERVES EXTERIOR EMERG. LIGHTS AND ARE ROUTED THROUGH 'LCP-E' (SEE DETAIL #1/E2.02). CIRCUIT '1' SERVES EXIT LIGHTS AND CIRCUIT '11' SERVES INTERIOR EMERGENCY LIGHTS AND ARE SWITCHED AT PANEL '4E'.
- 4 PROVIDE ELECTROMECHANICAL SWITCHLOCK AT THIS LOCATION, S.P.D.T. WITH CONTACT RATINGS AS REQUIRED. APPROVED MFG. BEST ACCESS SYSTEMS. VERIFY PART NUMBER WITH OWNER. LOCK TO BE KEYPED PER OWNER.
- 5 LOW VOLTAGE SWITCH CONNECTED TO LIGHTING CONTROL SYSTEM. SEE DETAIL #1/E2.2.

Use standard locking switches as noted in e-mail response to RFI #1164 from Turner on 3-15-07

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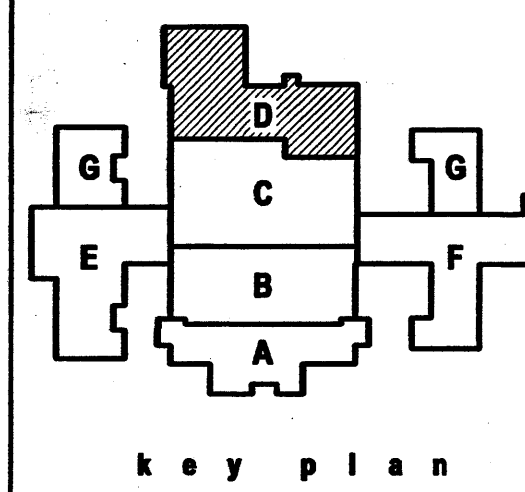
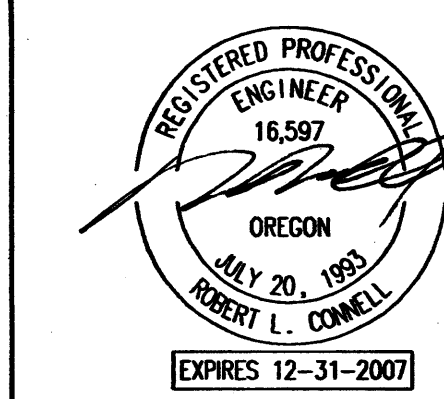
1 LIGHTING PLAN - SECTOR "D"
 E2.6 SCALE: 1/8" = 1'-0"



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date	January 3, 2008
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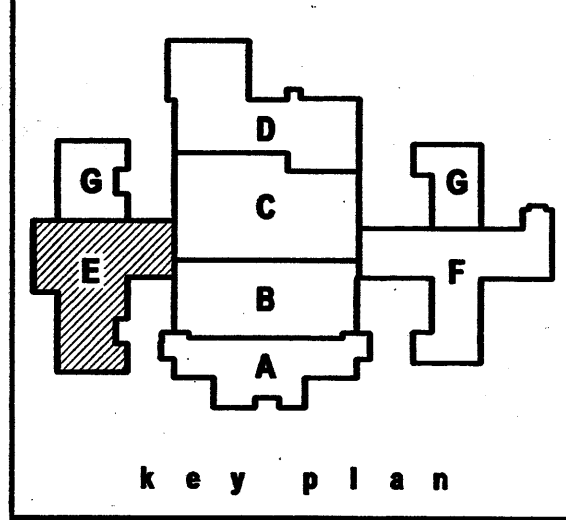
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Lighting Plan
 Sector "D"

E2.6

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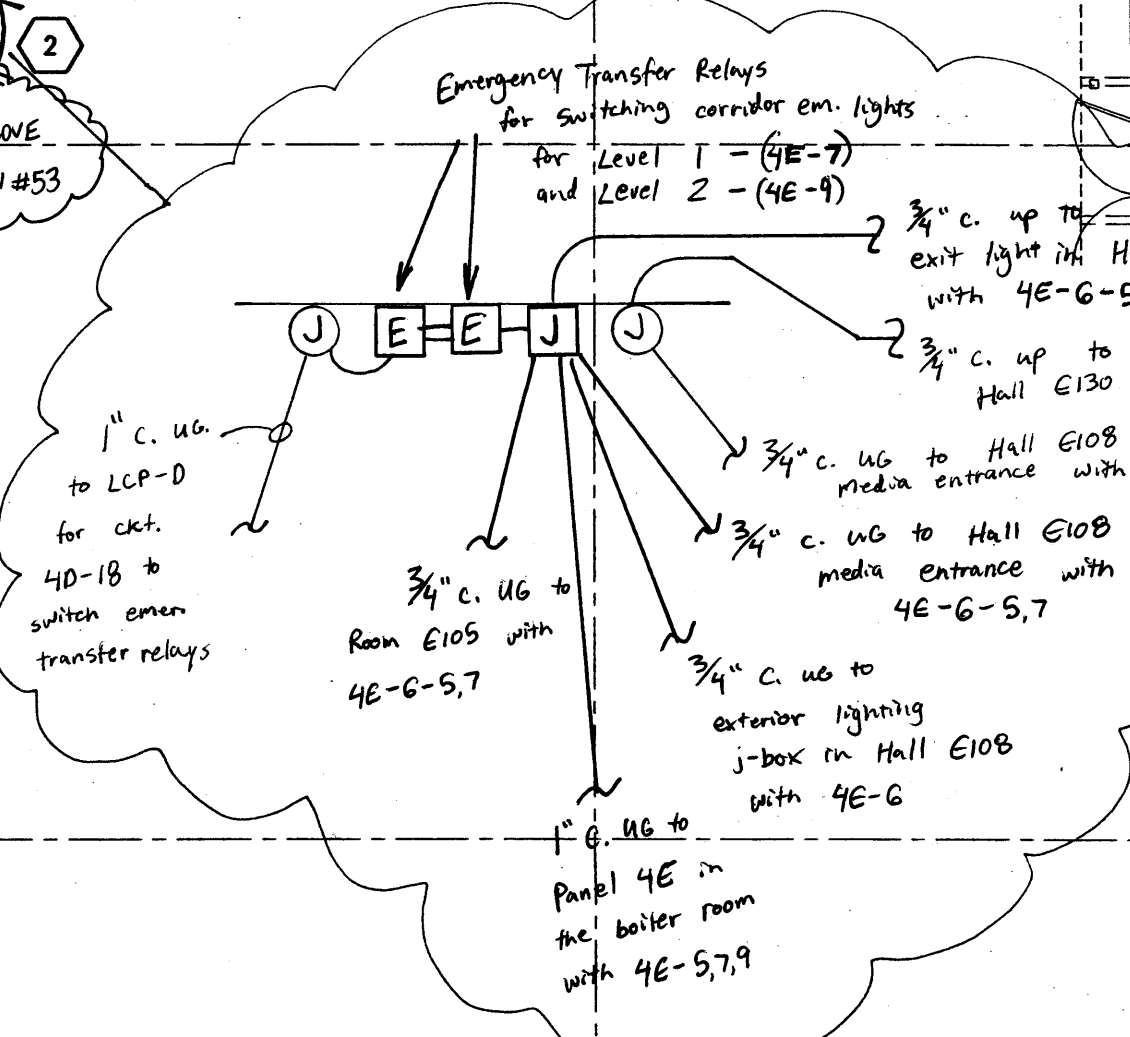
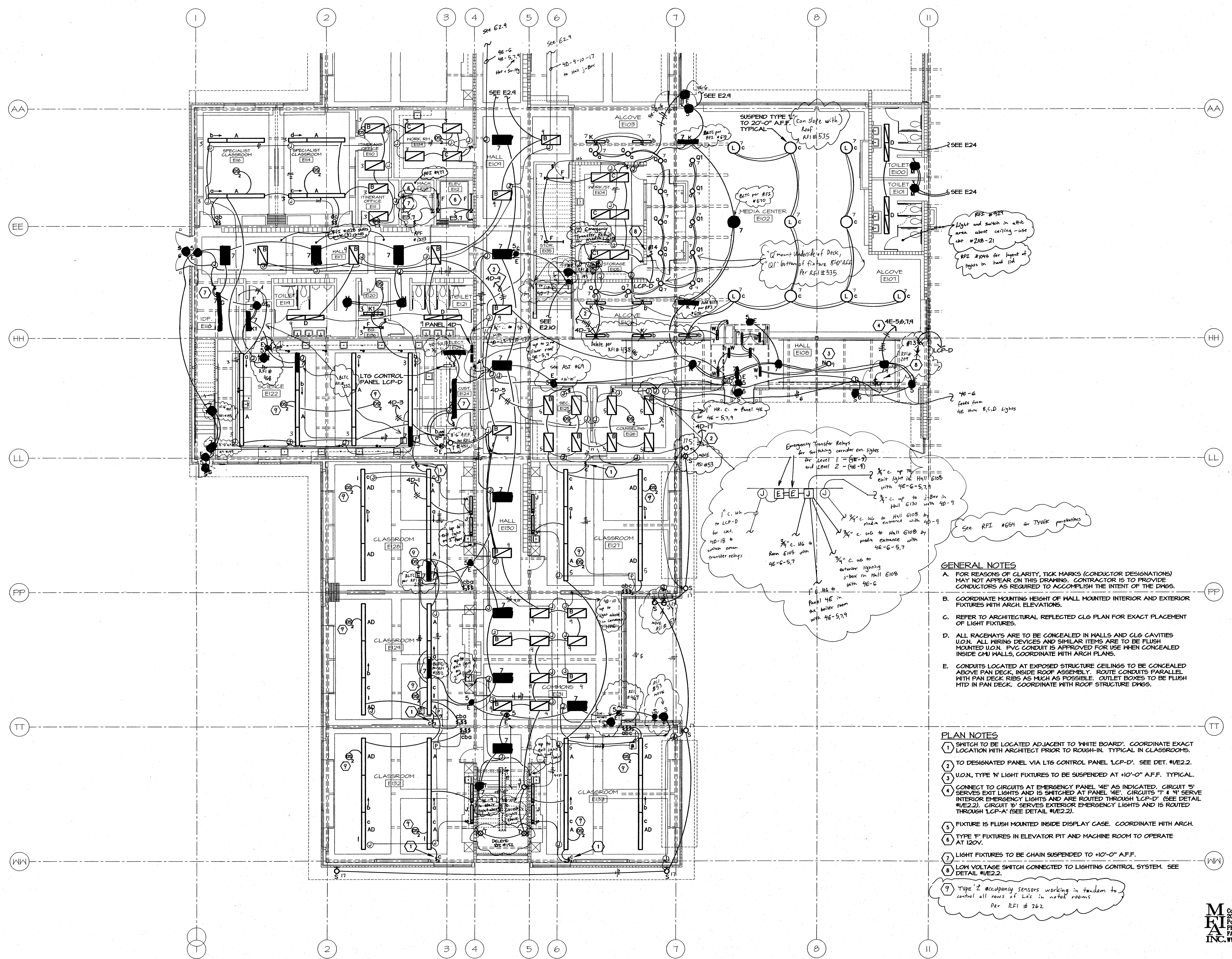


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ADD	November 5, 2007

project# | 06022
Lighting Plan
Sector "E"

E2.7



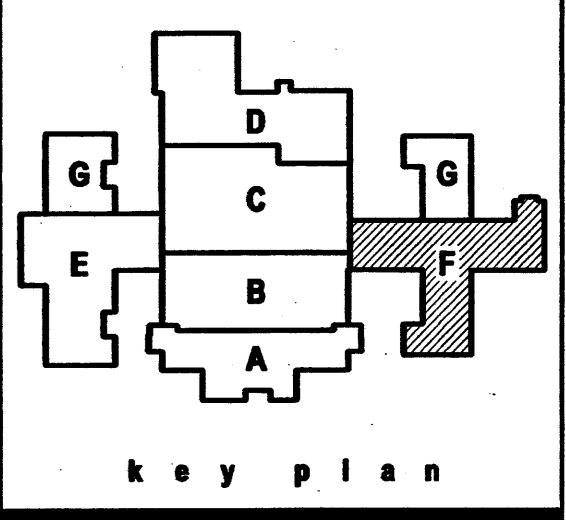
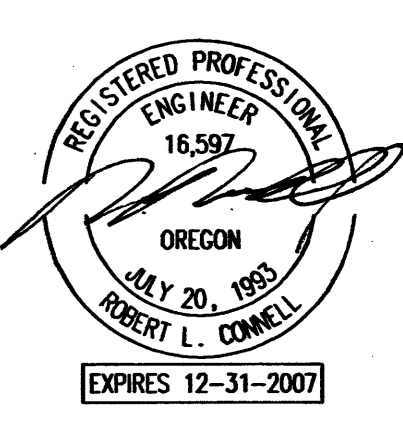
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 - REFER TO ARCHITECTURAL REFLECTED CLG PLAN FOR EXACT PLACEMENT OF LIGHT FIXTURES.
 - ALL RACEWAYS ARE TO BE CONCEALED IN WALLS AND CLG CAVITIES U.O.N. ALL WIRING DEVICES AND SIMILAR ITEMS ARE TO BE FLUSH MOUNTED U.O.N. PVC CONDUIT IS APPROVED FOR USE WHEN CONCEALED INSIDE CMU WALLS, COORDINATE WITH ARCH. PLANS.
 - CONDUITS LOCATED AT EXPOSED STRUCTURE CEILINGSS TO BE CONCEALED ABOVE PAN DECK, INSIDE ROOF ASSEMBLY. ROUTE CONDUITS PARALLEL WITH PAN DECK RIBS AS MUCH AS POSSIBLE. OUTLET BOXES TO BE FLUSH MTD IN PAN DECK. COORDINATE WITH ROOF STRUCTURE DWGS.

- PLAN NOTES**
- SWITCH TO BE LOCATED ADJACENT TO 'WHITE BOARD'. COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN. TYPICAL IN CLASSROOMS.
 - TO DESIGNATED PANEL VIA LTG CONTROL PANEL 'LCP-D'. SEE DET. #1E2.2.
 - U.O.N. TYPE 'N' LIGHT FIXTURES TO BE SUSPENDED AT +10'-0" A.F.F. TYPICAL.
 - CONNECT TO CIRCUITS AT EMERGENCY PANEL '4E' AS INDICATED. CIRCUIT '5' SERVES EXIT LIGHTS AND IS SWITCHED AT PANEL '4E'. CIRCUITS '7' & '8' SERVE INTERIOR EMERGENCY LIGHTS AND ARE ROUTED THROUGH 'LCP-D' (SEE DETAIL #1E2.2). CIRCUIT '6' SERVES EXTERIOR EMERGENCY LIGHTS AND IS ROUTED THROUGH 'LCP-A' (SEE DETAIL #1E2.2).
 - FIXTURE IS FLUSH MOUNTED INSIDE DISPLAY CASE. COORDINATE WITH ARCH.
 - TYPE 'F' FIXTURES IN ELEVATOR PIT AND MACHINE ROOM TO OPERATE AT 120V.
 - LIGHT FIXTURES TO BE CHAIN SUSPENDED TO +10'-0" A.F.F.
 - LOW VOLTAGE SWITCH CONNECTED TO LIGHTING CONTROL SYSTEM. SEE DETAIL #1E2.2.

9) TYPE '2' occupancy sensors working in tandem to control all rows of L's in notebook rooms
Per RFI # 362

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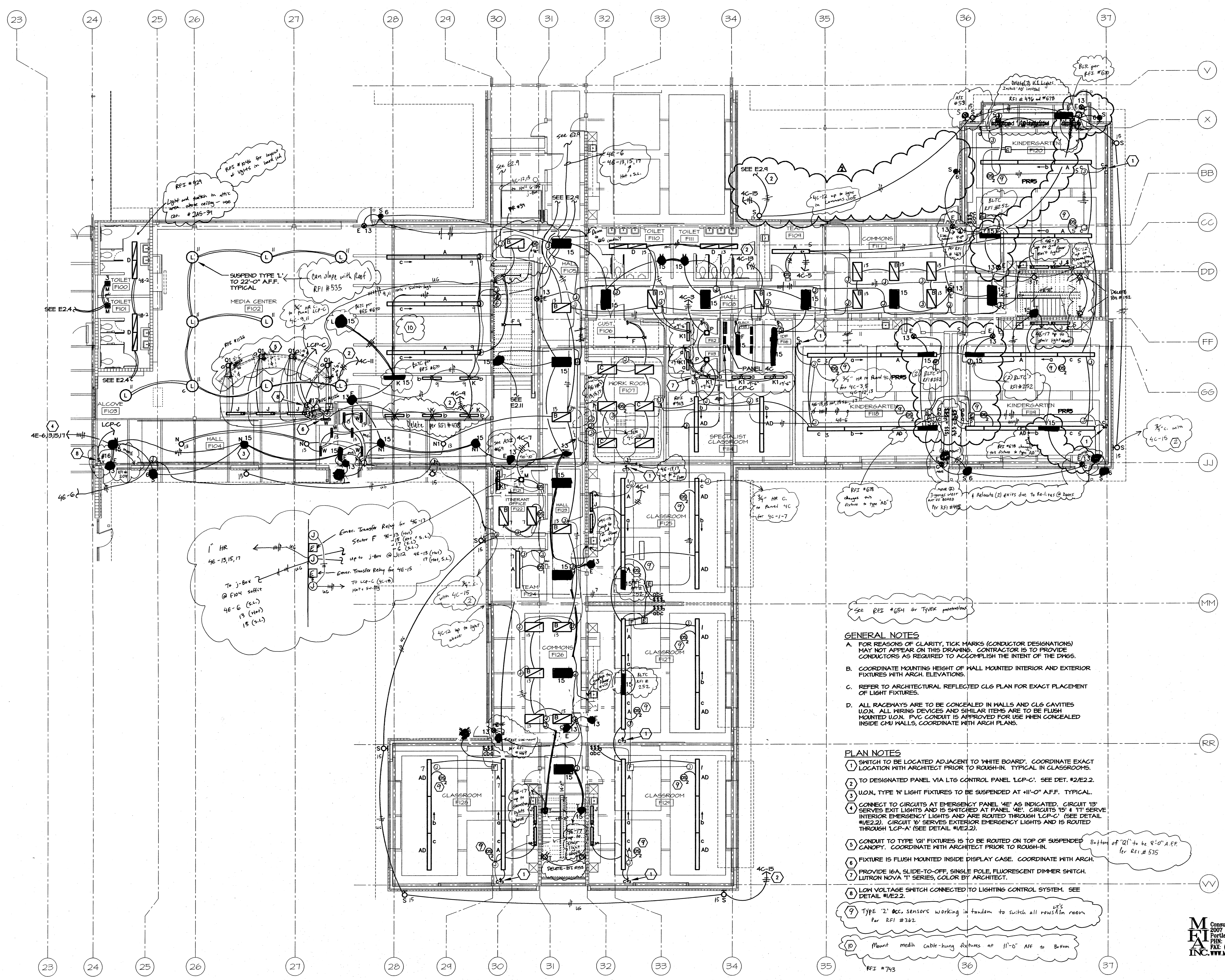
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date	January 3, 2008
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ADD	November 5, 2007

project # | 06022

Lighting Plan
Sector "F"

E2.8



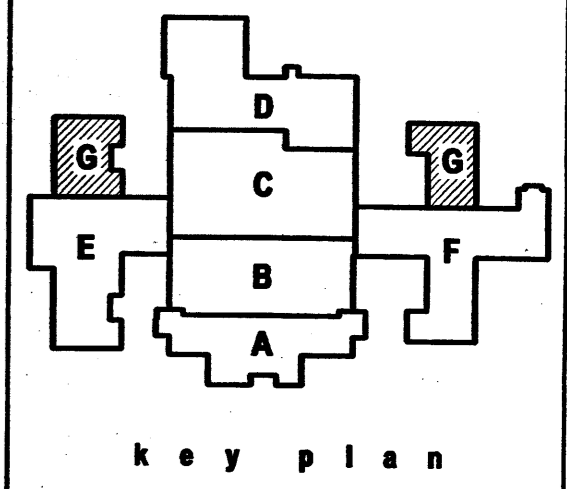
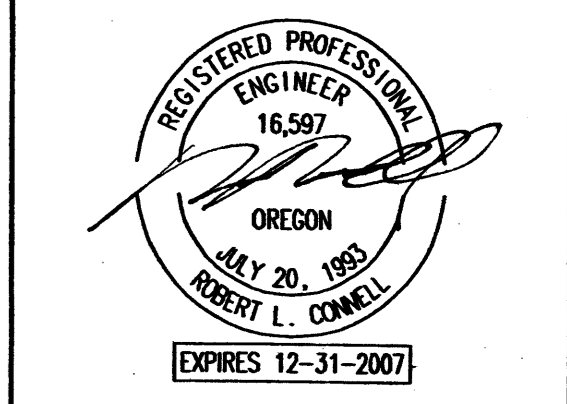
- GENERAL NOTES**
- FOR REASONS OF CLARITY, TICK MARKS (CONDUCTOR DESIGNATIONS) MAY NOT APPEAR ON THIS DRAWING. CONTRACTOR IS TO PROVIDE CONDUCTORS AS REQUIRED TO ACCOMPLISH THE INTENT OF THE DWGS.
 - COORDINATE MOUNTING HEIGHT OF WALL MOUNTED INTERIOR AND EXTERIOR FIXTURES WITH ARCH. ELEVATIONS.
 - REFER TO ARCHITECTURAL REFLECTED CLG PLAN FOR EXACT PLACEMENT OF LIGHT FIXTURES.
 - ALL RACEWAYS ARE TO BE CONCEALED IN WALLS AND CLG CAVITIES U.O.N. ALL WIRING DEVICES AND SIMILAR ITEMS ARE TO BE FLUSH MOUNTED U.O.N. PVC CONDUIT IS APPROVED FOR USE WHEN CONCEALED INSIDE CHU WALLS, COORDINATE WITH ARCH PLANS.

- PLAN NOTES**
- SWITCH TO BE LOCATED ADJACENT TO 'WHITE BOARD'. COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN. TYPICAL IN CLASSROOMS.
 - TO DESIGNATED PANEL VIA LTG CONTROL PANEL LCP-C. SEE DET. #E2.2.
 - U.O.N. TYPE 'N' LIGHT FIXTURES TO BE SUSPENDED AT 11'-0" A.F.F. TYPICAL.
 - CONNECT TO CIRCUITS AT EMERGENCY PANEL '4E' AS INDICATED. CIRCUIT '13' SERVES EXIT LIGHTS AND IS SWITCHED AT PANEL '4E'. CIRCUITS '15' & '17' SERVE INTERIOR EMERGENCY LIGHTS AND ARE ROUTED THROUGH LCP-C. (SEE DETAIL #E2.2). CIRCUIT '6' SERVES EXTERIOR EMERGENCY LIGHTS AND IS ROUTED THROUGH LCP-A. (SEE DETAIL #E2.2).
 - CONDUIT TO TYPE '01' FIXTURES IS TO BE ROUTED ON TOP OF SUSPENDED CANOPY. COORDINATE WITH ARCHITECT PRIOR TO ROUGH-IN.
 - FIXTURE IS FLUSH MOUNTED INSIDE DISPLAY CASE. COORDINATE WITH ARCH.
 - PROVIDE 16A, SLIDE-TO-OFF, SINGLE POLE, FLUORESCENT DIMMER SWITCH. LUTRON NOVA 'T' SERIES, COLOR BY ARCHITECT.
 - LOW VOLTAGE SWITCH CONNECTED TO LIGHTING CONTROL SYSTEM. SEE DETAIL #E2.2.
 - TYPE '2' OCC. SENSORS WORKING IN TANDEM TO SWITCH ALL rooms in room. Per RFI #362.
 - Mount media cable-hung fixtures at 11'-0" AFF to bottom. RFI #793.

E2.8 LIGHTING PLAN - SECTOR "F"
SCALE: 1/8" = 1'-0"

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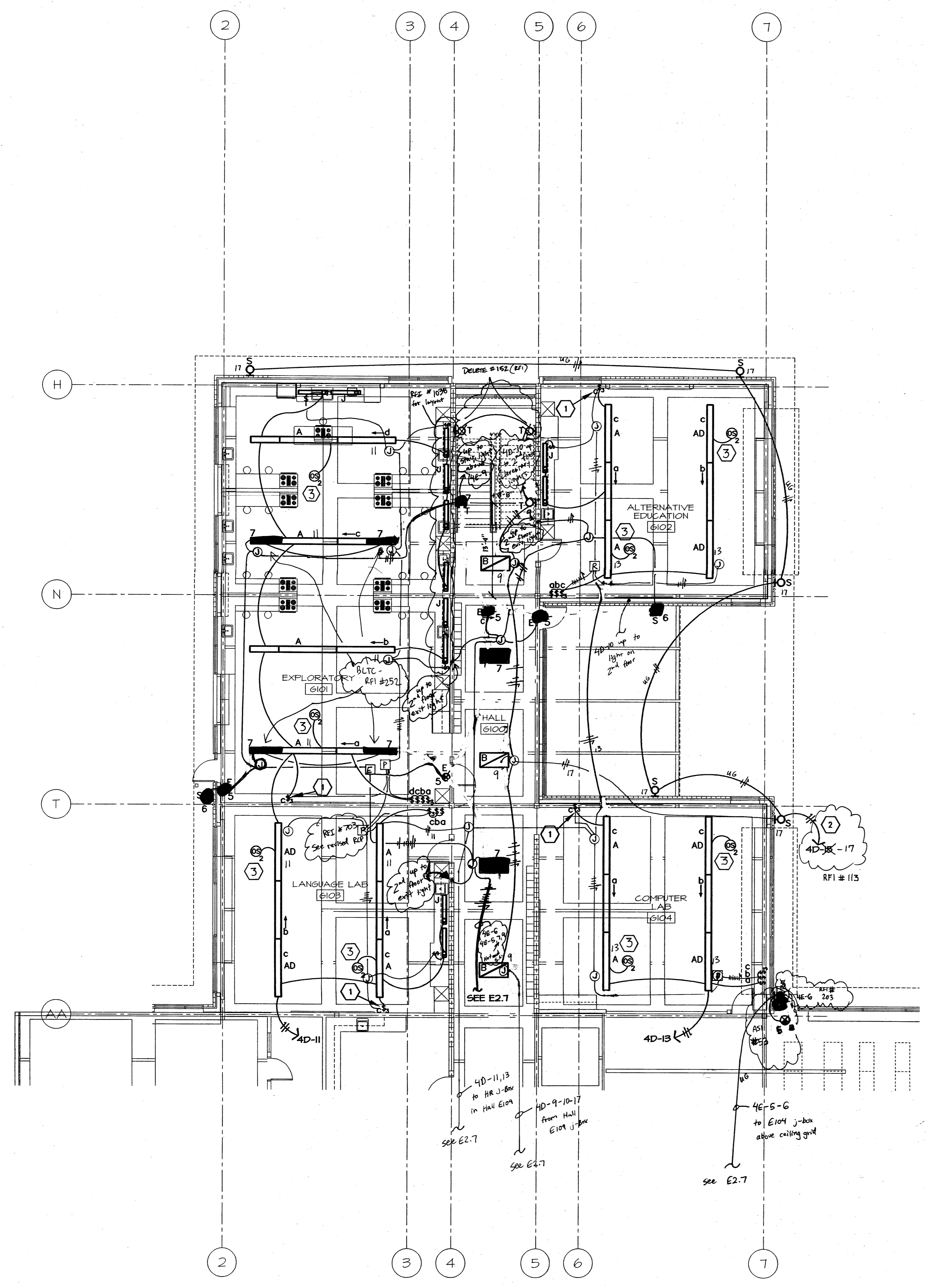


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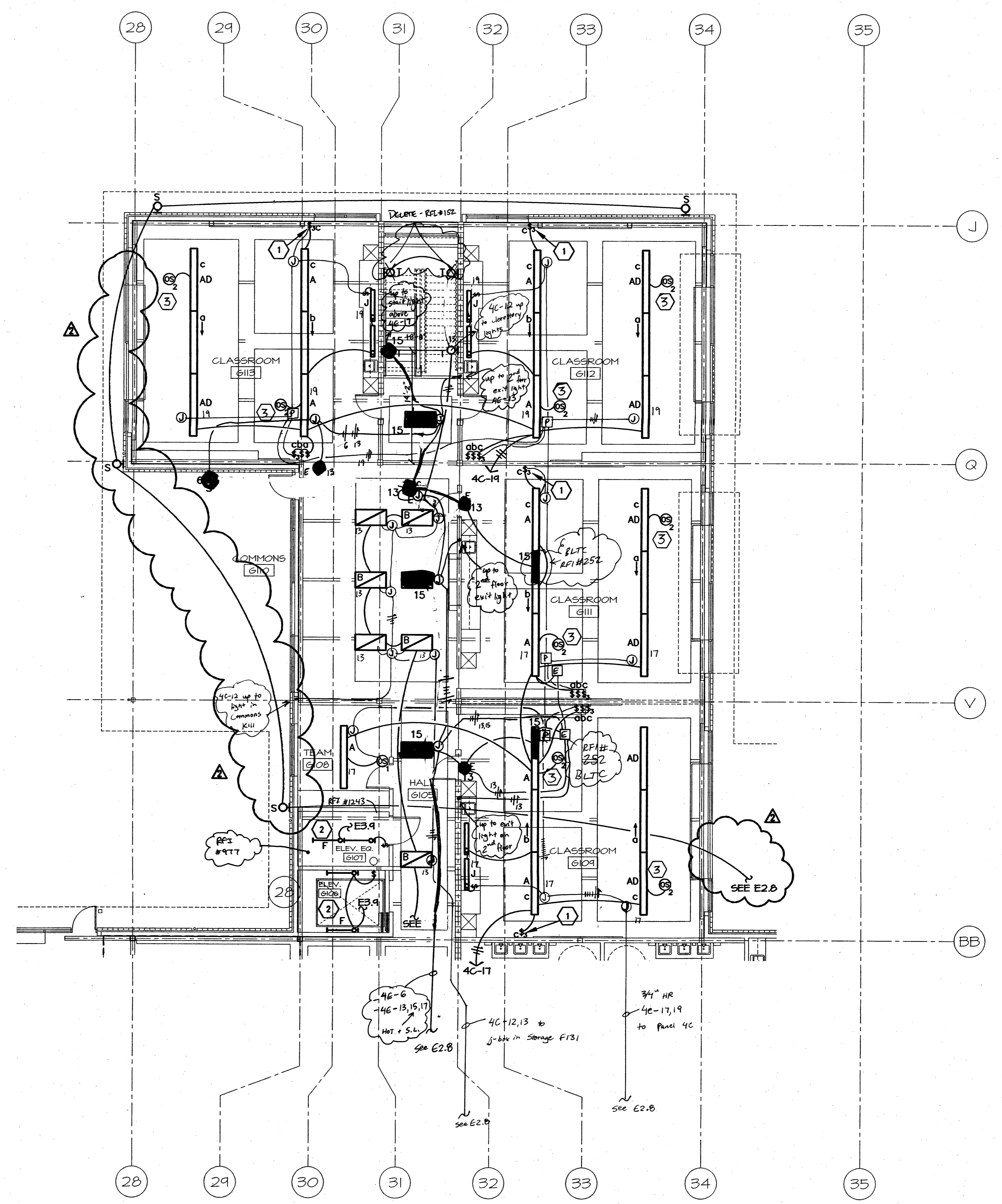
project # | 06022
Lighting Plan
Sector "G"

E2.9



1 LIGHTING PLAN SECTOR "G" - MS SIDE
E2.9 SCALE: 1/8" = 1'-0"

PLAN NOTES
RFI # 113
2 To Designated Panel via 'LCP-D' Leg control Panel



2 LIGHTING PLAN - SECTOR "G" - ES SIDE
E2.9 SCALE: 1/8" = 1'-0"

PLAN NOTES
1 SWITCH TO BE LOCATED ADJACENT TO WHITE BOARD. COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN. TYPICAL IN CLASSROOMS.
2 TYPE 'D' FIXTURES IN ELEVATOR PIT AND MACHINE ROOM TO OPERATE AT 120V.
3 TYPE 'Z' OCCUPANCY SENSORS WORKING IN TANDEM IN NOTED ROOMS Per RFI # 362

See RFI # 894 for TNEK penetrations

- GENERAL NOTES**
- FOR REASONS OF CLARITY, TICK MARKS (CONDUCTOR DESIGNATIONS) MAY NOT APPEAR ON THIS DRAWING. CONTRACTOR IS TO PROVIDE CONDUCTORS AS REQUIRED TO ACCOMPLISH THE INTENT OF THE DWGS.
 - COORDINATE MOUNTING HEIGHT OF WALL MOUNTED INTERIOR AND EXTERIOR FIXTURES WITH ARCH. ELEVATIONS.
 - REFER TO ARCHITECTURAL REFLECTED CLG PLAN FOR EXACT PLACEMENT OF LIGHT FIXTURES.
 - ALL RACEWAYS ARE TO BE CONCEALED IN WALLS AND CLG CAVITIES U.O.N. ALL WIRING DEVICES AND SIMILAR ITEMS ARE TO BE FLUSH MOUNTED U.O.N. PVC CONDUIT IS APPROVED FOR USE WHEN CONCEALED INSIDE CMU WALLS, COORDINATE WITH ARCH PLANS.
 - CONDUITS LOCATED AT EXPOSED STRUCTURE CEILINGS TO BE CONCEALED ABOVE PAN DECK, INSIDE ROOF ASSEMBLY. ROUTE CONDUITS PARALLEL WITH PAN DECK RIBS AS MUCH AS POSSIBLE. OUTLET BOXES TO BE FLUSH MTD IN PAN DECK. COORDINATE WITH ROOF STRUCTURE DWGS.

