

USING AGENCY
APPROVAL

NAME _____
TITLE _____ DATE _____

DEPT. OF GENERAL
SERVICES APPROVAL

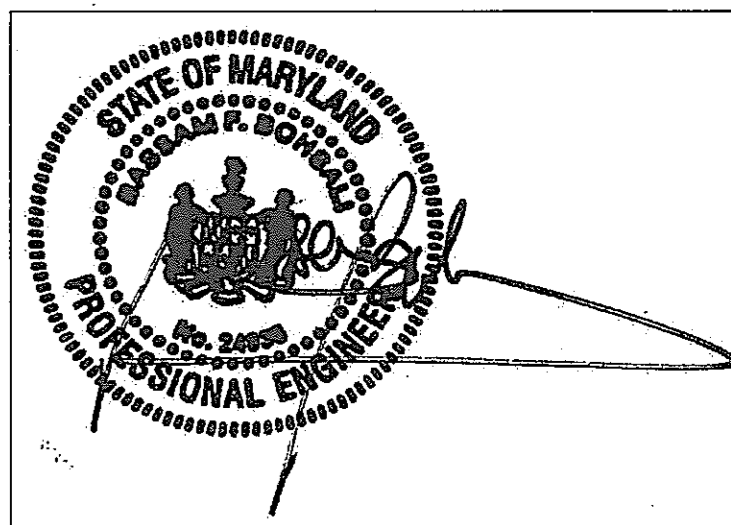
PROJECT MANAGER _____ DATE _____

CHIEF - PROJ. MGT. & DSGN. _____ DATE _____

Issued for _____ Rev _____ Date _____

Issued for	Rev	Date

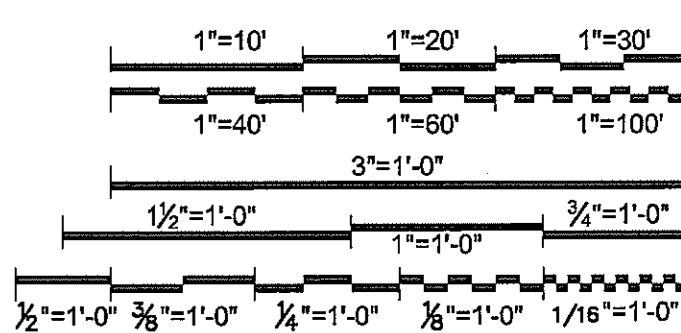
Seals and Signatures



01/05/05

Graphic Scales DATE

Project North



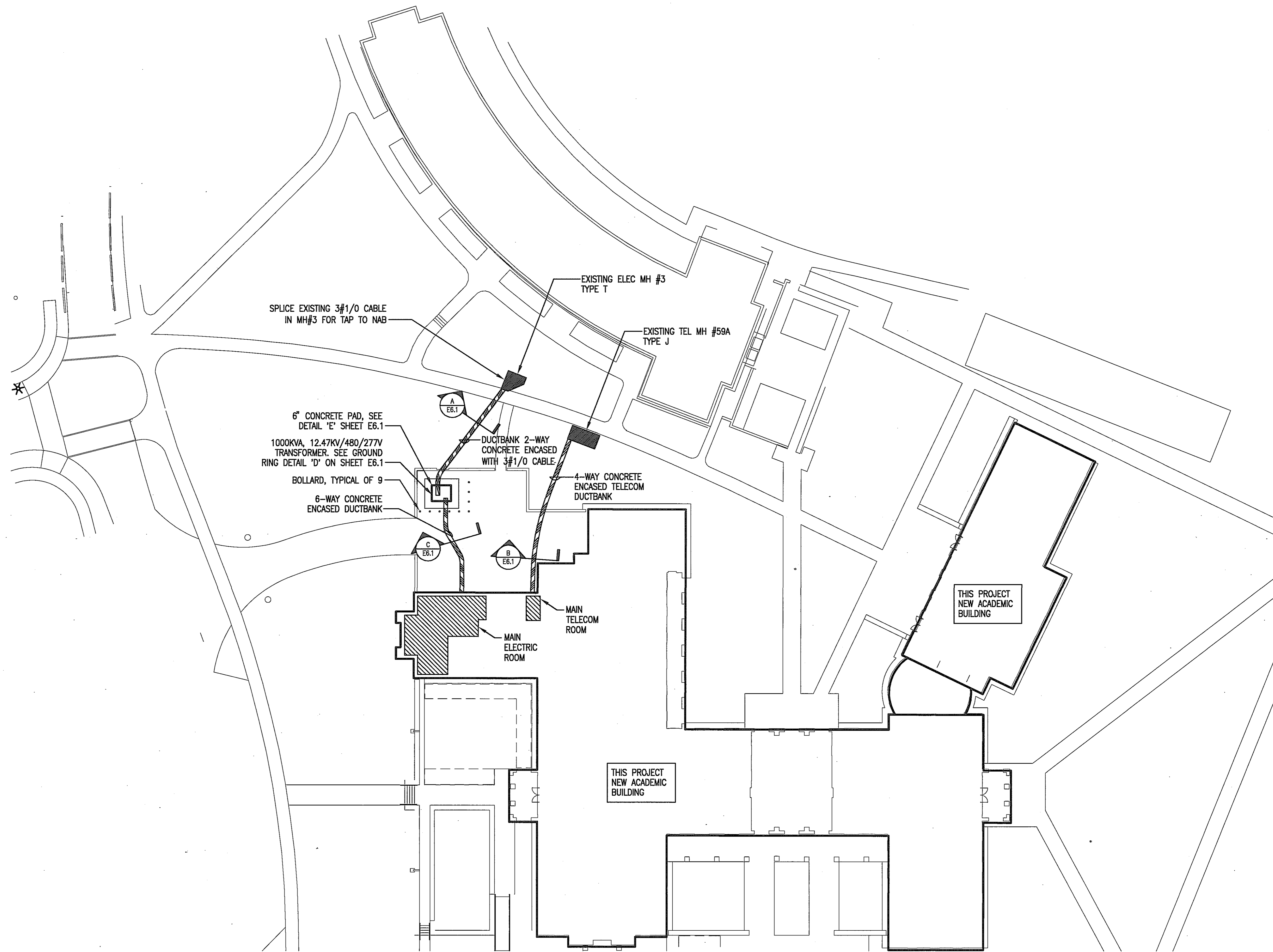
Drawing Title
**ELECTRICAL
SITE PLAN**

1" = 20'

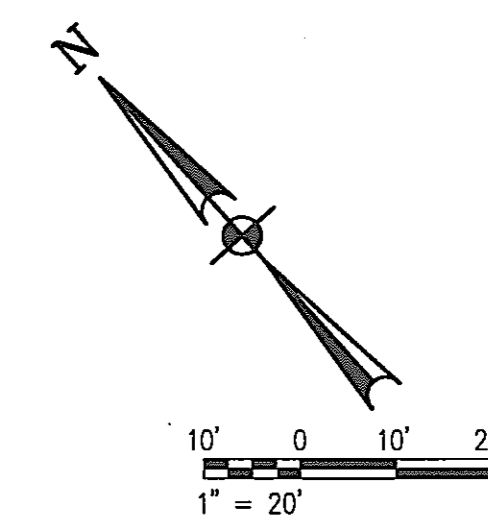
Scale
J-494-020-002 25379.000
DGS Project Number SG Project Number

E1.1

Drawing Number

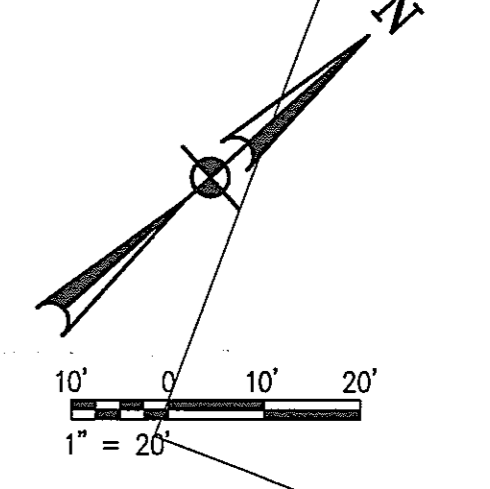
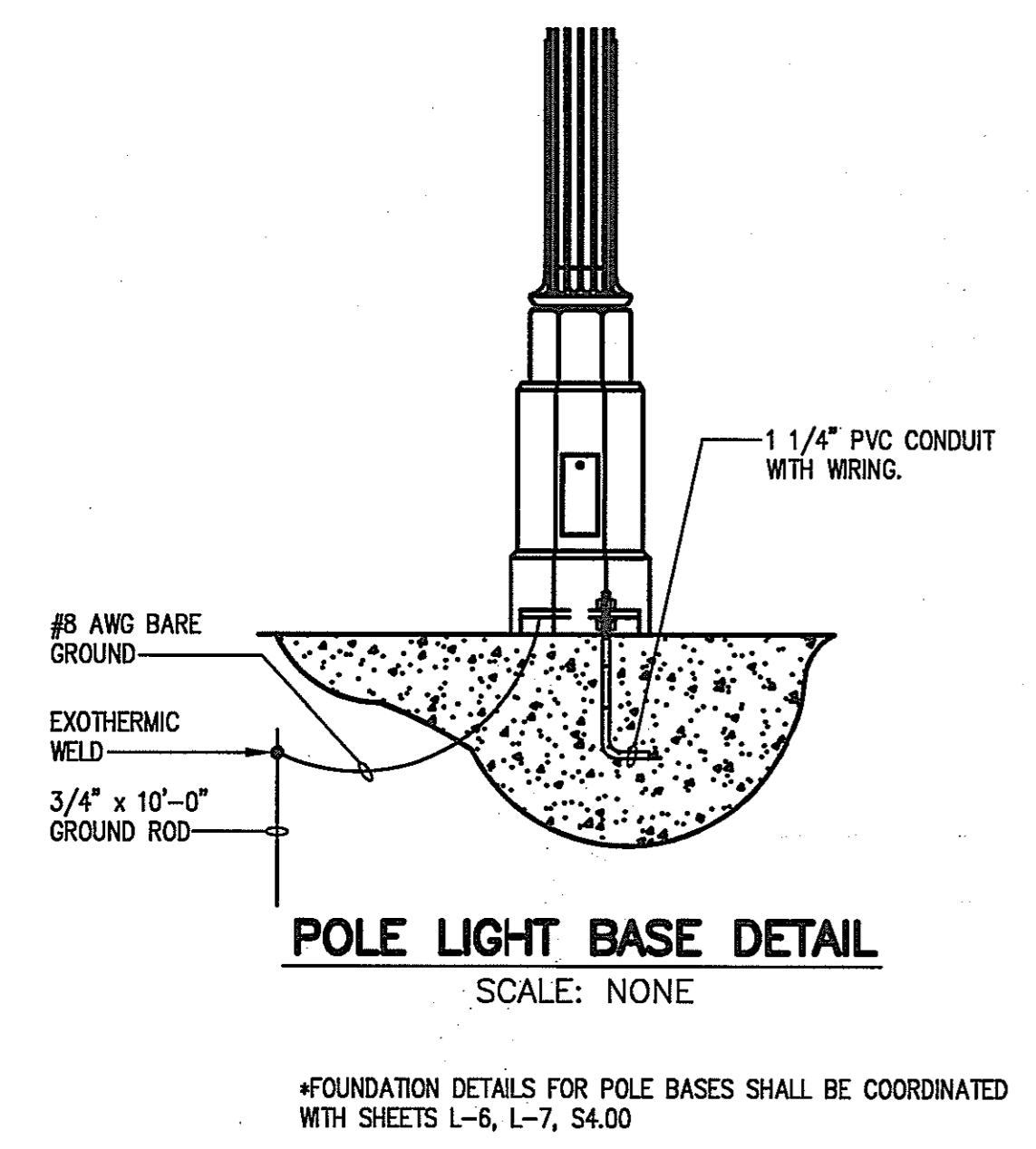
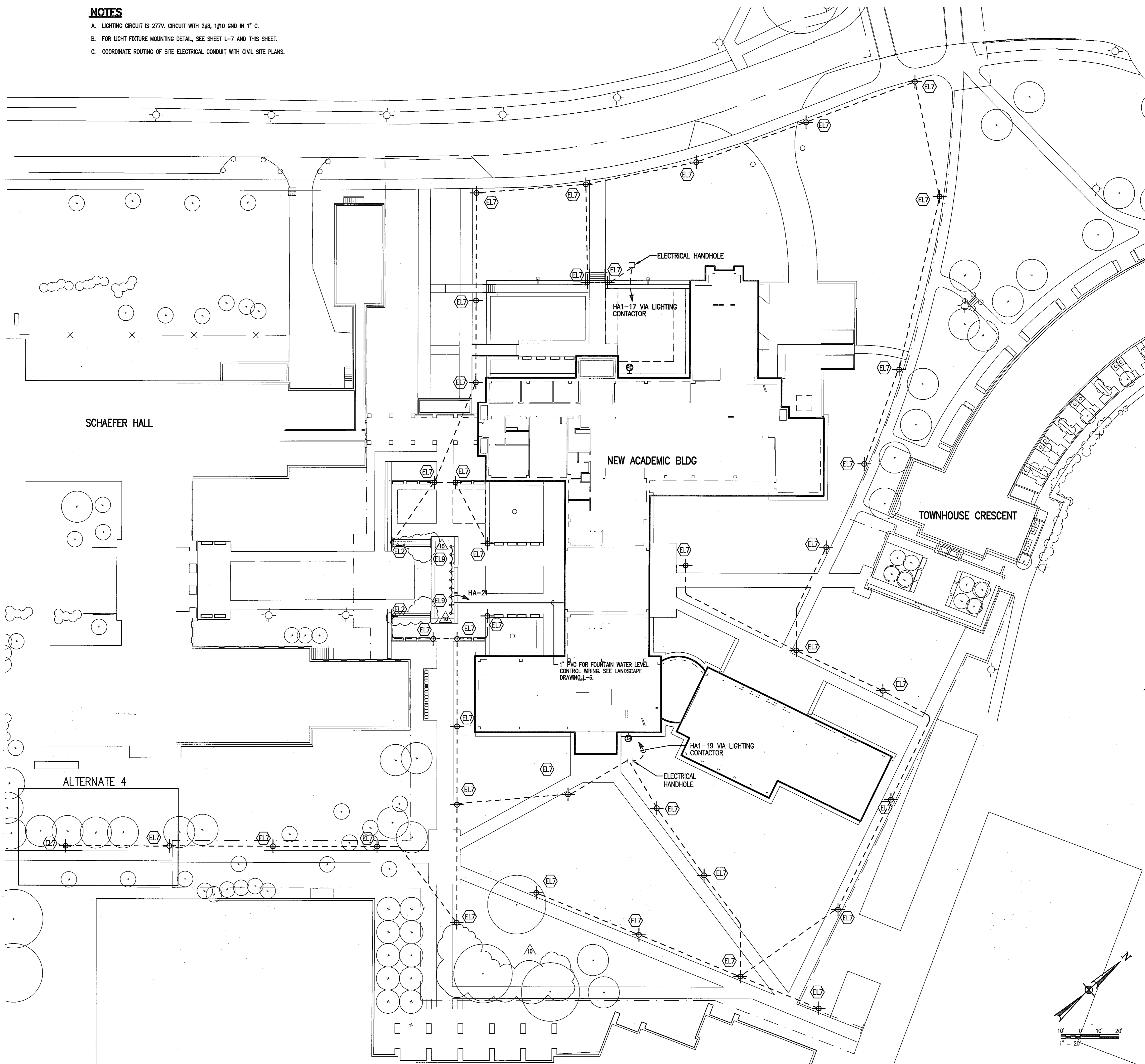


ELECTRICAL SITE PLAN
SCALE: 1" = 20'-0"

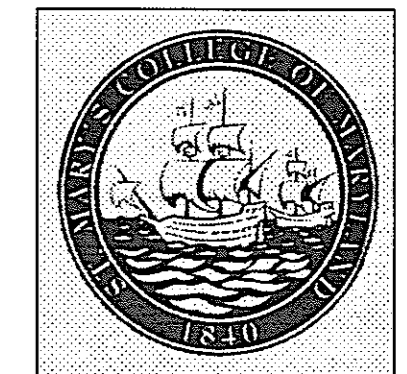


NOTES

- A. LIGHTING CIRCUIT IS 277V. CIRCUIT WITH 2#8, 1#10 GND IN 1" C.
- B. FOR LIGHT FIXTURE MOUNTING DETAIL, SEE SHEET L-7 AND THIS SHEET.
- C. COORDINATE ROUTING OF SITE ELECTRICAL CONDUIT WITH CIVIL SITE PLANS.