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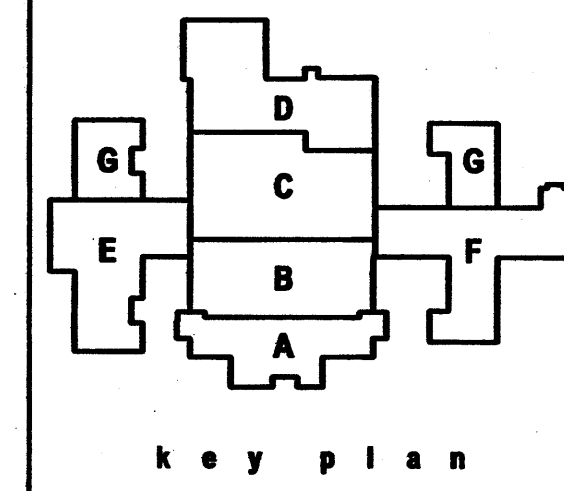
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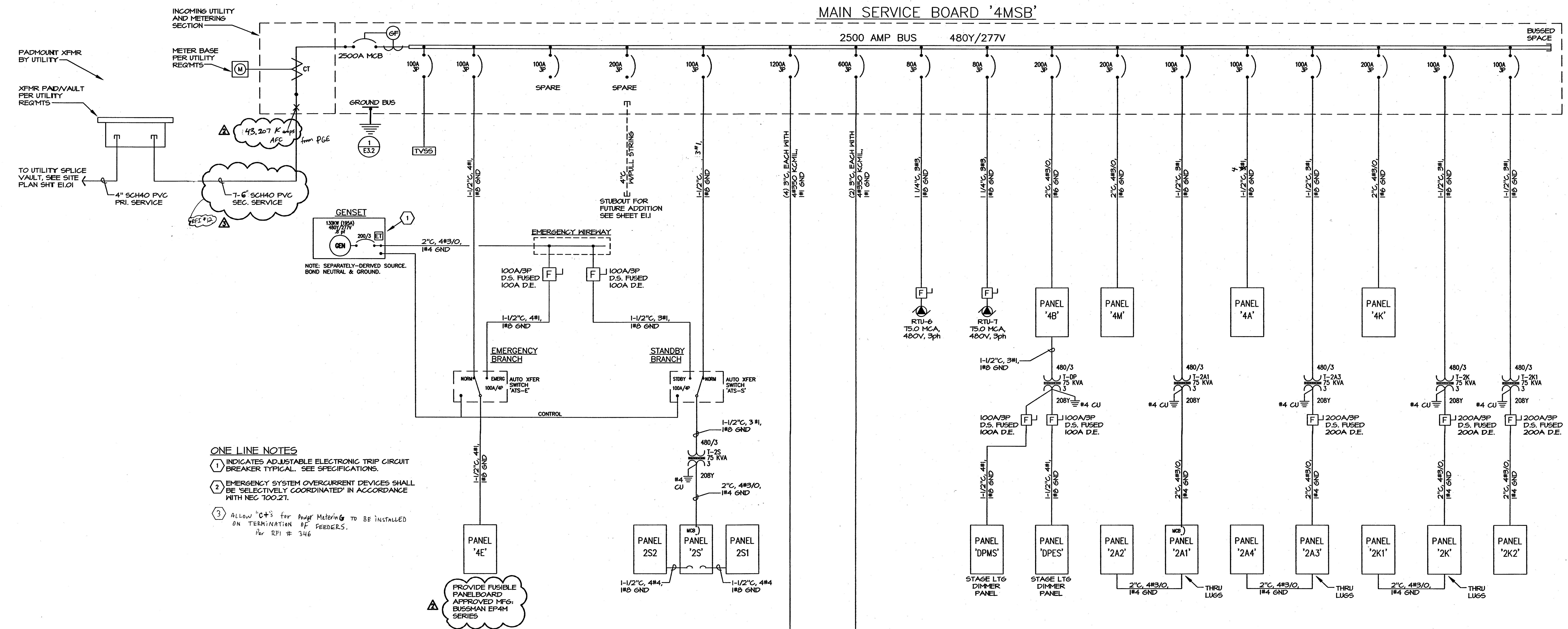
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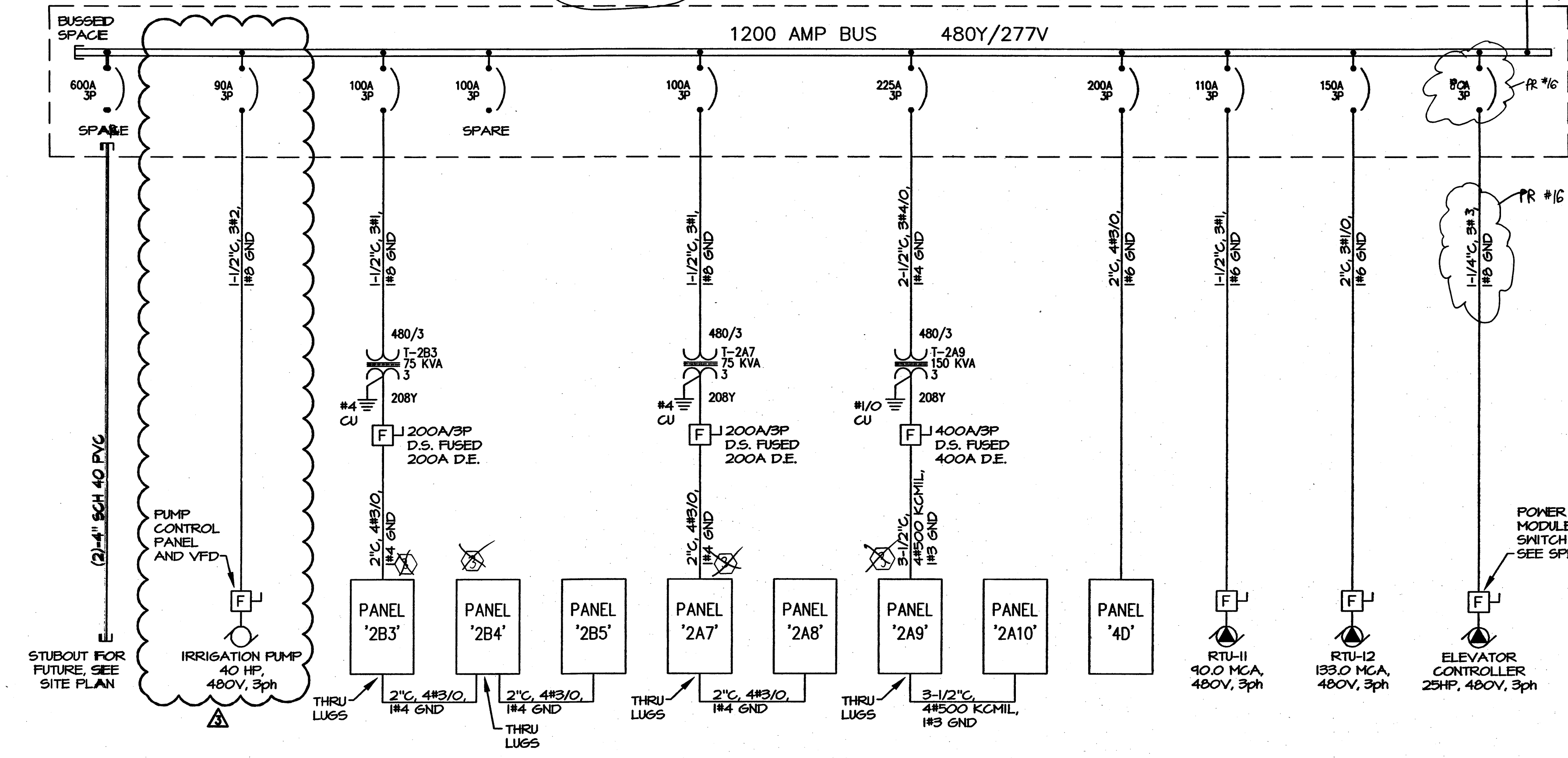
project # | 06022

One Line Diagram E3.1

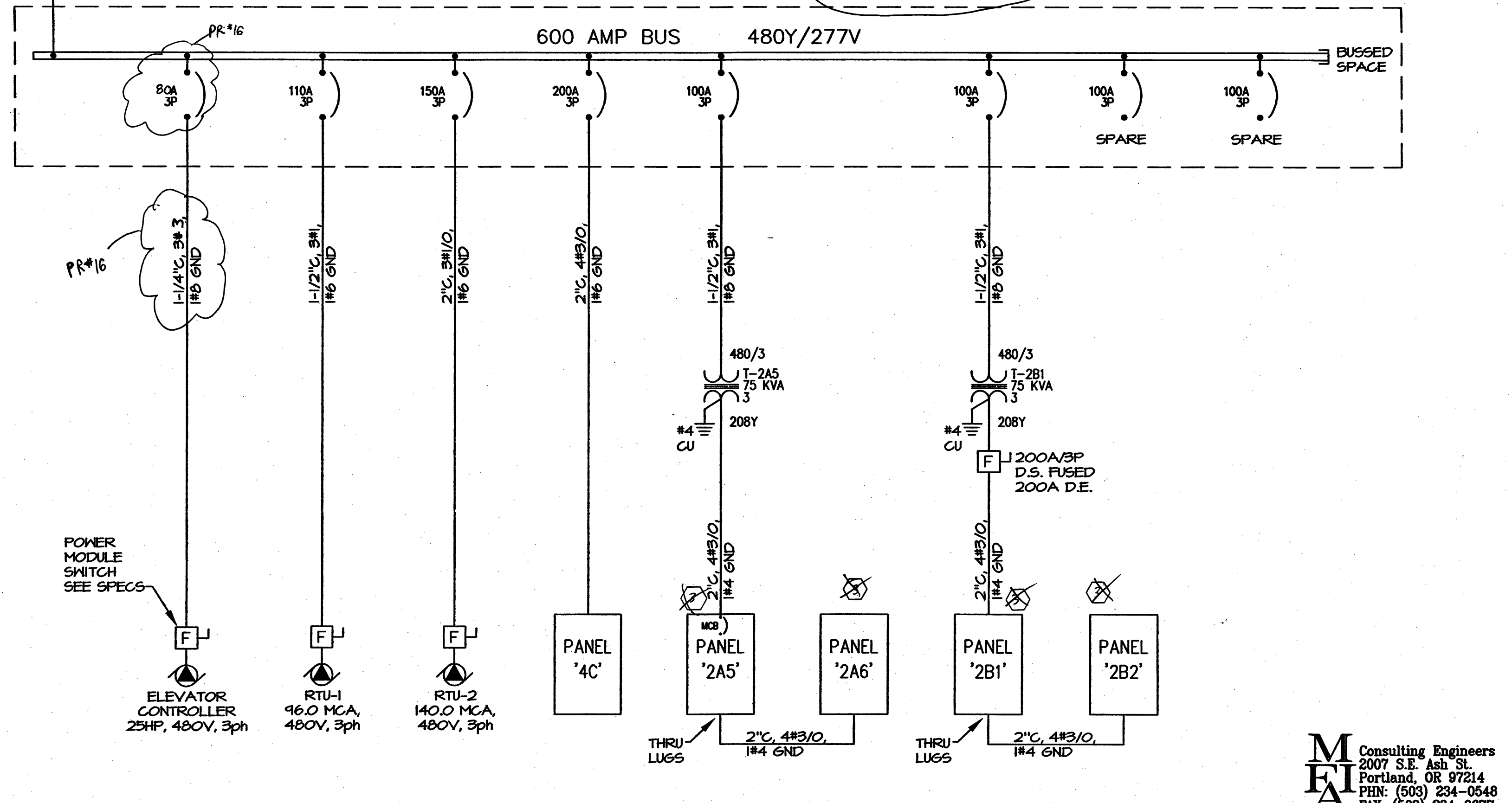
MAIN SERVICE BOARD '4MSB'



SUB DISTRIBUTION PANEL '4SDP-MS'



SUB DISTRIBUTION PANEL '4SDP-ES'



ONE LINE DIAGRAM
SCALE: 480Y/277V - 208Y/120V

SEE SHEET E3.2 FOR LOAD SUMMARY INFORMATION



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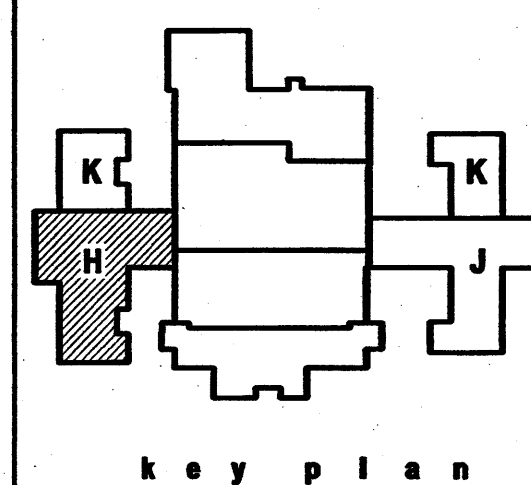
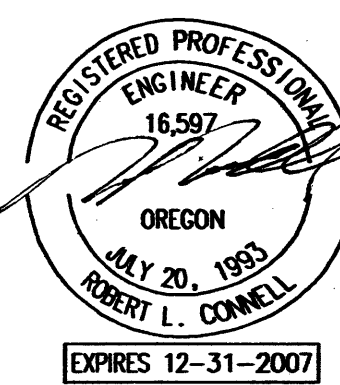
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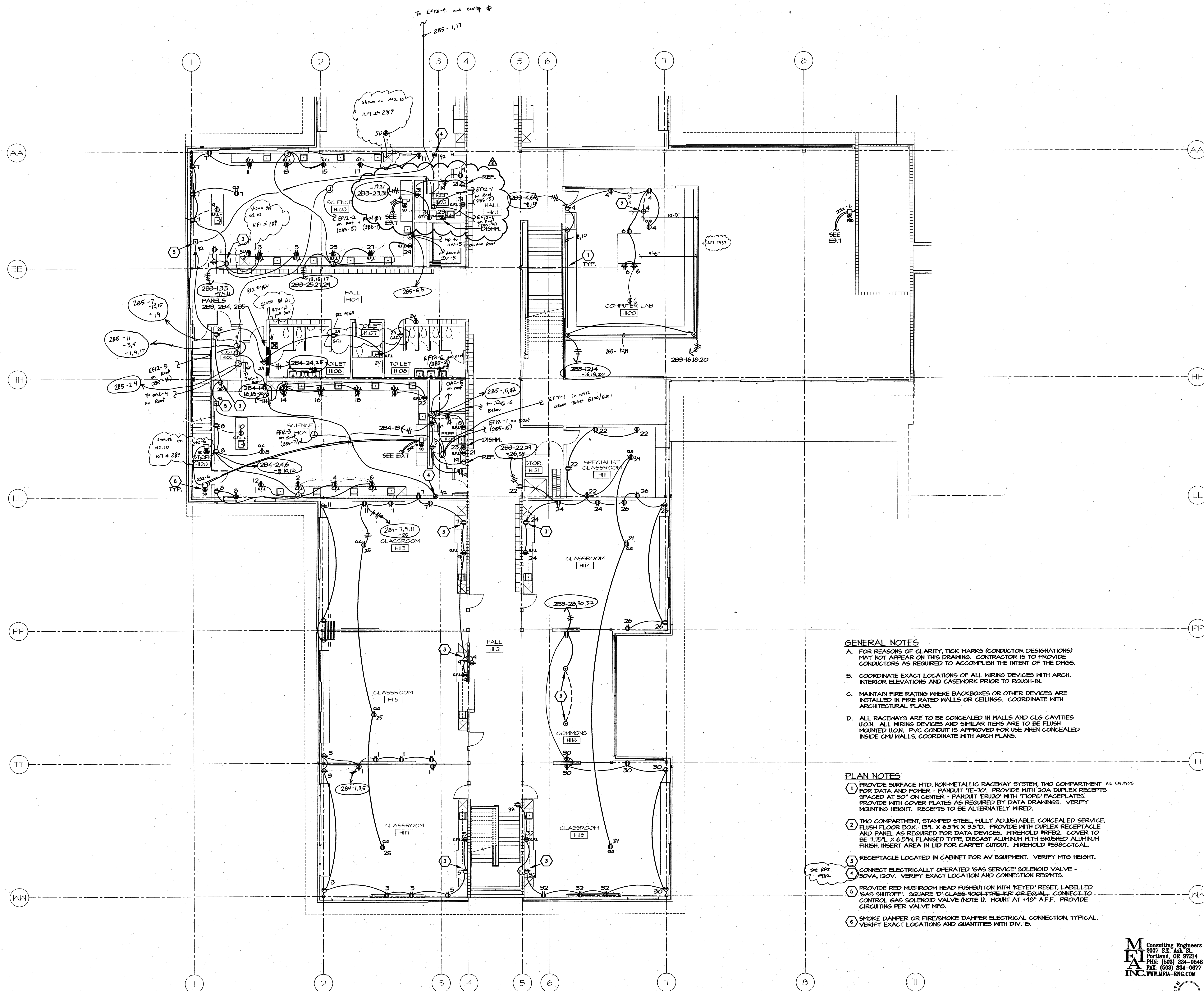
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Power Plan
Sector "H"

E3.10



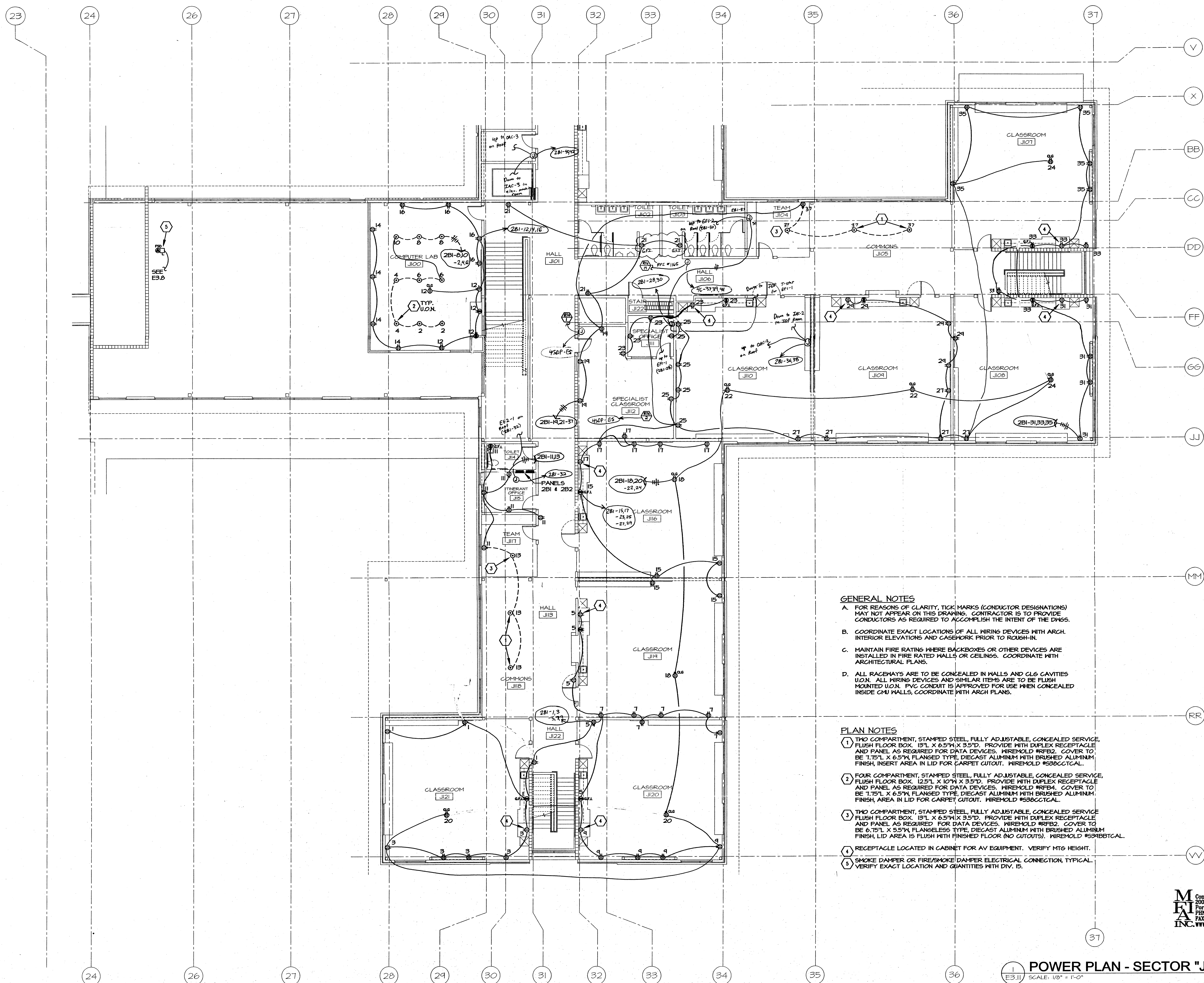
- GENERAL NOTES**
- FOR REASONS OF CLARITY, TICK MARKS (CONDUCTOR DESIGNATIONS) MAY NOT APPEAR ON THIS DRAWING. CONTRACTOR IS TO PROVIDE CONDUCTORS AS REQUIRED TO ACCOMPLISH THE INTENT OF THE DWGS.
 - COORDINATE EXACT LOCATIONS OF ALL WIRING DEVICES WITH ARCH. INTERIOR ELEVATIONS AND CASEWORK PRIOR TO ROUGH-IN.
 - MAINTAIN FIRE RATINGS WHERE BACKBOXES OR OTHER DEVICES ARE INSTALLED IN FIRE RATED WALLS OR CEILINGS. COORDINATE WITH ARCHITECTURAL PLANS.
 - ALL RACEWAYS ARE TO BE CONCEALED IN WALLS AND CLG CAVITIES (W/O). ALL WIRING DEVICES AND SIMILAR ITEMS ARE TO BE FLUSH MOUNTED (W/O). PVC CONDUIT IS APPROVED FOR USE WHEN CONCEALED INSIDE CHU WALLS, COORDINATE WITH ARCH PLANS.

- PLAN NOTES**
- PROVIDE SURFACE MTD, NON-METALLIC RACEWAY SYSTEM, TWO COMPARTMENT (SEE REF 106) FOR DATA AND POWER - PANDUIT 'TE-10'. PROVIDE WITH 20A DUPLEX RECEPTS SPACED AT 50" ON CENTER - PANDUIT 'ER100' WITH 'TPO'S' FACELATES. PROVIDE WITH COVER PLATES AS REQUIRED BY DATA DRAWINGS. VERIFY MOUNTING HEIGHT. RECEPTS TO BE ALTERNATELY WIRED.
 - TWO COMPARTMENT, STAMPED STEEL, FULLY ADJUSTABLE, CONCEALED SERVICE, FLUSH FLOOR BOX. 13"1" X 6.5"1" X 3.5"1". PROVIDE WITH DUPLEX RECEPTACLE AND PANEL AS REQUIRED FOR DATA DEVICES. WIREMOLD #RFB2. COVER TO BE 1.75" X 6.5"1" FLANGED TYPE DIECAST ALUMINUM WITH BRUSHED ALUMINUM FINISH. INSERT AREA IN LID FOR CARPET CUTOUT. WIREMOLD #330CCTCAL.
 - RECEPTACLE LOCATED IN CABINET FOR AV EQUIPMENT. VERIFY MTDG HEIGHT.
 - CONNECT ELECTRICALLY OPERATED 'GAS SERVICE' SOLENOID VALVE - SOVA, 120V. VERIFY EXACT LOCATION AND CONNECTION REQMTS.
 - PROVIDE RED MUSHROOM HEAD PUSHBUTTON WITH 'KEYED' RESET, LABELLED 'GAS SHUTOFF'. SQUARE 'D' CLASS 9001-TYPE 'KR' OR EQUAL. CONNECT TO CONTROL GAS SOLENOID VALVE (NOTE 1). MOUNT AT +48" A.F.F. PROVIDE CIRCUITING PER VALVE MFG.
 - SMOKE DAMPER OR FIRE/SMOKE DAMPER ELECTRICAL CONNECTION, TYPICAL. VERIFY EXACT LOCATIONS AND QUANTITIES WITH DIV. 15.

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POWER PLAN - SECTOR "H"
E3.10 SCALE: 1/8" = 1'-0"

GRID LINES ARE NOT CORRECT ON THIS PAGE!



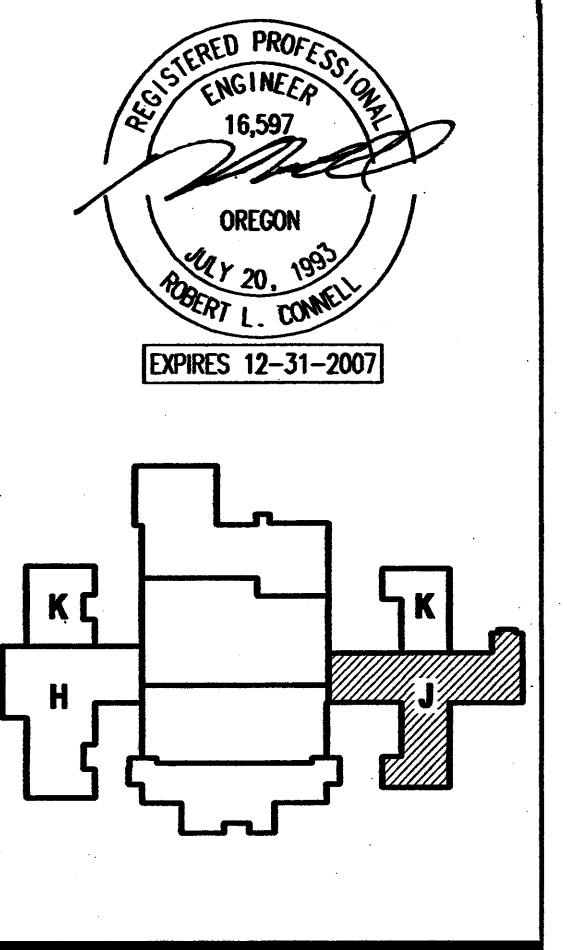
- GENERAL NOTES**
- FOR REASONS OF CLARITY, TICK MARKS (CONDUCTOR DESIGNATIONS) MAY NOT APPEAR ON THIS DRAWING. CONTRACTOR IS TO PROVIDE CONDUCTORS AS REQUIRED TO ACCOMPLISH THE INTENT OF THE DWGS.
 - COORDINATE EXACT LOCATIONS OF ALL WIRING DEVICES WITH ARCH. INTERIOR ELEVATIONS AND CASEWORK PRIOR TO ROUGH-IN.
 - MAINTAIN FIRE RATINGS WHERE BACKBOXES OR OTHER DEVICES ARE INSTALLED IN FIRE RATED WALLS OR CEILINGS. COORDINATE WITH ARCHITECTURAL PLANS.
 - ALL RACEWAYS ARE TO BE CONCEALED IN WALLS AND C/C VANTIES U.O.N. ALL WIRING DEVICES AND SIMILAR ITEMS ARE TO BE FLUSH MOUNTED U.O.N. PVC CONDUIT IS APPROVED FOR USE WHEN CONCEALED INSIDE CMU WALLS, COORDINATE WITH ARCH PLANS.

- PLAN NOTES**
- TWO COMPARTMENT, STAMPED STEEL, FULLY ADJUSTABLE, CONCEALED SERVICE FLUSH FLOOR BOX. 19" L X 6.5" W X 3.5" D. PROVIDE WITH DUPLEX RECEPTACLE AND PANEL AS REQUIRED FOR DATA DEVICES. WIREMOLD #RFB2. COVER TO BE 1.75" L X 6.5" W, FLANGED TYPE, DIECAST ALUMINUM WITH BRUSHED ALUMINUM FINISH. INSERT AREA IN LID FOR CARPET CUTOUT. WIREMOLD #338CCTCAL.
 - FOUR COMPARTMENT, STAMPED STEEL, FULLY ADJUSTABLE, CONCEALED SERVICE FLUSH FLOOR BOX. 12.5" L X 10" W X 3.5" D. PROVIDE WITH DUPLEX RECEPTACLE AND PANEL AS REQUIRED FOR DATA DEVICES. WIREMOLD #RFB4. COVER TO BE 1.75" L X 6.5" W, FLANGED TYPE, DIECAST ALUMINUM WITH BRUSHED ALUMINUM FINISH. AREA IN LID FOR CARPET CUTOUT. WIREMOLD #338CCTCAL.
 - TWO COMPARTMENT, STAMPED STEEL, FULLY ADJUSTABLE, CONCEALED SERVICE FLUSH FLOOR BOX. 19" L X 6.5" W X 3.5" D. PROVIDE WITH DUPLEX RECEPTACLE AND PANEL AS REQUIRED FOR DATA DEVICES. WIREMOLD #RFB2. COVER TO BE 1.75" L X 6.5" W, FLANGELESS TYPE, DIECAST ALUMINUM WITH BRUSHED ALUMINUM FINISH. LID AREA IS FLUSH WITH FINISHED FLOOR (NO CUTOUTS). WIREMOLD #338BETCAL.
 - RECEPTACLE LOCATED IN CABINET FOR AV EQUIPMENT. VERIFY MTS HEIGHT.
 - SMOKE DAMPER OR FIRE/SMOKE DAMPER ELECTRICAL CONNECTION TYPICAL. VERIFY EXACT LOCATION AND QUANTITIES WITH DIV. 15.

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POWER PLAN - SECTOR "J"
 SCALE: 1/8" = 1'-0"

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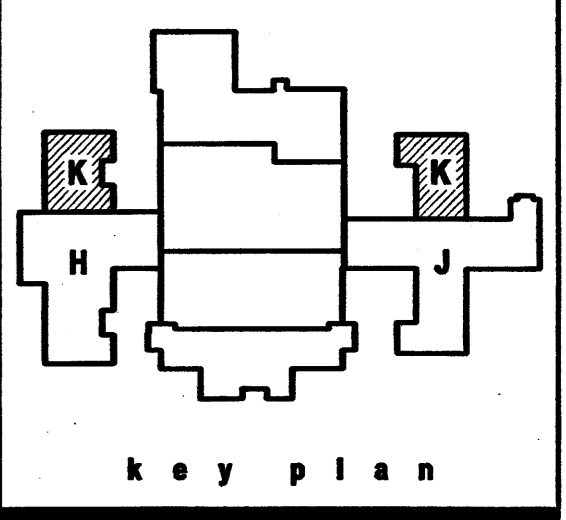
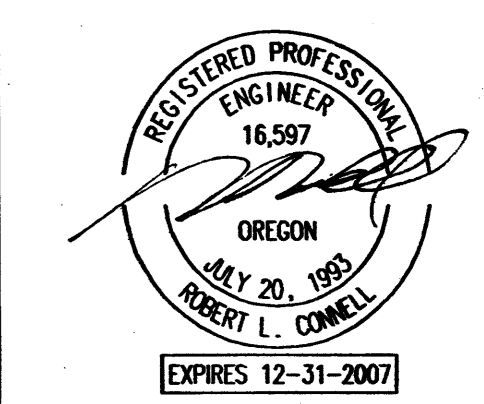
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 Power Plan
 Sector "J"

E3.11

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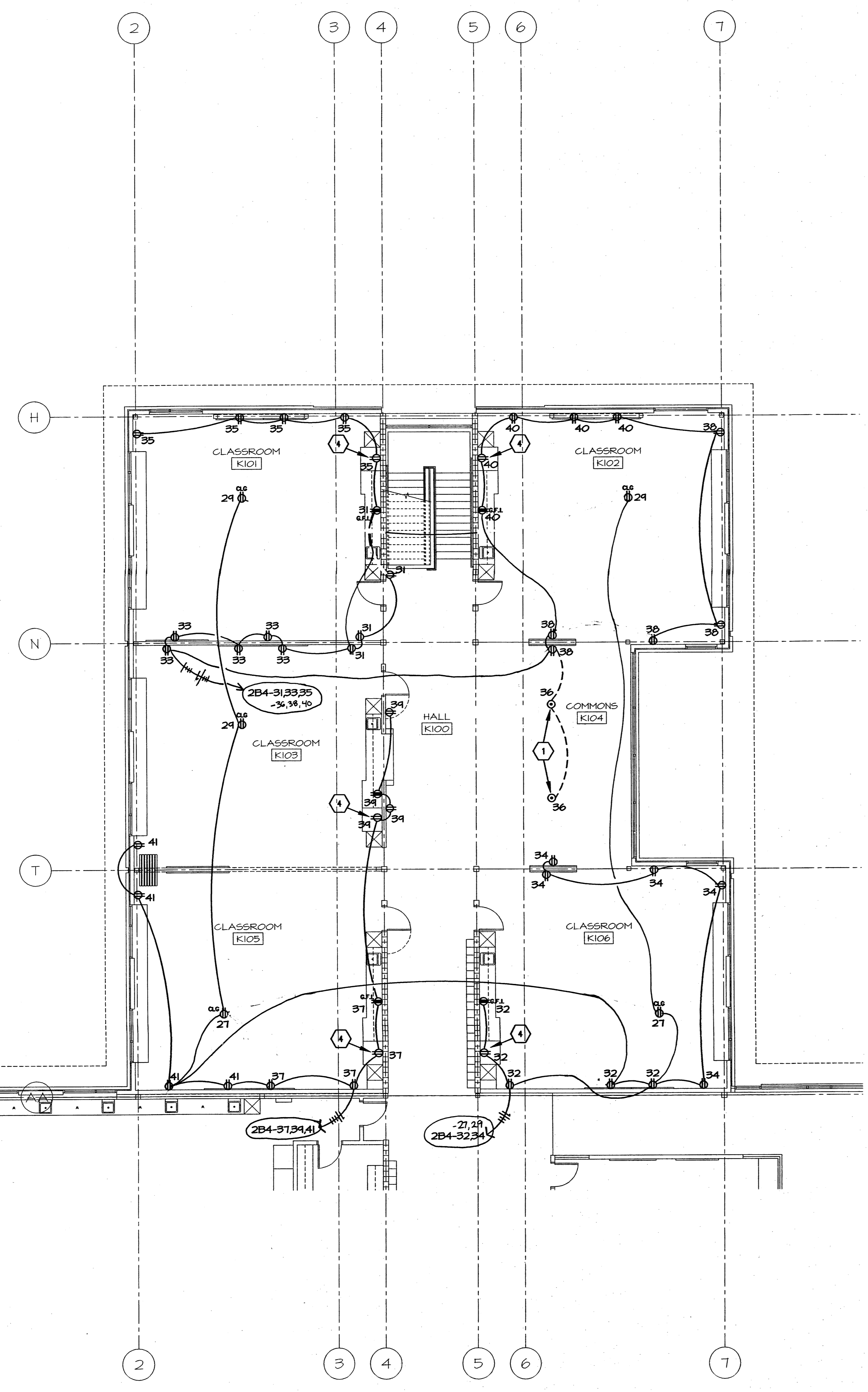
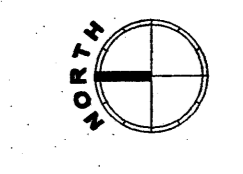


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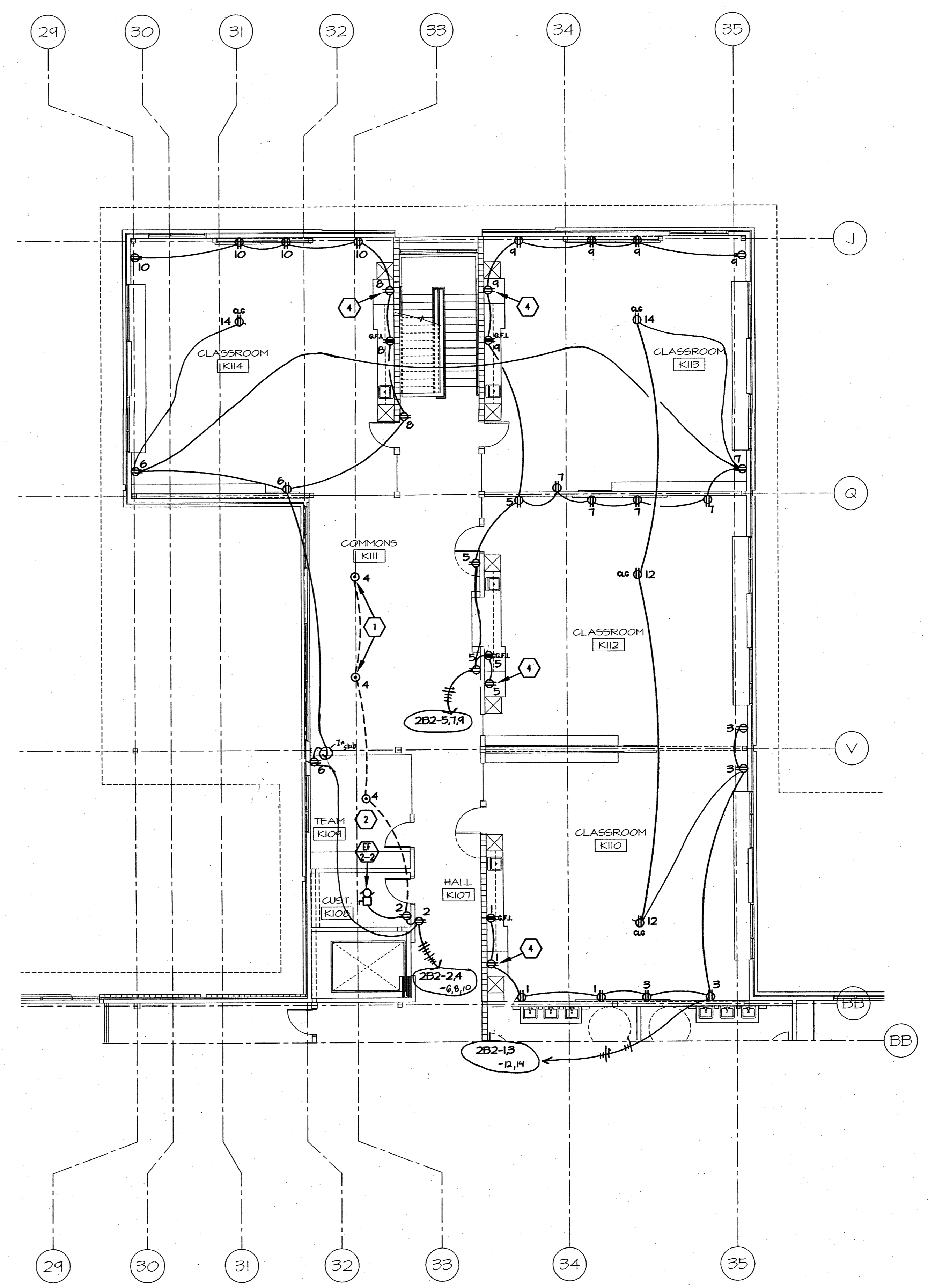
Power Plan
Sector 'K'
E3.12

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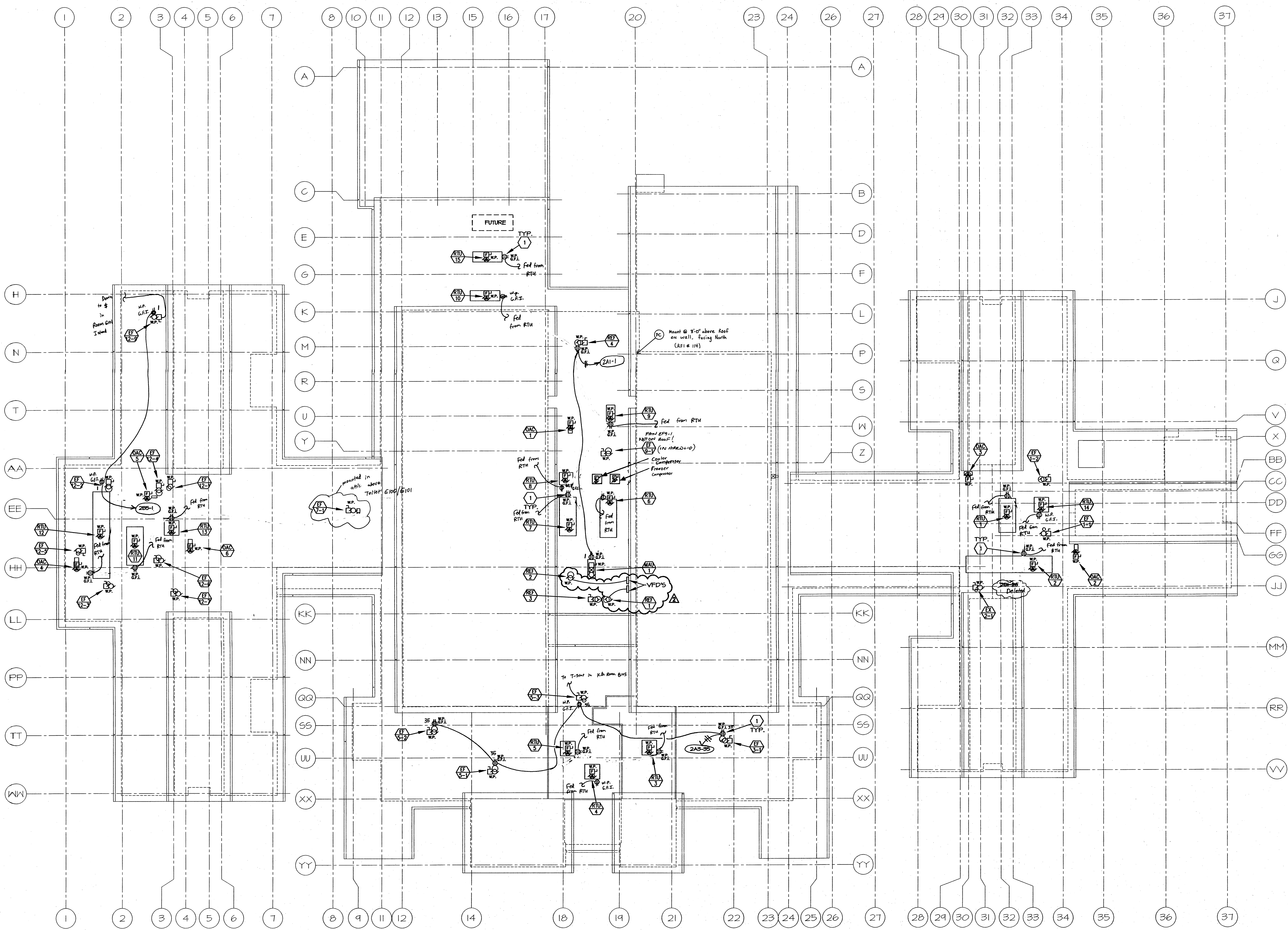
1 POWER PLAN SECTOR 'K' - MS SIDE
SCALE: 1/8" = 1'-0"

- GENERAL NOTES**
- FOR REASONS OF CLARITY, TICK MARKS (CONDUCTOR DESIGNATIONS) MAY NOT APPEAR ON THIS DRAWING. CONTRACTOR IS TO PROVIDE CONDUCTORS AS REQUIRED TO ACCOMPLISH THE INTENT OF THE DWGS.
 - COORDINATE EXACT LOCATIONS OF ALL WIRING DEVICES WITH ARCH. INTERIOR ELEVATIONS AND CASEWORK PRIOR TO ROUGH-IN.
 - MAINTAIN FIRE RATINGS WHERE BACKBOXES OR OTHER DEVICES ARE INSTALLED IN FIRE RATED WALLS OR CEILING. COORDINATE WITH ARCHITECTURAL PLANS.
 - ALL RACEWAYS ARE TO BE CONCEALED IN WALLS AND CLG CAVITIES U.O.N. ALL WIRING DEVICES AND SIMILAR ITEMS ARE TO BE FLUSH MOUNTED U.O.N. PVC CONDUIT IS APPROVED FOR USE WHEN CONCEALED INSIDE CMU WALLS, COORDINATE WITH ARCH PLANS.



2 POWER PLAN - SECTOR 'K' - ES SIDE
SCALE: 1/8" = 1'-0"

- PLAN NOTES**
- THO COMPARTMENT, STAMPED STEEL, FULLY ADJUSTABLE, CONCEALED SERVICE FLUSH FLOOR BOX. 18" L X 6.5" W X 3.5" D. PROVIDE WITH DUPLEX RECEPTACLE AND PANEL AS REQUIRED FOR DATA DEVICES. WIREMOLD #RFB2. COVER TO BE 1.75" L X 6.5" W, FLANGED TYPE, DIECAST ALUMINUM WITH BRUSHED ALUMINUM FINISH, INSERT AREA IN LID FOR CARPET CUTOUT. WIREMOLD #539CGTCL.
 - THO COMPARTMENT, STAMPED STEEL, FULLY ADJUSTABLE, CONCEALED SERVICE FLUSH FLOOR BOX. 18" L X 6.5" W X 3.5" D. PROVIDE WITH DUPLEX RECEPTACLE AND PANEL AS REQUIRED FOR DATA DEVICES. WIREMOLD #RFB2. COVER TO BE 6.75" L X 5.5" W, FLANGELESS TYPE, DIECAST ALUMINUM WITH BRUSHED ALUMINUM FINISH, LID AREA IS FLUSH WITH FINISHED FLOOR (NO CUTOUTS). WIREMOLD #539BBTCL.



PLAN NOTES

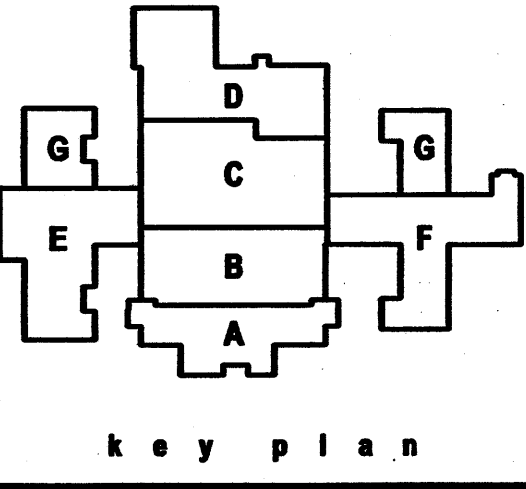
- 1 MOUNT ROOFTOP RECEPTACLE ON UNIT ENCLOSURE WITH CIRCUITING ROUTED THROUGH UNIT BASE, TYPICAL.

POWER PLAN - ROOF
 E3.13 SCALE: 1"=20'

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 Roof

E3.13



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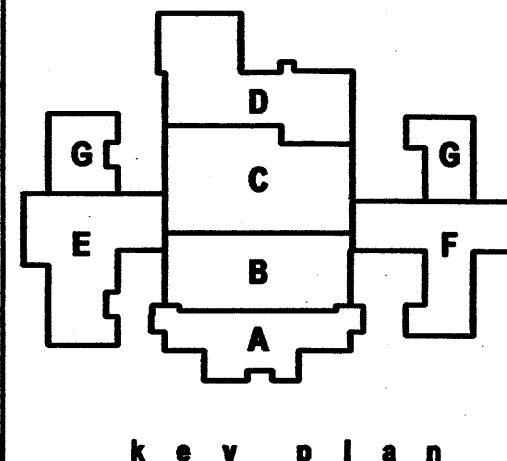
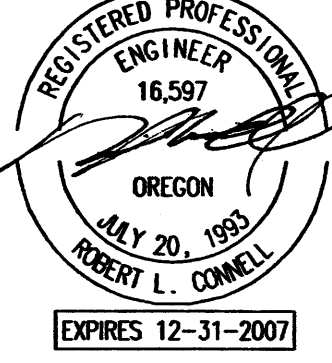
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Panel Schedules

E3.14

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MFA PANEL SCHEDULE 25-Sep-07. Panel 241, location ELECT. C104, connected load amps 69. Includes table of receptacles, lighting, and equipment with calculations.

MFA PANEL SCHEDULE 25-Sep-07. Panel 242, location ELECT. C104, connected load amps 81. Includes table of receptacles, lighting, and equipment with calculations.

MFA PANEL SCHEDULE 25-Sep-07. Panel 243, location HALL A110, connected load amps 67. Includes table of receptacles, lighting, and equipment with calculations.

MFA PANEL SCHEDULE 25-Sep-07. Panel 244, location HALL A138, connected load amps 61. Includes table of receptacles, lighting, and equipment with calculations.

MFA PANEL SCHEDULE 25-Sep-07. Panel 245, location ELECT. F115, connected load amps 77. Includes table of receptacles, lighting, and equipment with calculations.

MFA PANEL SCHEDULE 25-Sep-07. Panel 246, location ELECT. F115, connected load amps 44. Includes table of receptacles, lighting, and equipment with calculations.

MFA PANEL SCHEDULE 25-Sep-07. Panel 247, location ELECT. E123, connected load amps 69. Includes table of receptacles, lighting, and equipment with calculations.

MFA PANEL SCHEDULE 25-Sep-07. Panel 248, location STORAGE E105, connected load amps 58. Includes table of receptacles, lighting, and equipment with calculations.

MFA PANEL SCHEDULE 25-Sep-07. Panel 249, location ELECT. E118, connected load amps 75. Includes table of receptacles, lighting, and equipment with calculations.

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ARCHITECTURE • INTERIORS • PLANNING

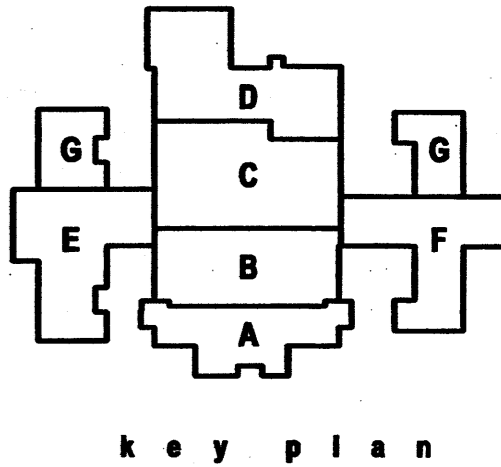
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key plan

phase | Bid Package No. 2

date | January 3, 2008

ADD | October 17, 2007

ADD | October 26, 2007

ADD | November 2, 2007

ADD | November 5, 2007

project # | 06022

Panel Schedules

E3.15

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MFA PANEL SCHEDULE 25-Sep-07
panel 2A10 location OFFICE #115
connected load amps 228
calculated load amps 151
table with columns: panel, mounting, location, bus & main, connected load amps, calculated load amps, service, and various electrical codes.

MFA PANEL SCHEDULE 25-Sep-07
panel 2B1 location OFFICE #115
connected load amps 85
calculated load amps 71
table with columns: panel, mounting, location, bus & main, connected load amps, calculated load amps, service, and various electrical codes.

MFA PANEL SCHEDULE 25-Sep-07
panel 2B2 location OFFICE #115
connected load amps 22
calculated load amps 22
table with columns: panel, mounting, location, bus & main, connected load amps, calculated load amps, service, and various electrical codes.

MFA PANEL SCHEDULE 25-Sep-07
panel 2B3 location SCIENCE H109
connected load amps 86
calculated load amps 59
table with columns: panel, mounting, location, bus & main, connected load amps, calculated load amps, service, and various electrical codes.

MFA PANEL SCHEDULE 25-Sep-07
panel 2B4 location SCIENCE H109
connected load amps 83
calculated load amps 59
table with columns: panel, mounting, location, bus & main, connected load amps, calculated load amps, service, and various electrical codes.

MFA PANEL SCHEDULE 25-Sep-07
panel 2B5 location SCIENCE H109
connected load amps 32
calculated load amps 32
table with columns: panel, mounting, location, bus & main, connected load amps, calculated load amps, service, and various electrical codes.

MFA PANEL SCHEDULE 25-Sep-07
panel 2K location KITCHEN B108
connected load amps 93
calculated load amps 75
table with columns: panel, mounting, location, bus & main, connected load amps, calculated load amps, service, and various electrical codes.

MFA PANEL SCHEDULE 25-Sep-07
panel 2K1 location KITCHEN B108
connected load amps 61
calculated load amps 61
table with columns: panel, mounting, location, bus & main, connected load amps, calculated load amps, service, and various electrical codes.

MFA PANEL SCHEDULE 25-Sep-07
panel 2K2 location KITCHEN B108
connected load amps 69
calculated load amps 70
table with columns: panel, mounting, location, bus & main, connected load amps, calculated load amps, service, and various electrical codes.



ARCHITECTURE • INTERIORS • PLANNING

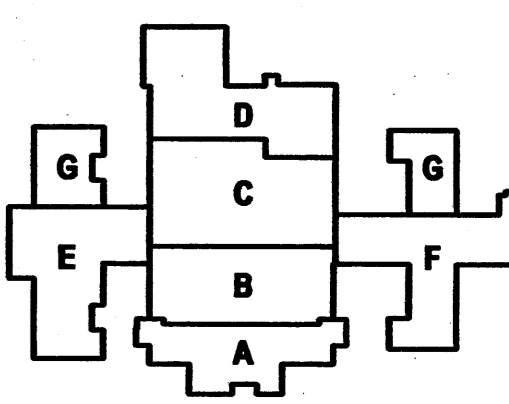
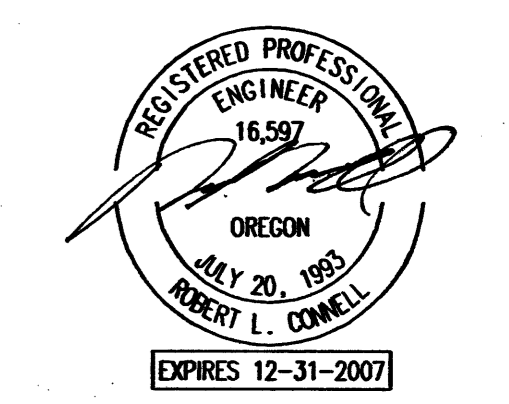
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key plan

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date | January 3, 2008

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ADD | November 5, 2007

project # | 06022

Panel Schedules

E3.16

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MFA PANEL SCHEDULE 25-Sep-07
panel 252 location IDF E118
connected load amps 24
calculated load amps 24
208Y/120V service

MFA PANEL SCHEDULE 25-Sep-07
panel 4C location ELEC. F115
connected load amps 74
calculated load amps 84
480Y/277V service

MFA PANEL SCHEDULE 25-Sep-07
panel 4K location BOLLER B108
connected load amps 38
calculated load amps 40
480Y/277V service

MFA PANEL SCHEDULE 25-Sep-07
panel 4T location TENNIS COURTS
connected load amps 28
calculated load amps 34
480Y/277V service

MFA PANEL SCHEDULE 25-Sep-07
panel 251 location IDF F116
connected load amps 18
calculated load amps 18
208Y/120V service

MFA PANEL SCHEDULE 25-Sep-07
panel 4B location KITCHEN B108
connected load amps 172
calculated load amps 183
480Y/277V service

MFA PANEL SCHEDULE 25-Sep-07
panel 4E location BOLLER C103
connected load amps 23
calculated load amps 28
480Y/277V service

MFA PANEL SCHEDULE 16-Oct-07
panel 4M location BOLLER C103
connected load amps 176
calculated load amps 181
480Y/277V service

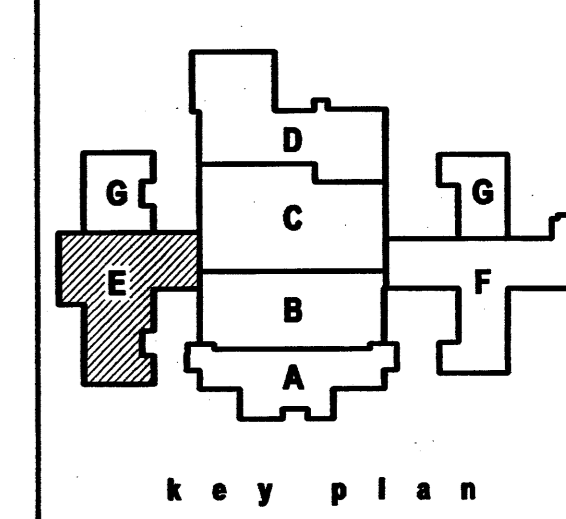
MFA PANEL SCHEDULE 25-Sep-07
panel 25 location IDF B118
connected load amps 177
calculated load amps 174
208Y/120V service

PER RFI # 083 (REVISED 25 panel only)

MFA PANEL SCHEDULE 25-Sep-07
panel 4A location ELEC. C104
connected load amps 30
calculated load amps 37
480Y/277V service

MFA PANEL SCHEDULE 25-Sep-07
panel 4O location ELEC. E123
connected load amps 73
calculated load amps 88
480Y/277V service

MFA PANEL SCHEDULE 25-Sep-07
panel 4L location BOLLER C103
connected load amps 176
calculated load amps 181
480Y/277V service



phase | Bid Package No. 2

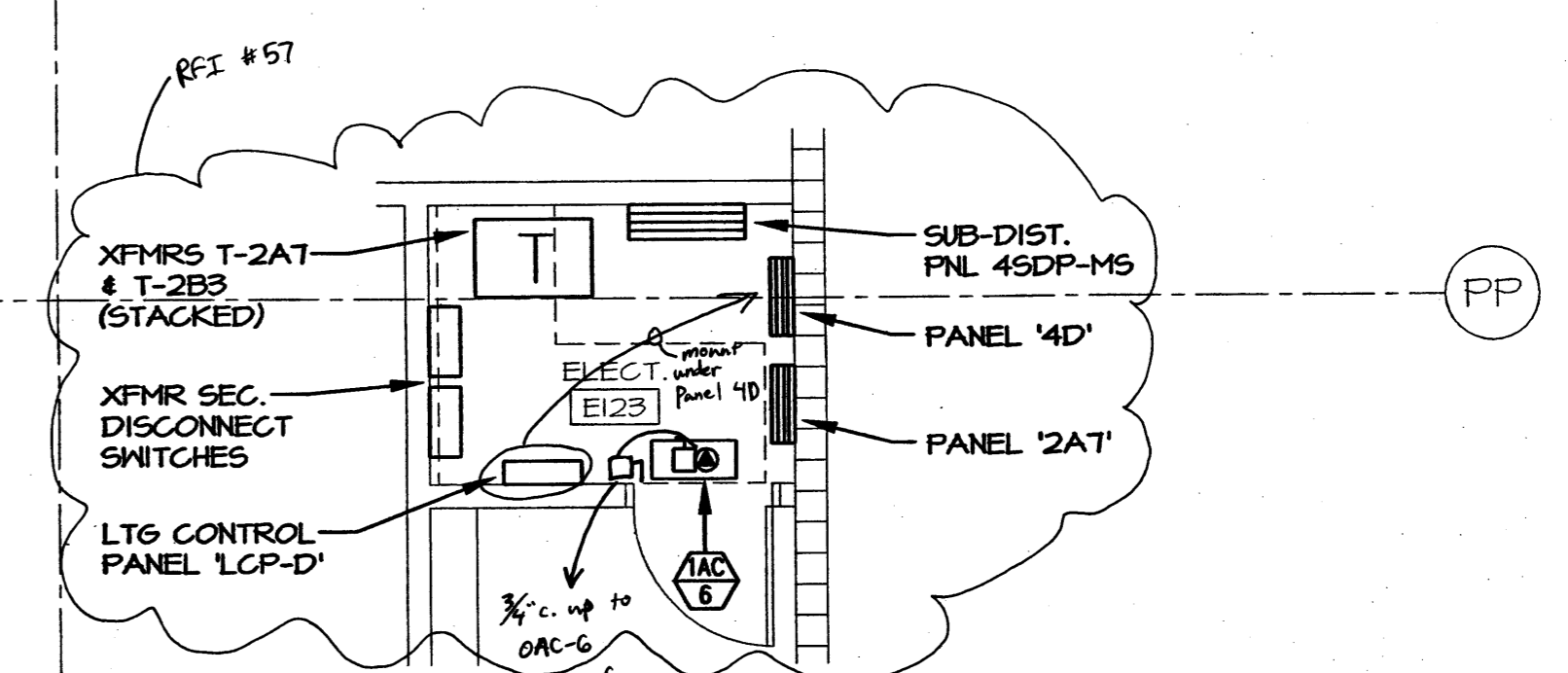
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ADD	October 17, 2007
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ADD	November 2, 2007
ADD	November 5, 2007

project # | 06022

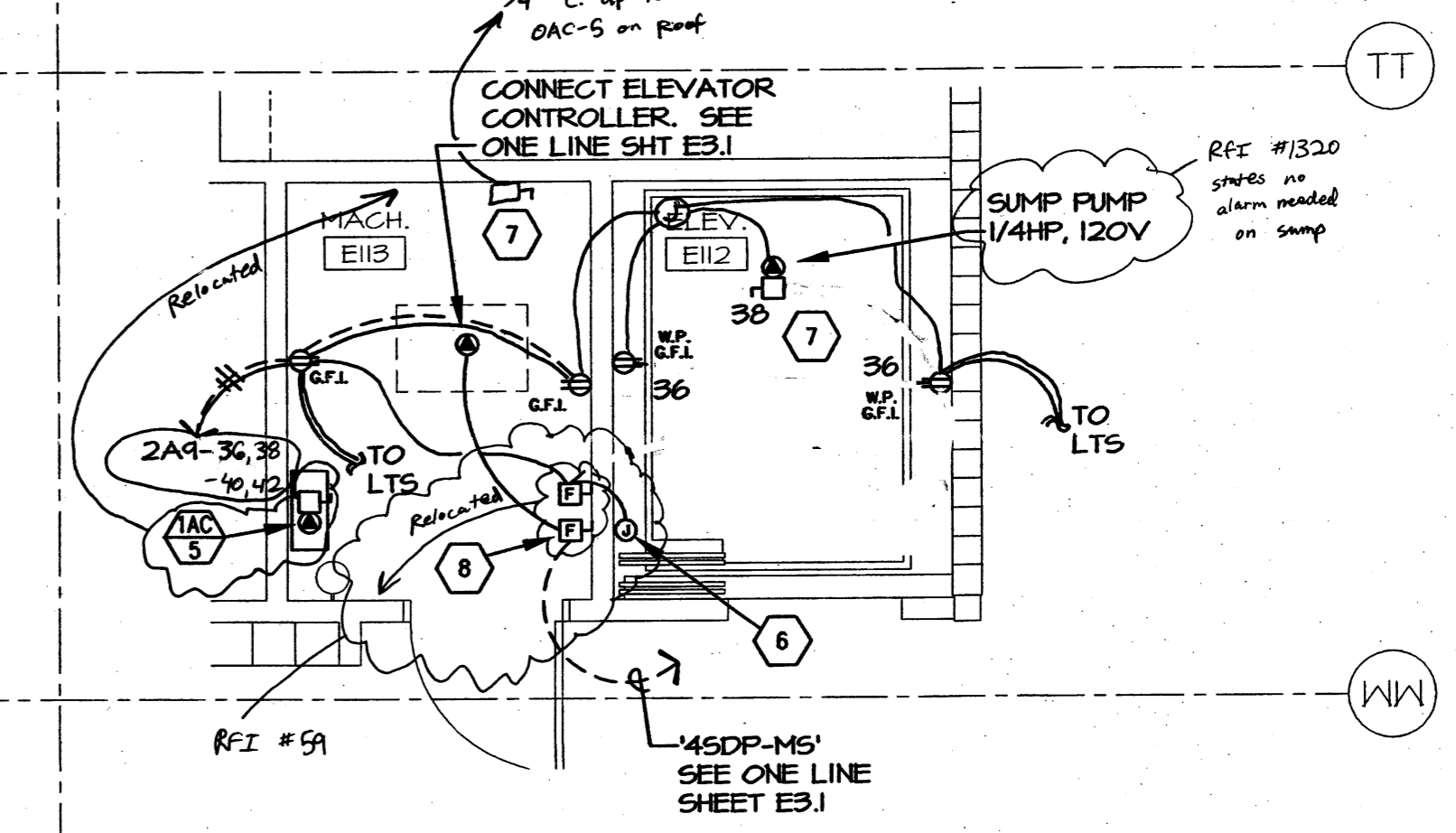
Power Plan
Sector "E"
E3.7

- GENERAL NOTES**
- FOR REASONS OF CLARITY, TICK MARKS (CONDUCTOR DESIGNATIONS) MAY NOT APPEAR ON THIS DRAWING. CONTRACTOR IS TO PROVIDE CONDUCTORS AS REQUIRED TO ACCOMPLISH THE INTENT OF THE DWGS.
 - COORDINATE EXACT LOCATIONS OF ALL WIRING DEVICES WITH ARCH. INTERIOR ELEVATIONS AND CASEWORK PRIOR TO ROUGH-IN.
 - MAINTAIN FIRE RATINGS WHERE BACKBOXES OR OTHER DEVICES ARE INSTALLED IN FIRE RATED WALLS OR CEILING. COORDINATE WITH ARCHITECTURAL PLANS.
 - ALL RACEWAYS ARE TO BE CONCEALED IN WALLS AND CL6 CAVITIES U.O.N. ALL WIRING DEVICES AND SIMILAR ITEMS ARE TO BE FLUSH MOUNTED U.O.N. PVC CONDUIT IS APPROVED FOR USE WHEN CONCEALED INSIDE CMU WALLS, COORDINATE WITH ARCH PLANS.

- PLAN NOTES**
- TWO COMPARTMENT, STAMPED STEEL, FULLY ADJUSTABLE, CONCEALED SERVICE FLUSH FLOOR BOX. 18" X 6.5" X 3.5", SUITABLE FOR ON-GRADE APPLICATION. PROVIDE WITH DUPLEX RECEPTACLE AND PANEL AS REQUIRED FOR DATA DEVICES. WIREMOLD #RFB2-06. COVER TO BE 1.75" X 6.5" FLANGED TYPE, DIECAST ALUMINUM WITH BRUSHED ALUMINUM FINISH, INSERT AREA IN LID FOR CARPET CUTOUT. WIREMOLD #R30CTCAL.
 - FOUR COMPARTMENT, CAST IRON, FULLY ADJUSTABLE, CONCEALED SERVICE FLUSH FLOOR BOX. 14.5" X 12" X 3.5", SUITABLE FOR ON-GRADE APPLICATION. PROVIDE WITH DUPLEX RECEPTACLE AND PANEL AS REQUIRED FOR DATA DEVICES. WIREMOLD #RFB4-GH-1. COVER TO BE 1.75" X 6.5" FLANGED TYPE, DIECAST ALUMINUM WITH BRUSHED ALUMINUM FINISH, INSERT AREA IN LID FOR CARPET CUTOUT. WIREMOLD #R30CTCAL.
 - TELECOMMUNICATIONS BONDING BUS BAR. COORDINATE WITH DIV. IT. PROVIDE #10 CU GROUND CONDUCTOR TO TMGB IN MDF BUS, SEE SHEET E3.4. VERIFY EXACT BUS BAR LOCATION WITH DIV. IT.
 - PROVIDE 30A, 208V, 1ph CONNECTION FOR UPS. MOUNT AT 102" AFF. COORDINATE WITH DIV. IT. (Cap off for future use per R12 2/02)
 - RECEPTACLE LOCATED IN CABINET FOR AV EQUIPMENT. VERIFY MTG HEIGHT.
 - JUNCTION BOX FOR ELEVATOR CAR LIGHTS AND FAN.
 - VERIFY EXACT LOCATION AND CONNECTION REQMTS FOR ALL EQUIPMENT IN ELEVATOR EQUIPMENT ROOM AND FIT WITH ELEVATOR INSTALLER PRIOR TO ROUGH-IN.
 - PROVIDE POWER MODULE SWITCH FOR AUTOMATIC DISCONNECT OF ELEVATOR POWER SUPPLY UPON OR PRIOR TO ACTIVATION OF SPRINKLERS IN HOISTWAY OR MACHINE ROOM PER ELEVATOR CODE. SEE SPECIFICATIONS.
 - CONNECT FEATURE WALL CLOCK CONTROLLER - 120V. PROVIDE WIRING TO CLOCK AS REQUIRED BY MANUFACTURER.
 - CONNECT COILING DOOR OPERATOR. MOUNT AND WIRE ASSOCIATED CONTROLS PROVIDED WITH UNIT. VERIFY CONTROLS LOCATION AND CONNECTION REQMTS.
 - MOUNT AND CONNECT 'EMERGENCY-EXIT PUSH BUTTON STATION' SUPPLIED WITH COILING GRILLE.
 - PHOTOVOLTAIC PANELS AND EQUIPMENT IS FURNISHED AND INSTALLED BY THE BONNEVILLE ENVIRONMENTAL FOUNDATION. SOLAR PANELS TO BE LOCATED IN THE MIDDLE SCHOOL COURTYARD - EXACT LOCN TO BE DETERMINED. THIS CONTRACTOR TO PROVIDE 2" C. FROM PV EQUIPMENT TO SOLAR PANEL LOCN.
 - CONNECT ELECTRICALLY OPERATED 'GAS SERVICE' SOLENOID VALVE - 50VA, 120V. VERIFY EXACT LOCATION AND CONNECTION REQMTS.
 - PROVIDE RED MUSHROOM HEAD PUSHBUTTON WITH 'KEYED' RESET, LABELLED 'GAS SHUTOFF'. SQUARE 'D' CLASS 9001 TYPE KR' OR EQUAL. CONNECT TO CONTROL GAS SOLENOID VALVE (NOTE 1). MOUNT AT 48" AFF. PROVIDE CIRCUITING PER VALVE MFG.
 - SMOKE DAMPER OR FIRE/SMOKE DAMPER ELECTRICAL CONNECTION TYPICAL. VERIFY EXACT LOCATION AND QUANTITIES WITH DIV. IS.
 - CONNECT TO PANEL VIA AIR HANDLER DAMPER RELAY(S). SEE DETAIL #2/E4.2 FOR CONTROL DIAGRAM. PROVIDE CONDUCTORS AS REQD.
 - COORDINATE EXACT LOCATION OF MECH. CONTROL PANEL WITH DIV. IS.



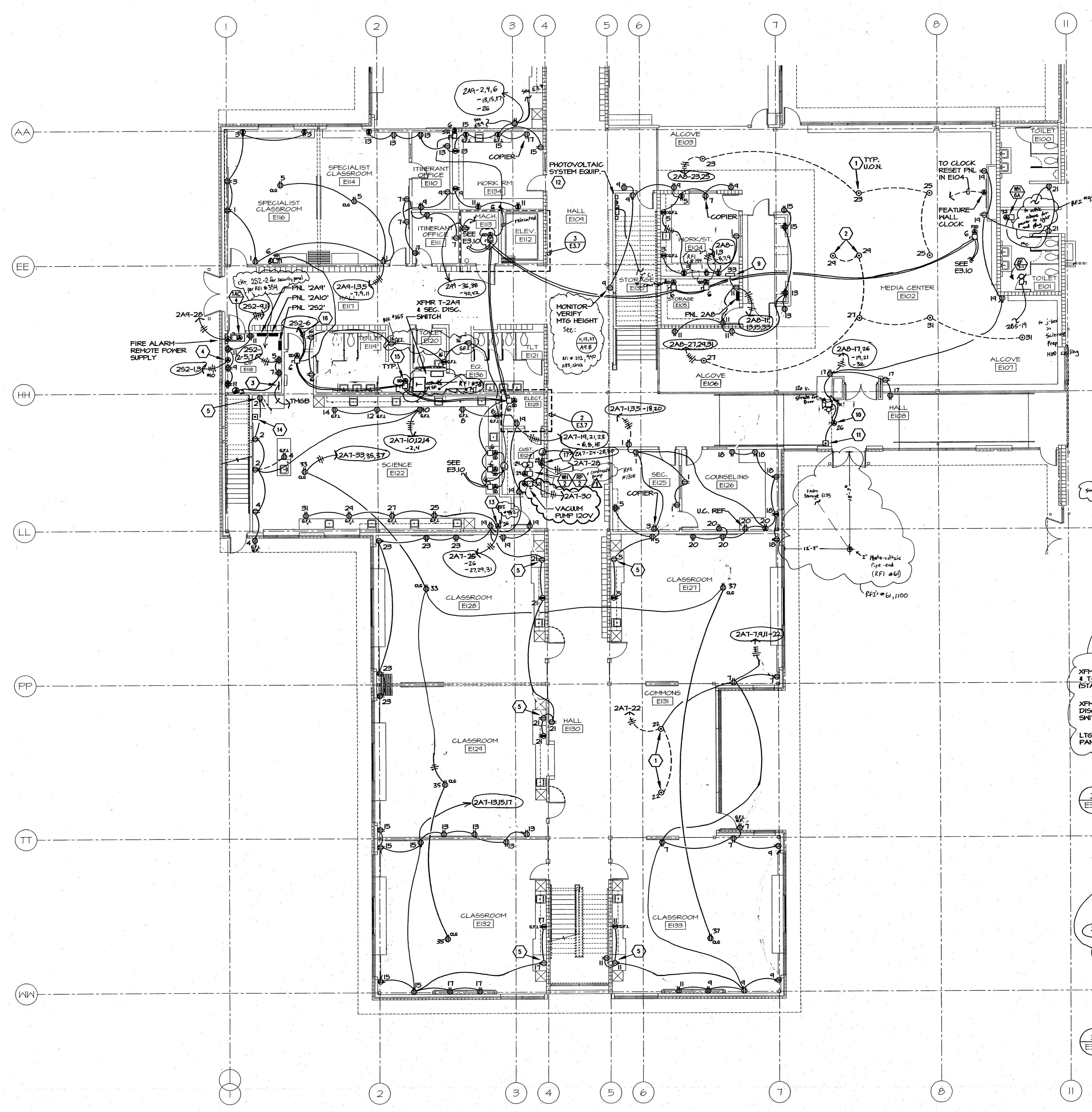
ENLARGED ELECTRIC ROOM
E3.7 SCALE: 1/4" = 1'-0"



ENLARGED ELEV. MACH ROOM
E3.7 SCALE: 1/4" = 1'-0"

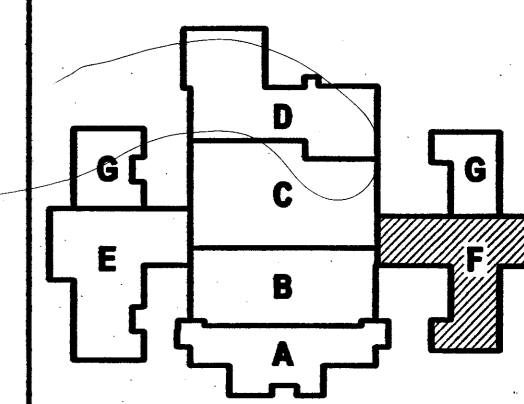
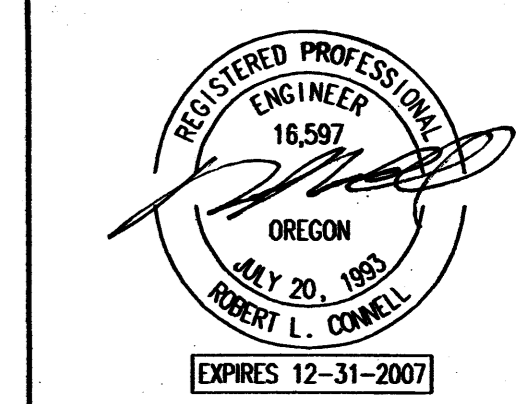
POWER PLAN - SECTOR "E"
E3.7 SCALE: 1/8" = 1'-0"

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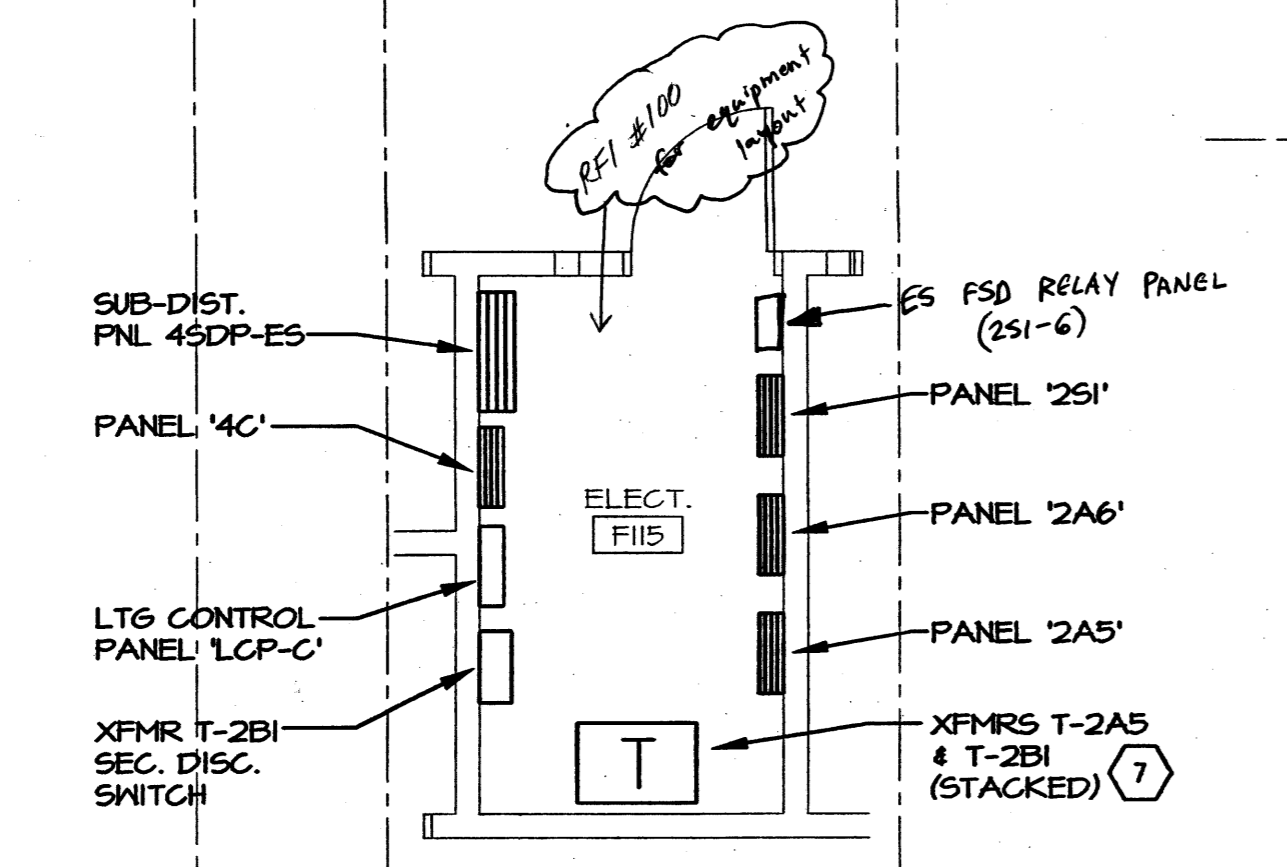
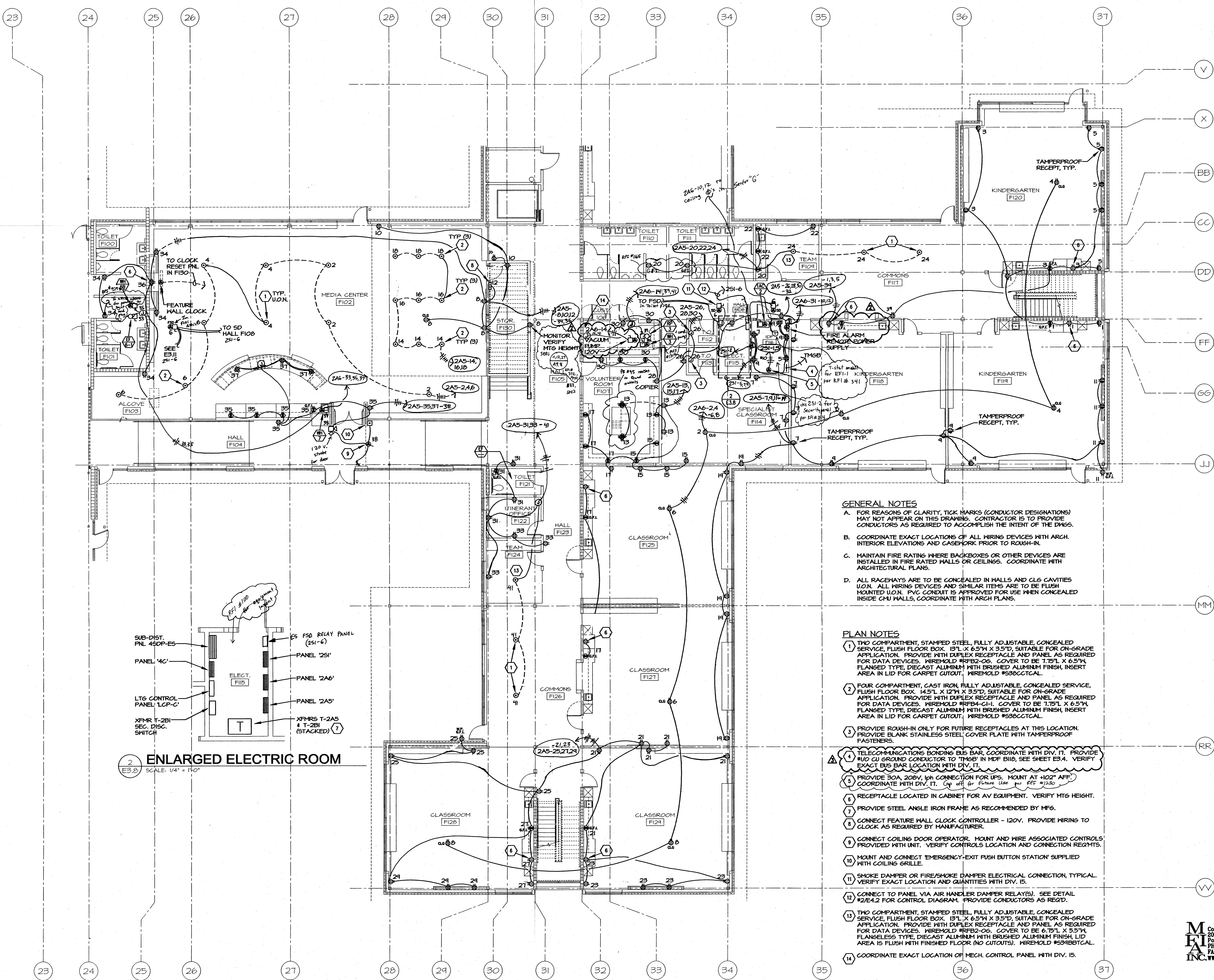
phase | Bid Package No. 2

date	January 3, 2008
ADD	October 17, 2007
ADD	October 26, 2007
ADD	November 2, 2007
ADD	November 5, 2007

project # | 06022

Power Plan
 Sector "F"

E3.8



2 ENLARGED ELECTRIC ROOM
 E3.8 SCALE: 1/4" = 1'-0"

- GENERAL NOTES**
- FOR REASONS OF CLARITY, TICK MARKS (CONDUCTOR DESIGNATIONS) MAY NOT APPEAR ON THIS DRAWING. CONTRACTOR IS TO PROVIDE CONDUCTORS AS REQUIRED TO ACCOMPLISH THE INTENT OF THE DWGS.
 - COORDINATE EXACT LOCATIONS OF ALL WIRING DEVICES WITH ARCH. INTERIOR ELEVATIONS AND CASEWORK PRIOR TO ROUGH-IN.
 - MAINTAIN FIRE RATING WHERE BACKBOXES OR OTHER DEVICES ARE INSTALLED IN FIRE RATED WALLS OR CEILINGS. COORDINATE WITH ARCHITECTURAL PLANS.
 - ALL RACEWAYS ARE TO BE CONCEALED IN WALLS AND CLG CAVITIES U.O.N. ALL WIRING DEVICES AND SIMILAR ITEMS ARE TO BE FLUSH MOUNTED U.O.N. PVC CONDUIT IS APPROVED FOR USE WHEN CONCEALED INSIDE CMU WALLS, COORDINATE WITH ARCH PLANS.