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DEPT. OF GENERAL SERVICES APPROVAL

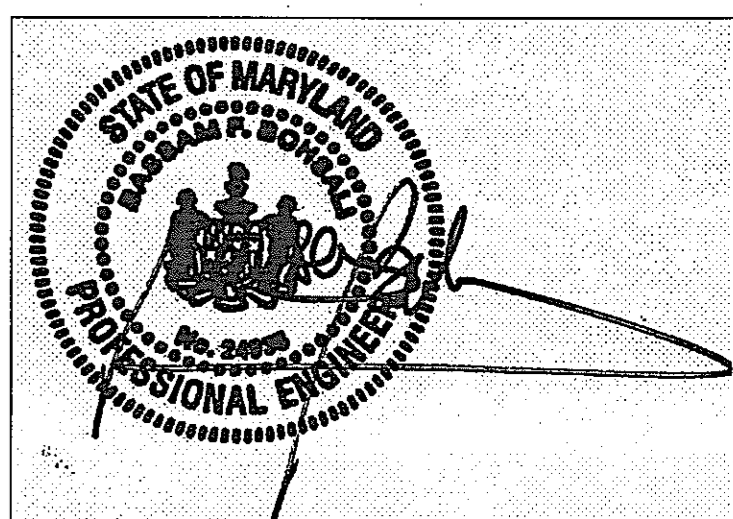
PROJECT MANAGER _____ DATE _____

CHIEF - PROJ. MGT. & DSGN. _____ DATE _____

Issued for _____ Rev _____ Date _____

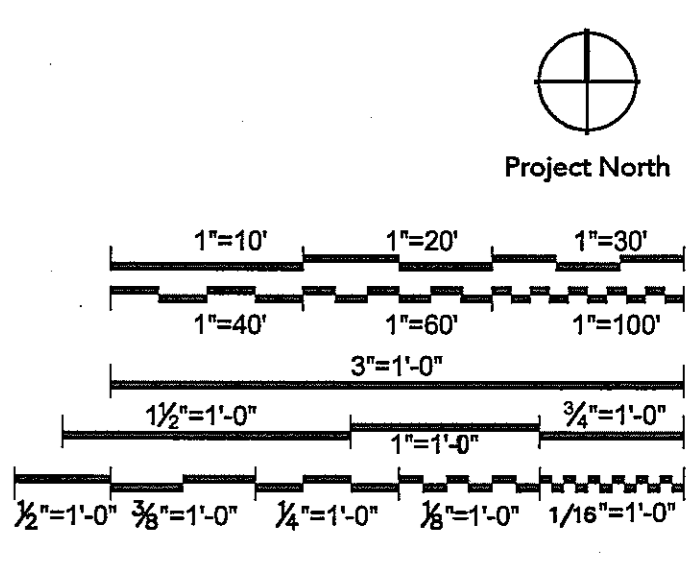
ADDENDUM PB-10 05/13/05

Seals and Signatures



01/05/05 DATE

Graphic Scales



Drawing Title

EXTERIOR LIGHTING PLAN

1" = 20'

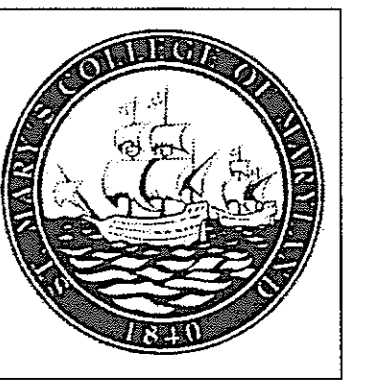
Scale
J-494-020-002 25379.000
DGS Project Number SG Project Number

E1.2

Drawing Number

SITE PLAN - EXTERIOR LIGHTING PLAN
SCALE: 1" = 20'

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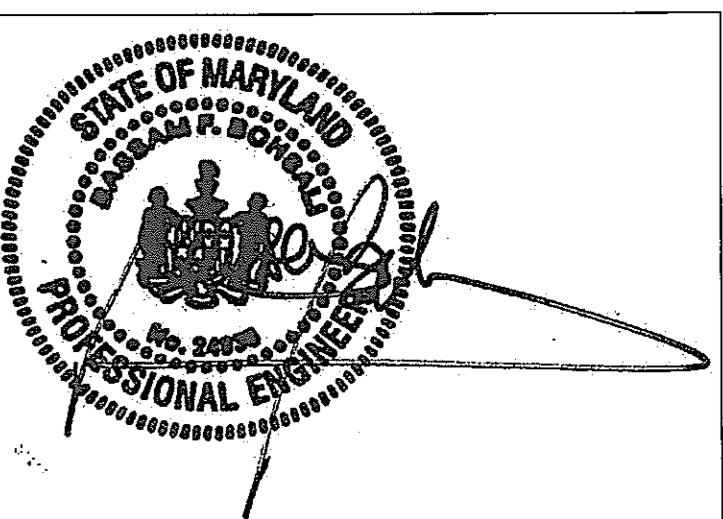
DEPT. OF GENERAL
SERVICES APPROVAL

PROJECT MANAGER _____ DATE _____

CHIEF - PROJ. MGT. & DSGN. _____ DATE _____

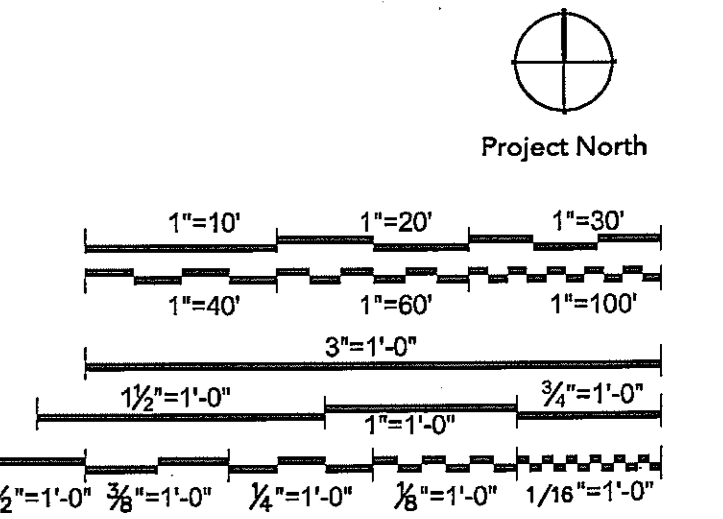
Issued for	Rev	Date

Seals and Signatures



01/05/05

DATE



Drawing Title

**LIGHTING PLAN
BASEMENT NORTH WING**

Scale
1/8"=1'-0"

J-494-020-002 25379.000
DGS Project Number SG Project Number

E2.0.A

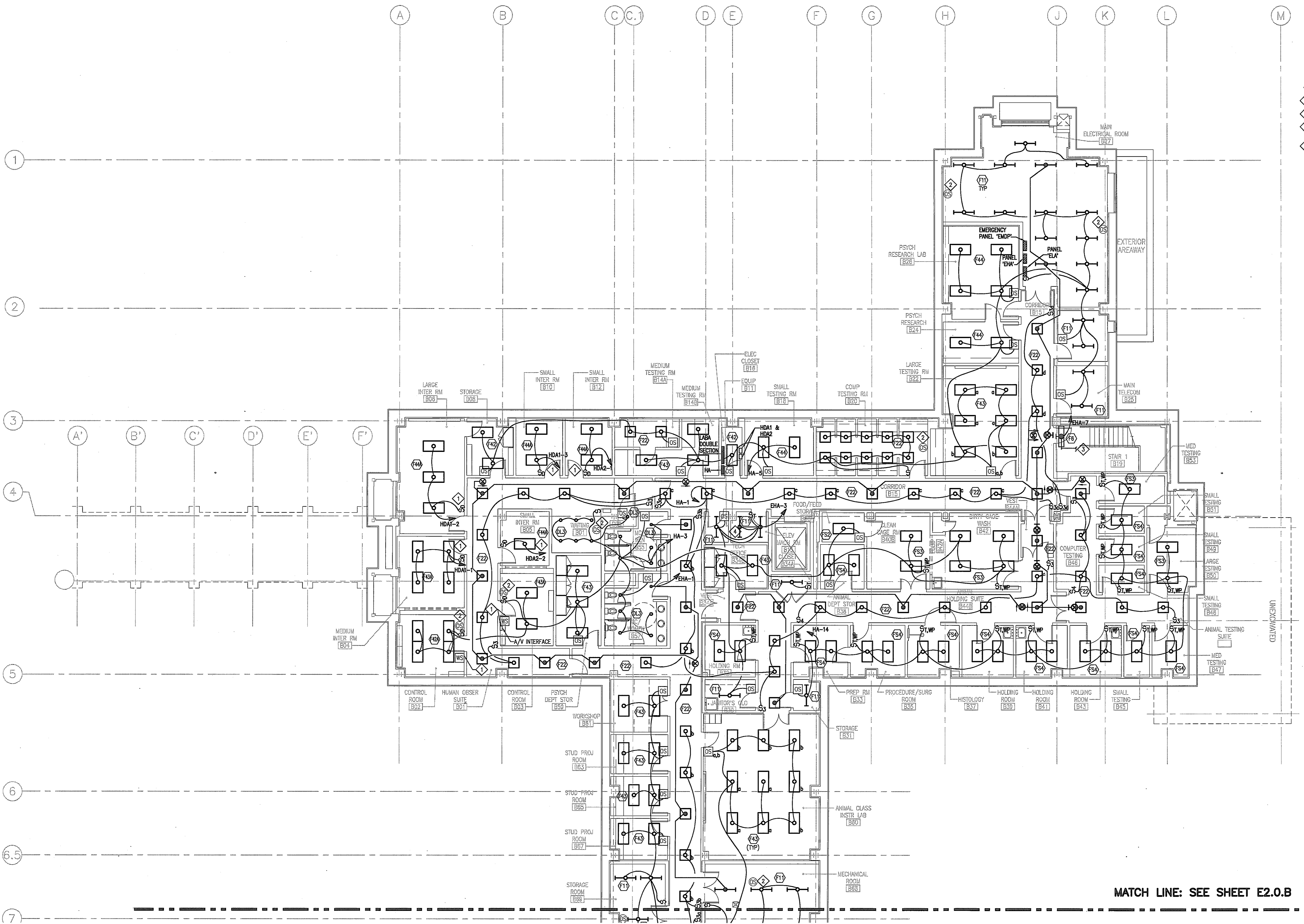
Drawing Number

GENERAL NOTES

- A. SEE SHEET E7.1 FOR LIGHTING FIXTURE SCHEDULE.
- B. ALL BRANCH CIRCUITS SHALL HAVE 2#12 + 1#12G IN 3/4" UON.
- C. CIRCUITING SHOWN IS DIAGRAMMATIC. PROVIDE ADDITIONAL SWITCH LEADS, HOT LEADS, AND RUNNERS AS REQUIRED.
- D. VOLTAGE DROP NOT TO EXCEED 2%.
- E. WHERE MULTIPLE SWITCHES ARE LOCATED TOGETHER, MOUNT ALL SWITCHES UP TO 6 UNDER COMMON COVER PLATE.

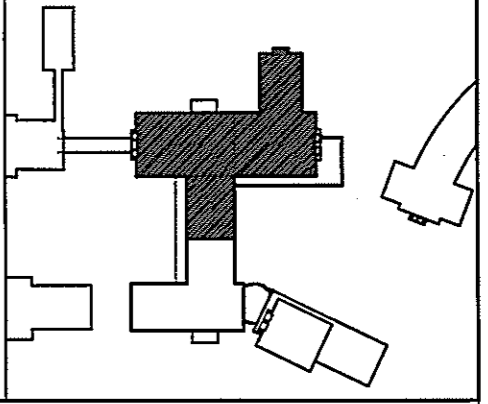
DRAWING NOTES

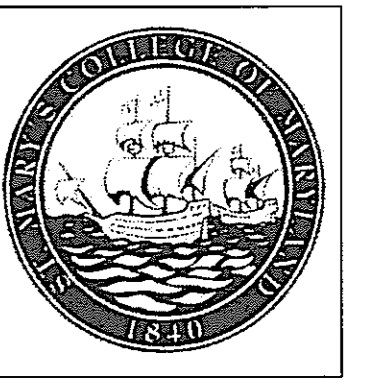
- ◆ REFER TO WIRING DIAGRAM NO. 1 ON SHEET E6.3.
- ◆ REFER TO WIRING DIAGRAM NO. 1 ON SHEET E6.2.
- ◆ STAIR LIGHTING BRANCH CIRCUIT CONTINUES ON E2.1A.
- ◆ ALL EMERGENCY LIGHTS IN ROOM SHALL BE EQUIPPED WITH POWER MONITORING SENSORS THAT AUTOMATICALLY TRANSFER TO EMERGENCY POWER. SEE WIRING DIAGRAMS ON SHEET E6.2.



MATCH LINE: SEE SHEET E2.0.B

**LIGHTING PLAN
BASEMENT FLOOR NORTH WING**
SCALE: 1/8"=1'-0"





GENERAL NOTES

- A. SEE SHEET E7.1 FOR LIGHTING FIXTURE SCHEDULE.
- B. ALL BRANCH CIRCUITS SHALL HAVE 2#12 + 1#12G IN 3/4" CON.
- C. CIRCUITING SHOWN IS DIAGRAMATIC. PROVIDE ADDITIONAL SWITCH LEGS, HOT LEGS, AND RUNNERS AS REQUIRED.
- D. VOLTAGE DROP NOT TO EXCEED 2%.
- E. WHERE MULTIPLE SWITCHES ARE LOCATED TOGETHER, MOUNT ALL SWITCHED UP TO 6 UNDER COMMON COVER PLATE.

DRAWING NOTES

- 1 REFER TO WIRING DIAGRAM NO. 3 ON SHEET E6.2.
- 2 PENDANT LENGTH OF LIGHT FIXTURE F13 TO BE 12".
- 3 ALL EMERGENCY LIGHTS IN THE CLASSROOM SHALL BE EQUIPPED WITH POWER MONITORING SENSORS THAT AUTOMATICALLY TRANSFER TO EMERGENCY POWER UPON LOSS OF NORMAL POWER. SEE WIRING DIAGRAMS ON SHEET E6.2.
- 4 STAIR LIGHTING BRANCH CIRCUIT CONTINUES ON E2.1.B.
- 5 REFER TO WIRING DIAGRAM NO. 1 ON SHEET E6.2. COORDINATE PLACEMENT TO AVOID MECHANICAL SYSTEMS.

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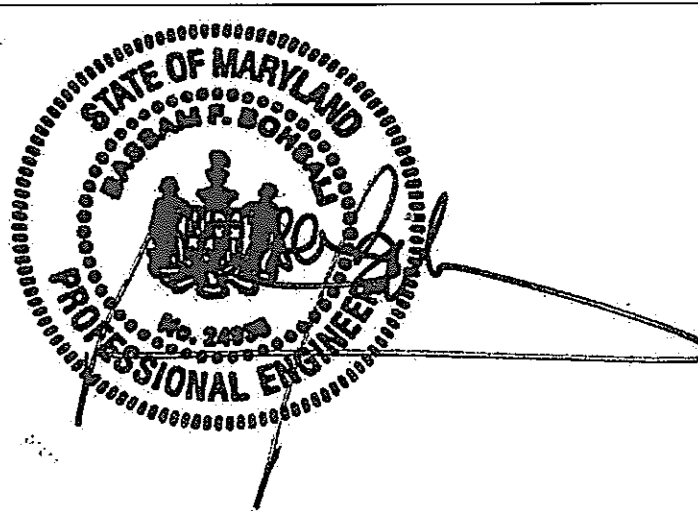
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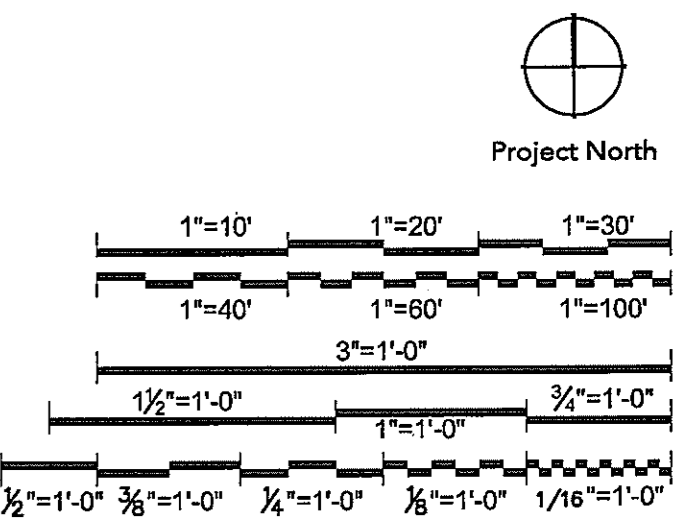
Issued for	Rev	Date

Seals and Signatures



01/05/05

DATE



Drawing Title

**LIGHTING PLAN
BASEMENT SOUTH WING**

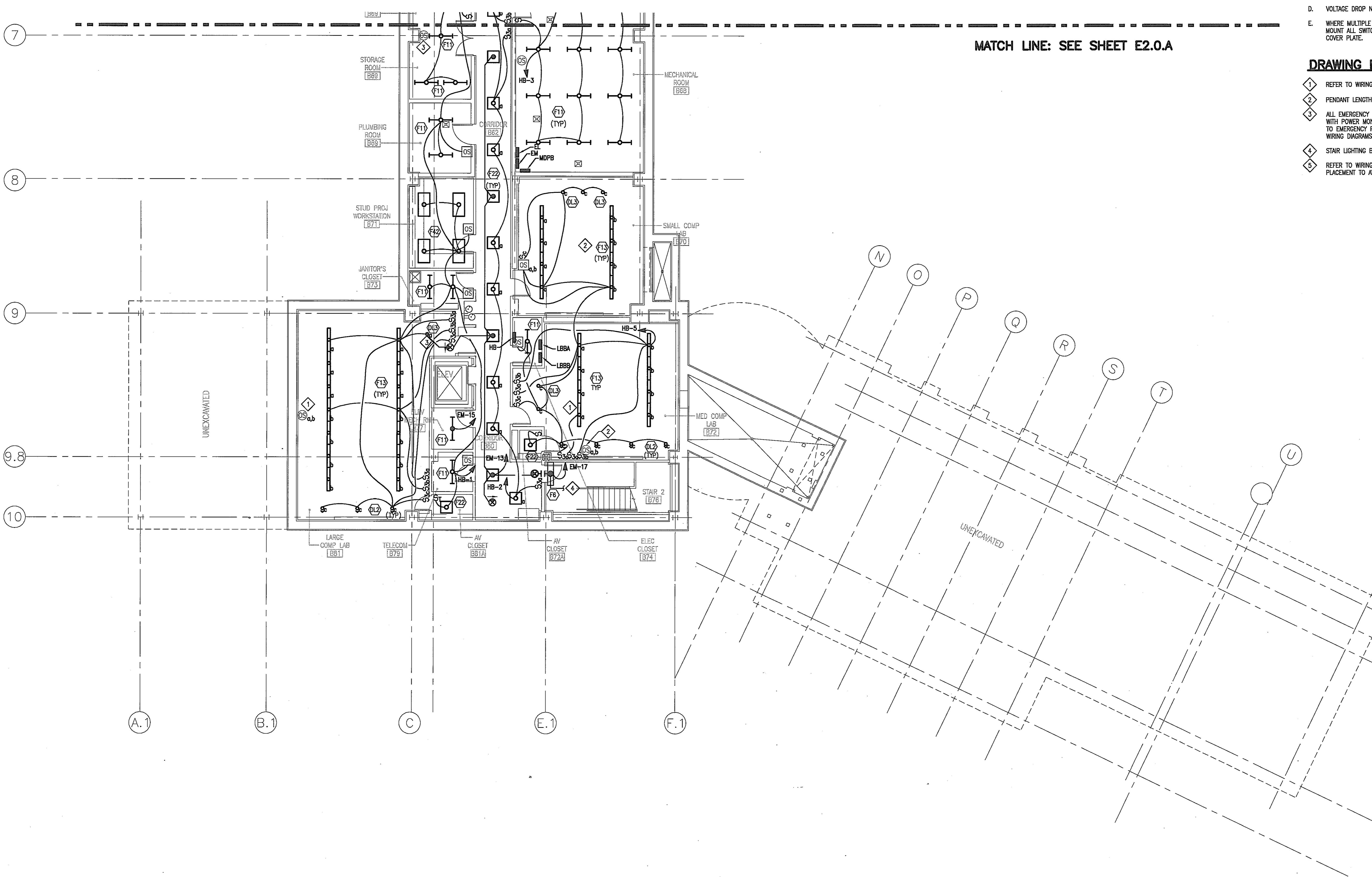
1/8" = 1'-0"