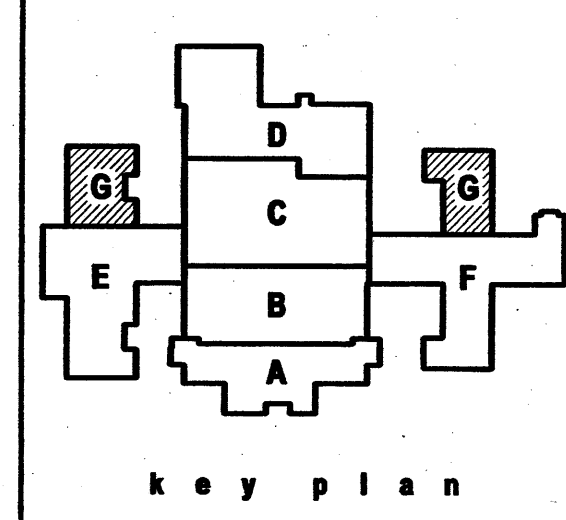
- PLAN NOTES**
- TWO COMPARTMENT, STAMPED STEEL, FULLY ADJUSTABLE, CONCEALED SERVICE, FLUSH FLOOR BOX. 13" L X 6.5" W X 3.5" D, SUITABLE FOR ON-GRADE APPLICATION. PROVIDE WITH DUPLEX RECEPTACLE AND PANEL AS REQUIRED FOR DATA DEVICES. WIREMOLD #R82-06. COVER TO BE 1.75" L X 6.5" W, FLANGED TYPE, DIECAST ALUMINUM WITH BRUSHED ALUMINUM FINISH, INSERT AREA IN LID FOR CARPET CUTOUT. WIREMOLD #538CCTCAL.
 - FOUR COMPARTMENT, CAST IRON, FULLY ADJUSTABLE, CONCEALED SERVICE, FLUSH FLOOR BOX. 14.5" L X 12" W X 3.5" D, SUITABLE FOR ON-GRADE APPLICATION. PROVIDE WITH DUPLEX RECEPTACLE AND PANEL AS REQUIRED FOR DATA DEVICES. WIREMOLD #R82-06. COVER TO BE 1.75" L X 6.5" W, FLANGED TYPE, DIECAST ALUMINUM WITH BRUSHED ALUMINUM FINISH, INSERT AREA IN LID FOR CARPET CUTOUT. WIREMOLD #538CCTCAL.
 - PROVIDE ROUGH-IN ONLY FOR FUTURE RECEPTACLES AT THIS LOCATION. PROVIDE BLANK STAINLESS STEEL COVER PLATE WITH TAMPERPROOF FASTENERS.
 - TELECOMMUNICATIONS BONDING BUS BAR, COORDINATE WITH DIV. IT. PROVIDE #10 CU GROUND CONDUCTOR TO "TMB" IN MDF BLDG, SEE SHEET E3.4. VERIFY EXACT BUS BAR LOCATION WITH DIV. IT.
 - PROVIDE 30A, 208V, 1ph CONNECTION FOR UPS. MOUNT AT #02" AFF. COORDINATE WITH DIV. IT. Cap off for Future Use per EEP #1230.
 - RECEPTACLE LOCATED IN CABINET FOR AV EQUIPMENT. VERIFY MTG HEIGHT.
 - PROVIDE STEEL ANGLE IRON FRAME AS RECOMMENDED BY MFG.
 - CONNECT FEATURE HALL CLOCK CONTROLLER - 120V. PROVIDE WIRING TO CLOCK AS REQUIRED BY MANUFACTURER.
 - CONNECT COILING DOOR OPERATOR. MOUNT AND WIRE ASSOCIATED CONTROLS PROVIDED WITH UNIT. VERIFY CONTROLS LOCATION AND CONNECTION REQMTS.
 - MOUNT AND CONNECT EMERGENCY-EXIT PUSH BUTTON STATION SUPPLIED WITH COILING GRILLE.
 - SMOKE DAMPER OR FIRE/SMOKE DAMPER ELECTRICAL CONNECTION, TYPICAL. VERIFY EXACT LOCATION AND QUANTITIES WITH DIV. IS.
 - CONNECT TO PANEL VIA AIR HANDLER DAMPER RELAY(S). SEE DETAIL #2/E4.2 FOR CONTROL DIAGRAM. PROVIDE CONDUCTORS AS REQD.
 - TWO COMPARTMENT, STAMPED STEEL, FULLY ADJUSTABLE, CONCEALED SERVICE, FLUSH FLOOR BOX. 13" L X 6.5" W X 3.5" D, SUITABLE FOR ON-GRADE APPLICATION. PROVIDE WITH DUPLEX RECEPTACLE AND PANEL AS REQUIRED FOR DATA DEVICES. WIREMOLD #R82-06. COVER TO BE 6.15" L X 6.5" W, FLANGELESS TYPE, DIECAST ALUMINUM WITH BRUSHED ALUMINUM FINISH, LID AREA IS FLUSH WITH FINISHED FLOOR (NO CUTOUTS). WIREMOLD #534BBTICAL.
 - COORDINATE EXACT LOCATION OF MECH. CONTROL PANEL WITH DIV. IS.

1 FLOOR PLAN - SECTOR "F"
 E3.8 SCALE: 1/8" = 1'-0"

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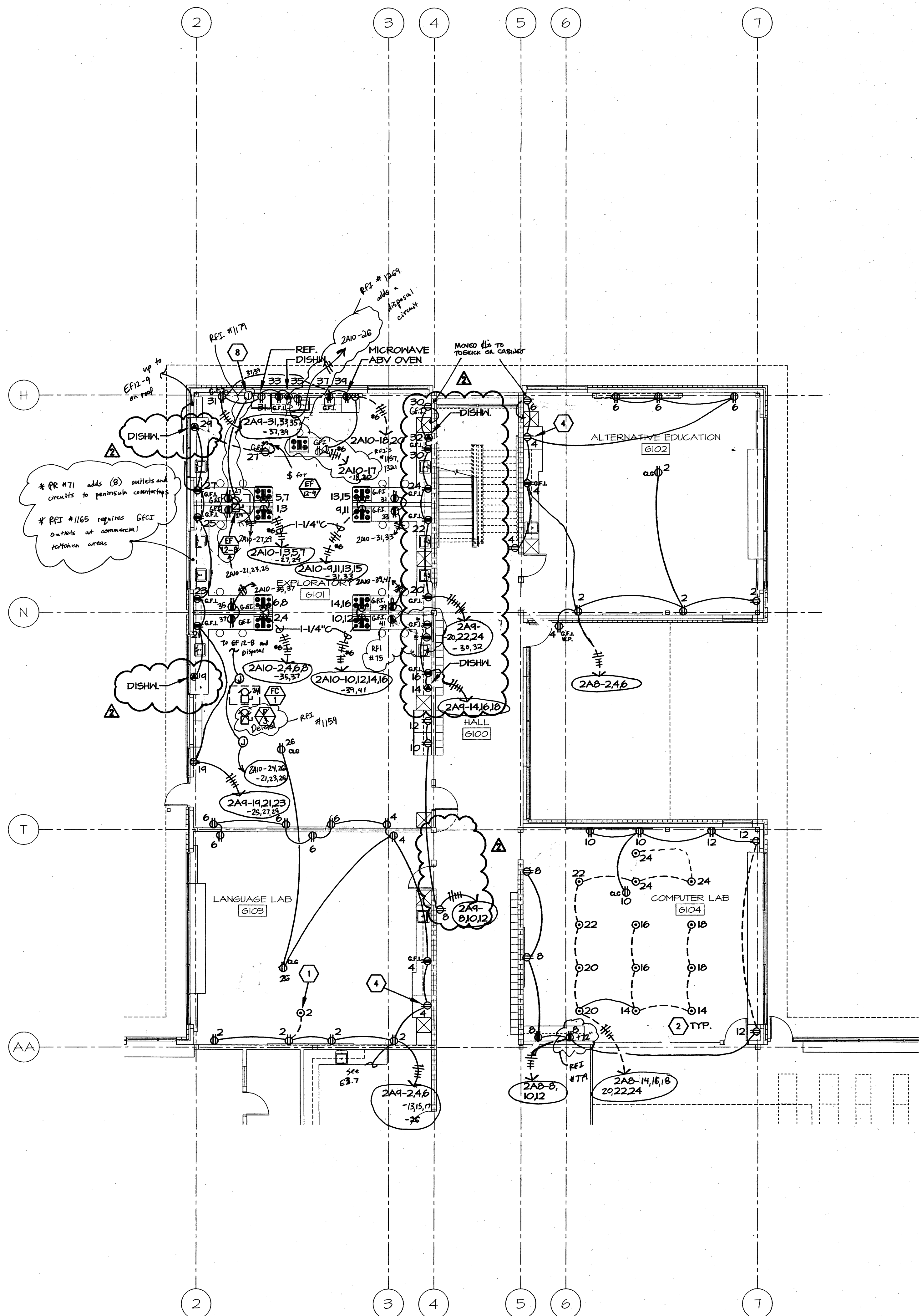


phase	Bid Package No. 2
date	January 3, 2008
ADD	October 17, 2007
ADD	October 26, 2007
ADD	November 2, 2007
ADD	November 5, 2007

project # 06022

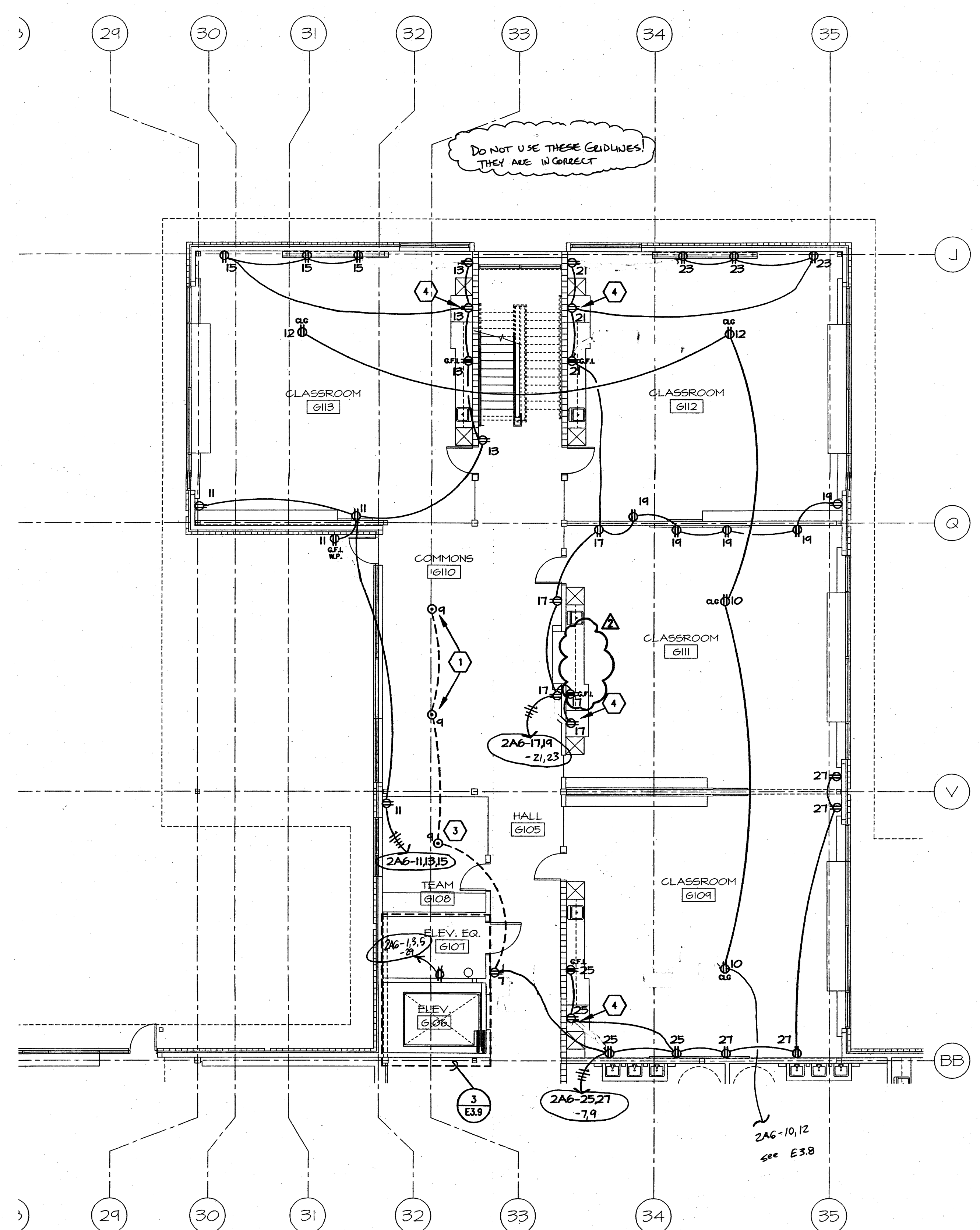
Power Plan
Sector "G"

E3.9



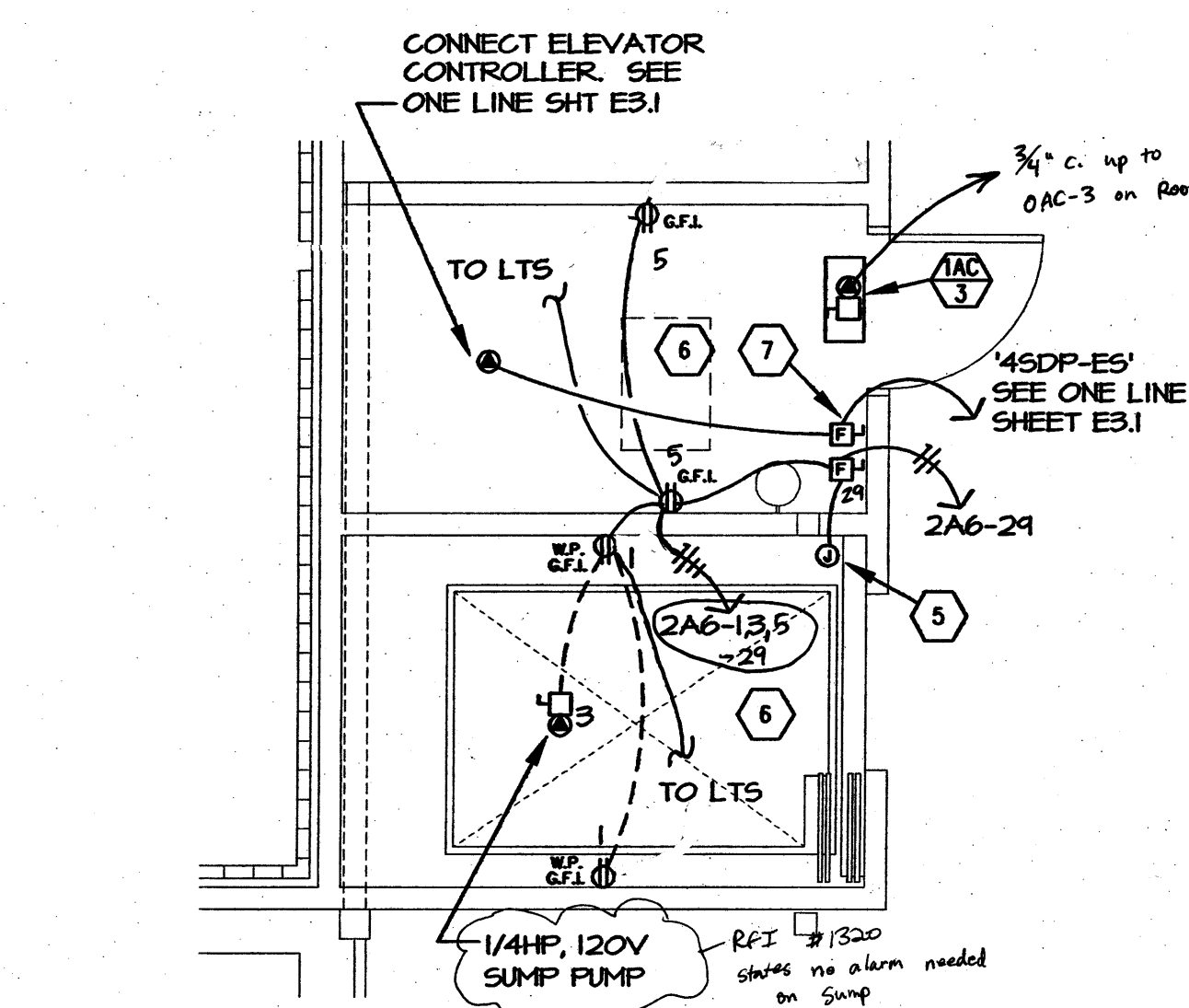
1 POWER PLAN SECTOR "G" - MS SIDE
E3.9 SCALE: 1/8" = 1'-0"

- GENERAL NOTES**
- FOR REASONS OF CLARITY, TICK MARKS (CONDUCTOR DESIGNATIONS) MAY NOT APPEAR ON THIS DRAWING. CONTRACTOR IS TO PROVIDE CONDUCTORS AS REQUIRED TO ACCOMPLISH THE INTENT OF THE DWGS.
 - COORDINATE EXACT LOCATIONS OF ALL WIRING DEVICES WITH ARCH. INTERIOR ELEVATIONS AND CASEWORK PRIOR TO ROUGH-IN.
 - MAINTAIN FIRE RATINGS WHERE BACKBOXES OR OTHER DEVICES ARE INSTALLED IN FIRE RATED WALLS OR CEILINGS. COORDINATE WITH ARCHITECTURAL PLANS.
 - ALL RACEWAYS ARE TO BE CONCEALED IN HALLS AND CLG CAVITIES U.O.N. ALL WIRING DEVICES AND SIMILAR ITEMS ARE TO BE FLUSH MOUNTED U.O.N. PVC CONDUIT IS APPROVED FOR USE WHEN CONCEALED INSIDE CHU HALLS, COORDINATE WITH ARCH PLANS.



2 POWER PLAN - SECTOR "G" - ES SIDE
E3.9 SCALE: 1/8" = 1'-0"

- PLAN NOTES**
- TWO COMPARTMENT, STAMPED STEEL, FULLY ADJUSTABLE, CONCEALED SERVICE, FLUSH FLOOR BOX. 13" L X 6.5" W X 3.5" D, SUITABLE FOR ON-GRADE APPLICATION. PROVIDE WITH DUPLEX RECEPTACLE AND PANEL AS REQUIRED FOR DATA DEVICES. WIREMOLD #RFB2-06. COVER TO BE 1.75" L X 6.5" W, FLANGED TYPE, DIECAST ALUMINUM WITH BRUSHED ALUMINUM FINISH, INSERT AREA IN LID FOR CARPET CUTOUT. WIREMOLD #538CCTCAL.
 - FOUR COMPARTMENT, CAST IRON, FULLY ADJUSTABLE, CONCEALED SERVICE, FLUSH FLOOR BOX. 14.5" L X 12" W X 3.5" D, SUITABLE FOR ON-GRADE APPLICATION. PROVIDE WITH DUPLEX RECEPTACLE AND PANEL AS REQUIRED FOR DATA DEVICES. WIREMOLD #RFB2-06. COVER TO BE 1.75" L X 6.5" W, FLANGED TYPE, DIECAST ALUMINUM WITH BRUSHED ALUMINUM FINISH, INSERT AREA IN LID FOR CARPET CUTOUT. WIREMOLD #538CCTCAL.
 - TWO COMPARTMENT, STAMPED STEEL, FULLY ADJUSTABLE, CONCEALED SERVICE, FLUSH FLOOR BOX. 13" L X 6.5" W X 3.5" D, SUITABLE FOR ON-GRADE APPLICATION. PROVIDE WITH DUPLEX RECEPTACLE AND PANEL AS REQUIRED FOR DATA DEVICES. WIREMOLD #RFB2-06. COVER TO BE 1.75" L X 6.5" W, FLANGELESS TYPE, DIECAST ALUMINUM WITH BRUSHED ALUMINUM FINISH, LID AREA IS FLUSH WITH FINISHED FLOOR (NO CUTOUTS). WIREMOLD #538BCTCAL.
 - RECEPTACLE LOCATED IN CABINET FOR AV EQUIPMENT. VERIFY MTG HEIGHT.
 - JUNCTION BOX FOR ELEVATOR CAR LIGHTS AND FAN.
 - VERIFY EXACT LOCATION AND CONNECTION REGIMTS FOR ALL EQUIPMENT IN ELEVATOR EQUIPMENT ROOM AND PIT WITH ELEVATOR INSTALLER PRIOR TO ROUGH-IN.
 - PROVIDE POWER MODULE SWITCH FOR AUTOMATIC DISCONNECT OF ELEVATOR POWER SUPPLY UPON OR PRIOR TO ACTIVATION OF SPRINKLERS IN HOISTWAY OR MACHINE ROOM PER ELEVATOR CODE. SEE SPECIFICATIONS.
 - LABEL SWITCH EXHAUST FAN. VERIFY EXACT LOCATION WITH ARCHITECT AND DIV. 15. Changed to VFB and 5-gauge motor per REF #117A. Switch location was moved off as this case is under HVAC control.

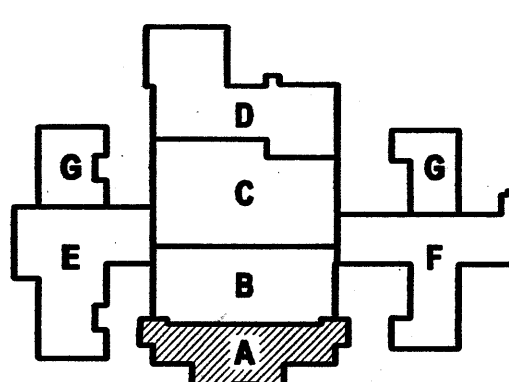
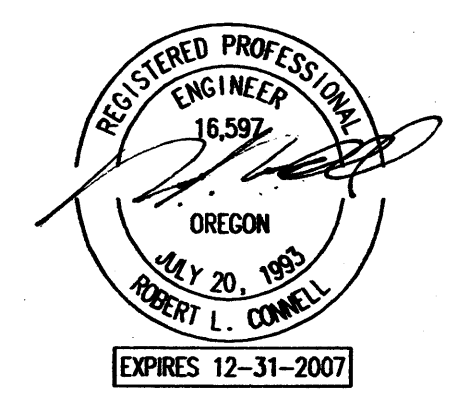


3 ENLARGED ELEV. MACH ROOM
E3.9 SCALE: 1/4" = 1'-0"

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key plan

phase | Bid Package No. 2

date | January 3, 2008

ADD | October 17, 2007

ADD | October 26, 2007

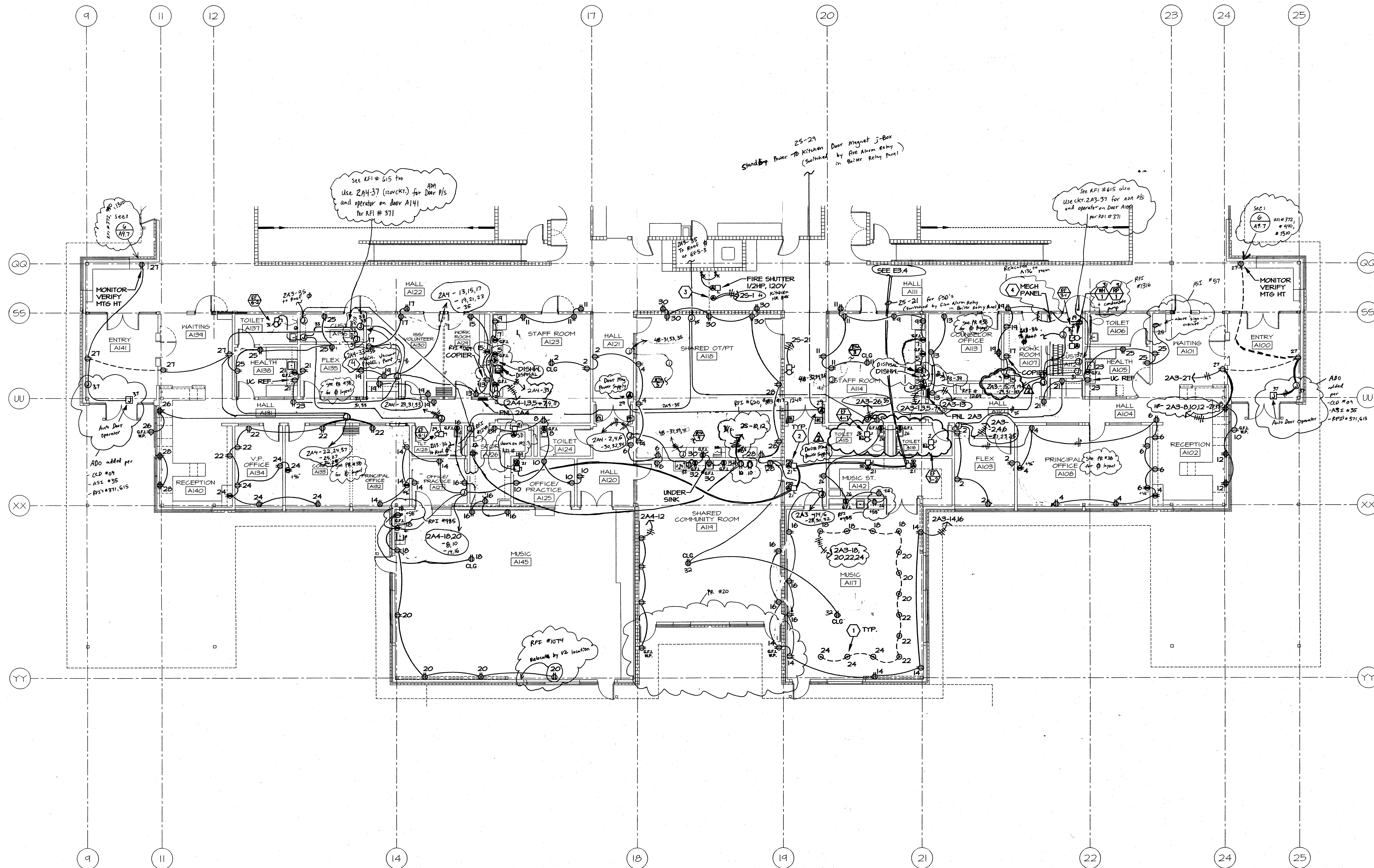
ADD | November 2, 2007

ADD | November 5, 2007

project # | 06022

Power Plan
Sector "A"

E3.3



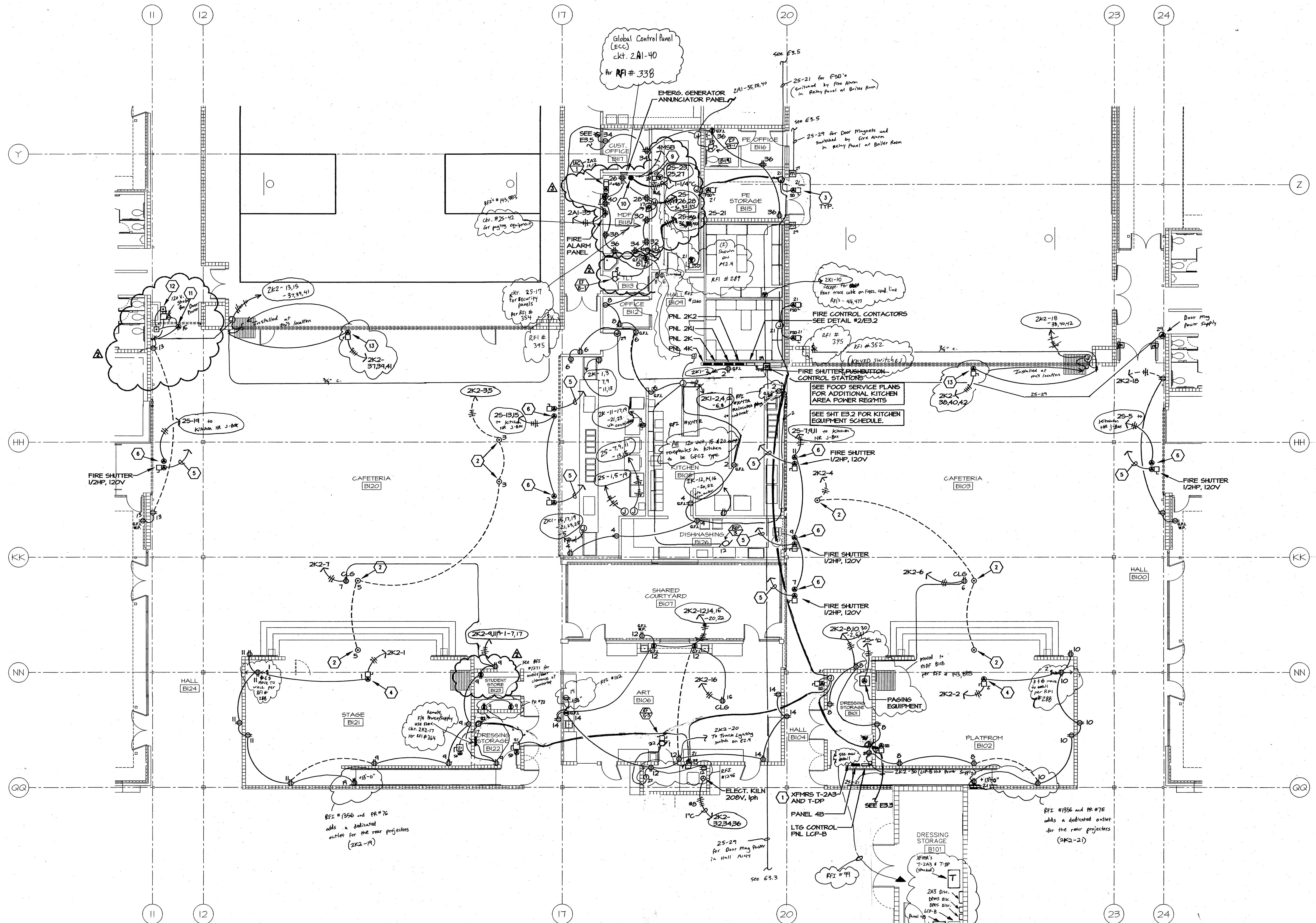
GENERAL NOTES

- FOR REASONS OF CLARITY, TICK MARKS (CONDUCTOR DESIGNATIONS) MAY NOT APPEAR ON THIS DRAWING. CONTRACTOR IS TO PROVIDE CONDUCTORS AS REQUIRED TO ACCOMPLISH THE INTENT OF THE DWGS.
- COORDINATE EXACT LOCATIONS OF ALL WIRING DEVICES WITH ARCH. INTERIOR ELEVATIONS AND CASEWORK PRIOR TO ROUGH-IN.
- MAINTAIN FIRE RATINGS WHERE BACKBOXES OR OTHER DEVICES ARE INSTALLED IN FIRE RATED WALLS OR CEILING. COORDINATE WITH ARCHITECTURAL PLANS.
- ALL RACEWAYS ARE TO BE CONCEALED IN WALLS AND CLG CAVITIES U.O.N. ALL WIRING DEVICES AND SIMILAR ITEMS ARE TO BE FLUSH MOUNTED U.O.N. PVC CONDUIT IS APPROVED FOR USE WHEN CONCEALED INSIDE CMU WALLS, COORDINATE WITH ARCH PLANS.

PLAN NOTES

- THO COMPARTMENT, STAMPED STEEL, FULLY ADJUSTABLE, CONCEALED SERVICE, FLUSH FLOOR BOX. 15" X 6.5" X 3.5", SUITABLE FOR ON-GRADE APPLICATION. PROVIDE WITH DUPLEX RECEPTACLE AND PANEL AS REQUIRED FOR DATA DEVICES. WIREMOLD #RFB2-06. COVER TO BE 1.75" X 6.5" FLANGED TYPE, DIECAST ALUMINUM WITH BRUSHED ALUMINUM FINISH, INSERT AREA IN LID FOR CARPET CUTOUT. WIREMOLD #530GCTCAL.
- SMOKE DAMPER OR FIRE SMOKE DAMPER ELECTRICAL CONNECTION, TYPICAL. VERIFY EXACT LOCATION AND QUANTITIES WITH DIV. 15.
- PROVIDE 120V CIRCUIT FOR 'CONTROL WIRING' AT FIRE SHUTTER PANEL. VERIFY REQ'T WITH EQUIPMENT SUPPLIER, DELETE CIRCUIT IF NOT REQ'D.
- COORDINATE EXACT LOCATION OF MECH. CONTROL PANEL WITH DIV. 15.

POWER PLAN - SECTOR "A"
E3.3 SCALE: 1/8" = 1'-0"M
E
A
I
N
C.
Consulting Engineers
2007 S.E. Ash St.
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FAX: (503) 234-0677
www.mfia-eng.com



PLAN NOTES

1. XPFR T-2A3 TO BE TRAPEZE HUNG FROM CEILING STRUCTURE ABOVE. PROVIDE UNISTRUT FRAME AS RECOMMENDED BY MFG. PROVIDE SEISMIC BRACING PER IBC REQMTS.
2. TWO COMPARTMENT, STAMPED STEEL, FULLY ADJUSTABLE, CONCEALED SERVICE, FLUSH FLOOR BOX. 18" L X 6.5" W X 3.5" D, SUITABLE FOR ON-GRADE APPLICATION. PROVIDE WITH DUPLEX RECEPTACLE AND PANEL AS REQUIRED FOR DATA DEVICES. WIREMOLD #RFB2-06. COVER TO BE 6.75" L X 5.5" W, FLANGELESS TYPE, DIECAST ALUMINUM WITH BRUSHED ALUMINUM FINISH, LID AREA IS FLUSH WITH FINISHED FLOOR (NO CUTOUTS). WIREMOLD #594BETICAL.
3. SMOKE DAMPER OR FIRE/SMOKE DAMPER ELECTRICAL CONNECTION TYPICAL. VERIFY EXACT LOCATIONS AND QUANTITIES WITH DIV. 15.
4. CONNECT MOTORIZED PROJECTION SCREEN AND FLUSH 3-POSITION SWITCH SUPPLIED WITH UNIT. VERIFY REQMTS WITH EQUIPMENT MFG.
5. TO PUSHBUTTON CONTROL STATION LOCATED IN KITCHEN B108. PROVIDE CONDUCTORS AS REQUIRED BY MFG.
6. PROVIDE 120V CIRCUIT FOR CONTROL WIRING AT FIRE SHUTTER PANEL. VERIFY REQMT WITH EQUIPMENT SUPPLIER, DELETE CIRCUIT IF NOT REQD.

8. TELECOMMUNICATIONS MAIN GROUNDING BUS BAR 'TMGB'. COORDINATE WITH DIV. 17. PROVIDE #10 CU GROUND CONDUCTOR TO MAIN SERVICE GROUND AT #455B.
10. PROVIDE 60A, 208V, 3PH CONNECTION FOR UPS. MOUNT AT #46" AFF. COORDINATE WITH DIV. 17. - Cap off for future use per REF #12330
11. CONNECT COILING GRILL OPERATOR. MOUNT AND WIRE ASSOCIATED CONTROLS PROVIDED WITH UNIT. VERIFY CONTROLS LOC AND CONNECTION REQMTS.
12. MOUNT AND CONNECT EMERGENCY-EXIT PUSH BUTTON STATION SUPPLIED WITH COILING GRILLE. (1) ON EACH SIDE OF GRILLE.
13. CONNECT MOTORIZED OPERABLE PANEL AND FLUSH 3-POSITION SWITCH SUPPLIED WITH UNIT - 1/2HP, 208V, 3PH. VERIFY REQMTS WITH EQUIPMENT MFG. VERIFY SWITCH LOCATION WITH ARCHITECT.

GENERAL NOTES

- A. FOR REASONS OF CLARITY, TICK MARKS (CONDUCTOR DESIGNATIONS) MAY NOT APPEAR ON THIS DRAWING. CONTRACTOR IS TO PROVIDE CONDUCTORS AS REQUIRED TO ACCOMPLISH THE INTENT OF THE DWGS.
- B. COORDINATE EXACT LOCATIONS OF ALL WIRING DEVICES WITH ARCH. INTERIOR ELEVATIONS AND CASEWORK PRIOR TO ROUGH-IN.
- C. MAINTAIN FIRE RATINGS WHERE BACKBOXES OR OTHER DEVICES ARE INSTALLED IN FIRE RATED WALLS OR CEILING. COORDINATE WITH ARCHITECTURAL PLANS.
- D. ALL RACEWAYS ARE TO BE CONCEALED IN WALLS AND CLG CAVITIES U.O.N. ALL WIRING DEVICES AND SIMILAR ITEMS ARE TO BE FLUSH MOUNTED U.O.N. PVC CONDUIT IS APPROVED FOR USE WHEN CONCEALED INSIDE CMU WALLS, COORDINATE WITH ARCH. PLANS.

NEW ELEMENTARY AND MIDDLE SCHOOL
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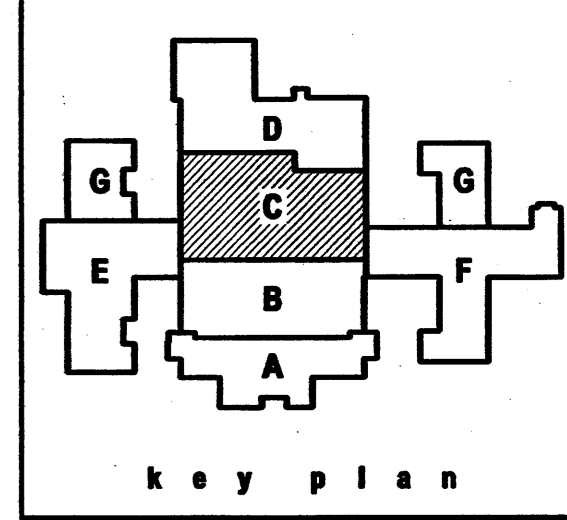
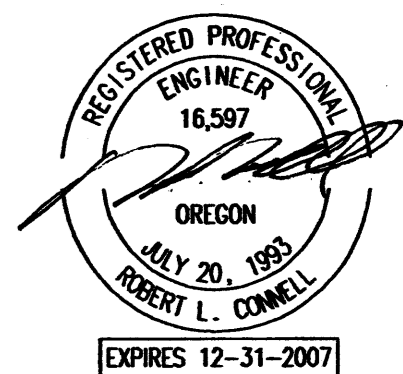
REGISTERED PROFESSIONAL ENGINEER
15507
OREGON
RECEIVED 12-31-2007
ROBERT L. COVINO

key plan

phase	Bid Package No. 2
date	January 3, 2008
ADD	October 17, 2007
ADD	October 26, 2007
ADD	November 2, 2007
ADD	November 5, 2007

project# | 06022
Power Plan
Sector "B"
E3.4

M Consulting Engineers
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INC. WWW.MPEA-ENG.COM

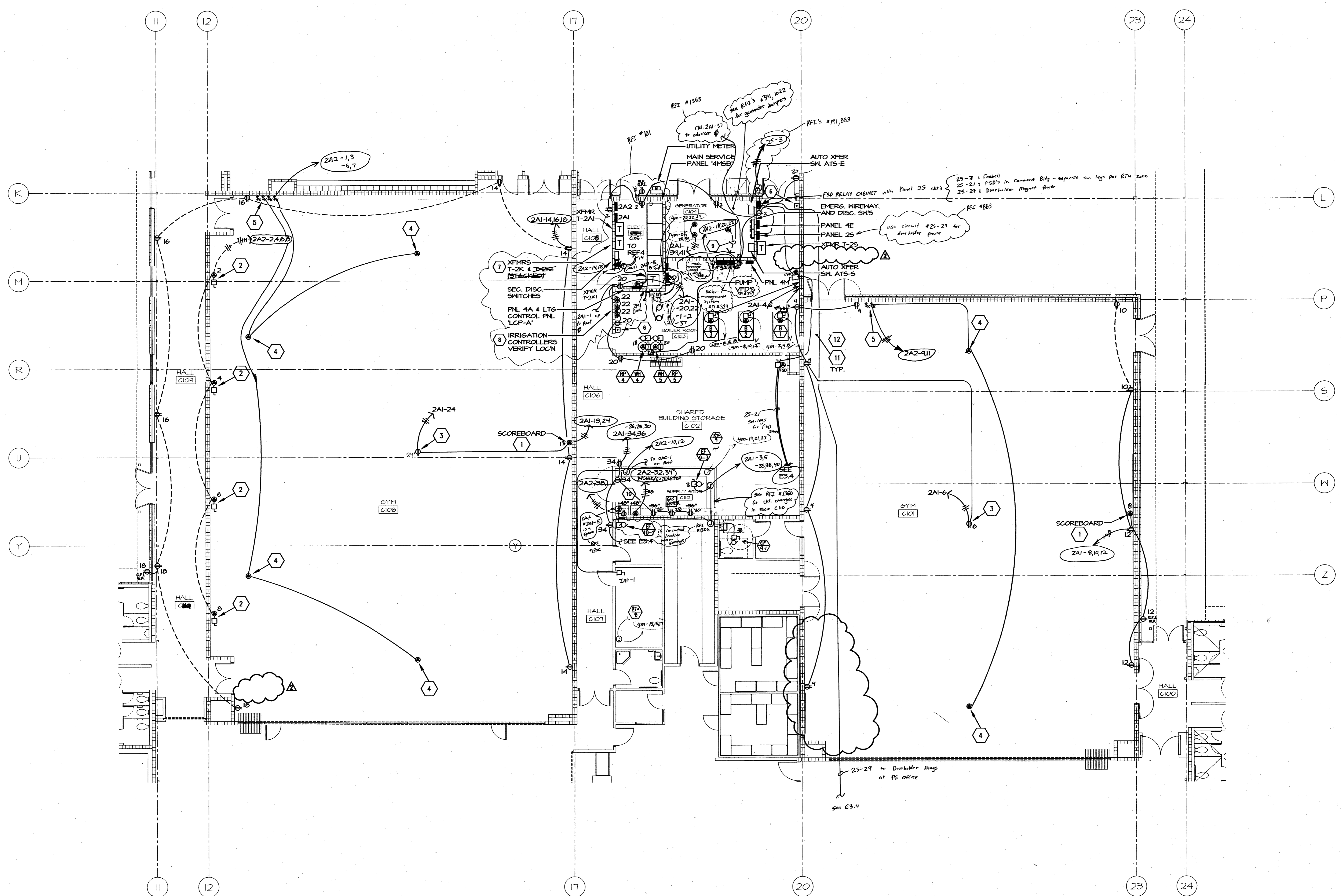
NEW ELEMENTARY AND MIDDLE SCHOOL
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phase | Bid Package No. 2

date	January 3, 2008
ADD	October 17, 2007
ADD	October 26, 2007
ADD	November 2, 2007
ADD	November 5, 2007

project # | 06022

 Power Plan
Sector "C"

E3.5

GENERAL NOTES

- FOR REASONS OF CLARITY, TICK MARKS (CONDUCTOR DESIGNATIONS) MAY NOT APPEAR ON THIS DRAWING. CONTRACTOR IS TO PROVIDE CONDUCTORS AS REQUIRED TO ACCOMPLISH THE INTENT OF THE DWGS.
- COORDINATE EXACT LOCATIONS OF ALL WIRING DEVICES WITH ARCH. INTERIOR ELEVATIONS AND CASEWORK PRIOR TO ROUGH-IN.
- MAINTAIN FIRE RATINGS WHERE BACKBOXES OR OTHER DEVICES ARE INSTALLED IN FIRE RATED WALLS OR CEILINGS. COORDINATE WITH ARCHITECTURAL PLANS.
- ALL RACEWAYS ARE TO BE CONCEALED IN HALLS AND CLG CAVITIES U.O.N. ALL WIRING DEVICES AND SIMILAR ITEMS ARE TO BE FLUSH MOUNTED U.O.N. PVC CONDUIT IS APPROVED FOR USE WHEN CONCEALED INSIDE CMU WALLS, COORDINATE WITH ARCH PLANS.

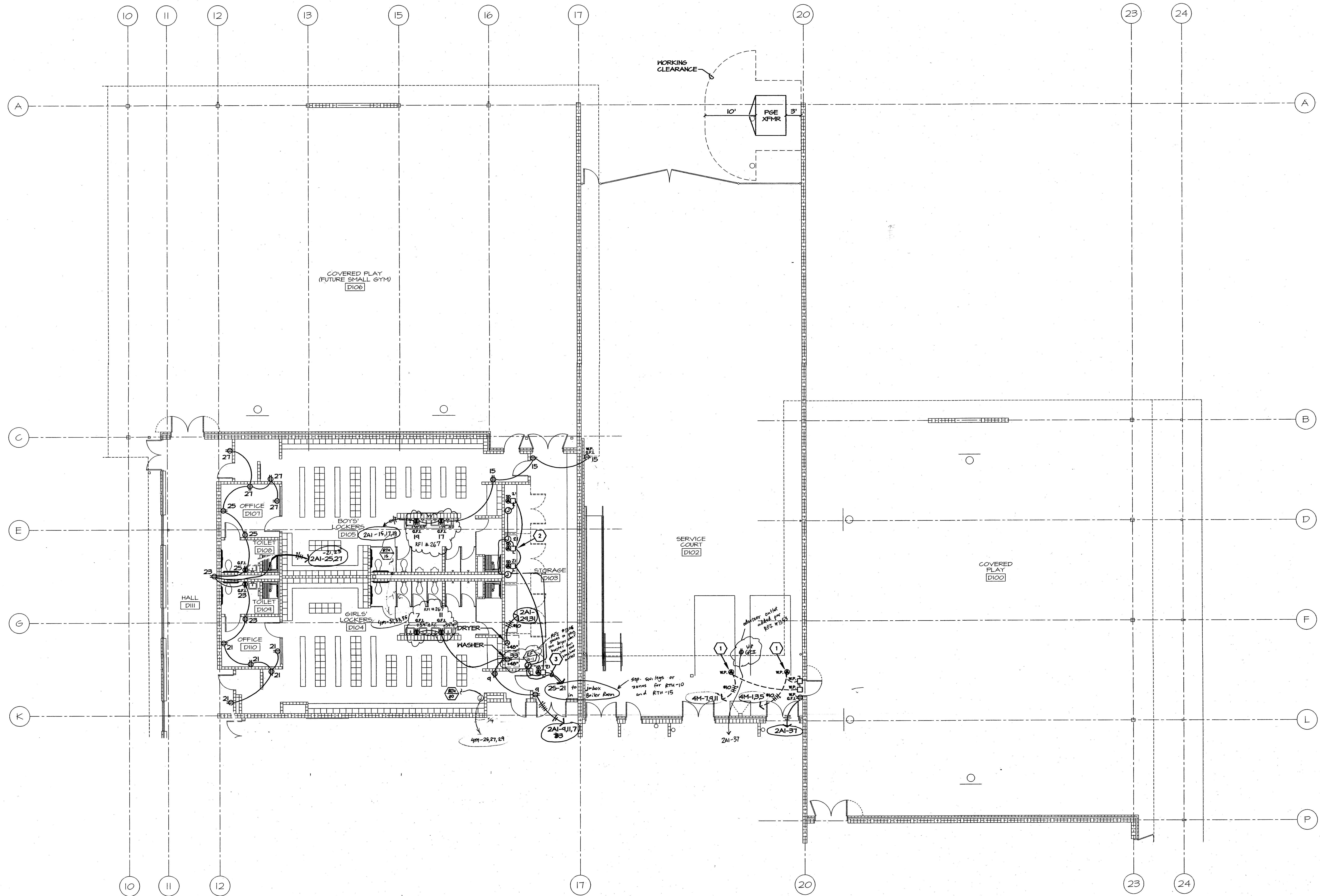
PLAN NOTES

- PROVIDE ROUGH-IN FOR OWNER FURNISHED, OWNER INSTALLED SCOREBOARD. VERIFY ROUGH-IN HEIGHT WITH OWNER'S SUPPLIER.
- CONNECT TELESCOPING MOTORIZED BLEACHERS AND CONTROLS - 120V. VERIFY CONNECTION AND WIRING REQUIREMENTS WITH EQUIP. SUPPLIER PRIOR TO ROUGH-IN. PROVIDE LOCKABLE DISCONNECT SWITCH.
- RECEPTACLE LOCATED AT BOTTOM CHORD OF ROOF BEAM. VERIFY EXACT LOCATION.
- CONNECT ODCI BACKSTOP WINCH MOTOR - 3/4HP, 120V. INCLUDED WITH WINCH IS 6 FT 1/4" POWER CORD AND NEMA 14-20P TWIST LOCK PLUG. ALSO INCLUDED IS NEMA 14-20P TWIST LOCK RECEPTACLE AND B12 PLATE - RECEPTACLE AND COVER INSTALLED BY THIS CONTRACTOR. KEY SWITCH CONTROLLER AND COVER IS INCLUDED AND INSTALLED BY THIS CONTRACTOR. COORDINATE ROUGH-IN HEIGHTS OF RECEPTACLES WITH EQUIPMENT MFG. KEY SWITCHES TO BE GROUPED. SEE NOTE #5.
- FLUSH MOUNTED KEY SWITCH CONTROLLERS FOR BACKSTOPS. PROVIDE WIRING FROM KEY SWITCHES TO BACKSTOPS AS REQ'D BY MFG. SEE SPEC SECTION 1440.
- PROVIDE FISHHULL RED MUSHROOM HEAD FISHBULLETION LABELED 'BOILER SHUTDOWN'. SQUARE 'D' GLASS 9001 TYPE KR-4RHS OR EQUAL. COORDINATE WITH BOILER MFG. AND PROVIDE CIRCUITING AS REQUIRED.

- PROVIDE STEEL ANGLE IRON FRAME AS RECOMMENDED BY MFG.
- PROVIDE 3" SCH40 PVC FROM EACH CONTROLLER AND STUBOUT AS SHOWN ON SHEET L4J OF LANDSCAPE DRAWINGS.
- TO GENERATOR REMOTE ANNUNCIATOR PANEL IN CUSTODIAN OFFICE B11.
- DRYER AND WASHER/EXTRACTOR PROVIDED BY OWNER, VERIFY ELECT. HEIGHTS. SEE SUBMITTAL 3, 4 AND 511.
- CONNECT TO PANEL VIA AIR HANDLER DAMPER RELAY(S). SEE DETAIL #2/E4.2 FOR CONTROL DIAGRAM. PROVIDE CONDUCTORS AS REQ'D.
- SMOKE DAMPER OR FIRE/SMOKE DAMPER ELECTRICAL CONNECTION, TYPICAL. VERIFY EXACT LOCATIONS AND QUANTITIES WITH DIV. 15.
- COORDINATE EXACT LOCATION OF MECH. CONTROL PANEL WITH DIV. 15.

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POWER PLAN - SECTOR "C"
 E3.5 SCALE: 1/8" = 1'-0"



- GENERAL NOTES**
- FOR REASONS OF CLARITY, TICK MARKS (CONDUCTOR DESIGNATIONS) MAY NOT APPEAR ON THIS DRAWING. CONTRACTOR IS TO PROVIDE CONDUCTORS AS REQUIRED TO ACCOMPLISH THE INTENT OF THE DWGS.
 - COORDINATE EXACT LOCATIONS OF ALL WIRING DEVICES WITH ARCH. INTERIOR ELEVATIONS AND CASEWORK PRIOR TO ROUGH-IN.
 - MAINTAIN FIRE RATINGS WHERE BACKBOXES OR OTHER DEVICES ARE INSTALLED IN FIRE RATED WALLS OR CEILING. COORDINATE WITH ARCHITECTURAL PLANS.
 - ALL RACEWAYS ARE TO BE CONCEALED IN WALLS AND CLG CAVITIES U.O.N. ALL WIRING DEVICES AND SIMILAR ITEMS ARE TO BE FLUSH MOUNTED U.O.N. PVC CONDUIT IS APPROVED FOR USE WHEN CONCEALED INSIDE CMU WALLS, COORDINATE WITH ARCH PLANS.

- PLAN NOTES**
- CONNECT COMPACTOR, ASSOCIATED CONTROLS AND RELATED ITEMS. 10HP, 480V, 3ph. VERIFY REGMTS WITH MFG.
 - SMOKE DAMPER OR FIRE/SMOKE DAMPER ELECTRICAL CONNECTION, TYPICAL. VERIFY EXACT LOCATION AND QUANTITIES WITH DIV. 15.
 - CONNECT TO PANEL VIA AIR HANDLER DAMPER RELAY(S). SEE DETAIL #2/E4.2 FOR CONTROL DIAGRAM. PROVIDE CONDUCTORS AS REQ'D.

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POWER PLAN - SECTOR "D"
 SCALE: 1/8" = 1'-0"



ARCHITECTURE • INTERIORS • PLANNING

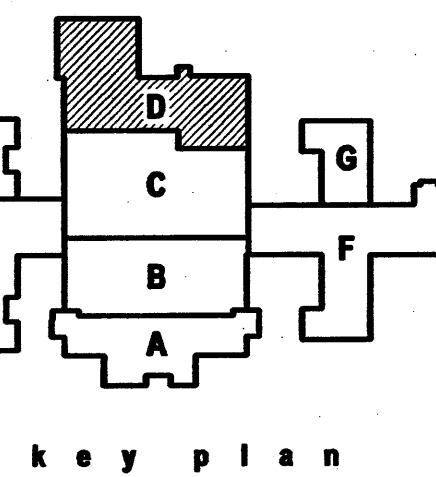
DULL OLSON WEEKES
 architects inc.

318 SW WASHINGTON ST. 2001, PORTLAND, OR 97204
 T: 503 228 8800 F: 503 273 8192 www.dow.com

NEW ELEMENTARY AND MIDDLE SCHOOL

Sherwood School District 88J

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 Sherwood, Oregon, 97140-9104
 t: (503) 625 8100 f: (503) 625 8101



phase | Bid Package No. 2

date | January 3, 2008

ADD | October 17, 2007

ADD | October 26, 2007

ADD | November 2, 2007

ADD | November 5, 2007

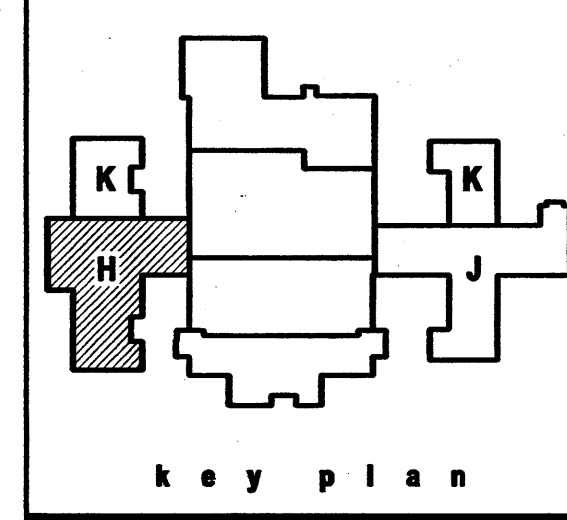
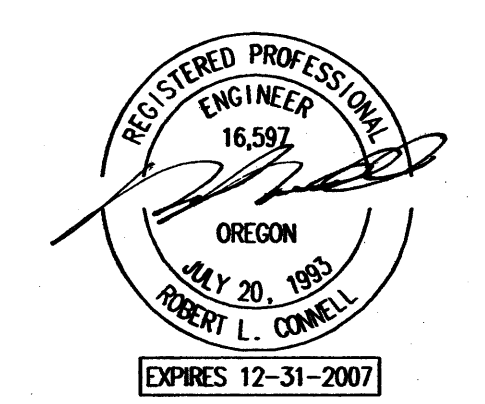
project # | 06022

Power Plan
 Sector "D"

E3.6

NEW ELEMENTARY AND MIDDLE SCHOOL

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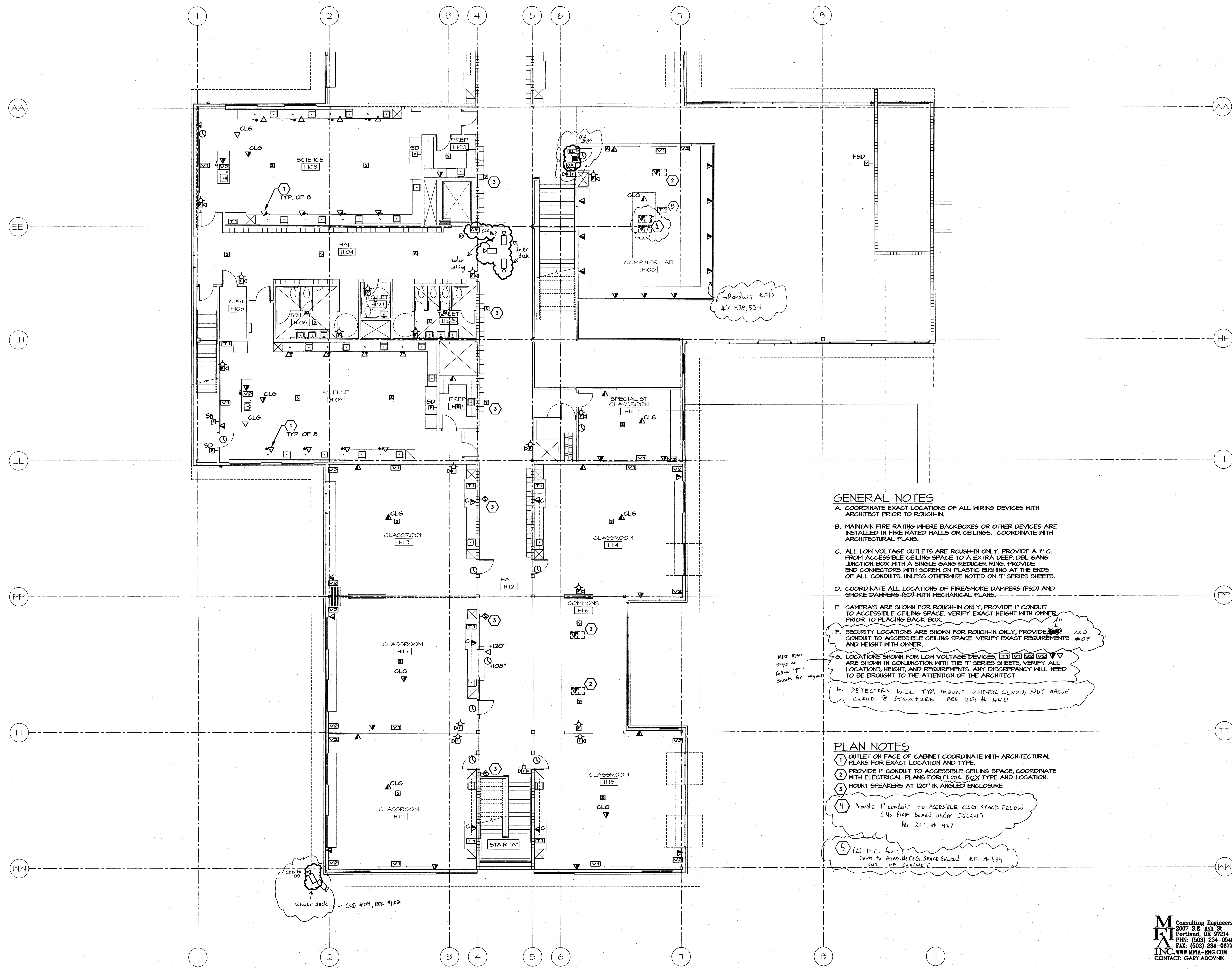


phase | Bid Package No. 2

date	January 3, 2008
ADD	October 17, 2007
ADD	October 26, 2007
ADD	November 2, 2007
ADD	November 5, 2007

project # | 06022
Signal Plan
Sector 'H'

E4.10



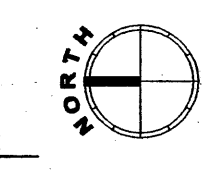
GENERAL NOTES

- A. COORDINATE EXACT LOCATIONS OF ALL WIRING DEVICES WITH ARCHITECT PRIOR TO ROUGH-IN.
- B. MAINTAIN FIRE RATINGS WHERE BACKBOXES OR OTHER DEVICES ARE INSTALLED IN FIRE RATED WALLS OR CEILINGS. COORDINATE WITH ARCHITECTURAL PLANS.
- C. ALL LOW VOLTAGE OUTLETS ARE ROUGH-IN ONLY. PROVIDE A 1" C. FROM ACCESSIBLE CEILING SPACE TO A EXTRA DEEP, DBL GANG JUNCTION BOX WITH A SINGLE GANG REDUCER RING. PROVIDE END CONNECTORS WITH SCREEN ON PLASTIC BUSHING AT THE ENDS OF ALL CONDUITS. UNLESS OTHERWISE NOTED ON 'I' SERIES SHEETS.
- D. COORDINATE ALL LOCATIONS OF FIRE/SMOKE DAMPERS (FSD) AND SMOKE DAMPERS (SD) WITH MECHANICAL PLANS.
- E. CAMERA'S ARE SHOWN FOR ROUGH-IN ONLY. PROVIDE 1" CONDUIT TO ACCESSIBLE CEILING SPACE. VERIFY EXACT HEIGHT WITH OWNER PRIOR TO PLACING BACK BOX.
- F. SECURITY LOCATIONS ARE SHOWN FOR ROUGH-IN ONLY. PROVIDE 1" CONDUIT TO ACCESSIBLE CEILING SPACE. VERIFY EXACT REQUIREMENTS AND HEIGHT WITH OWNER.
- G. LOCATIONS SHOWN FOR LOW VOLTAGE DEVICES (1) (2) (3) (4) (5) (6) (7) (8) (9) (10) (11) (12) (13) (14) (15) (16) (17) (18) (19) (20) (21) (22) (23) (24) (25) (26) (27) (28) (29) (30) (31) (32) (33) (34) (35) (36) (37) (38) (39) (40) (41) (42) (43) (44) (45) (46) (47) (48) (49) (50) (51) (52) (53) (54) (55) (56) (57) (58) (59) (60) (61) (62) (63) (64) (65) (66) (67) (68) (69) (70) (71) (72) (73) (74) (75) (76) (77) (78) (79) (80) (81) (82) (83) (84) (85) (86) (87) (88) (89) (90) (91) (92) (93) (94) (95) (96) (97) (98) (99) (100) (101) (102) (103) (104) (105) (106) (107) (108) (109) (110) (111) (112) (113) (114) (115) (116) (117) (118) (119) (120) (121) (122) (123) (124) (125) (126) (127) (128) (129) (130) (131) (132) (133) (134) (135) (136) (137) (138) (139) (140) (141) (142) (143) (144) (145) (146) (147) (148) (149) (150) (151) (152) (153) (154) (155) (156) (157) (158) (159) (160) (161) (162) (163) (164) (165) (166) (167) (168) (169) (170) (171) (172) (173) (174) (175) (176) (177) (178) 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PLAN NOTES

- 1. OUTLET ON FACE OF CABINET COORDINATE WITH ARCHITECTURAL PLANS FOR EXACT LOCATION AND TYPE.
- 2. PROVIDE 1" CONDUIT TO ACCESSIBLE CEILING SPACE, COORDINATE WITH ELECTRICAL PLANS FOR FLOOR BOX TYPE AND LOCATION.
- 3. MOUNT SPEAKERS AT 120" IN ANGLED ENCLOSURE.
- 4. Provide 1" conduit to ACCESSIBLE CLG. SPACE BELOW (No floor boxes under ISLAND) Per RFI # 437
- 5. (2) 1" C. for TT down to Accessible CLG. SPACE BELOW RFI # 534 OUT OF CABINET

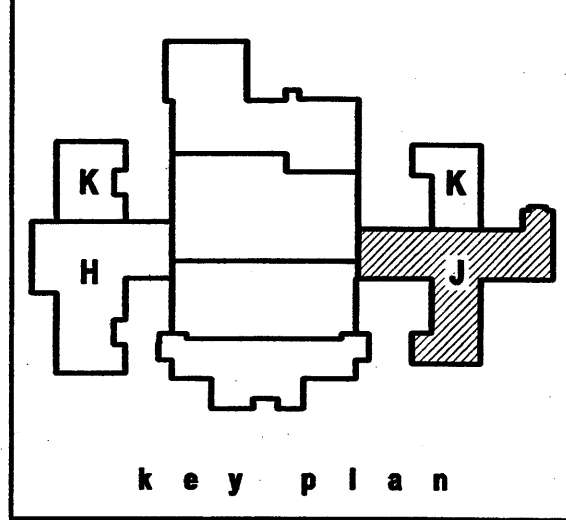
M Consulting Engineers
2007 S.E. Ash St.
Portland, OR 97214
PHN: (503) 234-0548
FAX: (503) 234-0677
WWW.MPEA-ENG.COM
CONTACT: GARY ADOVNIK



NEW ELEMENTARY AND MIDDLE SCHOOL

Sherwood School District 88J

23285 S. Sherwood Blvd.
Sherwood, Oregon, 97140-9104
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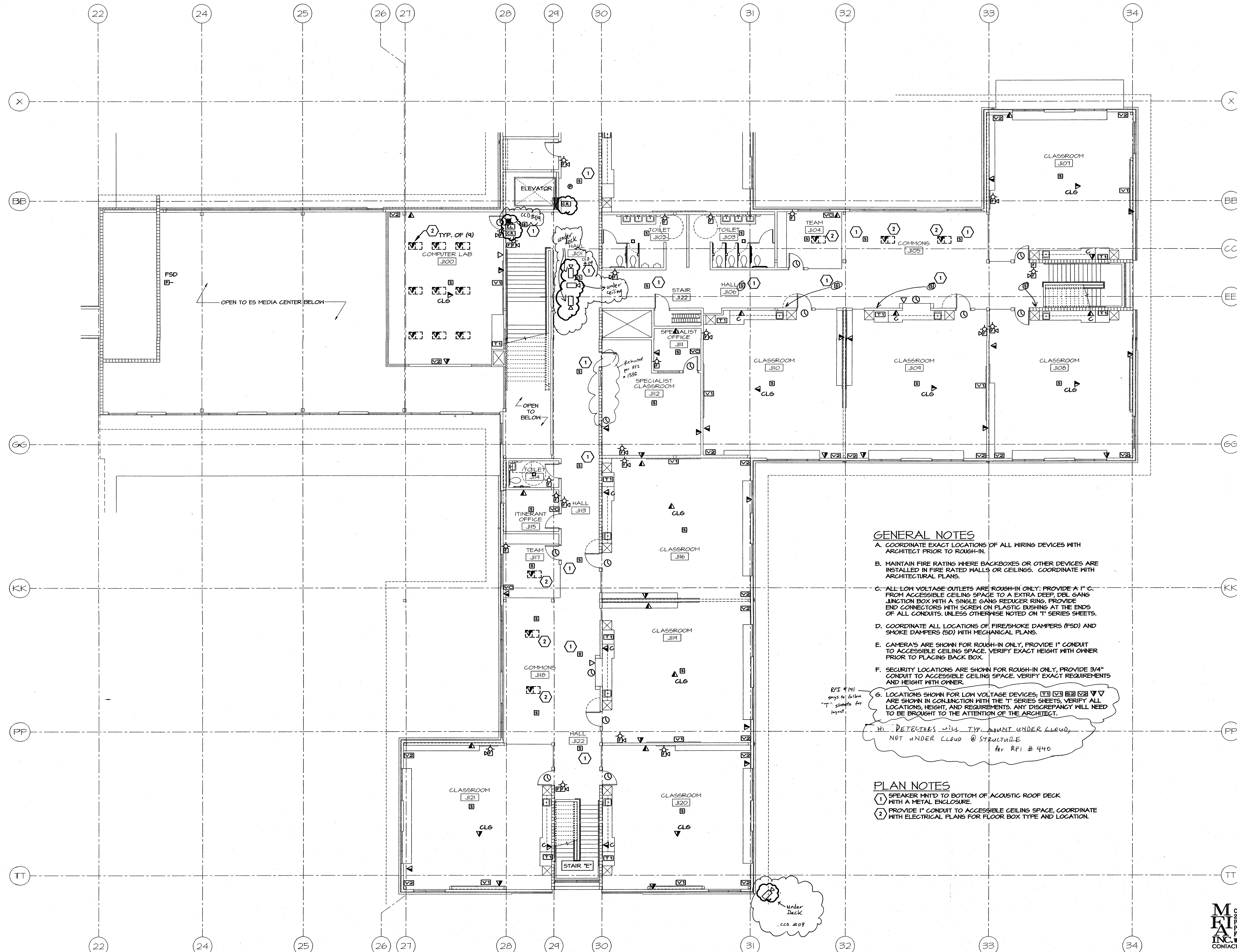
phase | Bid Package No. 2

date	January 3, 2008
ADD	October 17, 2007
ADD	October 26, 2007
ADD	November 2, 2007
ADD	November 5, 2007

project # | 06022

Signal Plan
Sector 'J'

E4.11



GENERAL NOTES

- A. COORDINATE EXACT LOCATIONS OF ALL WIRING DEVICES WITH ARCHITECT PRIOR TO ROUGH-IN.
- B. MAINTAIN FIRE RATING WHERE BACKBOXES OR OTHER DEVICES ARE INSTALLED IN FIRE RATED HALLS OR CEILINGS. COORDINATE WITH ARCHITECTURAL PLANS.
- C. ALL LOW VOLTAGE OUTLETS ARE ROUGH-IN ONLY. PROVIDE A 1" C- FROM ACCESSIBLE CEILING SPACE TO AN EXTRA DEEP, DBL GANG JUNCTION BOX WITH A SINGLE GANG REDUCER RING. PROVIDE END CONNECTORS WITH SCREW ON PLASTIC BUSHING AT THE ENDS OF ALL CONDUITS, UNLESS OTHERWISE NOTED ON 'T' SERIES SHEETS.
- D. COORDINATE ALL LOCATIONS OF FIRE/SMOKE DAMPERS (FSD) AND SMOKE DAMPERS (SD) WITH MECHANICAL PLANS.
- E. CAMERA'S ARE SHOWN FOR ROUGH-IN ONLY. PROVIDE 1" CONDUIT TO ACCESSIBLE CEILING SPACE. VERIFY EXACT HEIGHT WITH OWNER PRIOR TO PLACING BACK BOX.
- F. SECURITY LOCATIONS ARE SHOWN FOR ROUGH-IN ONLY. PROVIDE 3/4" CONDUIT TO ACCESSIBLE CEILING SPACE. VERIFY EXACT REQUIREMENTS AND HEIGHT WITH OWNER.
- G. LOCATIONS SHOWN FOR LOW VOLTAGE DEVICES; (T) (V) (B) (V) (V) ARE SHOWN IN CONJUNCTION WITH THE 'T' SERIES SHEETS. VERIFY ALL LOCATIONS, HEIGHT, AND REQUIREMENTS. ANY DISCREPANCY WILL NEED TO BE BROUGHT TO THE ATTENTION OF THE ARCHITECT.
- H. DETECTORS WILL TYP. MOUNT UNDER CLOUD, NOT UNDER CLOUD @ STRUCTURE per RFI # 440

PLAN NOTES

- (1) SPEAKER MNTD TO BOTTOM OF ACOUSTIC ROOF DECK WITH A METAL ENCLOSURE.
- (2) PROVIDE 1" CONDUIT TO ACCESSIBLE CEILING SPACE. COORDINATE WITH ELECTRICAL PLANS FOR FLOOR BOX TYPE AND LOCATION.