Scale
J-494-020-002 25379.000
DGS Project Number SG Project Number

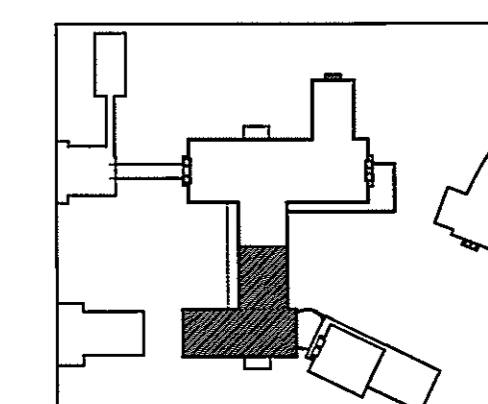
E2.0.B

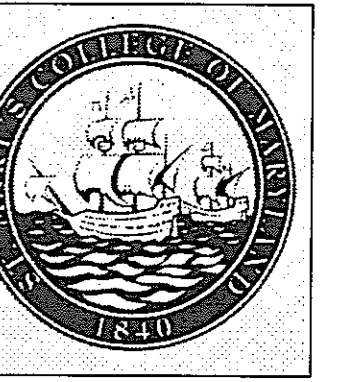
Drawing Number

MATCH LINE: SEE SHEET E2.0.A



**LIGHTING PLAN
BASEMENT FLOOR SOUTH WING**
SCALE: 1/8" = 1'-0"





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NAME _____ DATE _____
TITLE _____

DEPT. OF GENERAL SERVICES APPROVAL

PROJECT MANAGER _____ DATE _____

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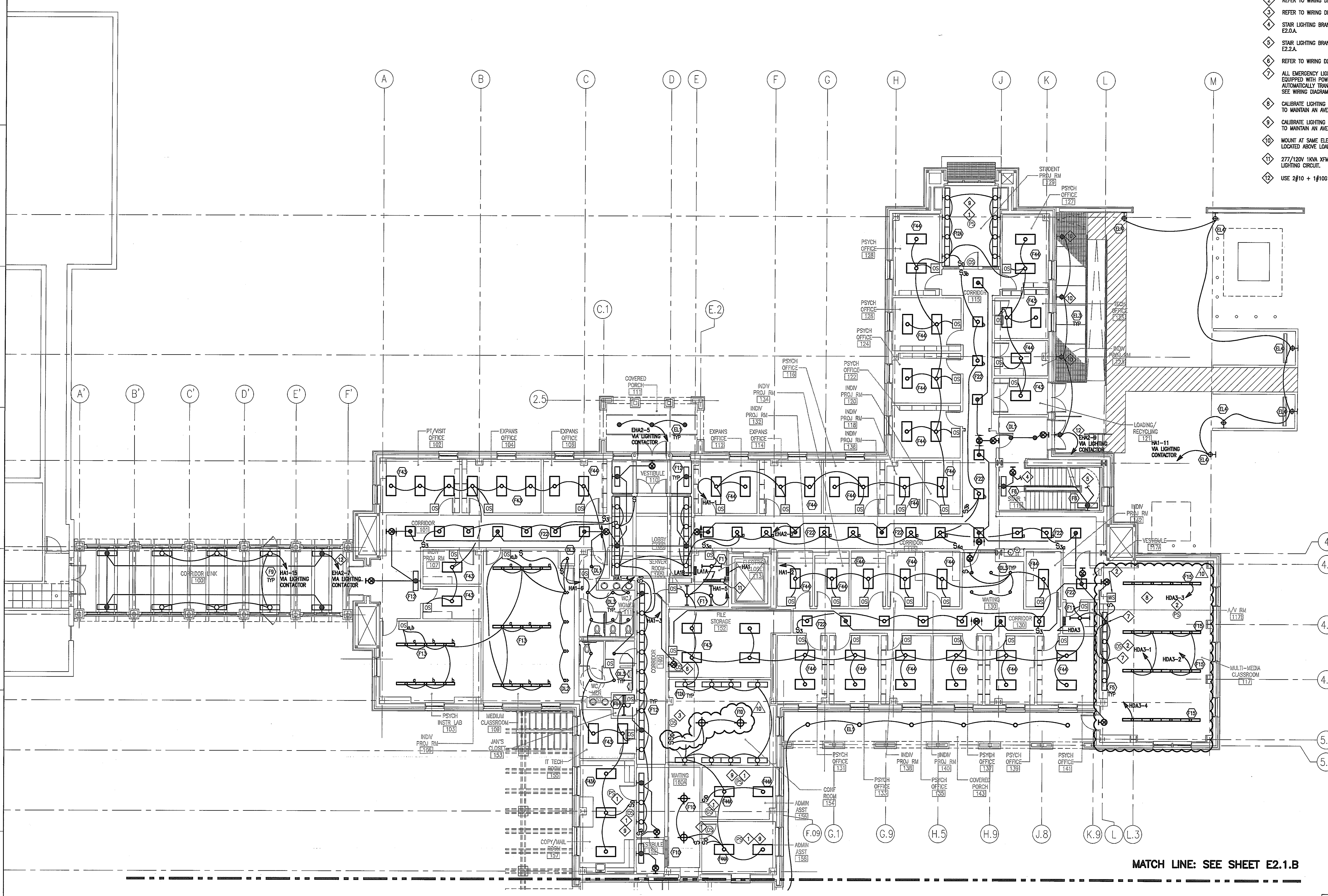
Issued for _____ Rev Date _____

GENERAL NOTES

- A. SEE SHEET E7.1 FOR LIGHTING FIXTURE SCHEDULE.
- B. ALL BRANCH CIRCUITS SHALL HAVE 2#12 + 1#12G IN 3/4" CON.
- C. CIRCUITING SHOWN IS DIAGRAMATIC. PROVIDE ADDITIONAL SWITCH LEADS, HOT LEADS, AND RUNNERS AS REQUIRED.
- D. VOLTAGE DROP NOT TO EXCEED 2%.
- E. WHERE MULTIPLE SWITCHES ARE LOCATED TOGETHER, MOUNT ALL SWITCHED UP TO 6 UNDER COMMON COVER PLATE.

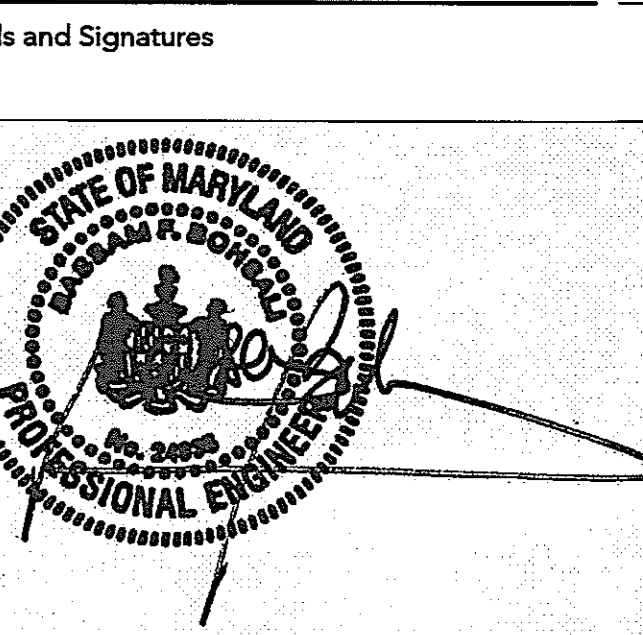
DRAWING NOTES

- 1 REFER TO WIRING DIAGRAM NO. 3 ON SHEET E6.3.
- 2 REFER TO WIRING DIAGRAM NO. 6 ON SHEET E6.3.
- 3 REFER TO WIRING DIAGRAM NO. 4 ON SHEET E6.2.
- 4 STAR LIGHTING BRANCH CIRCUIT CONTINUED FROM E2.0.A.
- 5 STAR LIGHTING BRANCH CIRCUIT CONTINUED ON E2.2.A.
- 6 REFER TO WIRING DIAGRAM NO. 1 ON SHEET E6.2.
- 7 ALL EMERGENCY LIGHTS IN THE CLASSROOM SHALL BE EQUIPPED WITH POWER MONITORING SENSORS THAT AUTOMATICALLY TRANSFER TO EMERGENCY POWER. SEE WIRING DIAGRAMS ON SHEET E6.2.
- 8 CALIBRATE LIGHTING CONTROLS DURING COMMISSIONING TO MAINTAIN AN AVERAGE 100FC 2.5' AFF.
- 9 CALIBRATE LIGHTING CONTROLS DURING COMMISSIONING TO MAINTAIN AN AVERAGE 50FC 2.5' AFF.
- 10 MOUNT AT SAME ELEVATION AS WALL SCONCE LOCATED ABOVE LOADING DOCK DOOR.
- 11 277/120V 1KVA XFMR FOR EXTERIOR FOUNTAIN LIGHTING CIRCUIT.
- 12 USE 2#10 + 1#10G IN 3/4" CON.



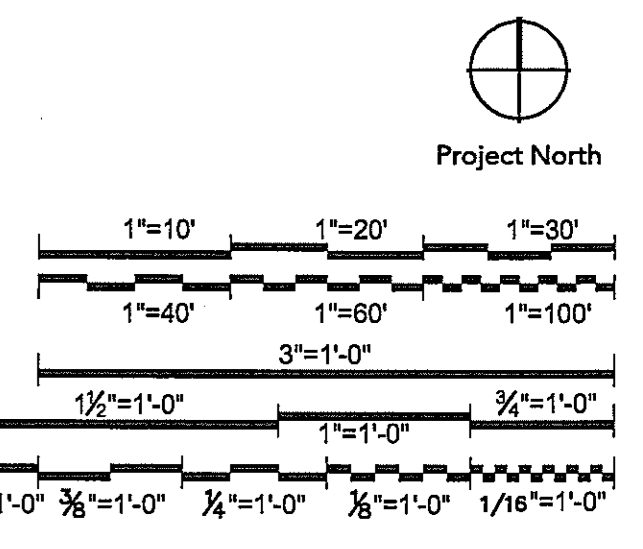
LIGHTING PLAN
FIRST FLOOR NORTH WING
SCALE: 1/8" = 1'-0"

MATCH LINE: SEE SHEET E2.1.B



01/05/05 DATE

Graphic Scales



Drawing Title

LIGHTING PLAN
FIRST FLOOR NORTH WING

Scale 1/8" = 1'-0"

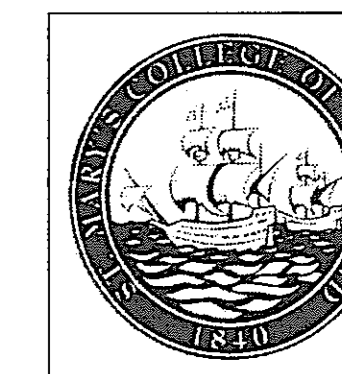
J-494-020-002 25379.000
DGS Project Number SG Project Number

E2.1.A

Drawing Number

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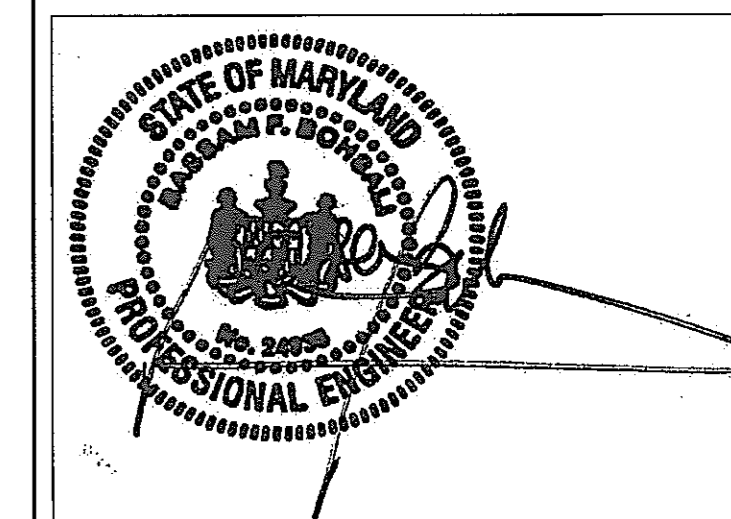
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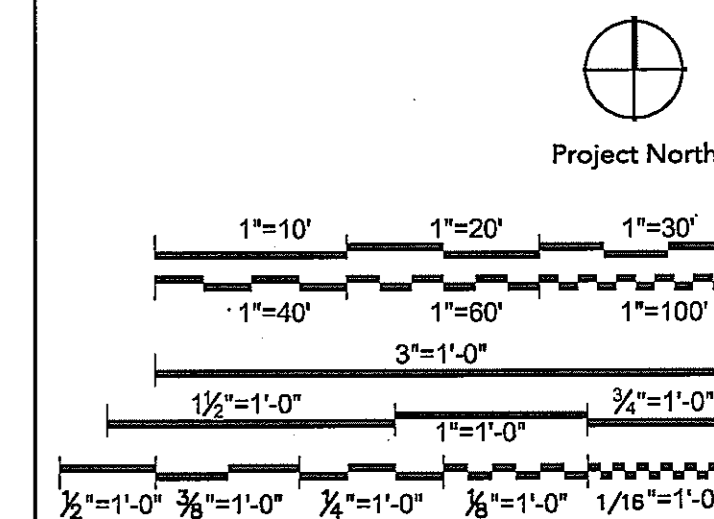
Issued for _____ Rev. Date _____

Seals and Signatures



01/05/05

Graphic Scales _____ DATE _____



Drawing Title

**LIGHTING PLAN
FIRST FLOOR SOUTH WING**

Scale $1/8" = 1'-0"$
J-494-020-002 25379.000
DGS Project Number SG Project Number
E2.1B
Drawing Number

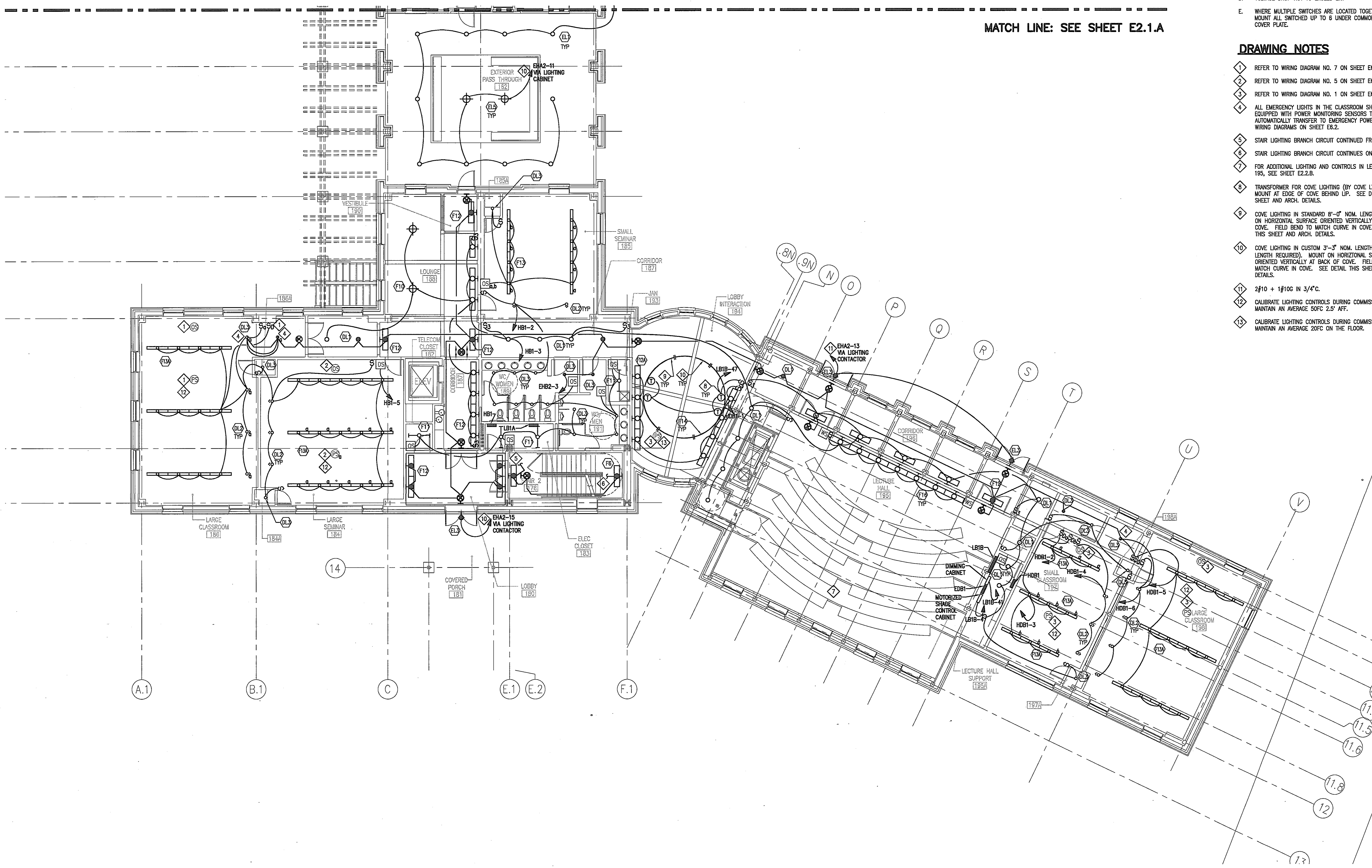
MATCH LINE: SEE SHEET E2.1.A

GENERAL NOTES

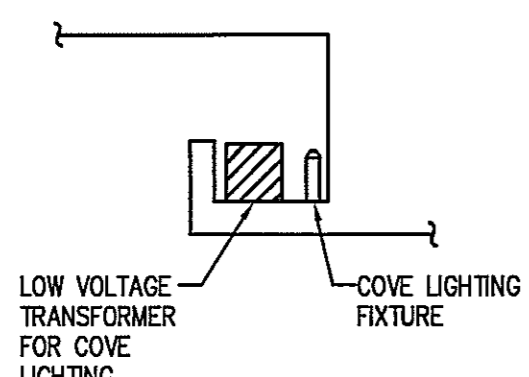
- A. SEE SHEET E7.1 FOR LIGHTING FIXTURE SCHEDULE.
- B. ALL BRANCH CIRCUITS SHALL HAVE $2\#12 + 1\#12S$ IN $3/4" \text{ C. UON}$.
- C. CIRCUITING SHOWN IS DIAGRAMMATIC. PROVIDE ADDITIONAL SWITCH LEGS, HOT LEGS, AND RUNNERS AS REQUIRED.
- D. VOLTAGE DROP NOT TO EXCEED 2%.
- E. WHERE MULTIPLE SWITCHES ARE LOCATED TOGETHER, MOUNT ALL SWITCHED UP TO 6 UNDER COMMON COVER PLATE.