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ARCHITECTURE • INTERIORS • PLANNING

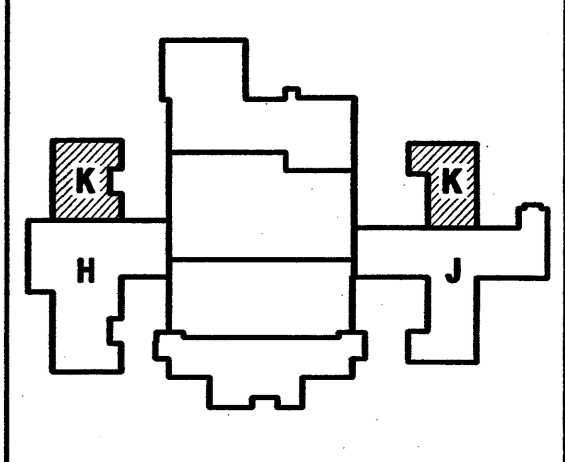
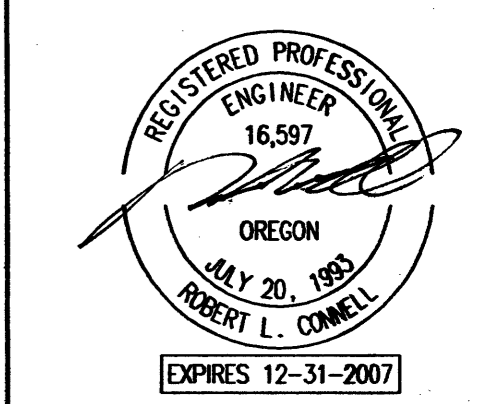
DULL OLSON WEEKES
architects inc.

318 SW WASHINGTON ST. #201, PORTLAND, OR 97204
t: (503) 228-8950 f: (503) 273-9182 www.dowa.com

NEW ELEMENTARY AND MIDDLE SCHOOL

Sherwood School District 88J

23295 S. Sherwood Blvd.
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key plan

phase | Bid Package No. 2

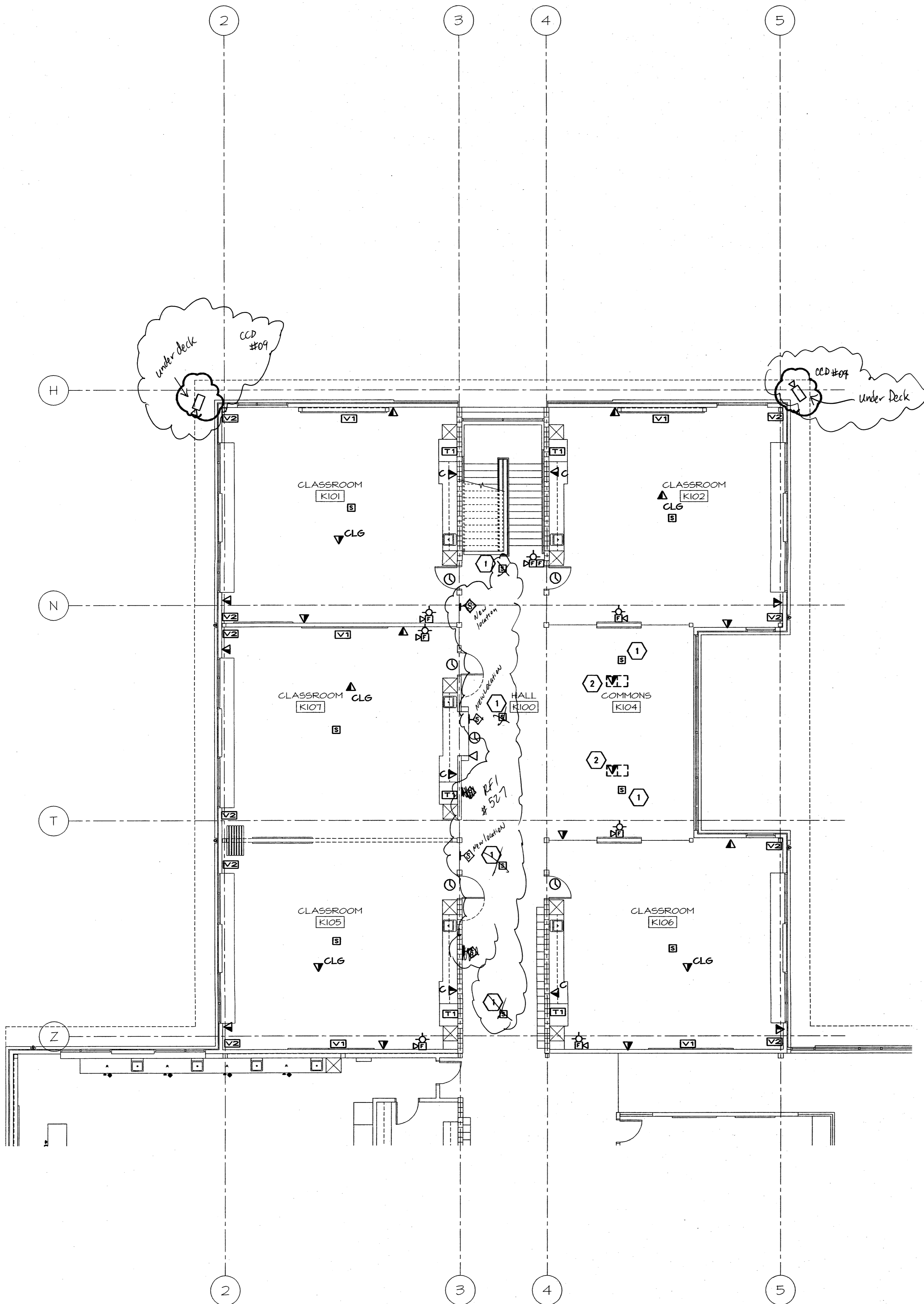
date	January 3, 2008
ADD	October 17, 2007
ADD	October 26, 2007
ADD	November 2, 2007
ADD	November 5, 2007

project # | 06022

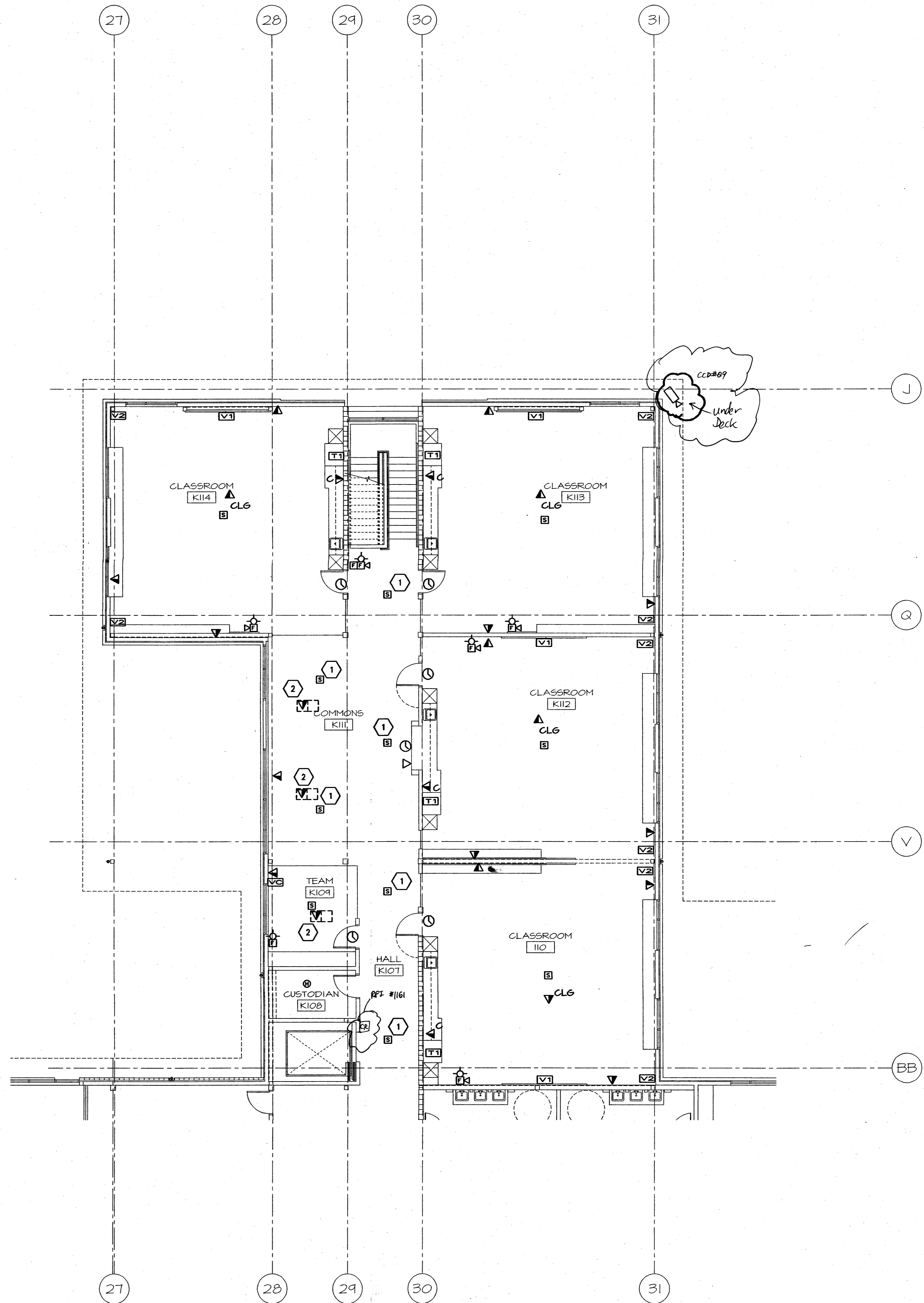
Signal Plan Sector 'K'

E4.12

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1 SIGNAL PLAN SECTOR 'K' - MS SIDE
E4.12 SCALE: 1/8" = 1'-0"



2 SIGNAL PLAN SECTOR 'K' - ES SIDE
E4.12 SCALE: 1/8" = 1'-0"

GENERAL NOTES

- COORDINATE EXACT LOCATIONS OF ALL WIRING DEVICES WITH ARCHITECT PRIOR TO ROUGH-IN.
- MAINTAIN FIRE RATINGS WHERE BACKBOXES OR OTHER DEVICES ARE INSTALLED IN FIRE RATED WALLS OR CEILINGS. COORDINATE WITH ARCHITECTURAL PLANS.
- ALL LOW VOLTAGE OUTLETS ARE ROUGH-IN ONLY. PROVIDE A 1" C. FROM ACCESSIBLE CEILING SPACE TO AN EXTRA DEEP, DDL GANG JUNCTION BOX WITH A SINGLE GANG REDUCER RING. PROVIDE END CONNECTORS WITH SCREW ON PLASTIC BUSHING AT THE ENDS OF ALL CONDUITS, UNLESS OTHERWISE NOTED ON 'T' SERIES SHEETS.
- COORDINATE ALL LOCATIONS OF FIRE/SMOKE DAMPERS (FSD) AND SMOKE DAMPERS (SD) WITH MECHANICAL PLANS.
- CAMERA'S ARE SHOWN FOR ROUGH-IN ONLY. PROVIDE 1" CONDUIT TO ACCESSIBLE CEILING SPACE. VERIFY EXACT HEIGHT WITH OWNER PRIOR TO PLACING BACK BOX.
- SECURITY LOCATIONS ARE SHOWN FOR ROUGH-IN ONLY. PROVIDE 1" CONDUIT TO ACCESSIBLE CEILING SPACE. VERIFY EXACT REQUIREMENTS AND HEIGHT WITH OWNER.
- LOCATIONS SHOWN FOR LOW VOLTAGE DEVICES: [S] [L] [R] [V] [V] ARE SHOWN IN CONJUNCTION WITH THE 'T' SERIES SHEETS. VERIFY ALL LOCATIONS, HEIGHT, AND REQUIREMENTS. ANY DISCREPANCY WILL NEED TO BE BROUGHT TO THE ATTENTION OF THE ARCHITECT.

RFI #11 says to follow 'T' sheets for layout

PLAN NOTES

- SPEAKER MNTD TO BOTTOM OF ACOUSTIC ROOF DECK WITH A METAL ENCLOSURE.
 - PROVIDE 1" CONDUIT TO ACCESSIBLE CEILING SPACE, COORDINATE WITH ELECTRICAL PLANS FOR FLOOR BOX TYPE AND LOCATION.
- DETECTORS: WILL TYP. MOUNT UNDER CLOUDS, NOT ABOVE CLOUDS @ STRUCTURE PER RFI #440



ARCHITECTURE • INTERIORS • PLANNING

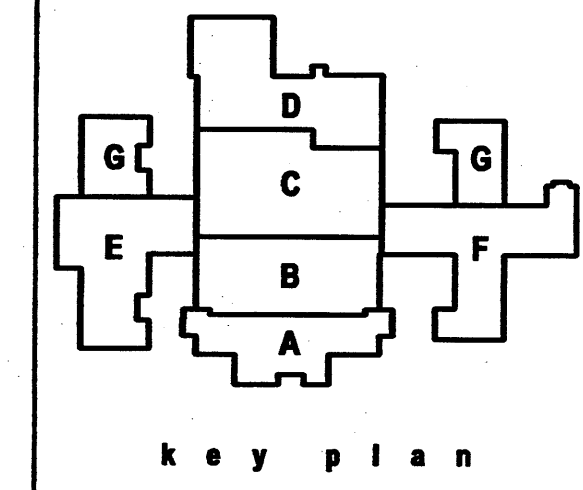
DULL OLSON WEEKES
architects inc.

310 SW WASHINGTON ST. #200 PORTLAND, OR 97204
T: 503 228 6850 F: 503 273 8182 www.dowas.com

NEW ELEMENTARY AND MIDDLE SCHOOL

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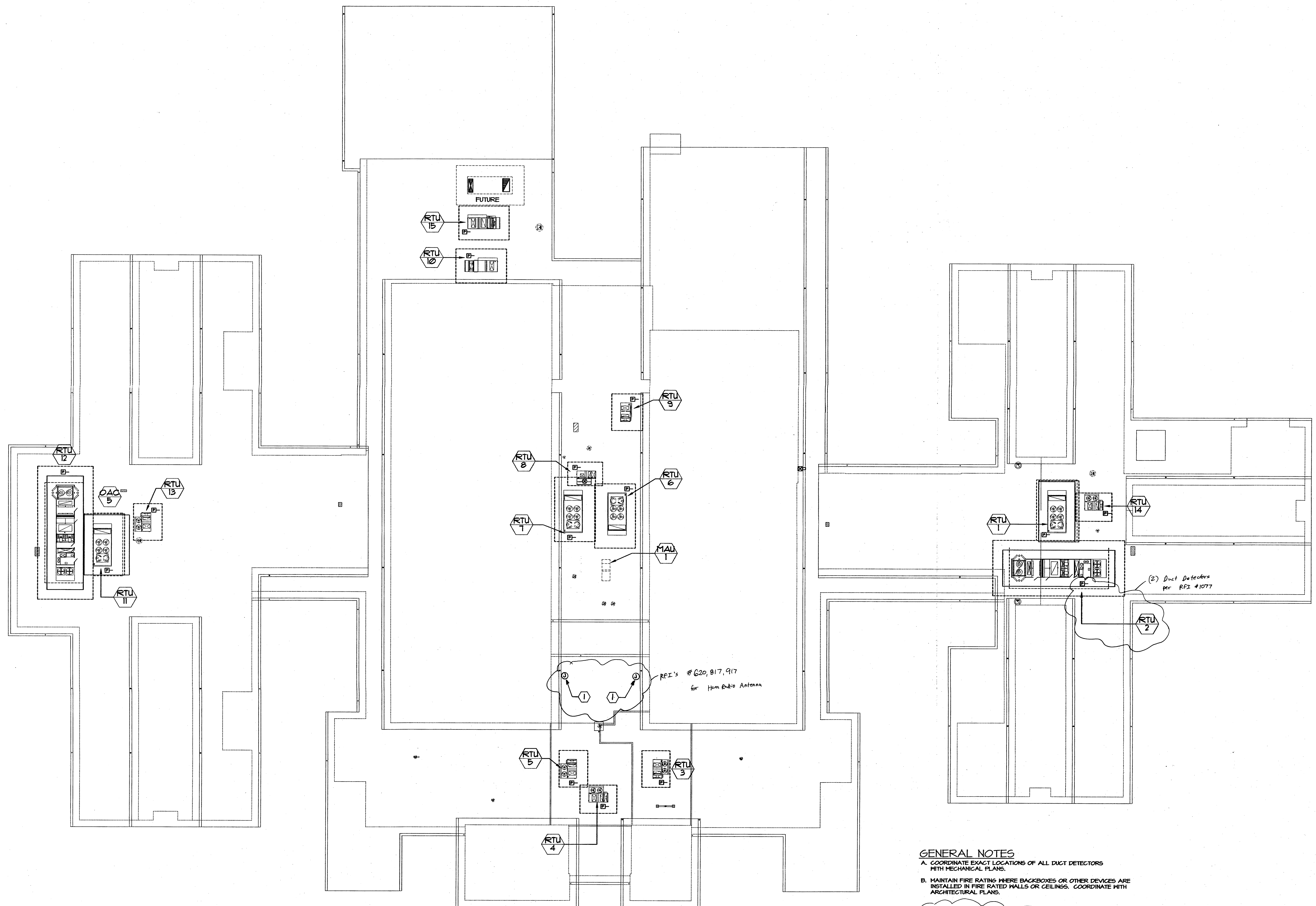
phase | Bid Package No. 2

date	January 3, 2008
ADD	October 17, 2007
ADD	October 26, 2007
ADD	November 2, 2007
ADD	November 5, 2007

project # | 06022

Signal Plan
Roof

E4.13



GENERAL NOTES

- A. COORDINATE EXACT LOCATIONS OF ALL DUCT DETECTORS WITH MECHANICAL PLANS.
- B. MAINTAIN FIRE RATINGS WHERE BACKBOXES OR OTHER DEVICES ARE INSTALLED IN FIRE RATED WALLS OR CEILINGS. COORDINATE WITH ARCHITECTURAL PLANS.

PLAN NOTES

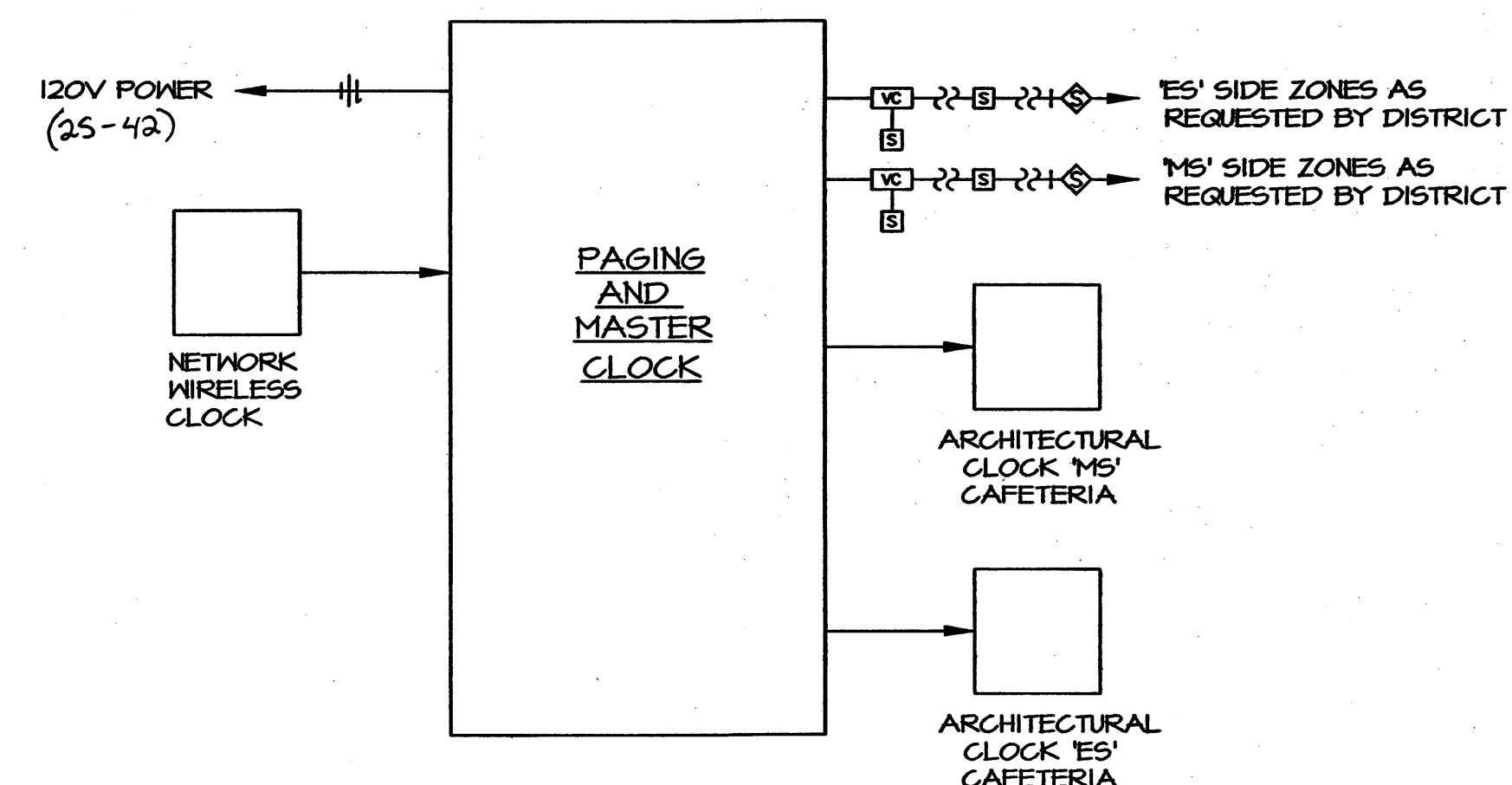
- 1 Provide 2" C. through roof w/ gable neck for Ham Radio antenna cable. Seal conduit opening after cable has been installed. Verify exact location w/ Arch. Plans.

RFI #G20

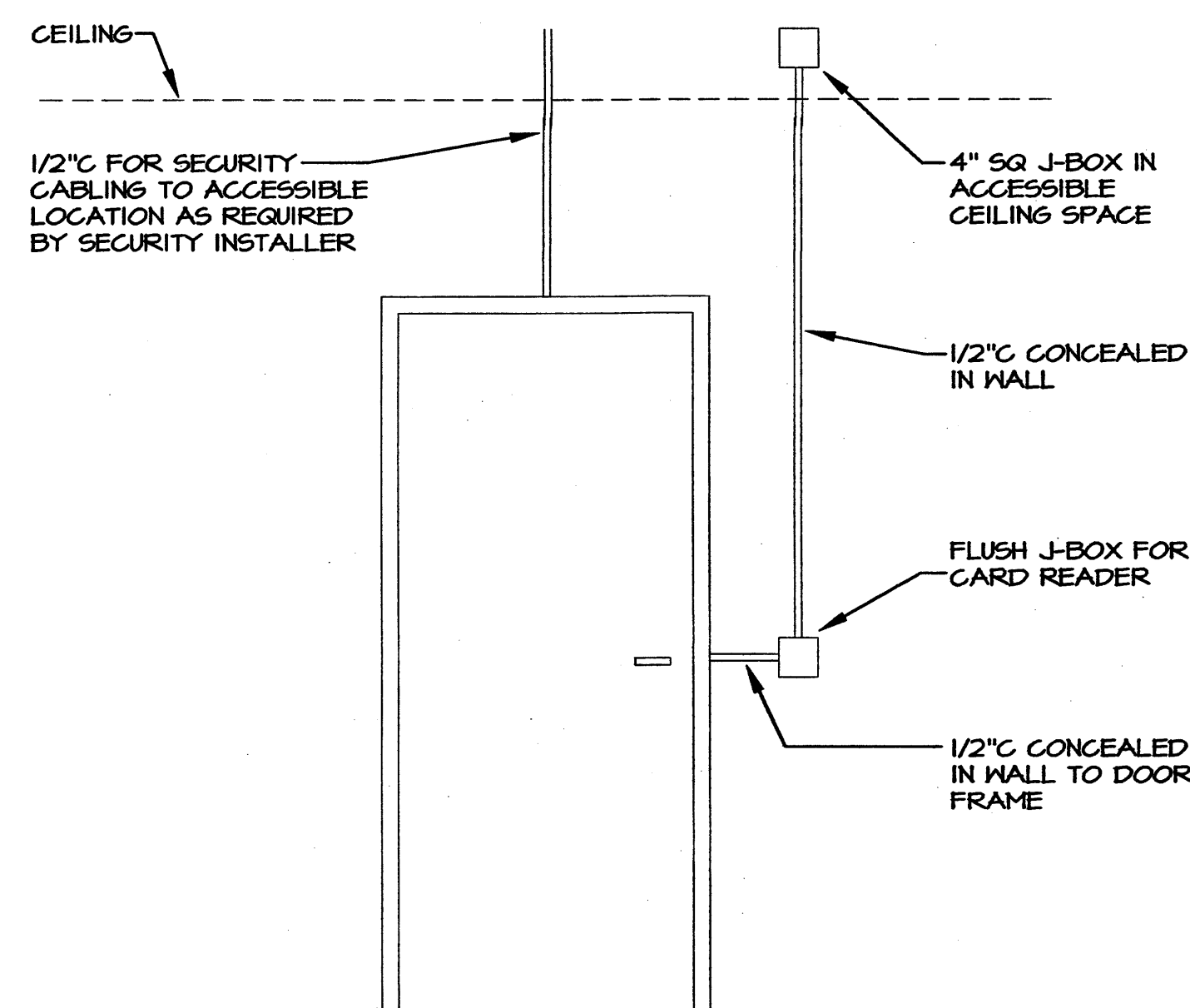
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CONTACT: GARY ADOVNIK

SIGNAL PLAN ROOF
SCALE: 1"=20'



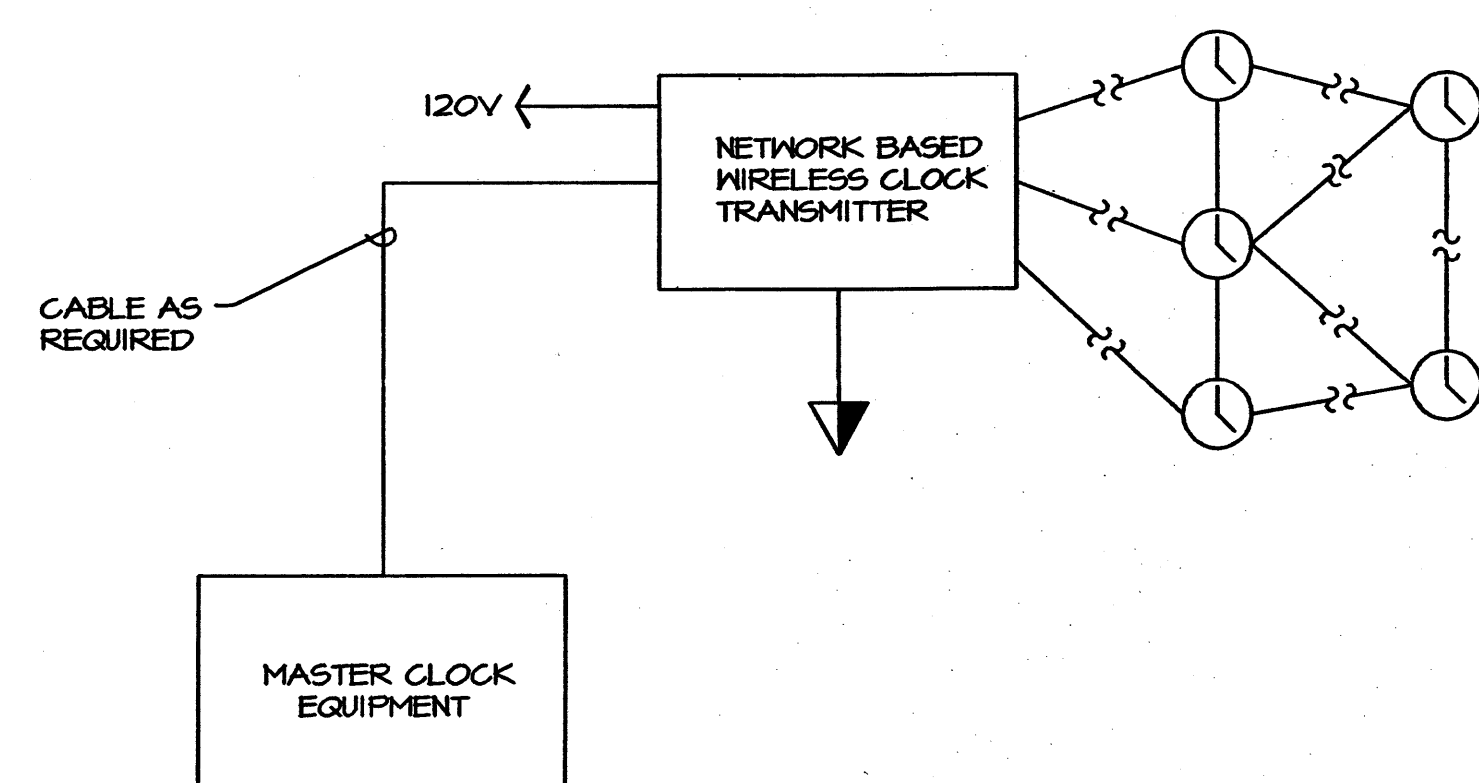


4 PAGING SYSTEM in MDF Room
E42 SCALE: NTS

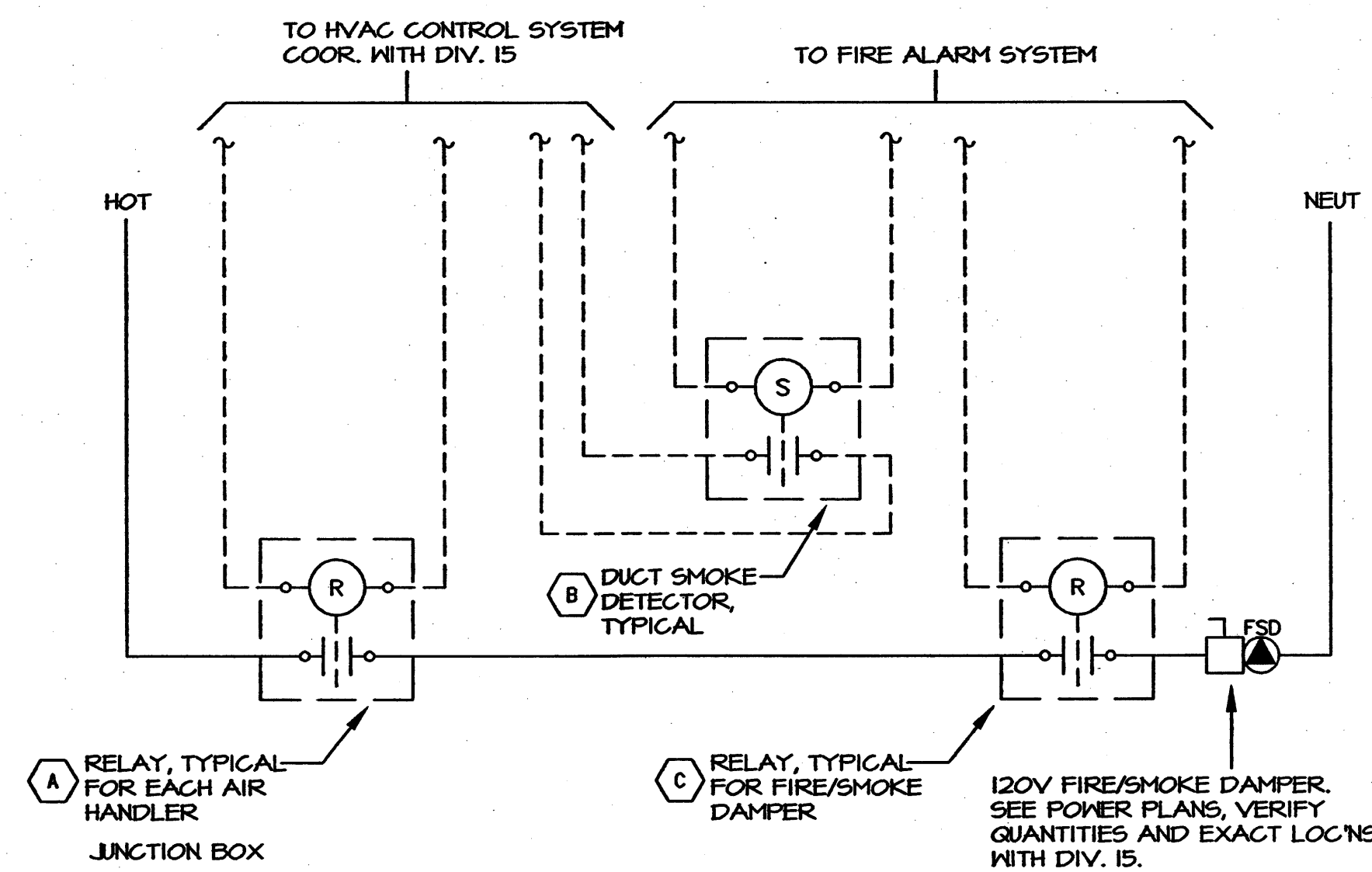


- SECURITY ROUGH-IN NOTES**
1. VERIFY BOX TYPE AND CONDUIT SIZE WITH SECURITY SYSTEM INSTALLER.
 2. VERIFY ROUGH-IN BOX HEIGHTS WITH SECURITY SYSTEM INSTALLER.
 3. ALL DEVICES, CABLING AND CONNECTIONS BY SECURITY SYSTEM INSTALLER. PROVIDE PULL STRINGS IN ALL CONDUITS.

5 TYPICAL SECURITY SYSTEM ROUGH-IN
E42 SCALE: NTS

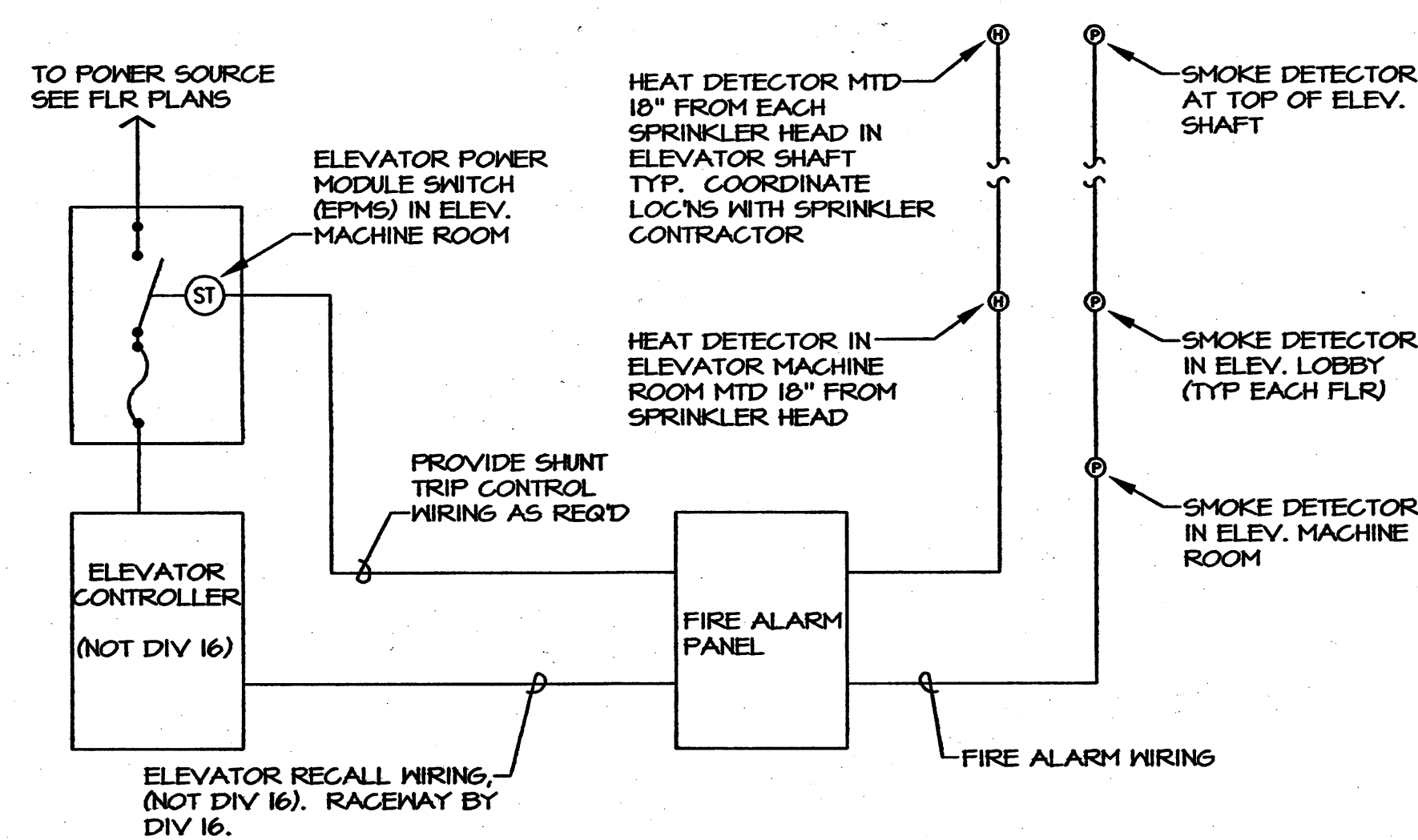


6 MASTER/WIRELESS CLOCK DIAGRAM
E42 SCALE: NTS



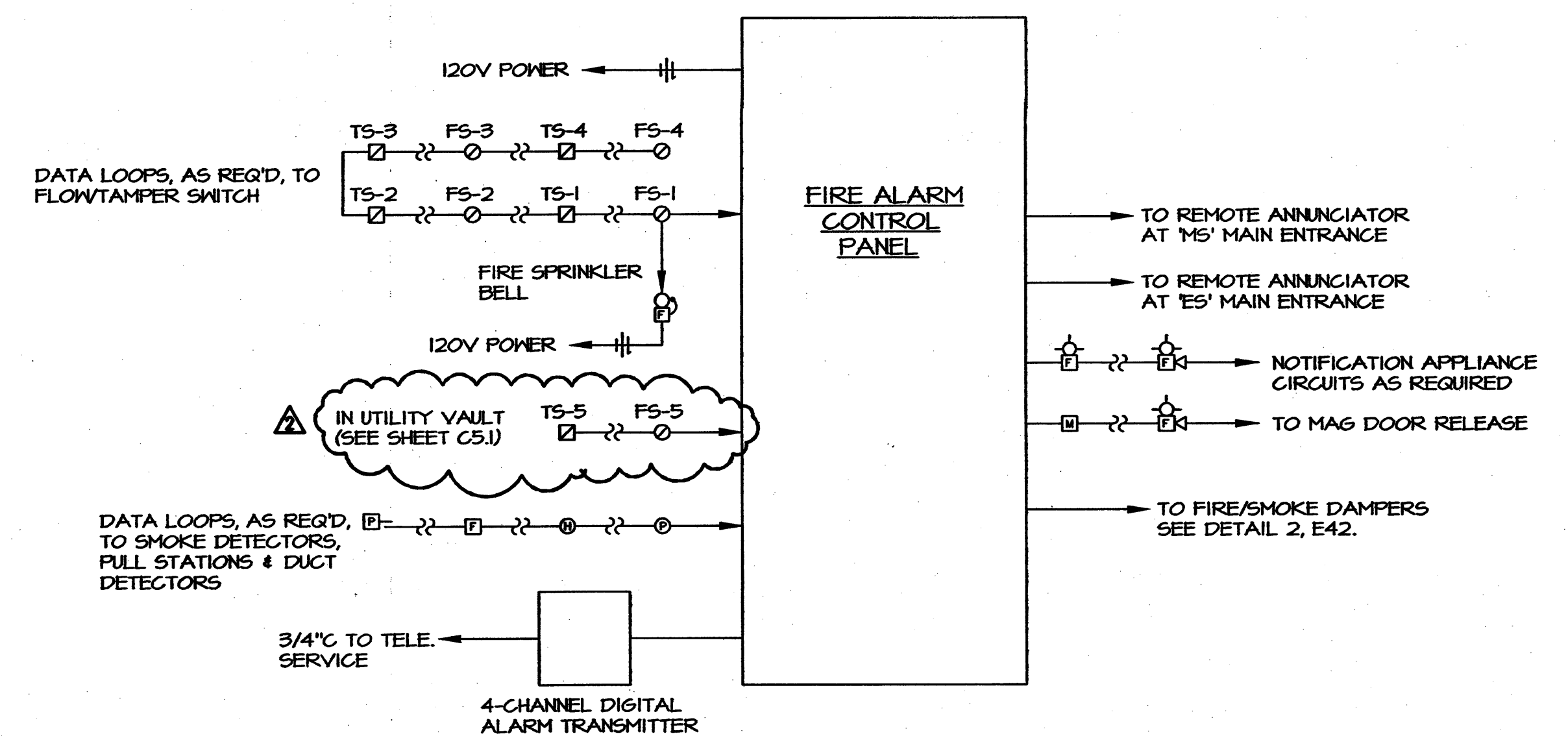
- ADDRESSABLE DETECTOR CONTROL**
- RELAY TO BE 'NORMALLY ENERGIZED'. RELAY TO BE DE-ENERGIZED UPON SIGNAL FROM HVAC CONTROL SYSTEM (ALLOWS DAMPERS TO CLOSE). PROVIDE WITH 20A CONTACTS AND COIL. VOLTAGE AS REQ'D BY HVAC CONTROL SYSTEM. MOUNT RELAY IN NEMA 1 ENCLOSURE ADJACENT TO HVAC CONTROL PANEL.
 - DUCT DETECTOR WITH AUXILIARY CONTACTS MOUNTED WITHIN 5 FT OF EACH FIRE/SMOKE DAMPER IN ACCORDANCE WITH U.S.C. REQ'TS. CONTACT CLOSURE TO BE INPUT SIGNAL TO HVAC CONTROL SYSTEM FOR AIR HANDLER SHUT-DOWN.
 - RELAY TO BE 'NORMALLY ENERGIZED'. RELAY TO BE DE-ENERGIZED UPON SIGNAL FROM FIRE ALARM SYSTEM (ALLOWS DAMPERS TO CLOSE). PROGRAM FIRE ALARM SYSTEM FOR 30 SECOND DELAY BETWEEN DUCT DETECTOR ACTIVATION AND FIRE/SMOKE DAMPER SHUT-DOWN. PROVIDE WITH 20A CONTACTS AND COIL VOLTAGE AS REQ'D BY FIRE ALARM SYSTEM. MOUNT RELAY IN NEMA 1 ENCLOSURE ADJACENT TO PANEL.
- SEE RFI'S # 348, 725, 780, 854, 906, 1368

2 FIRE/SMOKE DAMPER CONTROL
E42 SCALE: NTS



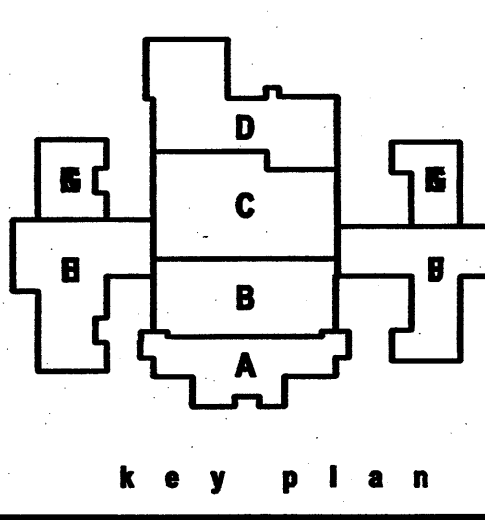
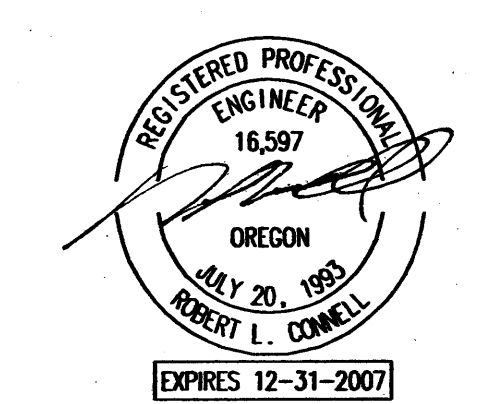
- NOTES**
1. CONNECT HEAT DETECTORS IN MACHINE RM AND ELEVATOR SHAFT SUCH THAT AN ALARM CONDITION WILL ACTIVATE SHUNT TRIP DEVICE IN EPMS.
 2. CONNECT SMOKE DETECTORS IN MACHINE ROOM, ELEVATOR LOBBYS, AND ELEVATOR SHAFT SUCH THAT AN ALARM CONDITION WILL ACTIVATE ELEVATOR RECALL SYSTEM. COORDINATE WITH ELEVATOR SUPPLIER.

3 ELEVATOR RECALL/AUTO DISC.
E42 SCALE: NTS



- FIRE ALARM SYSTEM NOTES**
1. PROVIDE WIRING, BACKBOXES AND ALL OTHER ITEMS NECESSARY FOR A COMPLETE WORKING INSTALLATION. PROVIDE WIREGUARDS WHERE CALLED FOR ON THE DWGS.
 2. LOW VOLTAGE WIRING MAY BE RUN OPEN ABOVE ACCESSIBLE CEILING AREAS. LOW VOLTAGE WIRING CONCEALED IN WALLS OR OTHER INACCESSIBLE AREAS TO BE IN CONDUIT.
 3. PROVIDE A CONTROL MODULE FOR EACH FIRE SHUTTER. CONNECT SUCH THAT FIRE SHUTTER WILL RELEASE UPON ACTIVATION OF LOCAL SMOKE DETECTOR ONLY.

1 FIRE ALARM SYSTEM ONE LINE
E42 SCALE: NTS



phase	Bid Package No. 2
date	January 3, 2008
ADD	October 17, 2007
ADD	October 26, 2007
ADD	November 2, 2007
ADD	November 5, 2007

project # | 06022
Signal Details

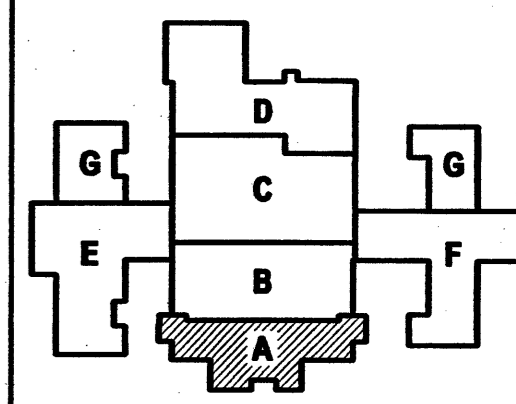
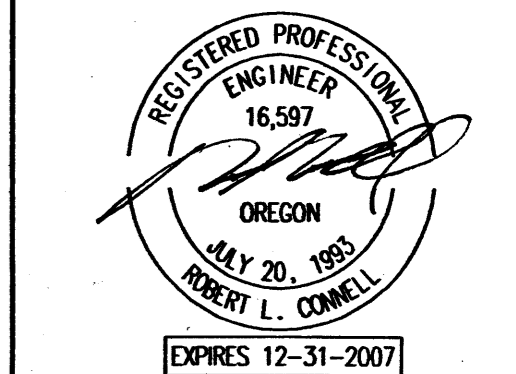
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NEW ELEMENTARY AND MIDDLE SCHOOL

Sherwood School District 88J

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key plan

phase | Bid Package No. 2

date | January 3, 2008

ADD | October 17, 2007

ADD | October 26, 2007

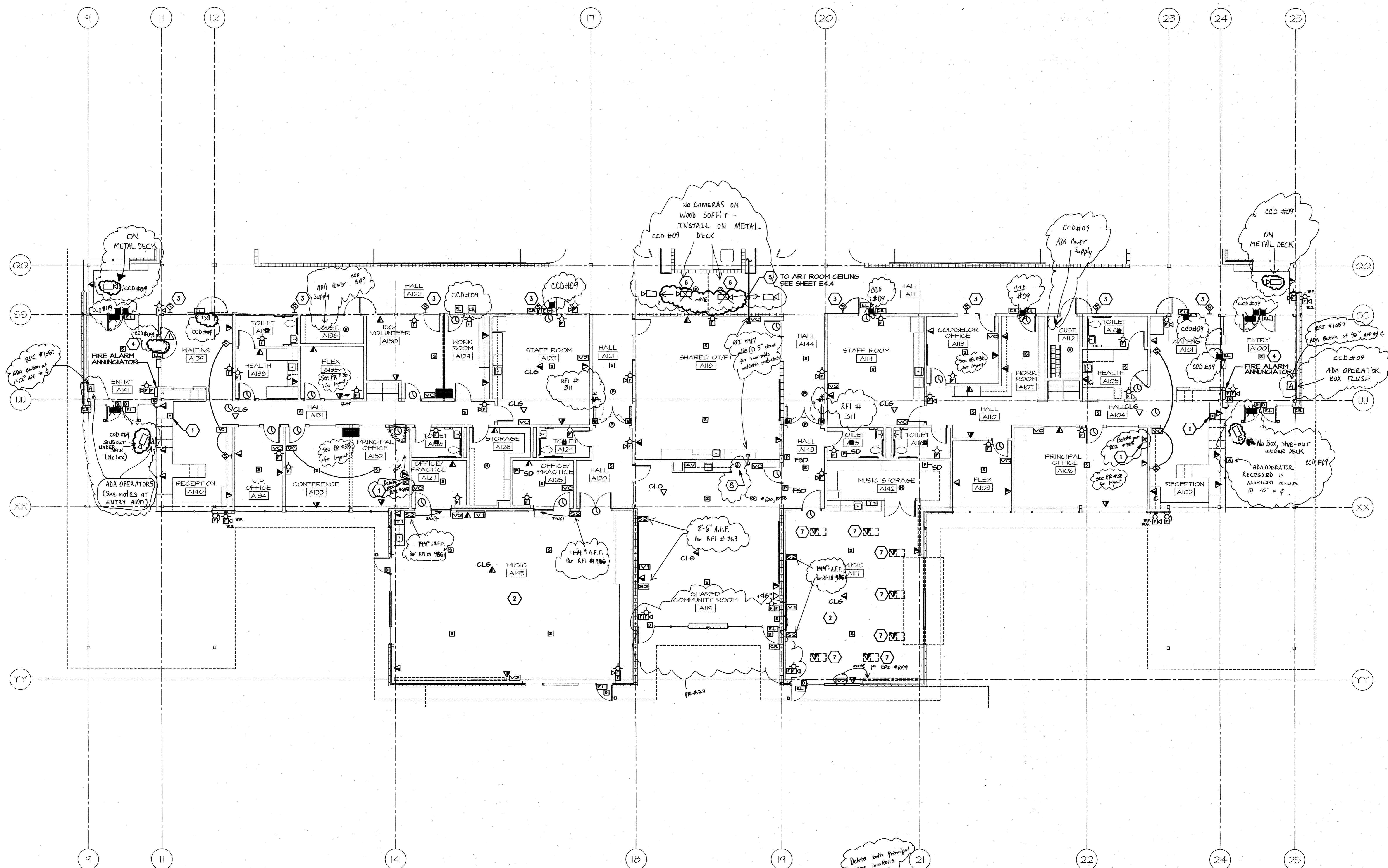
ADD | November 2, 2007

ADD | November 5, 2007

project # | 06022

Signal Plan
Sector 'A'

E4.3



GENERAL NOTES

- A. COORDINATE EXACT LOCATIONS OF ALL WIRING DEVICES WITH ARCHITECT PRIOR TO ROUGH-IN.
- B. MAINTAIN FIRE RATINGS WHERE BACKBOXES OR OTHER DEVICES ARE INSTALLED IN FIRE RATED WALLS OR CEILING. COORDINATE WITH ARCHITECTURAL PLANS.
- C. ALL LOW VOLTAGE OUTLETS ARE ROUGH-IN ONLY. PROVIDE A 1" C. FROM ACCESSIBLE CEILING SPACE TO AN EXTRA DEEP, DBL GANG JUNCTION BOX WITH A SINGLE GANG REDUCER RING. PROVIDE END CONNECTORS WITH SCREWS ON PLASTIC BUSHING AT THE ENDS OF ALL CONDUITS, UNLESS OTHERWISE NOTED ON 'T' SERIES SHEETS.
- D. COORDINATE ALL LOCATIONS OF FIRE/SMOKE DAMPERS (FSD) AND SMOKE DAMPERS (SD) WITH MECHANICAL PLANS.
- E. CAMERAS ARE SHOWN FOR ROUGH-IN ONLY. PROVIDE 1" CONDUIT TO ACCESSIBLE CEILING SPACE. VERIFY EXACT HEIGHT WITH OWNER PRIOR TO PLACING BACK BOX.
- F. SECURITY LOCATIONS ARE SHOWN FOR ROUGH-IN ONLY. PROVIDE 3/4" CONDUIT TO ACCESSIBLE CEILING SPACE. VERIFY EXACT REQUIREMENTS AND HEIGHT WITH OWNER.
- G. LOCATIONS SHOWN FOR LOW VOLTAGE DEVICES, [E] [G] [H] [I] [J] [K] [L] [M] [N] [O] [P] [Q] [R] [S] [T] [U] [V] [W] [X] [Y] ARE SHOWN IN CORRELATION WITH THE 'T' SERIES SHEETS. VERIFY ALL LOCATIONS, HEIGHT, AND REQUIREMENTS. ANY DISCREPANCY WILL NEED TO BE BROUGHT TO THE ATTENTION OF THE ARCHITECT.

I failed to copy
ADA notes with PERA
and he is notifying
the whole unit building
so they may use
registered property and not cancel
6-04-08
David Weir

RFI #141
shown to use
1/4" sheets for layout on new E4.205

PLAN NOTES

- 1. ROUGH-IN FOR SECURITY PANIC BUTTON, ROUTE 1" CONDUIT TO ACCESSIBLE CEILING SPACE, PROVIDE DBL GANG, EXTRA DEEP JUNCTION BOX WITH SINGLE GANG REDUCER WITH STRING FOR LATER USE.
- 2. SEE SHEET 95J1 FOR ADDITIONAL CONDUITS AND BACK BOXES REQUIRED IN THIS SPACE.
- 3. RECESS SPEAKER INTO WALL CENTER AT 10B".
- 4. SPEAKER MNTD TO BOTTOM OF ACOUSTIC ROOF DECK WITH A METAL ENCLOSURE.
- 5. (4) 4" CONDUIT TO FOR VID
(1) 3" CONDUIT FOR PAGING
(1) 3" CONDUIT FOR FIRE ALARM
(1) 3" CONDUIT FOR FUTURE CCTV
- 6. DETECTORS FOR DROP DOWN FIRE DOOR.
- 7. PROVIDE 1" CONDUIT TO ACCESSIBLE CEILING SPACE, COORDINATE WITH ELECTRICAL PLANS FOR FLOOR BOX TYPE AND LOCATION.
- 8. PROVIDE CONDUIT AND JUNCTION BOX AS DIRECTED IN "GENERAL NOTE C" AT 1B" FOR FUTURE HAM RADIO. PROVIDE BLANK COVER.

Delete both Principal
office locations
see RFI #985

The building does not have air return plenum spaces.
CMR cable is allowed.
RFI #882

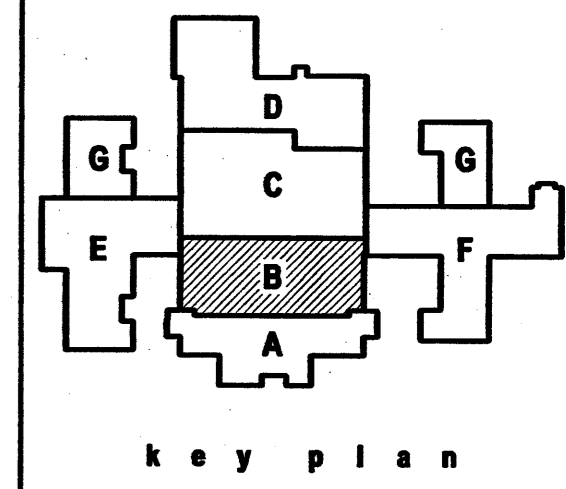
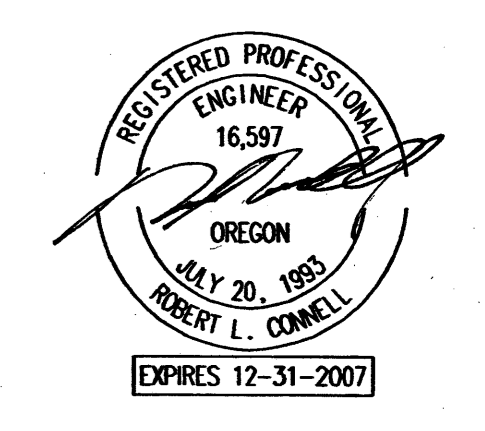
RFI #620, 1098

SIGNAL PLAN SECTOR 'A'
SCALE: 1/8" = 1'

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NEW ELEMENTARY AND MIDDLE SCHOOL

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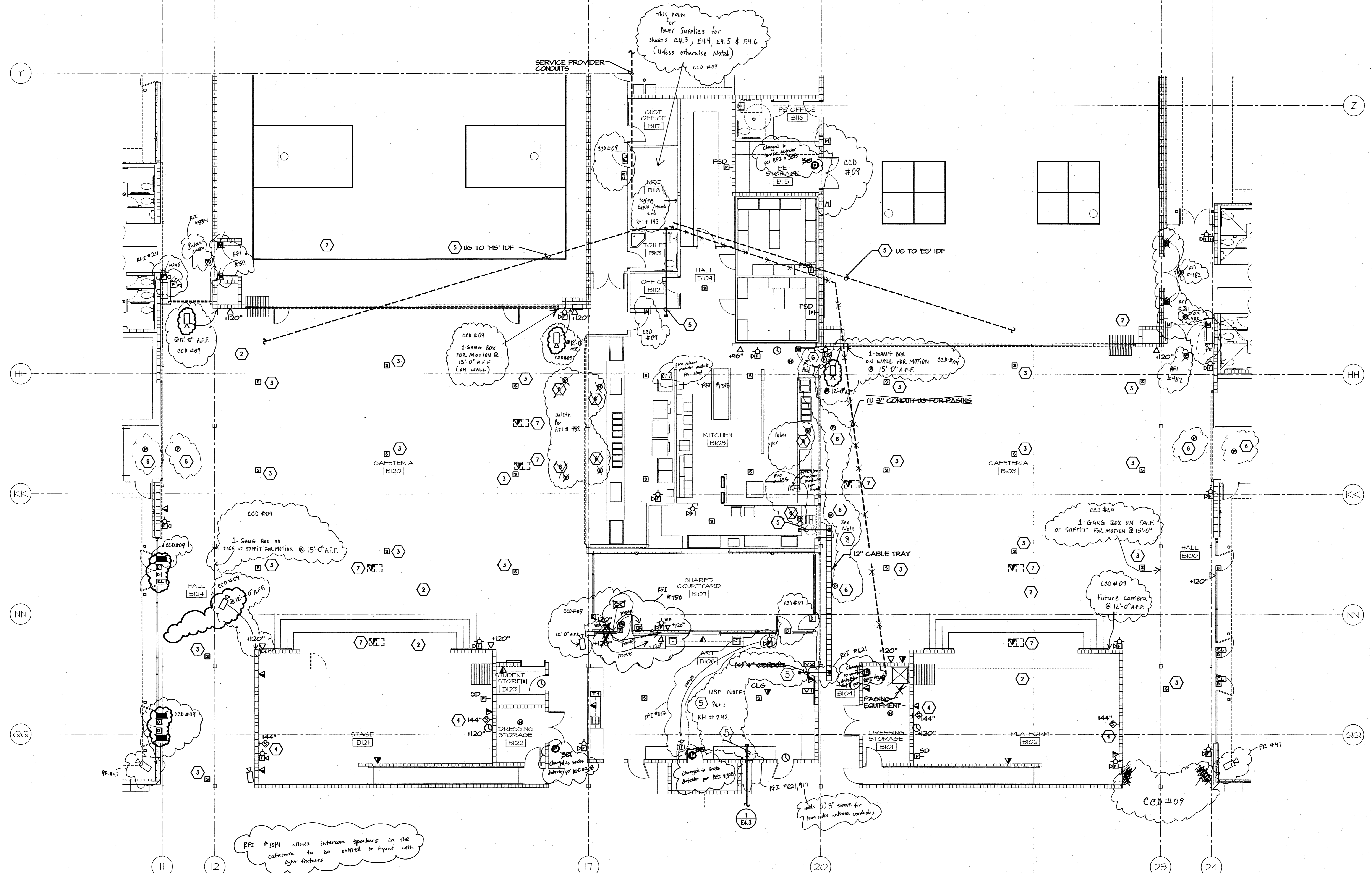
phase | Bid Package No. 2

date	January 3, 2008
ADD	October 17, 2007
ADD	October 26, 2007
ADD	November 2, 2007
ADD	November 5, 2007

project # | 06022

Signal Plan
Sector 'B'

E4.4



GENERAL NOTES

- COORDINATE EXACT LOCATIONS OF ALL WIRING DEVICES WITH ARCHITECT PRIOR TO ROUGH-IN.
- MAINTAIN FIRE RATINGS WHERE BACKBOXES OR OTHER DEVICES ARE INSTALLED IN FIRE RATED WALLS OR CEILINGS. COORDINATE WITH ARCHITECTURAL PLANS.
- ALL LOW VOLTAGE OUTLETS ARE ROUGH-IN ONLY. PROVIDE A 1" C. FROM ACCESSIBLE CEILING SPACE TO A EXTRA DEEP DEL GANG JUNCTION BOX WITH A SINGLE GANG REDUCER RING. PROVIDE END CONNECTORS WITH SCREW ON PLASTIC BUSHING AT THE ENDS OF ALL CONDUITS. UNLESS OTHERWISE NOTED ON 'T' SERIES SHEETS.
- COORDINATE ALL LOCATIONS OF FIRE/SMOKE DAMPERS (FSD) AND SMOKE DAMPERS (SD) WITH MECHANICAL PLANS.
- CAMERA'S ARE SHOWN FOR ROUGH-IN ONLY. PROVIDE 1" CONDUIT TO ACCESSIBLE CEILING SPACE. VERIFY EXACT HEIGHT WITH OWNER PRIOR TO PLACING BACK BOX.
- SECURITY LOCATIONS ARE SHOWN FOR ROUGH-IN ONLY. PROVIDE 3/4" CONDUIT TO ACCESSIBLE CEILING SPACE. VERIFY EXACT REQUIREMENTS AND HEIGHT WITH OWNER.
- LOCATIONS SHOWN FOR LOW VOLTAGE DEVICES, [] [] [] [] [] [] [] [] [] [] ARE SHOWN IN CONJUNCTION WITH THE 'T' SERIES SHEETS. VERIFY ALL LOCATIONS, HEIGHT, AND REQUIREMENTS. ANY DISCREPANCY WILL NEED TO BE BROUGHT TO THE ATTENTION OF THE ARCHITECT.

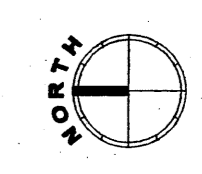
RFI # 141 says to follow 'T' sheets for layout

PLAN NOTES

- PROVIDE MANUFACTURER RECOMMENDED WIREGUARD.
- SEE SHEET S511 FOR ADDITIONAL CONDUITS AND BACK BOXES REQUIRED IN THIS SPACE.
- SPEAKER MNT'D TO BOTTOM OF ACOUSTIC ROOF DECK WITH A METAL ENCLOSURE.
- MOUNT SPEAKER IN A METAL ANGLED ENCLOSURE.
- (4) 4" CONDUIT TO FOR V/D
(1) 3" CONDUIT FOR PAGING
(1) 3" CONDUIT TO FOR FIRE ALARM
(1) 3" CONDUIT FOR FUTURE CCTV
- DETECTOR FOR DROP DOWN FIRE DOOR. *Mount here if General Alarm not trouble* RFI # 351
- PROVIDE 1" CONDUIT TO ACCESSIBLE CEILING SPACE. COORDINATE WITH ELECTRICAL PLANS FOR FLOOR BOX TYPE AND LOCATION.
- RACE PHOTOELECTRIC DETECTORS ON THE UNDERSIDE OF SOFFIT OVER THE FIRE SHUTTERS. RFI # 482

SMOKE DETECTORS WILL TYPICALLY MOUNT UNDER CLOUD. NOT ABOVE CLOUD @ STRUCTURE RFI # 140

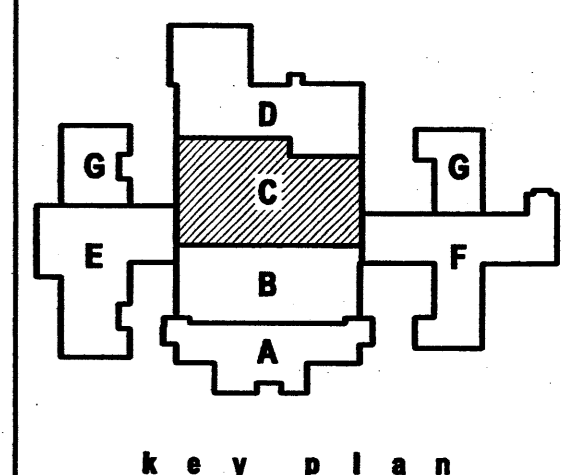
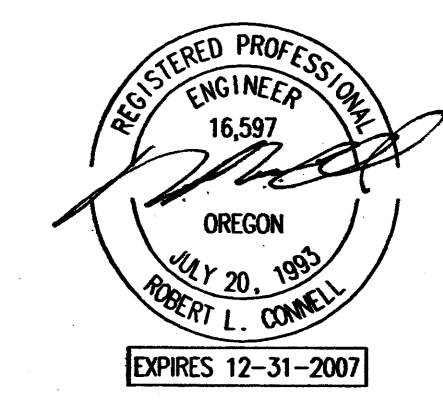
SIGNAL PLAN SECTOR 'B'
SCALE: 1/8" = 1'



NEW ELEMENTARY AND MIDDLE SCHOOL

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phase | Bid Package No. 2

date | January 3, 2008

ADD | October 17, 2007

ADD | October 26, 2007

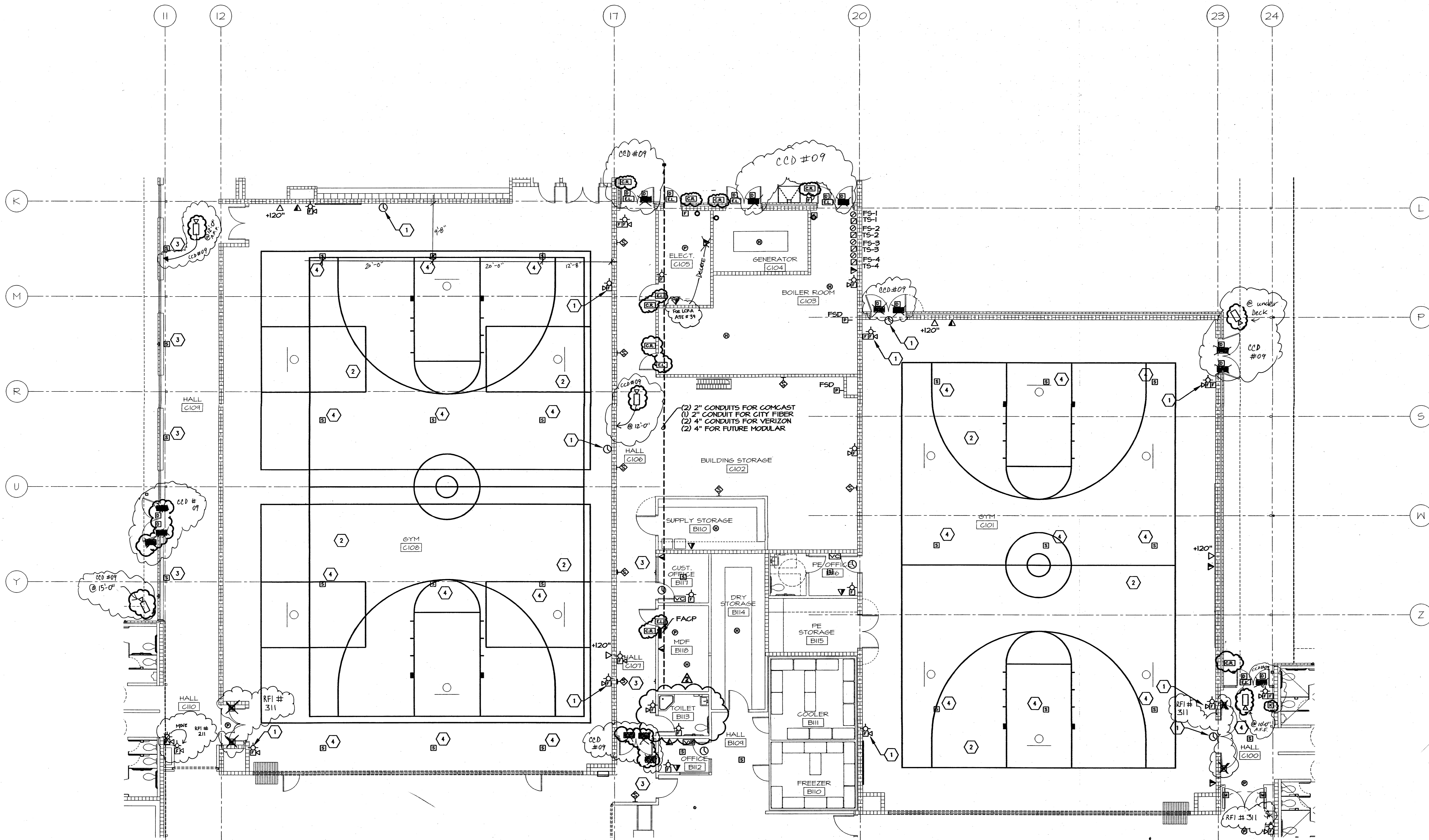
ADD | November 2, 2007

ADD | November 5, 2007

project # | 06022

Signal Plan
Sector 'C'

E4.5



GENERAL NOTES

- A. COORDINATE EXACT LOCATIONS OF ALL WIRING DEVICES WITH ARCHITECT PRIOR TO ROUGH-IN.
- B. MAINTAIN FIRE RATING WHERE BACKBOXES OR OTHER DEVICES ARE INSTALLED IN FIRE RATED WALLS OR CEILINGS. COORDINATE WITH ARCHITECTURAL PLANS.
- C. ALL LOW VOLTAGE OUTLETS ARE ROUGH-IN ONLY. PROVIDE A 1" C. FROM ACCESSIBLE CEILING SPACE TO AN EXTRA DEEP, DBL GANG JUNCTION BOX WITH A SINGLE GANG REDUCER RING. PROVIDE END CONNECTORS WITH SCREW ON PLASTIC BUSHING AT THE ENDS OF ALL CONDUITS, UNLESS OTHERWISE NOTED ON 'T' SERIES SHEETS.
- D. COORDINATE ALL LOCATIONS OF FIRE/SMOKE DAMPERS (FSD) AND SMOKE DAMPERS (SD) WITH MECHANICAL PLANS.
- E. CAMERA'S ARE SHOWN FOR ROUGH-IN ONLY. PROVIDE 1" CONDUIT TO ACCESSIBLE CEILING SPACE. VERIFY EXACT HEIGHT WITH OWNER PRIOR TO PLACING BACK BOX.
- F. SECURITY LOCATIONS ARE SHOWN FOR ROUGH-IN ONLY. PROVIDE 1/2" CONDUIT TO ACCESSIBLE CEILING SPACE. VERIFY EXACT REQUIREMENTS AND HEIGHT WITH OWNER.
- G. LOCATIONS SHOWN FOR LOW VOLTAGE DEVICES, [] [] [] [] [] [] [] [] [] [] ARE SHOWN IN CONJUNCTION WITH THE 'T' SERIES SHEETS. VERIFY ALL LOCATIONS, HEIGHT, AND REQUIREMENTS. ANY DISCREPANCY WILL NEED TO BE BROUGHT TO THE ATTENTION OF THE ARCHITECT.
- H. DETECTORS WILL TYPICALLY MOUNT UNDER CLOUD. NOT ABOVE CLOUD AT STRUCTURE
for RFI # 440

RFI #141
go to
fill in 'T' sheets
for layout

PLAN NOTES

- 1 PROVIDE MANUFACTURER RECOMMENDED WIREGUARD.
- 2 SEE SHEET SS11 FOR ADDITIONAL CONDUITS AND BACK BOXES REQUIRED IN THIS SPACE.
- 3 RECESS SPEAKER INTO WALL CENTER AT 108".
- 4 SPEAKER MNTD TO BOTTOM OF ACOUSTIC ROOF DECK WITH A METAL ENCLOSURE.