DRAWING NOTES

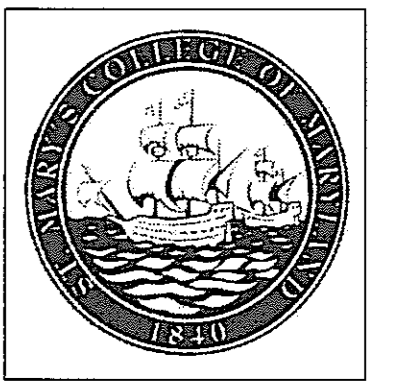
- 1 REFER TO WIRING DIAGRAM NO. 7 ON SHEET E6.3.
- 2 REFER TO WIRING DIAGRAM NO. 5 ON SHEET E6.3.
- 3 REFER TO WIRING DIAGRAM NO. 1 ON SHEET E6.3.
- 4 ALL EMERGENCY LIGHTS IN THE CLASSROOM SHALL BE EQUIPPED WITH POWER MONITORING SENSORS THAT AUTOMATICALLY TRANSFER TO EMERGENCY POWER. SEE WIRING DIAGRAMS ON SHEET E6.2.
- 5 STAIR LIGHTING BRANCH CIRCUIT CONTINUED FROM E2.0.B.
- 6 STAIR LIGHTING BRANCH CIRCUIT CONTINUES ON E2.2.B.
- 7 FOR ADDITIONAL LIGHTING AND CONTROLS IN LECTURE HALL 195, SEE SHEET E2.2.B.
- 8 TRANSFORMER FOR COVE LIGHTING (BY COVE LTC. MANUF.). MOUNT AT EDGE OF COVE BEHIND LIP. SEE DETAIL THIS SHEET AND ARCH. DETAILS.
- 9 COVE LIGHTING IN STANDARD 8'-0" NOM. LENGTH. MOUNT ON HORIZONTAL SURFACE ORIENTED VERTICALLY AT BACK OF COVE. FIELD BEND TO MATCH CURVE IN COVE. SEE DETAIL THIS SHEET AND ARCH. DETAILS.
- 10 COVE LIGHTING IN CUSTOM 3'-3" NOM. LENGTH (VERIFY EXACT LENGTH REQUIRED). MOUNT ON HORIZONTAL SURFACE ORIENTED VERTICALLY AT BACK OF COVE. FIELD BEND TO MATCH CURVE IN COVE. SEE DETAIL THIS SHEET AND ARCH. DETAILS.
- 11 $2\#10 + 1\#10S$ IN $3/4" \text{ C.}$
- 12 CALIBRATE LIGHTING CONTROLS DURING COMMISSIONING TO MAINTAIN AN AVERAGE $50FC$ 2.5' AFF.
- 13 CALIBRATE LIGHTING CONTROLS DURING COMMISSIONING TO MAINTAIN AN AVERAGE $20FC$ ON THE FLOOR.



**LIGHTING PLAN
FIRST FLOOR SOUTH WING**
SCALE: $1/8" = 1'-0"$



**DETAIL
COVE LIGHTING**
SCALE: NOT TO SCALE



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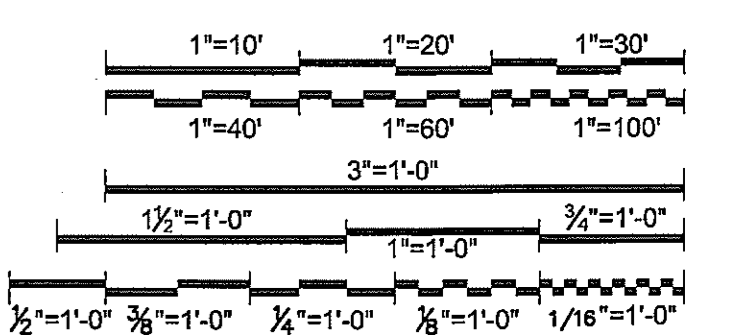
Rev	Date

Seals and Signatures



01/05/05

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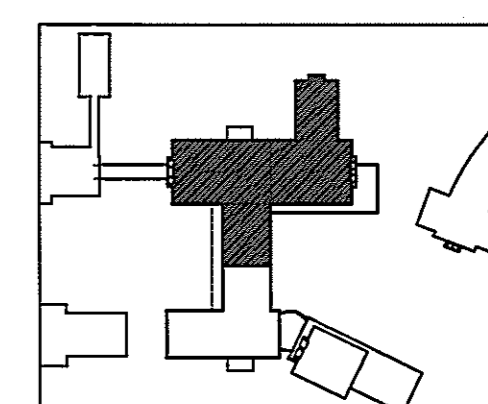


Drawing Title
LIGHTING PLAN
SECOND FLOOR
NORTH WING

Scale
J-494-020-002 25379.000
DGS Project Number SG Project Number

E2.2.A

Drawing Number

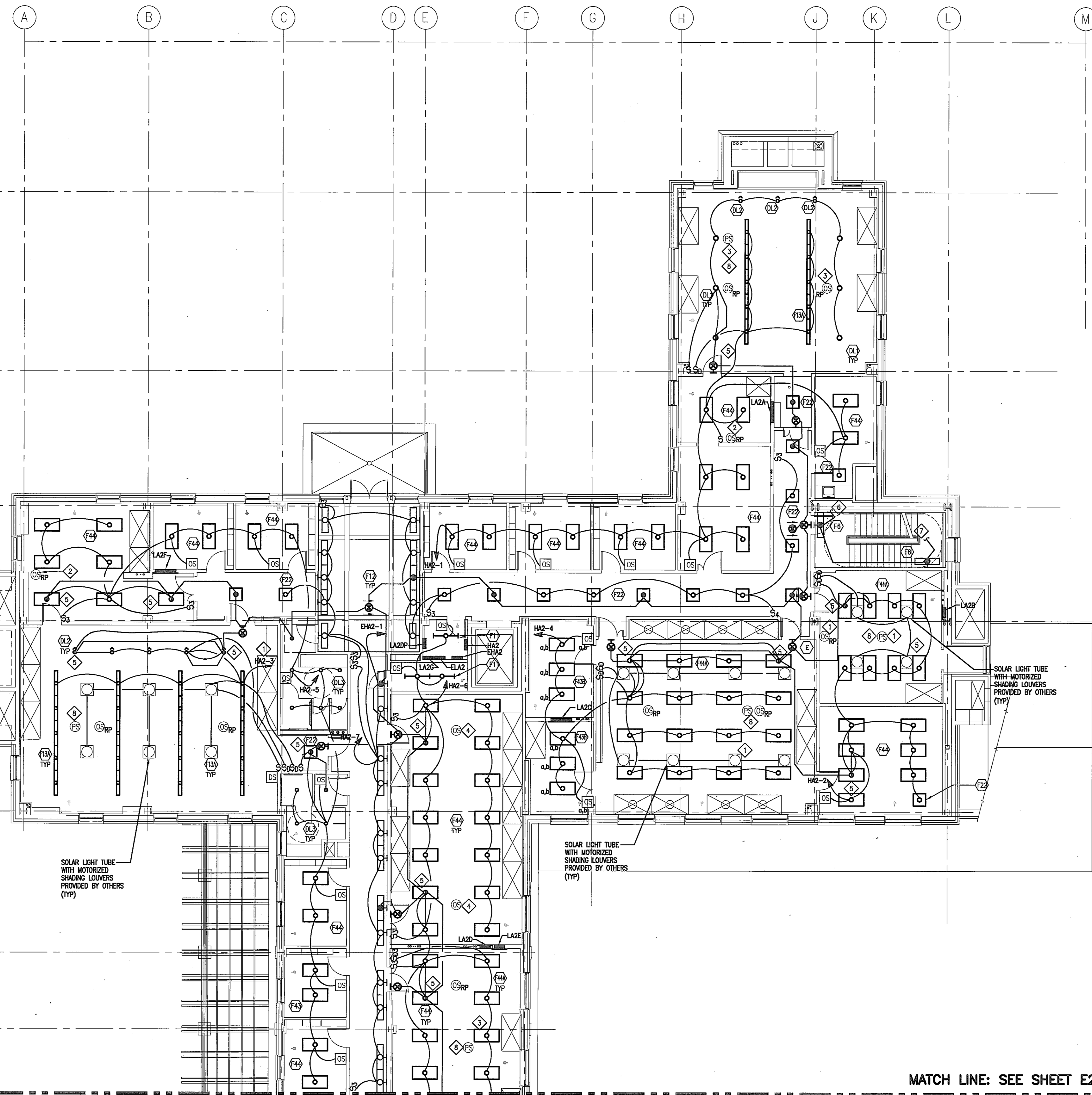


GENERAL NOTES

- A. SEE SHEET E2.1 FOR LIGHTING FIXTURE SCHEDULE.
- B. ALL BRANCH CIRCUITS SHALL HAVE 2#12 + 1#12G IN 3/4" CON.
- C. CIRCUITING SHOWN IS DIAGRAMMATIC. PROVIDE ADDITIONAL SWITCH LEGS, HOT LEGS, AND RUNNERS AS REQUIRED.
- D. VOLTAGE DROP NOT TO EXCEED 2%.
- E. WHERE MULTIPLE SWITCHES ARE LOCATED TOGETHER, MOUNT ALL SWITCHED UP TO 6 UNDER COMMON COVER PLATE.

DRAWING NOTES

- 1 REFER TO WIRING DIAGRAM NO. 3 ON SHEET E6.3. LIGHT PIPE DIMMING CONTROL PROVIDED BY MANUFACTURER (SOLATUBE).
- 2 REFER TO WIRING DIAGRAM NO. 1 ON SHEET E6.2.
- 3 REFER TO WIRING DIAGRAM NO. 2 ON SHEET E6.3.
- 4 REFER TO WIRING DIAGRAM NO. 2 ON SHEET E6.3.
- 5 ALL EMERGENCY LIGHTS IN THE CLASSROOM SHALL BE EQUIPPED WITH POWER MONITORING SENSORS THAT AUTOMATICALLY TRANSFER TO EMERGENCY POWER. SEE WIRING DIAGRAMS ON SHEET E6.2.
- 6 STAIR LIGHTING BRANCH CIRCUIT CONTINUED FROM E2.1.A.
- 7 STAIR LIGHTING BRANCH CIRCUIT CONTINUED ON E2.3.A.
- 8 CALIBRATE LIGHTING CONTROLS DURING COMMISSIONING TO MAINTAIN AN AVERAGE 100FC AT 2.5' AFF.

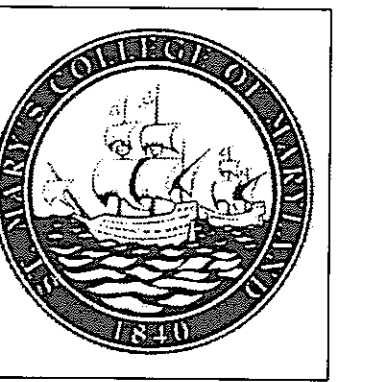


1
2
3
3.9
4
4.4
5
6
6.5

A' B' C' D' E' F'

MATCH LINE: SEE SHEET E2.2.B

LIGHTING PLAN
SECOND FLOOR NORTH WING
SCALE: 1/8"=1'-0"



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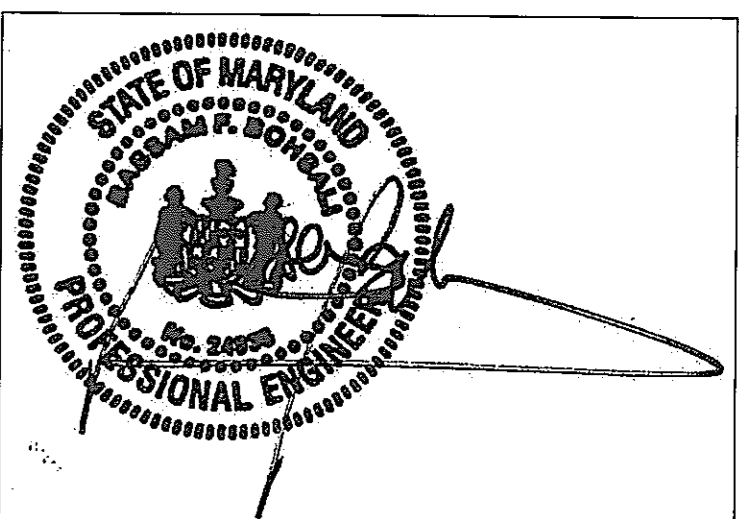
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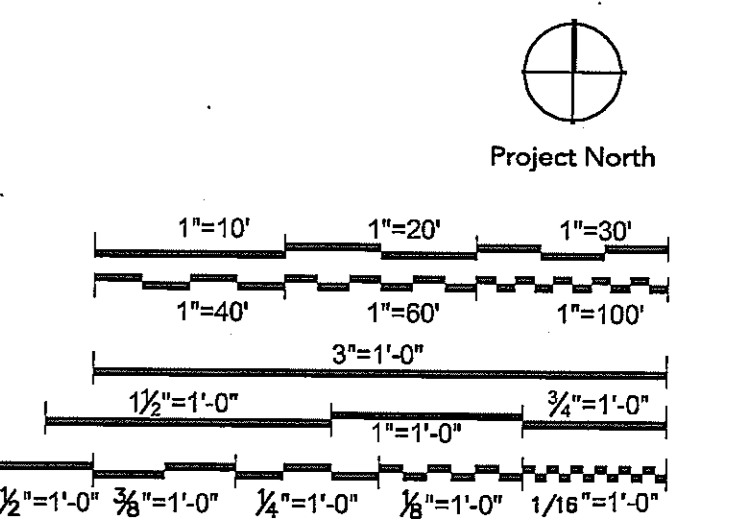
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Drawing Title

LIGHTING PLAN
SECOND FLOOR
SOUTH WING

1/8"=1'-0"

Scale
J-494-020-002 25379.000
DGS Project Number SG Project Number

E2.2.B

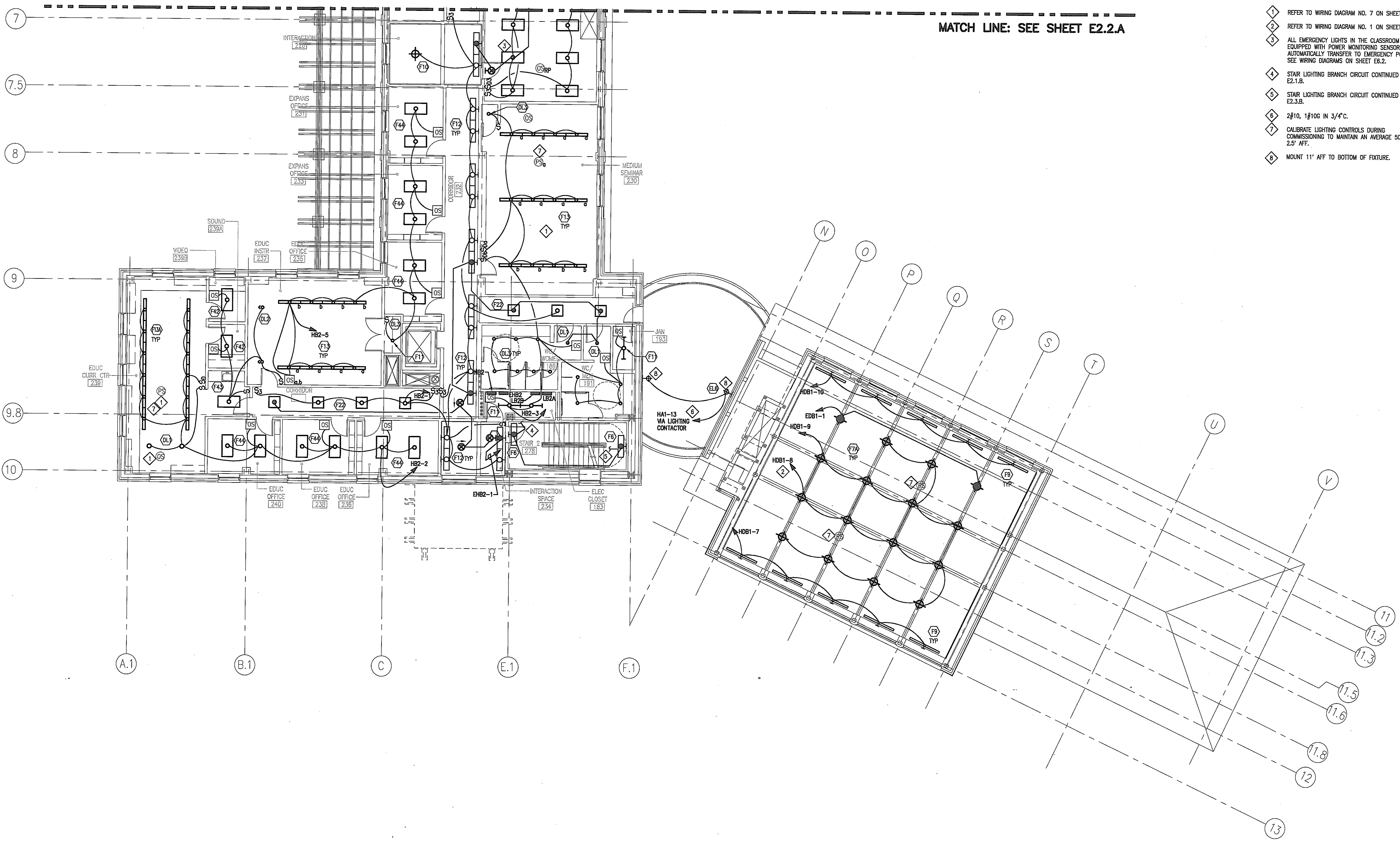
Drawing Number

GENERAL NOTES

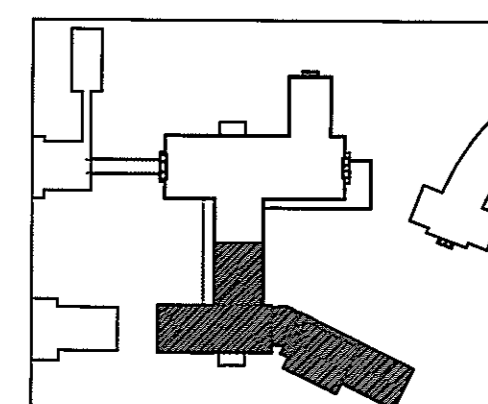
- A. SEE SHEET E7.1 FOR LIGHTING FIXTURE SCHEDULE.
- B. ALL BRANCH CIRCUITS SHALL HAVE 2#12 + 1#12G IN 3/4" C. UON.
- C. CIRCUITING SHOWN IS DIAGRAMATIC. PROVIDE ADDITIONAL SWITCH LEGS, HOT LEGS, AND RUNNERS AS REQUIRED.
- D. VOLTAGE DROP NOT TO EXCEED 2%.
- E. WHERE MULTIPLE SWITCHES ARE LOCATED TOGETHER, MOUNT ALL SWITCHED UP TO 6 UNDER COMMON COVER PLATE.

DRAWING NOTES

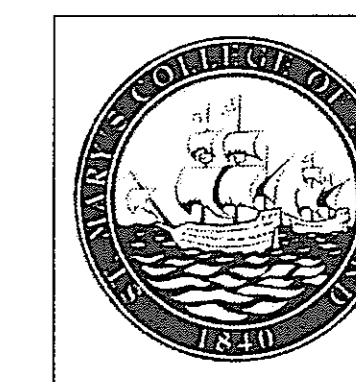
- 1 REFER TO WIRING DIAGRAM NO. 7 ON SHEET E6.3.
- 2 REFER TO WIRING DIAGRAM NO. 1 ON SHEET E6.3.
- 3 ALL EMERGENCY LIGHTS IN THE CLASSROOM SHALL BE EQUIPPED WITH POWER MONITORING SENSORS THAT AUTOMATICALLY TRANSFER TO EMERGENCY POWER. SEE WIRING DIAGRAMS ON SHEET E6.2.
- 4 STAIR LIGHTING BRANCH CIRCUIT CONTINUED FROM E2.1.B.
- 5 STAIR LIGHTING BRANCH CIRCUIT CONTINUED ON E2.3.B.
- 6 2#10, 1#10G IN 3/4" C.
- 7 CALIBRATE LIGHTING CONTROLS DURING COMMISSIONING TO MAINTAIN AN AVERAGE 50FC AT 2.5' AFF.
- 8 MOUNT 11" AFF TO BOTTOM OF FIXTURE.