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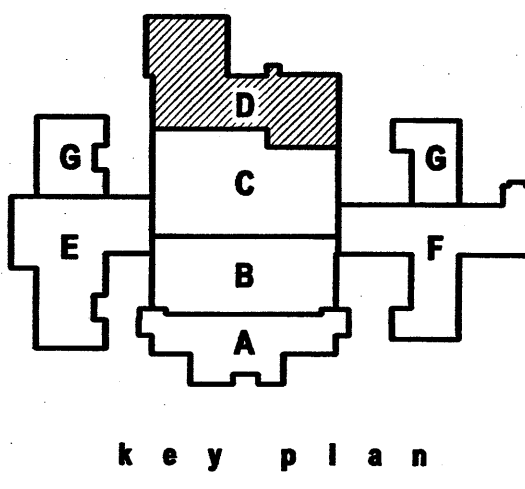
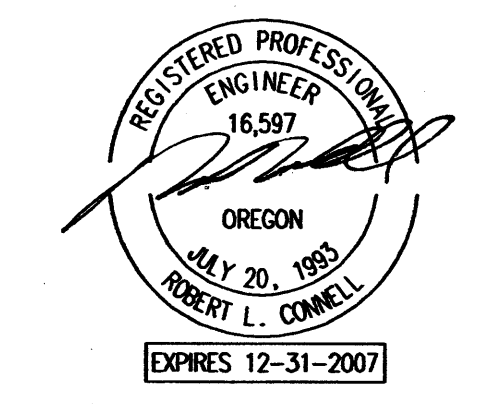
SIGNAL PLAN SECTOR 'C'
E4.5 SCALE: 1/8" = 1'



NEW ELEMENTARY AND MIDDLE SCHOOL

Sherwood School District 88J

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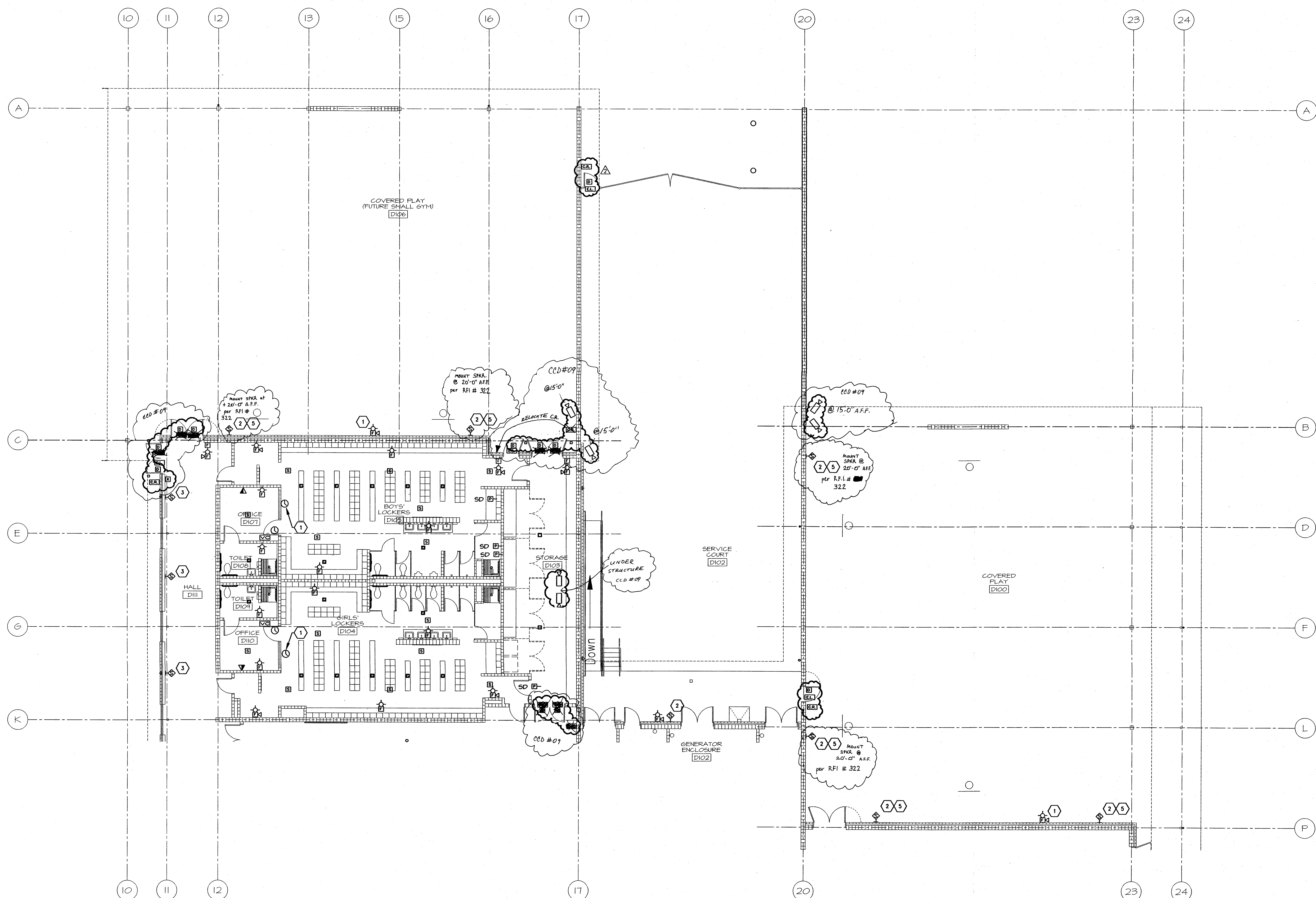
phase | Bid Package No. 2

date	January 3, 2008
ADD	October 17, 2007
ADD	October 26, 2007
ADD	November 2, 2007
ADD	November 5, 2007

project # | 06022

Signal Plan
Sector 'D'

E4.6



GENERAL NOTES

- A. COORDINATE EXACT LOCATIONS OF ALL WIRING DEVICES WITH ARCHITECT PRIOR TO ROUGH-IN.
- B. MAINTAIN FIRE RATINGS WHERE BACKBOXES OR OTHER DEVICES ARE INSTALLED IN FIRE RATED WALLS OR CEILINGS. COORDINATE WITH ARCHITECTURAL PLANS.
- C. ALL LOW VOLTAGE OUTLETS ARE ROUGH-IN ONLY. PROVIDE A 1" C. FROM ACCESSIBLE CEILING SPACE TO AN EXTRA DEEP, DBL GANG JUNCTION BOX WITH A SINGLE GANG REDUCER RING. PROVIDE END CONNECTORS WITH SCREEN ON PLASTIC BUSHING AT THE ENDS OF ALL CONDUITS, UNLESS OTHERWISE NOTED ON 'I' SERIES SHEETS.
- D. COORDINATE ALL LOCATIONS OF FIRE/SMOKE DAMPERS (FSD) AND SMOKE DAMPERS (SD) WITH MECHANICAL PLANS.
- E. CAMERAS ARE SHOWN FOR ROUGH-IN ONLY. PROVIDE 1" CONDUIT TO ACCESSIBLE CEILING SPACE. VERIFY EXACT HEIGHT WITH OWNER PRIOR TO PLACING BACK BOX.
- G. X LOCATIONS SHOWN FOR LOW VOLTAGE DEVICES; [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [16] [17] [18] [19] [20] [21] [22] [23] [24] ARE SHOWN IN CONJUNCTION WITH THE 'I' SERIES SHEETS. VERIFY ALL LOCATIONS, HEIGHT, AND REQUIREMENTS. ANY DISCREPANCY WILL NEED TO BE BROUGHT TO THE ATTENTION OF THE ARCHITECT.

PLAN NOTES

- 1 PROVIDE MANUFACTURER RECOMMENDED WIREGUARD.
- 2 PROVIDE SPEAKER OUTSIDE GRADE SPEAKER.
- 3 RECESS SPEAKER INTO WALL CENTER AT 108".
- 4 SPEAKER MNTD TO BOTTOM OF ACOUSTIC ROOF DECK WITH A METAL ENCLOSURE.
- 5 WALL MOUNT SPEAKER IN A METAL ANGLED ENCLOSURE.

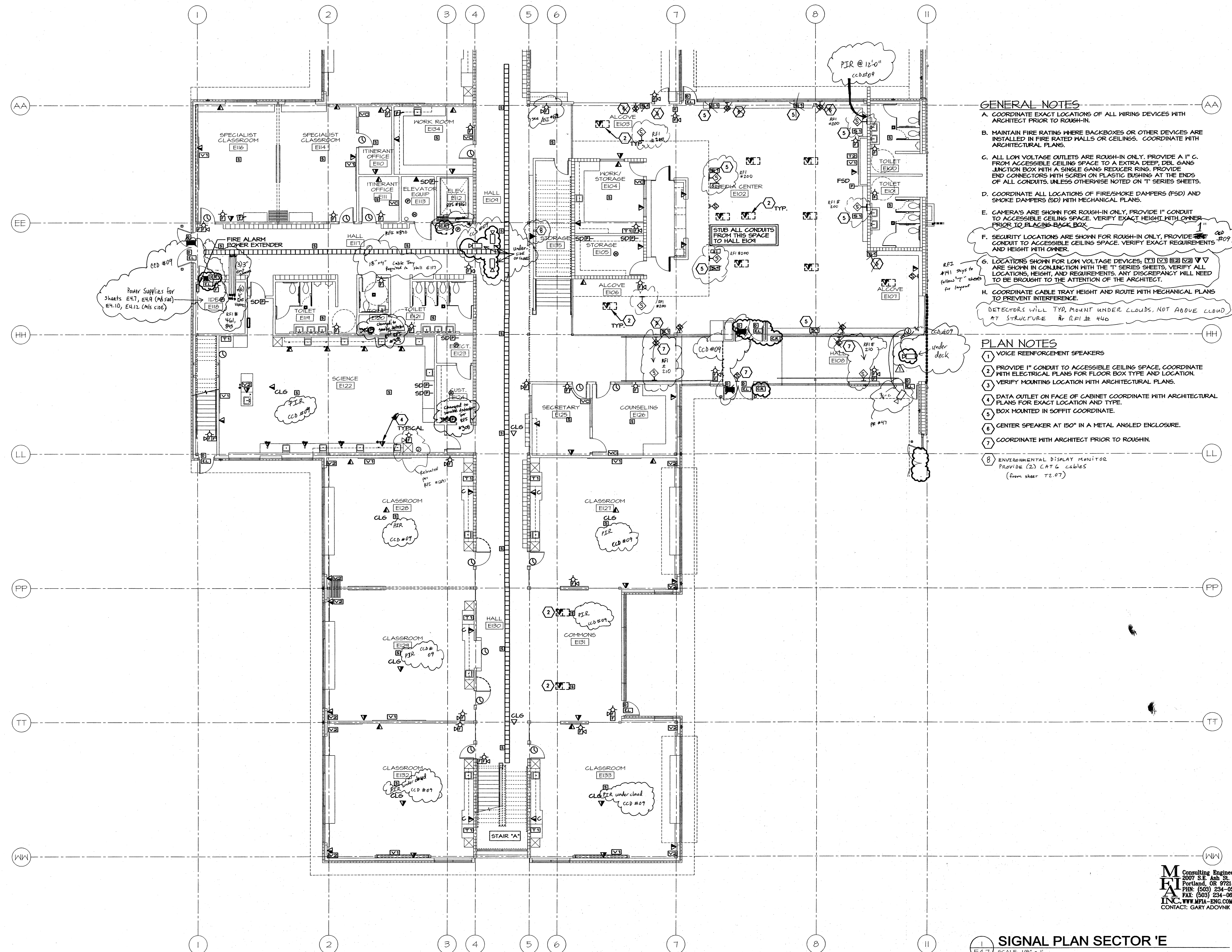
DETECTORS WILL TYP. MOUNT UNDER CLOUD. NOT ABOVE STRUCTURE PER RFI # 440

SECURITY LOCATIONS ARE SHOWN FOR ROUGH-IN ONLY. PROVIDE 1" CONDUIT TO ACCESSIBLE CEILING SPACE VERIFY REQ. W/ OWNER

SIGNAL PLAN SECTOR 'D'
SCALE: 1/8" = 1'

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RFI #44 says to follow 'I' sheets for layout



GENERAL NOTES

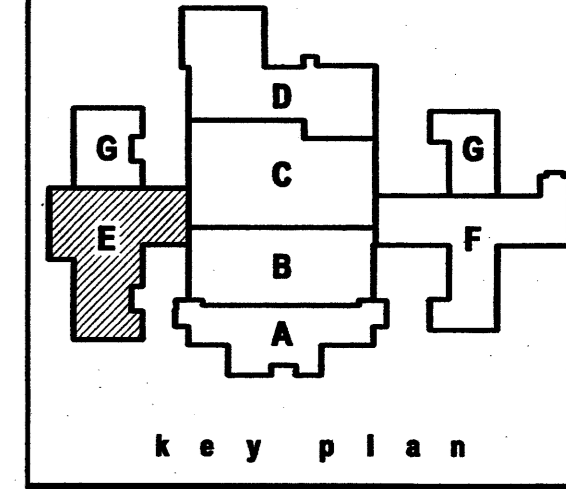
- A. COORDINATE EXACT LOCATIONS OF ALL WIRING DEVICES WITH ARCHITECT PRIOR TO ROUGH-IN.
 - B. MAINTAIN FIRE RATINGS WHERE BACKBOXES OR OTHER DEVICES ARE INSTALLED IN FIRE RATED WALLS OR CEILINGS. COORDINATE WITH ARCHITECTURAL PLANS.
 - C. ALL LOW VOLTAGE OUTLETS ARE ROUGH-IN ONLY. PROVIDE A 1" C. FROM ACCESSIBLE CEILING SPACE TO AN EXTRA DEEP, DEL. GANG JUNCTION BOX WITH A SINGLE GANG REDUCER RING. PROVIDE END CONNECTORS WITH SCREWS ON PLASTIC BUSHING AT THE ENDS OF ALL CONDUITS. UNLESS OTHERWISE NOTED ON "T" SERIES SHEETS.
 - D. COORDINATE ALL LOCATIONS OF FIRE/SMOKE DAMPERS (FSD) AND SMOKE DAMPERS (SD) WITH MECHANICAL PLANS.
 - E. CAMERAS ARE SHOWN FOR ROUGH-IN ONLY. PROVIDE 1" CONDUIT TO ACCESSIBLE CEILING SPACE. VERIFY EXACT HEIGHT WITH OWNER PRIOR TO PLACING BACK BOX.
 - F. SECURITY LOCATIONS ARE SHOWN FOR ROUGH-IN ONLY. PROVIDE 1" CONDUIT TO ACCESSIBLE CEILING SPACE. VERIFY EXACT REQUIREMENTS AND HEIGHT WITH OWNER.
 - G. LOCATIONS SHOWN FOR LOW VOLTAGE DEVICES, (T) (V) (E) (S) (V) (V) ARE SHOWN IN CONJUNCTION WITH THE "T" SERIES SHEETS. VERIFY ALL LOCATIONS, HEIGHT, AND REQUIREMENTS. ANY DISCREPANCY WILL NEED TO BE BROUGHT TO THE ATTENTION OF THE ARCHITECT.
 - H. COORDINATE CABLE TRAY HEIGHT AND ROUTE WITH MECHANICAL PLANS TO PREVENT INTERFERENCE.
- DETECTORS WILL TYP. MOUNT UNDER CLOUDS, NOT ABOVE CLOUD AT STRUCTURE Rf RFI # 440

PLAN NOTES

- 1 VOICE REINFORCEMENT SPEAKERS
- 2 PROVIDE 1" CONDUIT TO ACCESSIBLE CEILING SPACE. COORDINATE WITH ELECTRICAL PLANS FOR FLOOR BOX TYPE AND LOCATION.
- 3 VERIFY MOUNTING LOCATION WITH ARCHITECTURAL PLANS.
- 4 DATA OUTLET ON FACE OF CABINET COORDINATE WITH ARCHITECTURAL PLANS FOR EXACT LOCATION AND TYPE.
- 5 BOX MOUNTED IN SOFFIT COORDINATE.
- 6 CENTER SPEAKER AT 150° IN A METAL ANGLED ENCLOSURE.
- 7 COORDINATE WITH ARCHITECT PRIOR TO ROUGH-IN.
- 8 ENVIRONMENTAL DISPLAY MONITOR PROVIDE (2) CAT 6 CABLES (from sheet T2.07)

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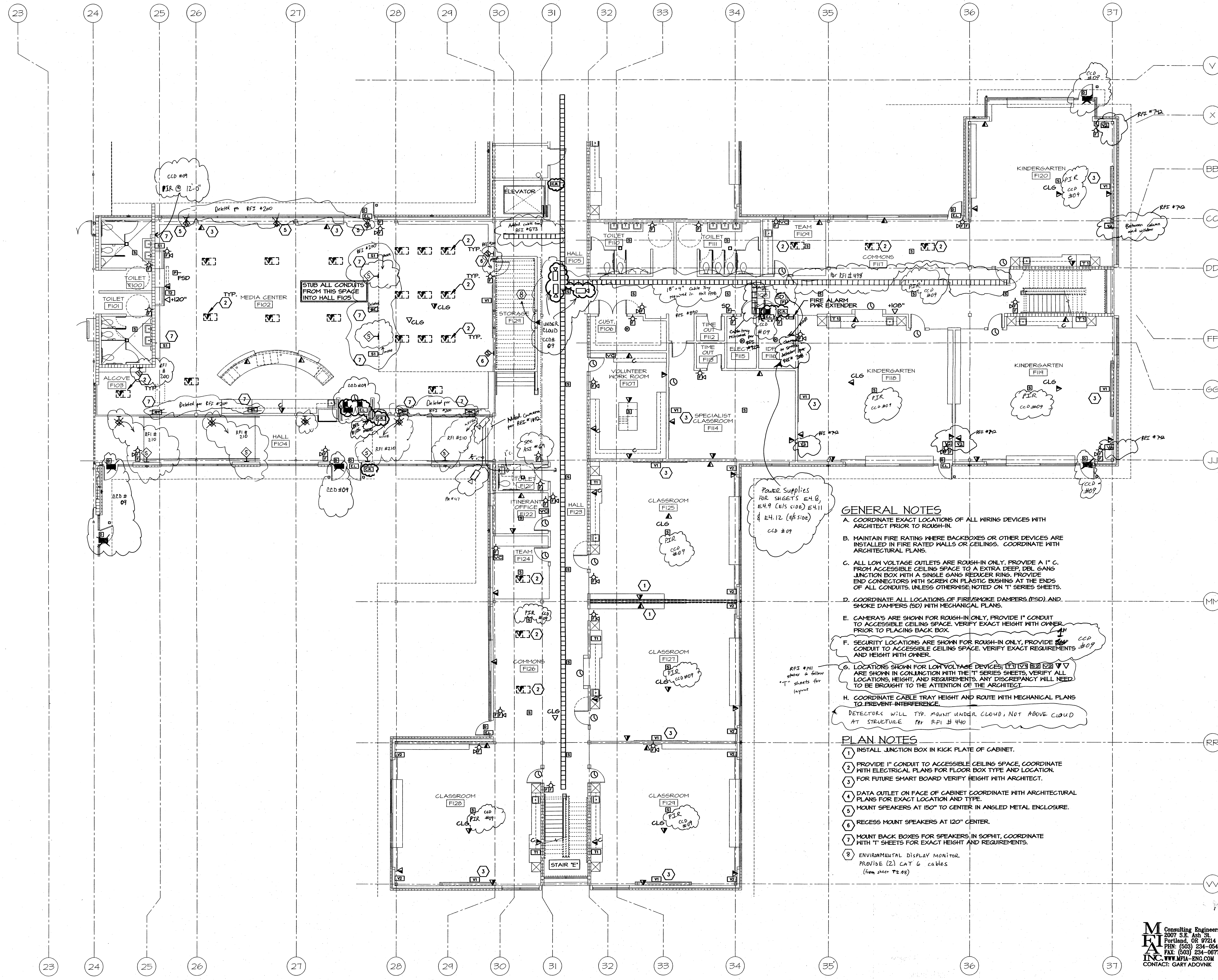


phase Bid Package No. 2	
date	January 3, 2008
ADD	October 17, 2007
ADD	October 26, 2007
ADD	November 2, 2007
ADD	November 5, 2007

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SIGNAL PLAN SECTOR 'E'
E4.7 SCALE: 1/8" = 1'

project # | 06022
Signal Plan
Sector 'E'
E4.7



- GENERAL NOTES**
- A. COORDINATE EXACT LOCATIONS OF ALL WIRING DEVICES WITH ARCHITECT PRIOR TO ROUGH-IN.
 - B. MAINTAIN FIRE RATINGS WHERE BACKBOXES OR OTHER DEVICES ARE INSTALLED IN FIRE RATED WALLS OR CEILINGS. COORDINATE WITH ARCHITECTURAL PLANS.
 - C. ALL LOW VOLTAGE OUTLETS ARE ROUGH-IN ONLY. PROVIDE A 1" C. FROM ACCESSIBLE CEILING SPACE TO A EXTRA DEEP, DIE GANG JUNCTION BOX WITH A SINGLE GANG REDUCER RING. PROVIDE END CONNECTORS WITH SCREW ON PLASTIC BUSHING AT THE ENDS OF ALL CONDUITS. UNLESS OTHERWISE NOTED ON 'T' SERIES SHEETS.
 - D. COORDINATE ALL LOCATIONS OF FIRE/SMOKE DAMPERS (FSD) AND SMOKE DAMPERS (SD) WITH MECHANICAL PLANS.
 - E. CAMERAS ARE SHOWN FOR ROUGH-IN ONLY. PROVIDE 1" CONDUIT TO ACCESSIBLE CEILING SPACE. VERIFY EXACT HEIGHT WITH OWNER PRIOR TO PLACING BACK BOX.
 - F. SECURITY LOCATIONS ARE SHOWN FOR ROUGH-IN ONLY. PROVIDE 1" CONDUIT TO ACCESSIBLE CEILING SPACE. VERIFY EXACT REQUIREMENTS AND HEIGHT WITH OWNER.
 - G. LOCATIONS SHOWN FOR LOW VOLTAGE DEVICES (1, 2, 3, 4, 5, 6, 7, 8, 9) ARE SHOWN IN CONJUNCTION WITH THE 'T' SERIES SHEETS. VERIFY ALL LOCATIONS, HEIGHT, AND REQUIREMENTS. ANY DISCREPANCY WILL NEED TO BE BROUGHT TO THE ATTENTION OF THE ARCHITECT.
 - H. COORDINATE CABLE TRAY HEIGHT AND ROUTE WITH MECHANICAL PLANS TO PREVENT INTERFERENCE.
- DETECTORS WILL TYP. MOUNT UNDER CLOUD, NOT ABOVE CLOUD AT STRUCTURE REF RPI # 440
- PLAN NOTES**
- 1. INSTALL JUNCTION BOX IN KICK PLATE OF CABINET.
 - 2. PROVIDE 1" CONDUIT TO ACCESSIBLE CEILING SPACE. COORDINATE WITH ELECTRICAL PLANS FOR FLOOR BOX TYPE AND LOCATION.
 - 3. FOR FUTURE SMART BOARD VERIFY HEIGHT WITH ARCHITECT.
 - 4. DATA OUTLET ON FACE OF CABINET COORDINATE WITH ARCHITECTURAL PLANS FOR EXACT LOCATION AND TYPE.
 - 5. MOUNT SPEAKERS AT 150" TO CENTER IN ANGLED METAL ENCLOSURE.
 - 6. RECESS MOUNT SPEAKERS AT 120" CENTER.
 - 7. MOUNT BACK BOXES FOR SPEAKERS IN SOPHIT. COORDINATE WITH 'T' SHEETS FOR EXACT HEIGHT AND REQUIREMENTS.
 - 8. ENVIRONMENTAL DISPLAY MONITOR PROVIDE (2) CAT 6 cables (from sheet F2.05)

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REGISTERED PROFESSIONAL ENGINEER
 16,587
 OREGON
 MAY 20, 1993
 ROBERT L. OWEN
 EXPIRES 12-31-2007

key plan

phase	Bid Package No. 2
date	January 3, 2008
ADD	October 17, 2007
ADD	October 26, 2007
ADD	November 2, 2007
ADD	November 5, 2007
project #	06022
Signal Plan Sector 'F'	

SIGNAL PLAN SECTOR 'F'
 E4.8 SCALE: 1/8" = 1'

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ARCHITECTURE • INTERIORS • PLANNING

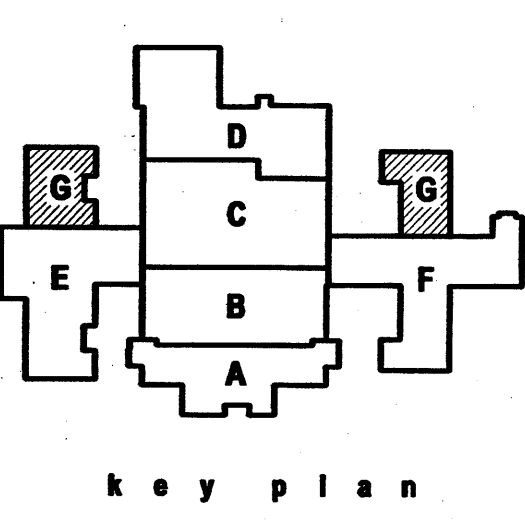
DULL OLSON WEEKES
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NEW ELEMENTARY AND MIDDLE SCHOOL

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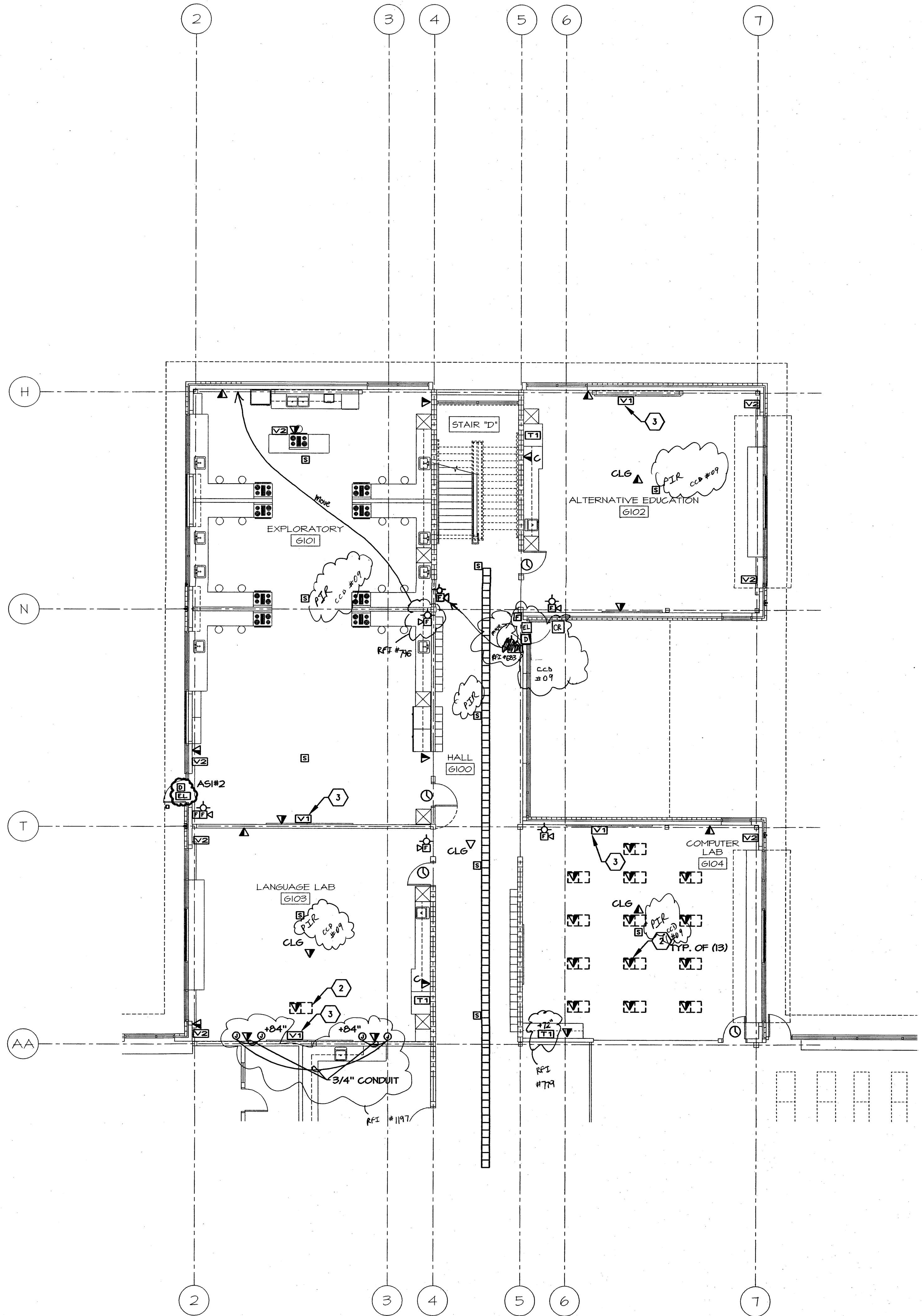
phase | Bid Package No. 2

date	January 3, 2008
ADD	October 17, 2007
ADD	October 26, 2007
ADD	November 2, 2007
ADD	November 5, 2007

project # | 06022

Signal Plan
Sector 'G'
E4.9

MFA Consulting Engineers
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1 SIGNAL PLAN SECTOR 'G' - MS SIDE
E4.9 SCALE: 1/8" = 1'-0"

GENERAL NOTES

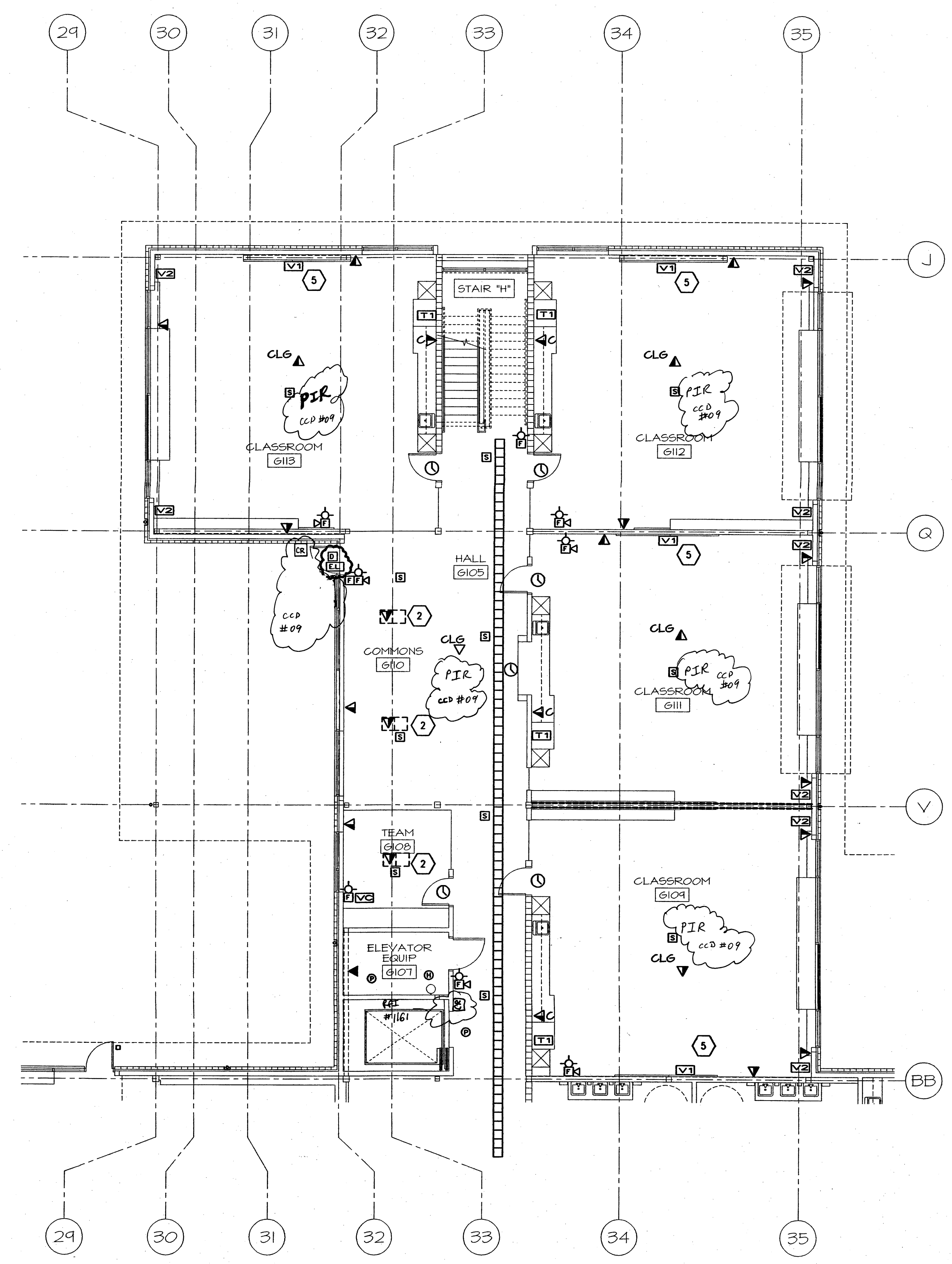
- A. COORDINATE EXACT LOCATIONS OF ALL WIRING DEVICES WITH ARCHITECT PRIOR TO ROUGH-IN.
- B. MAINTAIN FIRE RATING WHERE BACKBOXES OR OTHER DEVICES ARE INSTALLED IN FIRE RATED WALLS OR CEILINGS. COORDINATE WITH ARCHITECTURAL PLANS.
- C. ALL LOW VOLTAGE OUTLETS ARE ROUGH-IN ONLY. PROVIDE A 1" C. FROM ACCESSIBLE CEILING SPACE TO A EXTRA DEEP DSL GANG JUNCTION BOX WITH A SINGLE GANG REDUCER RING. PROVIDE END CONNECTORS WITH SCREEN ON PLASTIC BUSHING AT THE ENDS OF ALL CONDUITS. UNLESS OTHERWISE NOTED ON 'T' SERIES SHEETS.
- D. COORDINATE ALL LOCATIONS OF FIRE/SMOKE DAMPERS (FSD) AND SMOKE DAMPERS (SD) WITH MECHANICAL PLANS.
- E. CAMERAS ARE SHOWN FOR ROUGH-IN ONLY. PROVIDE 1" CONDUIT TO ACCESSIBLE CEILING SPACE. VERIFY EXACT HEIGHT WITH OWNER PRIOR TO PLACING BACK BOX.

F. SECURITY LOCATIONS ARE SHOWN FOR ROUGH-IN ONLY. PROVIDE 3/4" CONDUIT TO ACCESSIBLE CEILING SPACE. VERIFY EXACT REQUIREMENTS AND HEIGHT WITH OWNER.

G. LOCATIONS SHOWN FOR LOW VOLTAGE DEVICES, (T) (V) (B) (C) (D) (E) (F) (G) (H) (I) (J) (K) (L) (M) (N) (O) (P) (Q) (R) (S) (T) (U) (V) (W) (X) (Y) (Z) ARE SHOWN IN CONJUNCTION WITH THE 'T' SERIES SHEETS. VERIFY ALL LOCATIONS, HEIGHT, AND REQUIREMENTS. ANY DISCREPANCY WILL NEED TO BE BROUGHT TO THE ATTENTION OF THE ARCHITECT.

H. COORDINATE CABLE TRAY HEIGHT AND ROUTE WITH MECHANICAL PLANS TO PREVENT INTERFERENCE.

I. DETECTORS WILL TYP. MOUNT UNDER CLOUDS, NOT ABOVE AT STRUCTURE PER RFI # 440



2 SIGNAL PLAN SECTOR 'G' - ES
E4.9 SCALE: 1/8" = 1'-0"

PLAN NOTES

- 1 VOICE REINFORCEMENT SPEAKERS
- 2 PROVIDE 1" CONDUIT TO ACCESSIBLE CEILING SPACE. COORDINATE WITH ELECTRICAL PLANS FOR FLOOR BOX TYPE AND LOCATION.
- 3 VERIFY MOUNTING REQUIREMENTS WITH ARCHITECT PRIOR TO ROUGHIN.
- 4 DATA OUTLET ON FACE OF CABINET COORDINATE WITH ARCHITECTURAL PLANS FOR EXACT LOCATION AND TYPE.
- 5 ROUGHIN FOR FUTURE SMART BOARD LOCATION, VERIFY REQUIREMENTS WITH ARCHITECT PRIOR TO ROUGHIN.