LIGHTING PLAN
SECOND FLOOR SOUTH WING
SCALE: 1/8"=1'-0"



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PROJECT MANAGER _____ DATE _____

CHIEF - PROJ. MGT. & DSGN. _____ DATE _____

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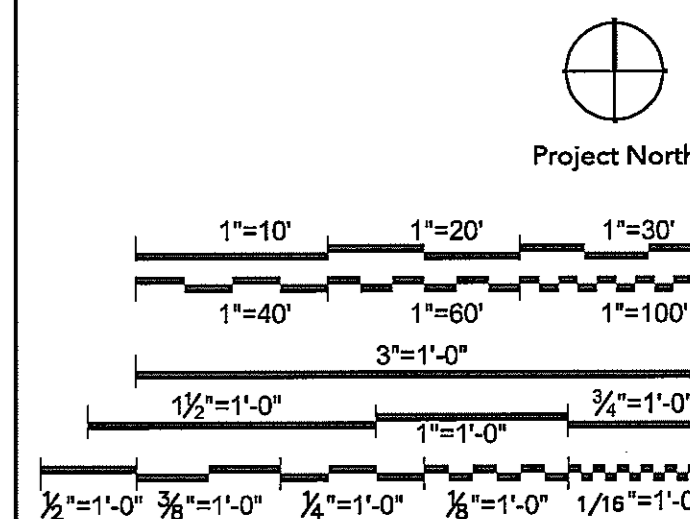
Seals and Signatures



01/05/05

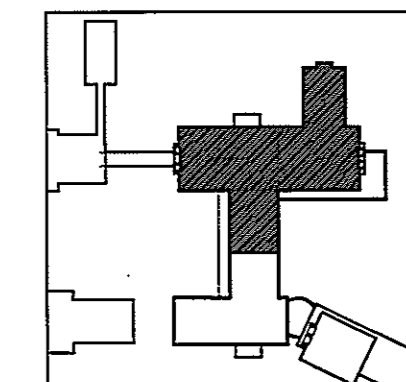
DATE _____

Graphic Scales _____



MATCH LINE: SEE SHEET E2.3.B

**LIGHTING PLAN
PENTHOUSE NORTH WING**
SCALE: 1/8" = 1'-0"



Drawing Title

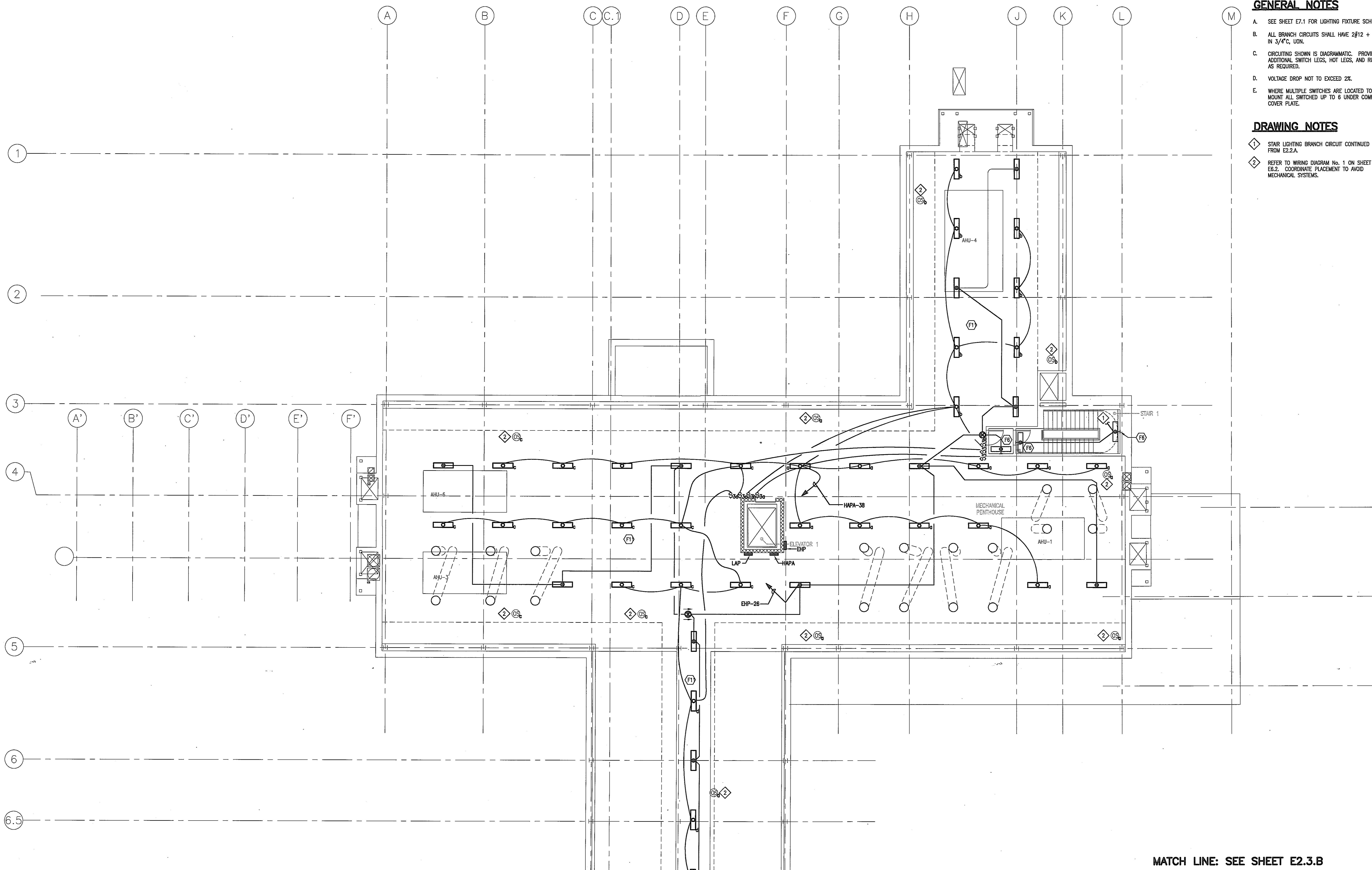
**LIGHTING PLAN
PENTHOUSE NORTH WING**

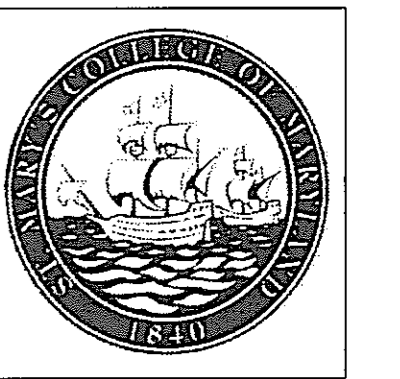
Scale 1/8" = 1'-0"

J-494-020-002 25379.000
DGS Project Number SG Project Number

E2.3.A

Drawing Number





USING AGENCY
APPROVAL

NAME _____
TITLE _____ DATE _____

DEPT. OF GENERAL
SERVICES APPROVAL

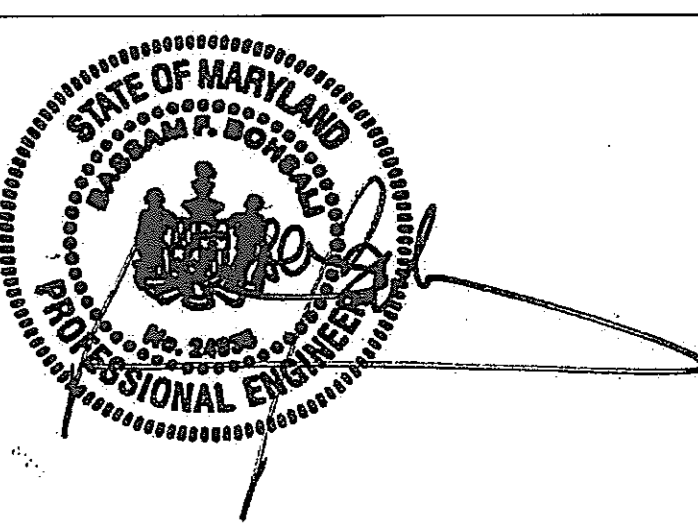
PROJECT MANAGER _____ DATE _____

CHIEF - PROJ. MGT. & DSGN. _____ DATE _____

Issued for _____ Rev _____ Date _____

Issued for	Rev	Date

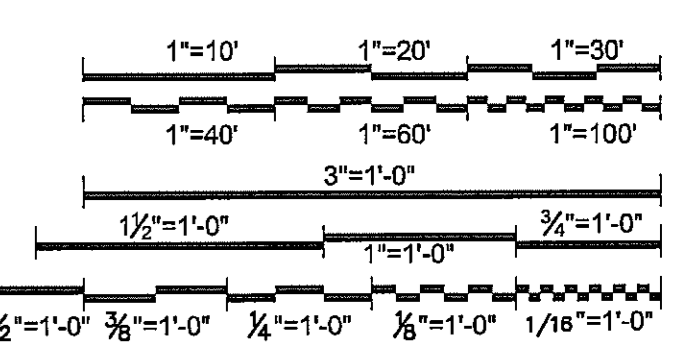
Seals and Signatures



01/05/05

DATE

Project North



Drawing Title

LIGHTING PLAN
PENTHOUSE SOUTH WING

1/8" = 1'-0"

Scale
J-494-020-002 25379.000
DGS Project Number SG Project Number

E2.3.B

Drawing Number

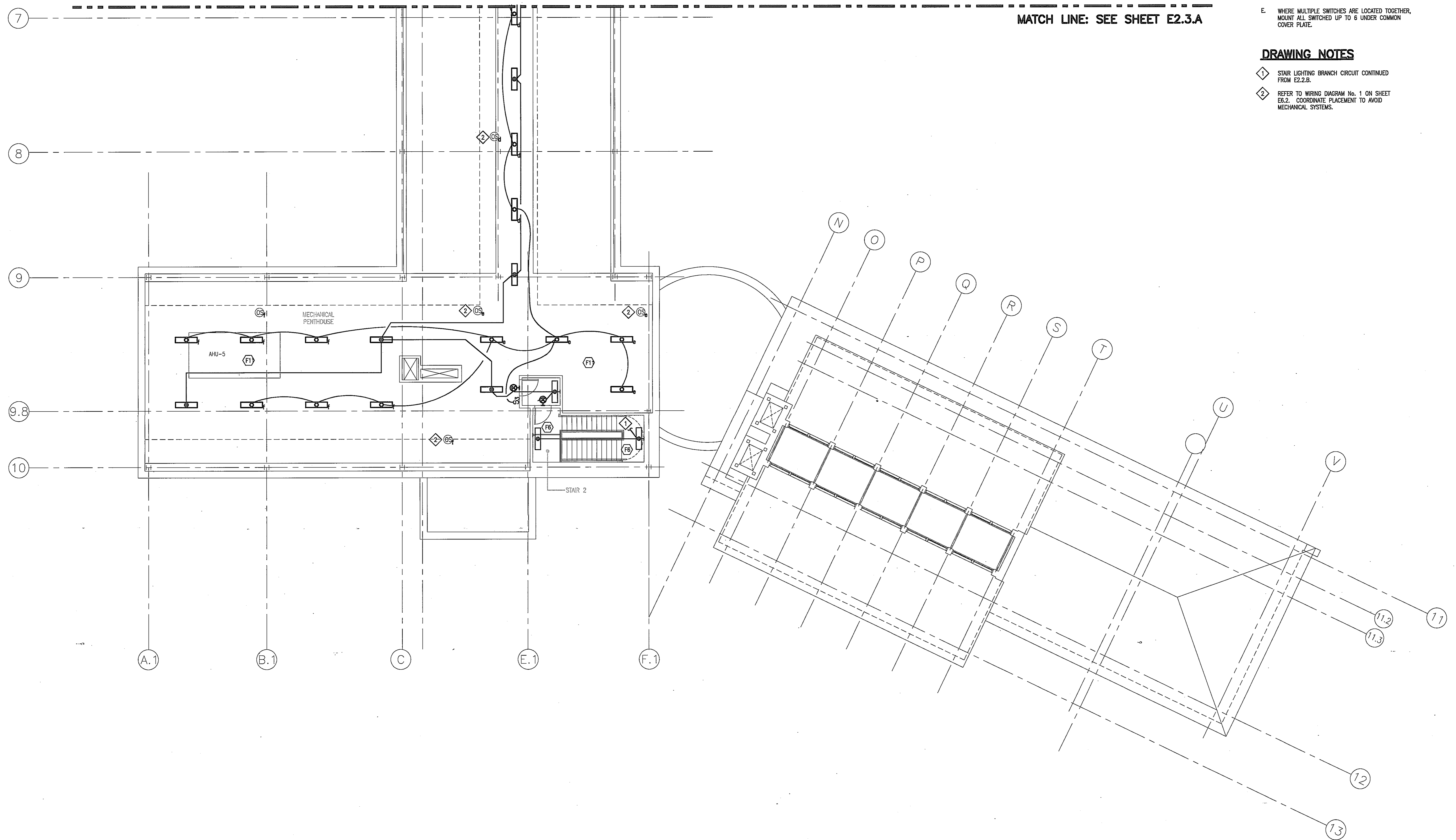
GENERAL NOTES

- A. SEE SHEET E7.1 FOR LIGHTING FIXTURE SCHEDULE.
- B. ALL BRANCH CIRCUITS SHALL HAVE 2#12 + 1#12G IN 3/4" C. UCL.
- C. CIRCUITING SHOWN IS DIAGRAMMATIC. PROVIDE ADDITIONAL SWITCH LEGS, HOT LEGS, AND RUNNERS AS REQUIRED.
- D. VOLTAGE DROP NOT TO EXCEED 2%.
- E. WHERE MULTIPLE SWITCHES ARE LOCATED TOGETHER, MOUNT ALL SWITCHED UP TO 6 UNDER COMMON COVER PLATE.

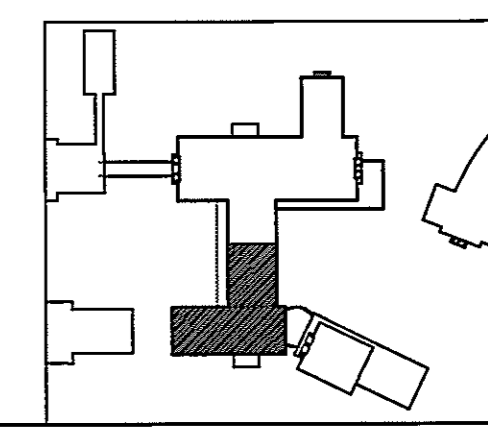
DRAWING NOTES

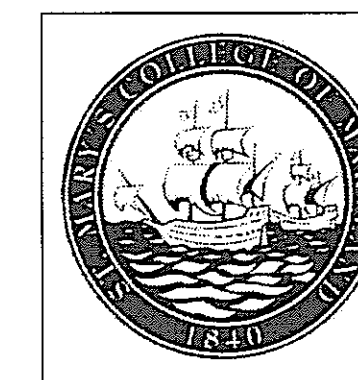
- 1. STAIR LIGHTING BRANCH CIRCUIT CONTINUED FROM E2.2.B.
- 2. REFER TO WIRING DIAGRAM No. 1 ON SHEET E6.2. COORDINATE PLACEMENT TO AVOID MECHANICAL SYSTEMS.

MATCH LINE: SEE SHEET E2.3.A



LIGHTING PLAN
PENTHOUSE SOUTH WING
SCALE: 1/8" = 1'-0"





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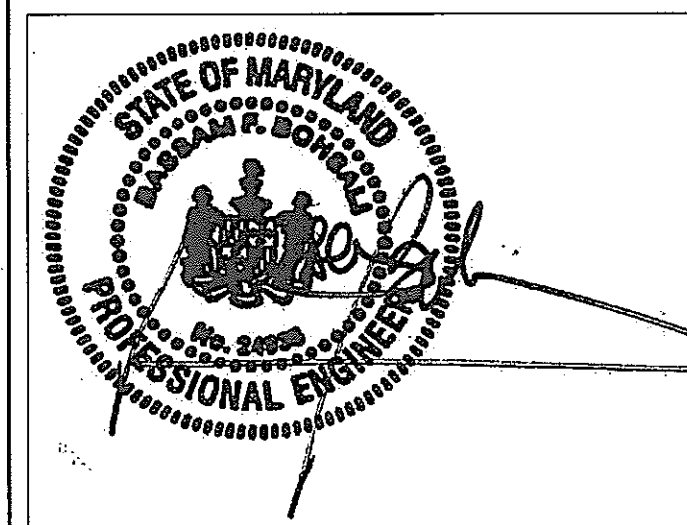
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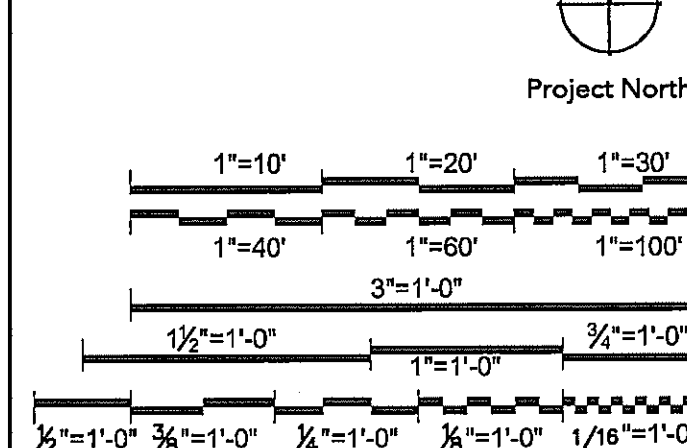
Seals and Signatures



01/05/05

Graphic Scales _____ DATE _____

Project North



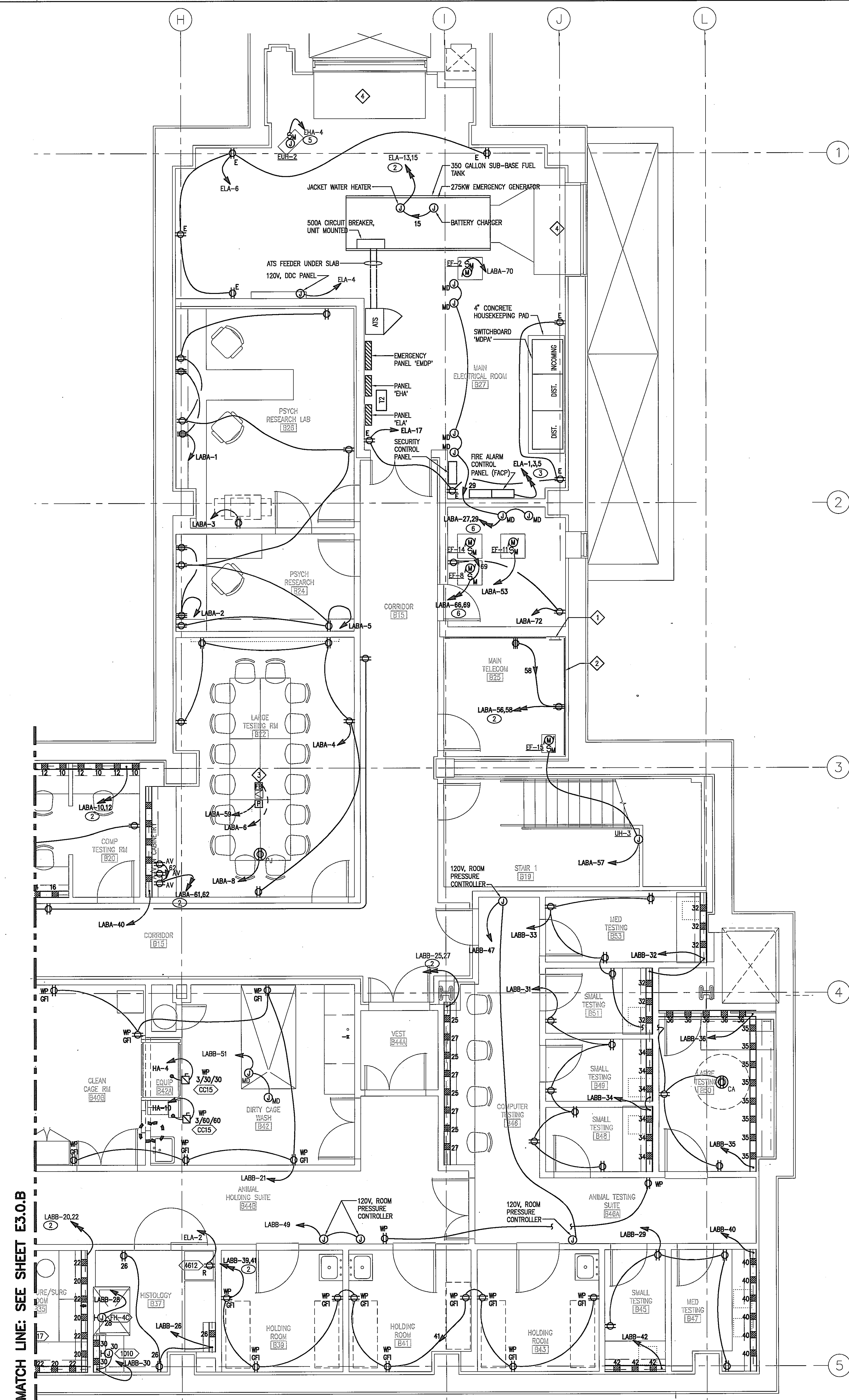
Drawing Title

POWER PLAN
BASEMENT NORTH WING - EAST
1/4"=1'-0"

Scale
J-494-020-002 25379.000
DGS Project Number SG Project Number

E3.0.A

Drawing Number



GENERAL NOTES

- A. UNLESS OTHERWISE NOTED, BRANCH CIRCUIT HOMERUNS SHALL BE DESIGNATED BY A CIRCLE WITH A NUMBER.
- B. SEE EQUIPMENT SCHEDULE, SHEET E7.0, FOR EQUIPMENT RECEPTACLE CONFIGURATIONS AND WIRE SIZES.
- C. IN GENERAL, DUAL RACEWAY MOUNTED ON WALL BENEATH CABINETS UNLESS SEE ARCHITECTURAL SERIES A33 FOR EXACT LOCATION OF DUAL RACEWAY.
- D. HEATING COILS REQUIRE 120V CONTROL CIRCUIT. PROVIDE (2) 2#12, 1#12 GND IN 3/4" C FOR HEATING COILS FOR BASEMENT - NORTH. SEE MECHANICAL PIPING PLANS FOR EXACT LOCATIONS. SEE PANELS SCHEDULE LABB CIRCUIT 46 AND PANEL LABA CIRCUIT 48.
- E. DEVICES IN EXTERIOR WALLS REQUIRE A SHALLOW BACK BOX.

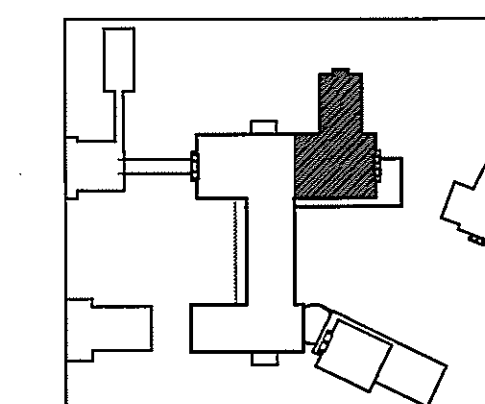
DRAWING NOTES

1. COPPER GROUND BAR, 1/2" WX 3/4" THICK. CONNECT TO GROUND GRID WITH #6 GREEN WIRE.
2. PROVIDE 8'-0" HIGH X 3/4" THICK PLYWOOD BACKBOARD.
3. FLOOR BOX FOR POWER/DATA/AV, FSR FL-600P. PROVIDE DUPLEX RECEPTACLES IN SINGLE GANG SLOT IN BOX. FOR MORE INFORMATION SEE THE TELECOMMUNICATION PLANS, E.4 SERIES.
4. PROVIDE 120V CIRCUIT (ELA-8) FOR MOTORIZED DAMPERS.

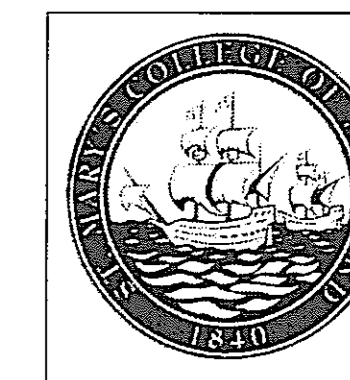
BRANCH CIRCUIT SCHEDULE

BRANCH CIRCUIT DESIGNATION	CONDUCTOR DATA	CONDUIT SIZE	REMARKS
1	2#12, 1#12 G	3/4" C	
2	4#12 (2N) 1#12 G	3/4" C	
3	6#12 (3N) 1#12 G	3/4" C	
4	3#12 (1N) 1#12 G	3/4" C	
5	4#12 (1N) 1#12 G	3/4" C	
6	3#12, 1#12 G	3/4" C	
7	2#10, 1#10 G	3/4" C	
8	3#10, 1#10 G	3/4" C	
9	3#8, 1#10 G	3/4" C	
10	3#6, 1#10 G	3/4" C	
11	3#4, 1#8 G	1" C	
12	3#3, 1#8 G	1" C	
13	3#1, 1#6 G	1 1/4" C	

POWER PLAN
BASEMENT NORTH WING - EAST
SCALE: 1/4"=1'-0"



MATCH LINE: SEE SHEET E3.0.B



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TITLE _____ DATE _____

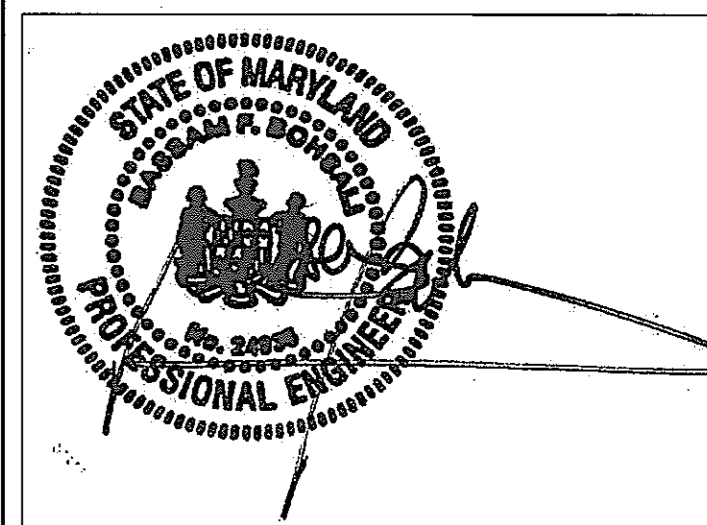
DEPT. OF GENERAL
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PROJECT MANAGER _____ DATE _____

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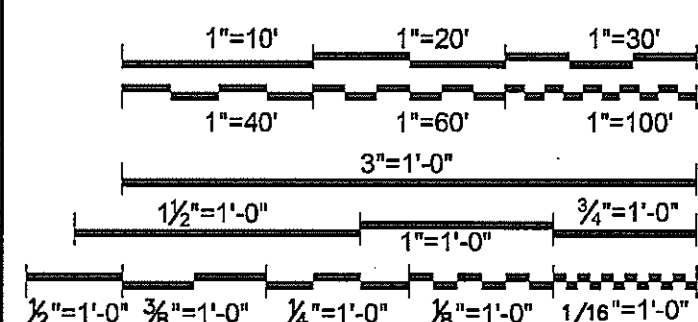
Issued for _____ Rev _____ Date _____

Seals and Signatures



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Graphic Scales DATE



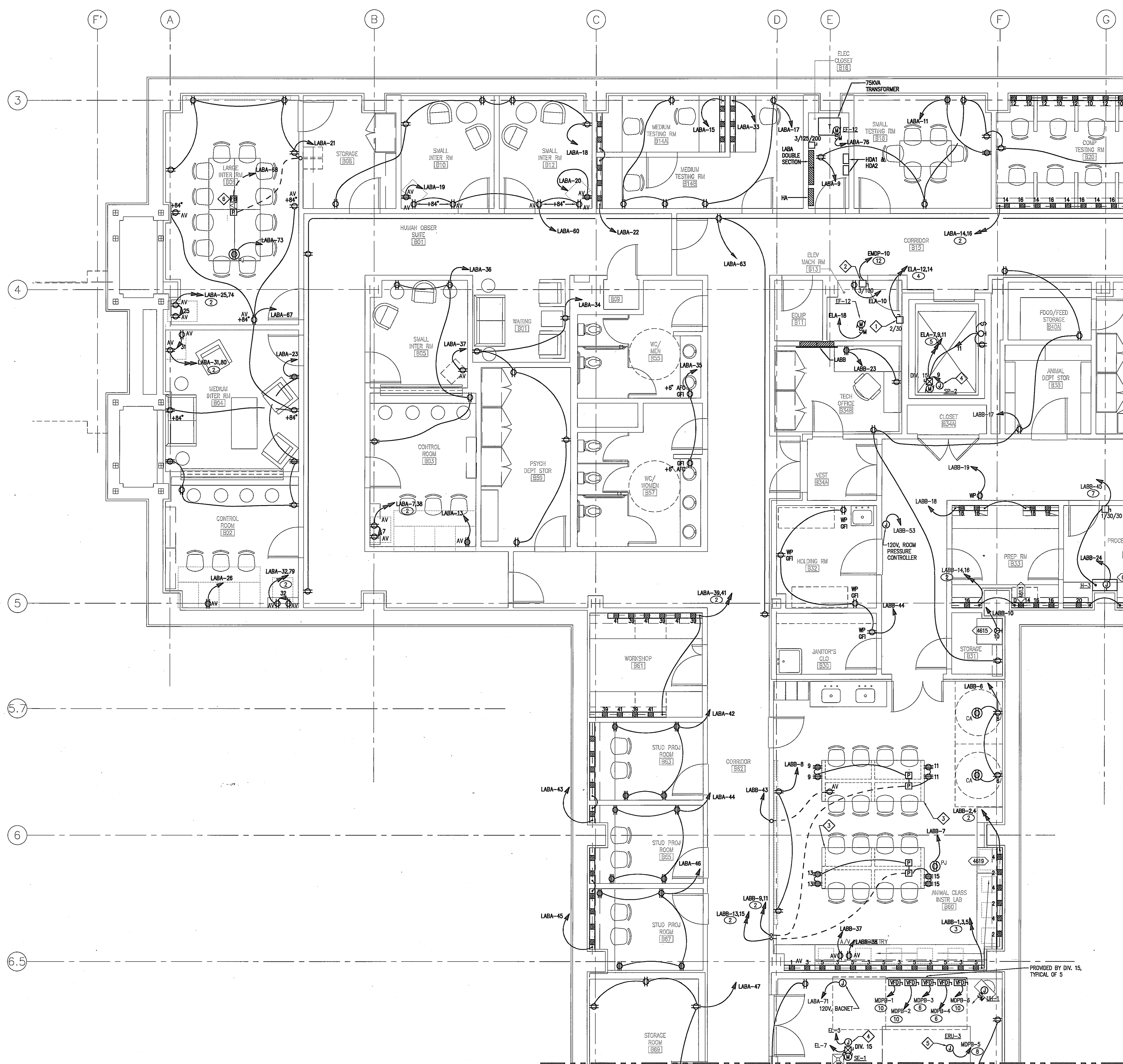
Drawing Title

POWER PLAN
BASEMENT
NORTH WING - WEST
1/4" = 1'-0"

Scale J-494-020-002 25379.000
DGS Project Number SG Project Number

E3.0.B

Drawing Number



GENERAL NOTES

- A. UNLESS OTHERWISE NOTED, BRANCH CIRCUIT HOMERUNS SHALL BE DESIGNATED ①. SEE SHEET E3.0.A FOR BRANCH CIRCUIT DESIGNATIONS.
- B. SEE EQUIPMENT SCHEDULE E7.0 FOR EQUIPMENT RECEPTACLE CONFIGURATIONS AND WIRE SIZE.
- C. IN GENERAL, DUAL RACEWAY MOUNTED ON WALL BENEATH CABINETS UNLESS OTHERWISE NOTED. SEE ARCHITECTURAL SERIES A03 FOR EXACT LOCATION OF DUAL RACEWAY.
- D. HEATING COILS REQUIRE 120V CONTROL CIRCUIT. PROVIDE (2) 2#12, 1#12 GND IN 3/4" C. FOR HEATING COILS FOR BASEMENT - NORTH. SEE MECHANICAL PIPING PLANS FOR EXACT LOCATIONS. SEE PANELS SCHEDULE LABB CIRCUIT 46 AND PANEL LABA CIRCUIT 48.
- E. DEVICES IN EXTERIOR WALLS REQUIRE A SHALLOW BACK BOX.

DRAWING NOTES

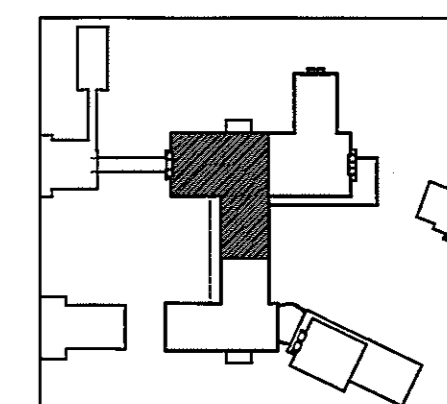
- ① 2P-30A SAFETY SWITCH WITH SOLID NEUTRAL FOR ELEVATOR CAB FAN AND LIGHTING.
- ② ELEVATOR DISCONNECT. MUST BE MOUNTED JUST INSIDE DOOR.
- ③ ROUTE POWER BRANCH CIRCUIT WIRING TO MILLWORK ISLANDS IN CONCRETE SLAB.
- ④ 120V EMERGENCY CIRCUIT FOR CONTROLS.
- ⑤ PROVIDE SINGLE POINT CONNECTION TO ERU-3.
- ⑥ FLOOR BOX FOR POWER/DATA/AV, FSR FL-600P. PROVIDE DUPLEX RECEPTACLES IN SINGLE GANG SLOT IN BOX. FOR MORE INFORMATION SEE THE TELECOMMUNICATION PLANS, E.4 SERIES.
- ⑦ MOUNT SURGICAL LIGHT AT 48" AFF. COORDINATE WITH THE LOCATION OF HUMIDIFIER H-3.

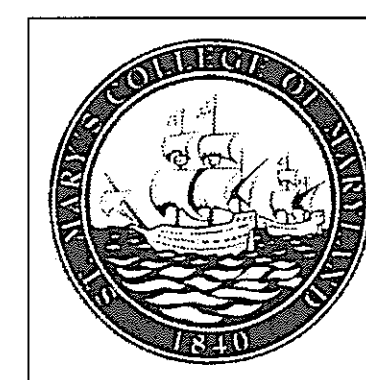
MATCH LINE: SEE SHEET E3.0.A

BRANCH CIRCUIT DESIGNATION	CONDUCTOR DATA	CONDUIT SIZE	REMARKS
①	2#12, 1#12 G	3/4" C	
②	4#12 (2#) 1#12 G	3/4" C	
③	6#12 (3#) 1#12 G	3/4" C	
④	3#12 (1#) 1#12 G	3/4" C	
⑤	4#12 (1#) 1#12 G	3/4" C	
⑥	3#12, 1#12 G	3/4" C	
⑦	2#10, 1#10 G	3/4" C	
⑧	3#10, 1#10 G	3/4" C	
⑨	3#8, 1#10 G	3/4" C	
⑩	3#8, 1#10 G	3/4" C	
⑪	3#4, 1#8 G	1" C	
⑫	3#3, 1#8 G	1" C	
⑬	3#1, 1#8 G	1 1/4" C	

POWER PLAN
BASEMENT NORTH WING - WEST
SCALE: 1/4" = 1'-0"

MATCH LINE: SEE SHEET E3.0.C





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TITLE _____

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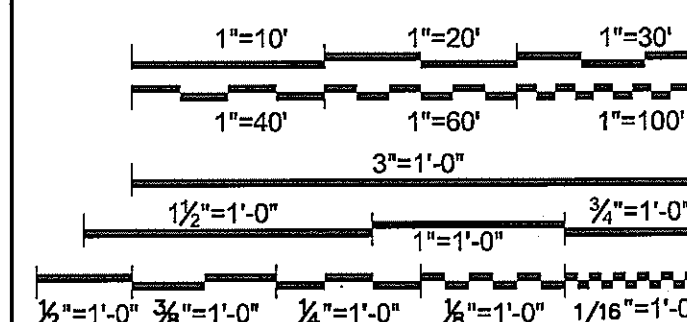


01/05/05

Graphic Scales DATE



Project North



Drawing Title

**POWER PLAN
BASEMENT
SOUTH WING - WEST**
1/4"=1'-0"

Scale J-494-020-002 25379.000
DGS Project Number SG Project Number

E3.0.C

Drawing Number

MATCH LINE: SEE SHEET E3.0.B

GENERAL NOTES

- A. UNLESS OTHERWISE NOTED, BRANCH CIRCUIT HOMERUNS SHALL BE DESIGNATED (C). SEE SHEET E3.0.A FOR BRANCH CIRCUIT DESIGNATIONS.
- B. IN GENERAL, DUAL RACEWAY MOUNTED ON WALL BENEATH CABINETS USN. SEE ARCHITECTURAL SERIES A03 FOR EXACT LOCATION OF DUAL RACEWAY.
- C. HEATING COILS REQUIRE 120V CONTROL CIRCUIT. PROVIDE 2#12, 1#12 GND IN 3/4" C. FOR HEATING COILS FOR BASEMENT - SOUTH. SEE MECHANICAL PIPING PLANS FOR EXACT LOCATIONS. SEE PANEL SCHEDULE LEGN CIRCUIT 44.
- D. DEVICES IN EXTERIOR WALLS REQUIRE A SHALLOW BACK BOX.

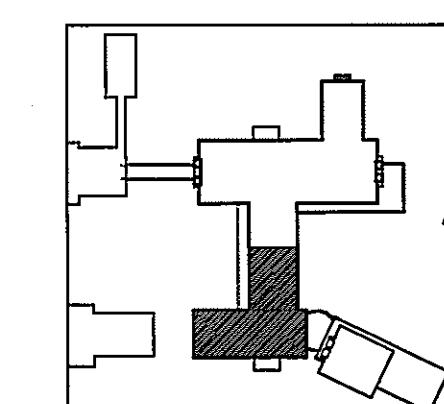
DRAWING NOTES

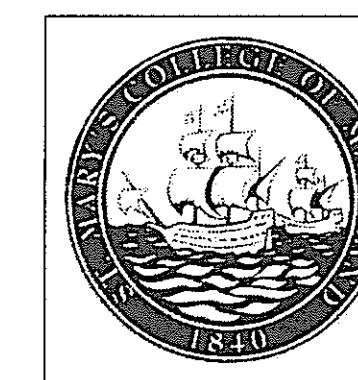
- 1 2P-30A SAFETY SWITCH WITH SOLID NEUTRAL FOR ELEVATOR CAB FAN AND LIGHTING.
- 2 ELEVATOR DISCONNECT. MUST BE MOUNTED JUST INSIDE DOOR.
- 3 PROVIDE CONNECTION TO AHU LIGHTING.
- 4 120V EMERGENCY CIRCUIT FOR CONTROLS.
- 5 PROVIDE NEMA SIZE '00' COMBINATION MOTOR STARTER/DISCONNECT FOR PUMP P-6.
- 6 NOT USED.
- 7 NOT USED.
- 8 COPPER GROUND BAR, 12"W x 3/4" THICK. CONNECT TO GROUND GRID WITH #6 GREEN INSULATED WIRE.
- 9 FLOOR BOX FOR POWER/DATA/AV, FSR FL-600P. PROVIDE (2) DUPLEX RECEPTACLES IN (2) SINGLE GANG SLOTS IN BOX. FOR MORE INFORMATION SEE THE TELECOMMUNICATION PLANS, E4 SERIES.
- 10 MOUNT SWITCH ON WALL ABOVE ACCESSIBLE CEILING.

BRANCH CIRCUIT SCHEDULE

BRANCH CIRCUIT DESIGNATION	CONDUCTOR DATA	CONDUIT SIZE	REMARKS
1	2#12, 1#12 G	3/4"C	
2	4#12 (2N) 1#12 G	3/4"C	
3	6#12 (3N) 1#12 G	3/4"C	
4	3#12 (1N) 1#12 G	3/4"C	
5	4#12 (1N) 1#12 G	3/4"C	
6	3#12, 1#12 G	3/4"C	
7	2#10, 1#10 G	3/4"C	
8	3#10, 1#10 G	3/4"C	
9	3#8, 1#10 G	3/4"C	
10	3#6, 1#10 G	3/4"C	
11	3#4, 1#6 G	1"C	
12	3#3, 1#6 G	1"C	
13	3#1, 1#6 G	1 1/4"C	
14	3#1/2, 1#6 G	2"C	

**POWER PLAN
BASEMENT SOUTH WING - WEST**
SCALE: 1/4"=1'-0"





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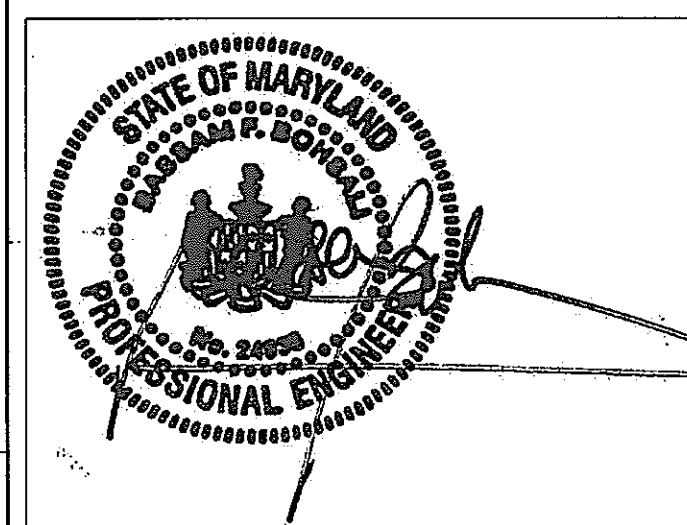
DEPT. OF GENERAL
SERVICES APPROVAL

PROJECT MANAGER _____ DATE _____

CHIEF - PROJ. MGT. & DSGN. _____ DATE _____

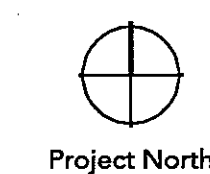
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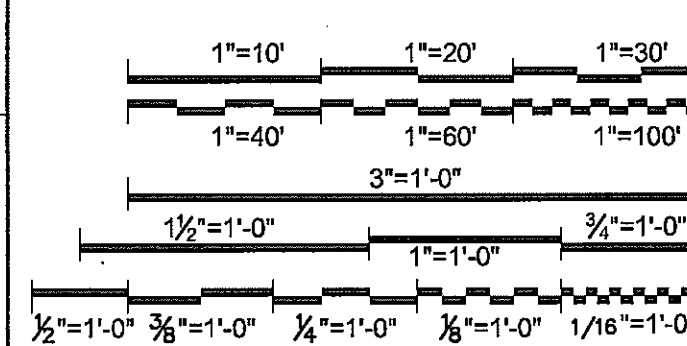


01/05/05

Graphic Scales _____ DATE _____



Project North



Drawing Title _____

**POWER PLAN
FIRST FLOOR
NORTH WING - EAST**
1/4" = 1'-0"

Scale
J-494-020-002 25379.000
DGS Project Number SG Project Number

E3.1.A

Drawing Number _____

GENERAL NOTES

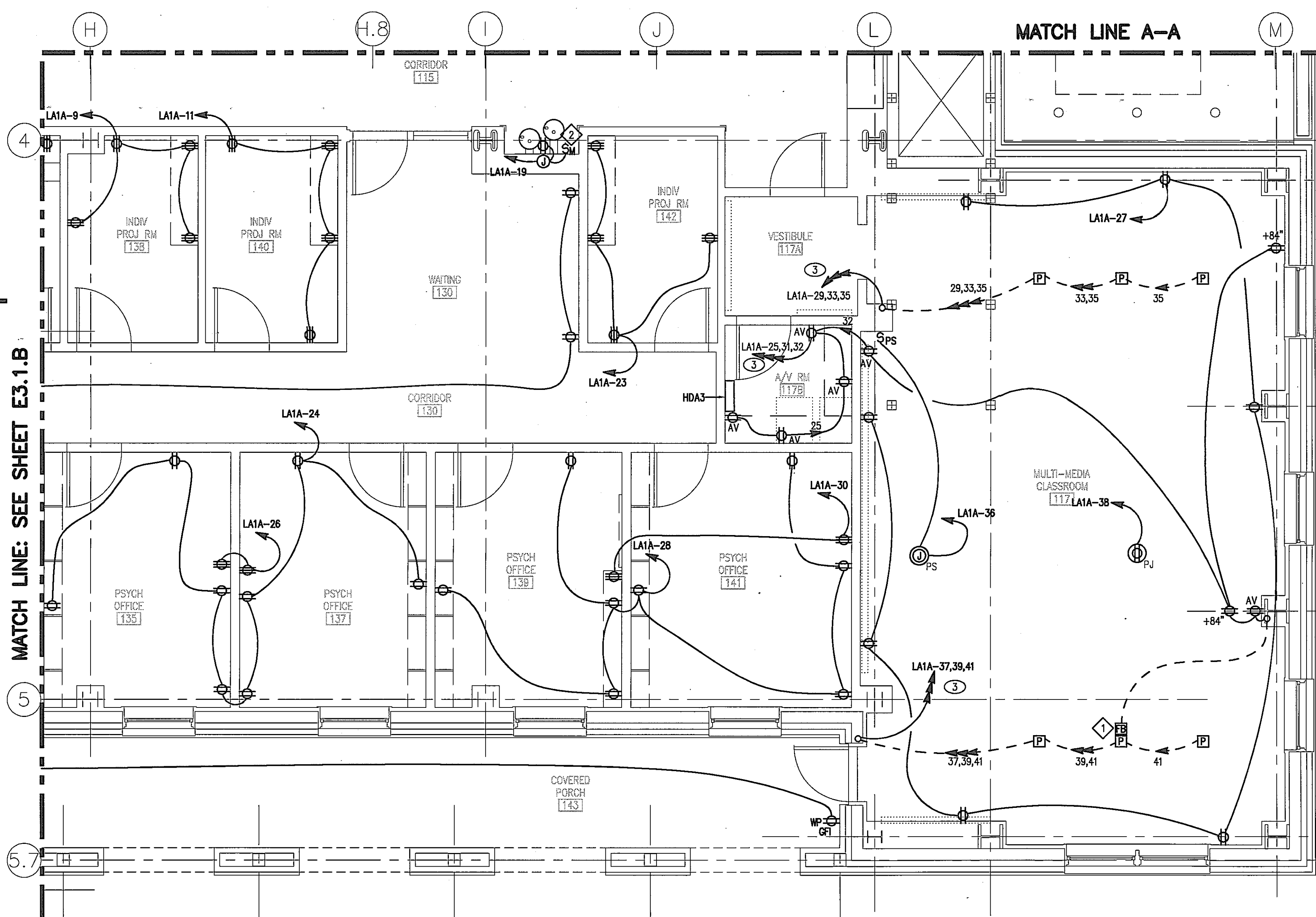
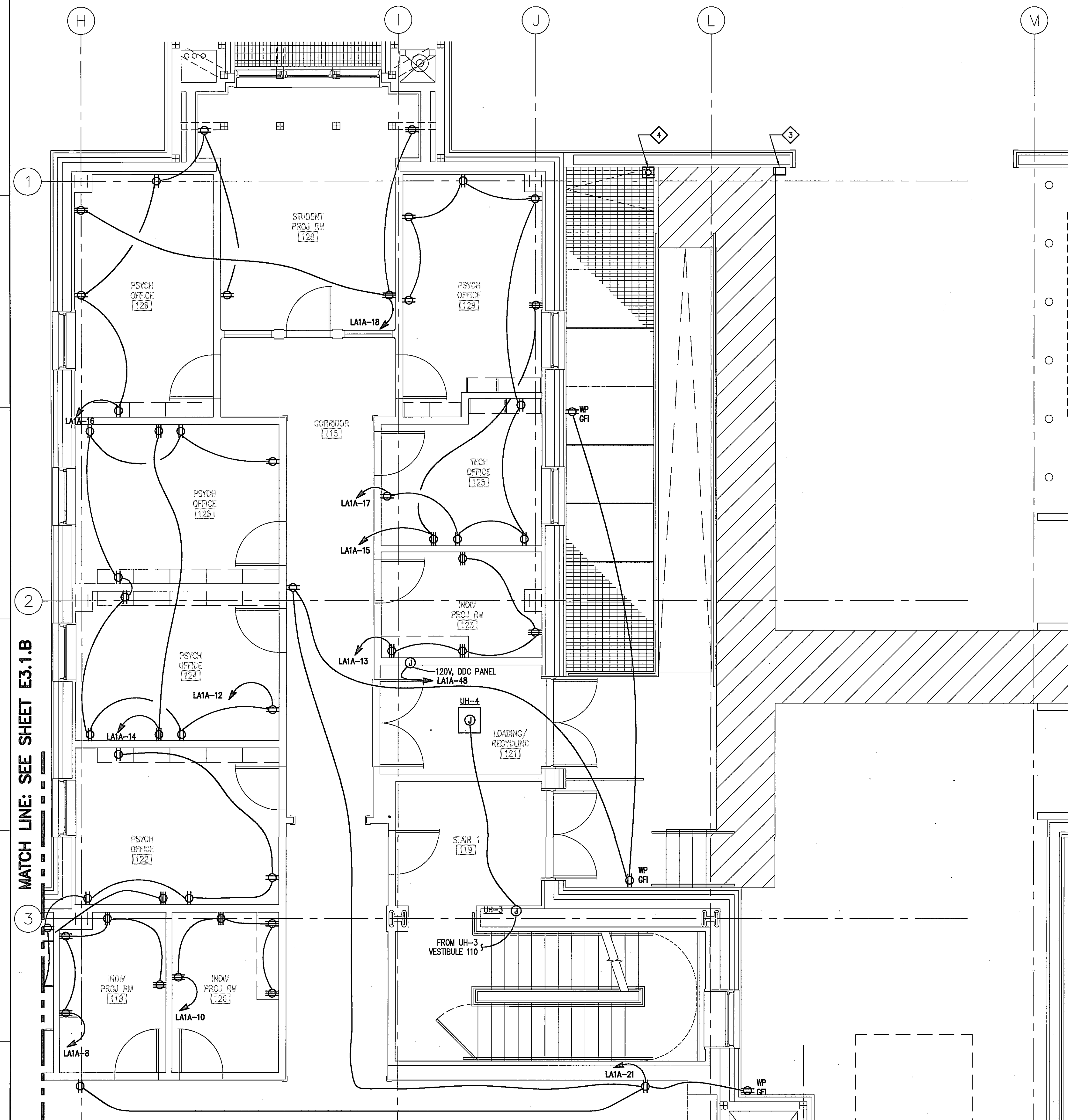
- A. ALL BRANCH CIRCUITS SHALL BE ① UON.
- B. HEATING COILS REQUIRE 120V CONTROL CIRCUIT. PROVIDE (2) 2#12, 1#12 GND IN 3/4" C. FOR HEATING COILS FOR FIRST FLOOR - NORTH. SEE MECHANICAL Piping PLANS FOR EXACT LOCATIONS. SEE PANEL SCHEDULE LAIA CIRCUITS 52 AND 54.
- C. DEVICES IN EXTERIOR WALLS REQUIRE A SHALLOW BACK BOX.

DRAWING NOTES

- ① FLOOR BOX FOR POWER/DATA/AV, FSR FL-600P. PROVIDE DUPLEX RECEPTACLES IN SINGLE GANG SLOT IN BOX. FOR MORE INFORMATION SEE THE TELECOMMUNICATION PLANS, E.4 SERIES.
- ② MOUNT SWITCH ON WALL ABOVE ACCESSIBLE CEILING.
- ③ GENERATOR SUB-BASE FUEL TANK'S REMOTE FILL PANEL. MOUNT TO BRICK WALL.
- ④ DRIP BASIN FOR FUEL FILL LINE. MOUNT TO BRICK WALL. CUT METAL GRATING TO FIT DRIP BASIN. TOP OF GASKETED BASIN LID SHALL BE LEVEL WITH METAL GRATING.

BRANCH CIRCUIT SCHEDULE

BRANCH CIRCUIT DESIGNATION	CONDUCTOR DATA	CONDUIT SIZE	REMARKS
①	2#12, 1#12 G	3/4" C	-
②	4#12 (2#) 1#12 G	3/4" C	
③	6#12 (3#) 1#12 G	3/4" C	
④	3#12 (1#) 1#12 G	3/4" C	
⑤	4#12 (1#) 1#12 G	3/4" C	
⑥	3#12, 1#12 G	3/4" C	
⑦	2#10, 1#10 G	3/4" C	
⑧	3#10, 1#10 G	3/4" C	
⑨	3#8, 1#10 G	3/4" C	
⑩	3#6, 1#10 G	3/4" C	
⑪	3#4, 1#6 G	1" C	
⑫	3#3, 1#6 G	1" C	
⑬	3#1, 1#6 G	1 1/4" C	



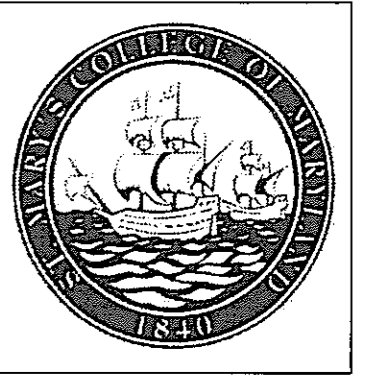
**POWER PLAN
FIRST FLOOR
NORTH WING - EAST**
SCALE: 1/4" = 1'-0"

MATCH LINE: SEE SHEET E3.1.B

MATCH LINE: SEE SHEET E3.1.B

MATCH LINE A-A

MATCH LINE A-A



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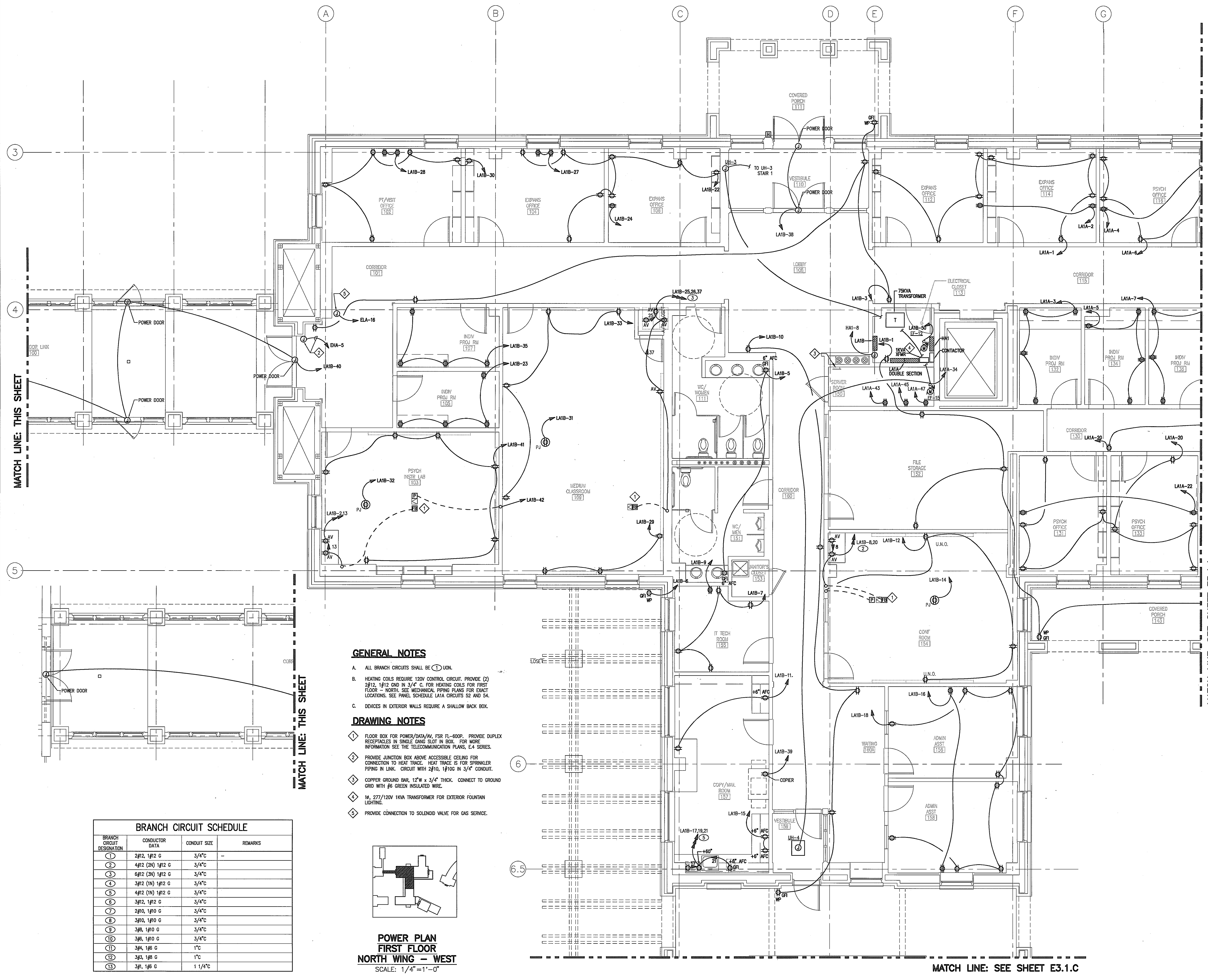
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PROJECT MANAGER _____ DATE _____

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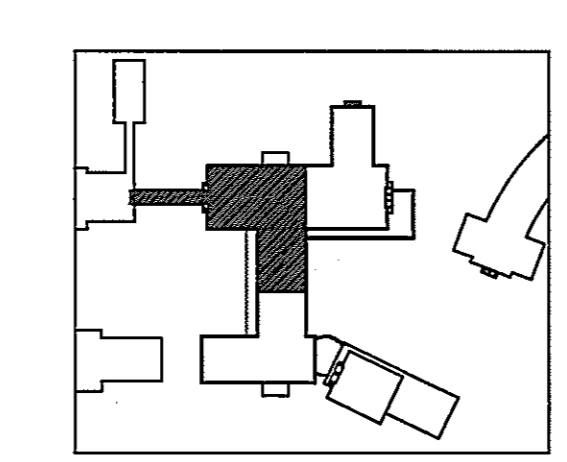


GENERAL NOTES

- A. ALL BRANCH CIRCUITS SHALL BE (1) UN.
- B. HEATING COILS REQUIRE 120V CONTROL CIRCUIT. PROVIDE (2) 2#12, 1#12 GND IN 3/4" C. FOR HEATING COILS FOR FIRST FLOOR - NORTH SEE MECHANICAL PIPING PLANS FOR EXACT LOCATIONS. SEE PANEL SCHEDULE LA1A CIRCUITS S2 AND S4.
- C. DEVICES IN EXTERIOR WALLS REQUIRE A SHALLOW BACK BOX.

DRAWING NOTES

- 1 FLOOR BOX FOR POWER/DATA/AV, FSR FL-600P. PROVIDE DUPLEX RECEPTACLES IN SINGLE GANG SLOT IN BOX. FOR MORE INFORMATION SEE THE TELECOMMUNICATION PLANS, E-4 SERIES.
- 2 PROVIDE JUNCTION BOX ABOVE ACCESSIBLE CEILING FOR CONNECTION TO HEAT TRACE. HEAT TRACE IS FOR SPRINKLER PIPING IN LINK. CIRCUIT WITH 2#10, 1#10G IN 3/4" CONDUIT.
- 3 COPPER GROUND BAR, 12" W x 3/4" THICK. CONNECT TO GROUND GRID WITH #6 GREEN INSULATED WIRE.
- 4 1#, 277/120V 1KVA TRANSFORMER FOR EXTERIOR FOUNTAIN LIGHTING.
- 5 PROVIDE CONNECTION TO SOLENOID VALVE FOR GAS SERVICE.



**POWER PLAN
FIRST FLOOR
NORTH WING - WEST**
SCALE: 1/4" = 1'-0"

BRANCH CIRCUIT SCHEDULE			
BRANCH CIRCUIT DESIGNATION	CONDUCTOR DATA	CONDUIT SIZE	REMARKS
1	2#12, 1#12 G	3/4" C	
2	4#12 (2N) 1#12 G	3/4" C	
3	6#12 (3N) 1#12 G	3/4" C	
4	3#12 (1N) 1#12 G	3/4" C	
5	4#12 (1N) 1#12 G	3/4" C	
6	3#12, 1#12 G	3/4" C	
7	2#10, 1#10 G	3/4" C	
8	3#10, 1#10 G	3/4" C	
9	3#8, 1#10 G	3/4" C	
10	3#6, 1#10 G	3/4" C	
11	3#4, 1#8 G	1" C	
12	3#3, 1#8 G	1" C	
13	3#1, 1#8 G	1 1/4" C	

MATCH LINE: THIS SHEET

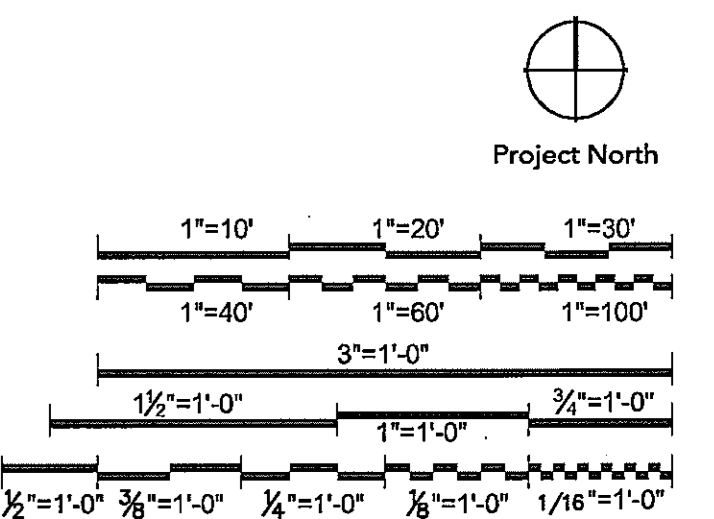
MATCH LINE: THIS SHEET

MATCH LINE: SEE SHEET E3.1.A

MATCH LINE: SEE SHEET E3.1.C

01/05/05
DATE

Graphic Scales



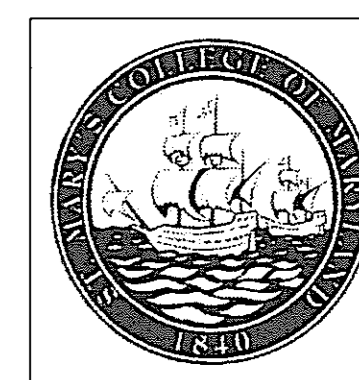
Drawing Title

**POWER PLAN
FIRST FLOOR
NORTH WING - WEST**
1/4" = 1'-0"

Scale
J-494-020-002 25379.000
DGS Project Number SG Project Number

E3.1.B

Drawing Number



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NAME _____
TITLE _____ DATE _____

**DEPT. OF GENERAL
SERVICES APPROVAL**

PROJECT MANAGER _____ DATE _____

CHIEF - PROJ. MGT. & DSGN. _____ DATE _____

Issued for _____ Rev Date _____

Issued for	Rev	Date

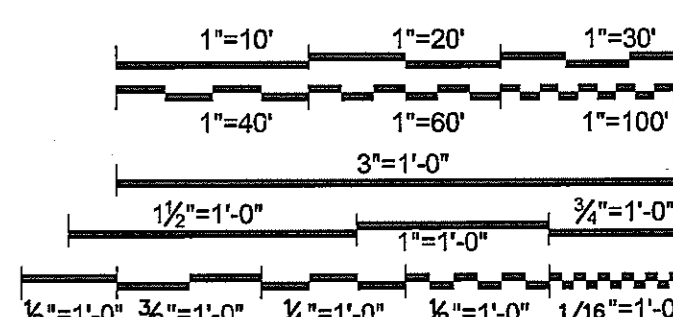
Seals and Signatures _____



01/05/05

Graphic Scales _____ DATE _____

Project North



Drawing Title _____

**POWER PLAN
FIRST FLOOR
SOUTH WING - WEST**
1/4"=1'-0"

Scale
J-494-020-002 25379.000
DGS Project Number SG Project Number

E3.1.C

Drawing Number _____

GENERAL NOTES

- A. ALL BRANCH CIRCUITS SHALL BE ① UON.
- B. HEATING COILS REQUIRE 120V CONTROL CIRCUIT. PROVIDE 2#12, 1#12 GND IN 3/4" C. FOR HEATING COILS FOR FIRST FLOOR - SOUTH. SEE MECHANICAL Piping PLANS FOR EXACT LOCATIONS. SEE PANEL SCHEDULE LBIA CIRCUIT 27.
- C. DEVICES IN EXTERIOR WALLS REQUIRE A SHALLOW BACK BOX.

DRAWING NOTES

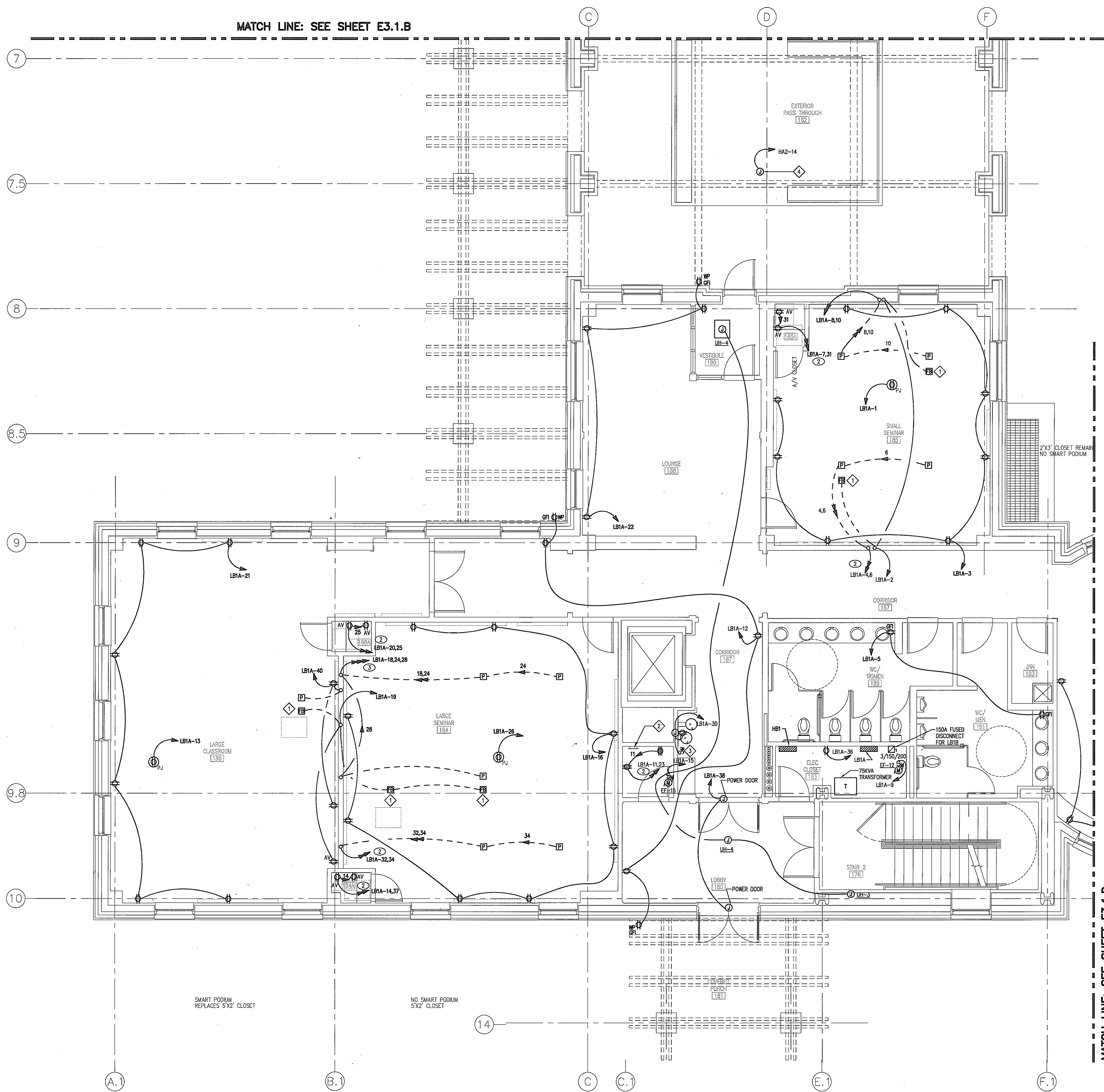
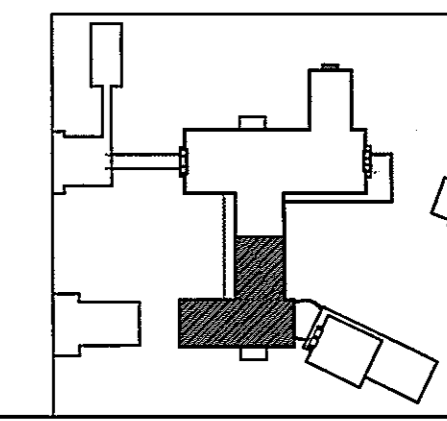
- ① FLOOR BOX FOR POWER/DATA/AV, FSR FL-600P. PROVIDE DUPLEX RECEPTACLES IN SINGLE GANG SLOT IN BOX. FOR MORE INFORMATION SEE THE TELECOMMUNICATION PLANS, E-4 SERIES.
- ② COPPER GROUND BAR, 12"W x 3/4" THICK. CONNECT TO GROUND GRID WITH #6 GREEN INSULATED WIRE.
- ③ MOUNT SWITCH ON WALL ABOVE ACCESSIBLE CEILING.
- ④ PROVIDE CONNECTION TO HEAT TRACE IN CEILING OF PASS-THRU. SHARES CIRCUIT WITH CONTROL PANEL ON SHEET E3.2B.

BRANCH CIRCUIT SCHEDULE

BRANCH CIRCUIT DESIGNATION	CONDUCTOR DATA	CONDUIT SIZE	REMARKS
①	2#12, 1#12 G	3/4"C	
②	4#12 (2N) 1#12 G	3/4"C	
③	6#12 (3N) 1#12 G	3/4"C	
④	3#12 (1N) 1#12 G	3/4"C	
⑤	4#12, 1#12 G	3/4"C	
⑥	3#12, 1#12 G	3/4"C	
⑦	2#10, 1#10 G	3/4"C	
⑧	3#10, 1#10 G	3/4"C	
⑨	3#8, 1#10 G	3/4"C	
⑩	3#6, 1#10 G	3/4"C	
⑪	3#4, 1#6 G	1"C	
⑫	3#3, 1#6 G	1"C	
⑬	3#1, 1#6 G	1 1/4"C	

MATCH LINE: SEE SHEET E3.1.D

**POWER PLAN
FIRST FLOOR
SOUTH WING - WEST**
SCALE: 1/4"=1'-0"



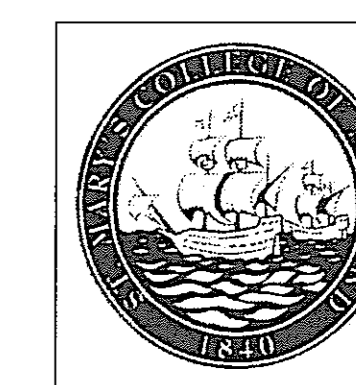
MATCH LINE: SEE SHEET E3.1.B

SMART PODIUM REPLACES 5X2 CLOSET

NO SMART PODIUM 5X2 CLOSET

P:\Projects\25379\000\CD\VIEW\SRV\ESTL.CWG_01.dwg/01/05/05 10:46:52 AM, rwt

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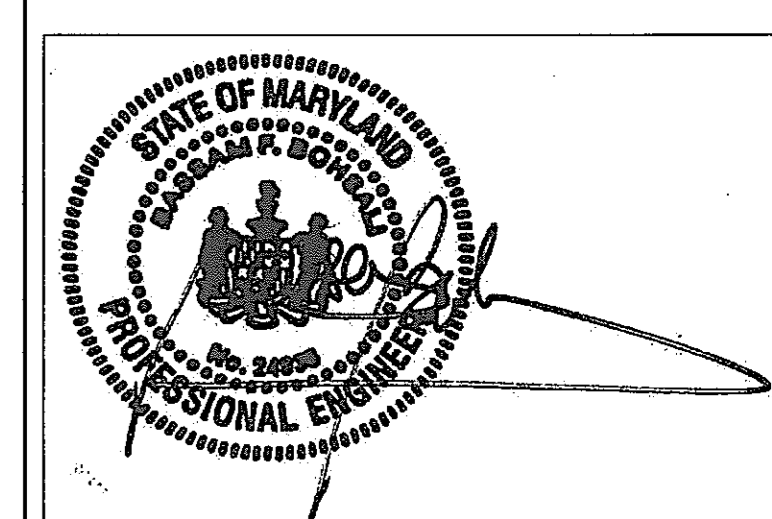
PROJECT MANAGER _____ DATE _____

CHIEF - PROJ. MGT. & DSGN. _____ DATE _____

Issued for _____ Rev. Date _____

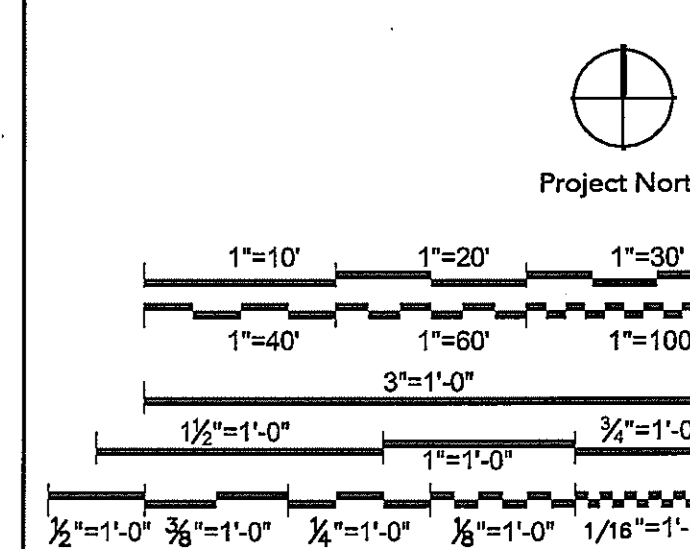
Rev	Date

Seals and Signatures



01/05/05

Graphic Scales _____ DATE _____



Drawing Title _____

**POWER PLAN
FIRST FLOOR
SOUTH WING - EAST**
1/4" = 1'-0"

Scale J-494-020-002 25379.000
DGS Project Number SG Project Number

E3.1.D

Drawing Number _____

BRANCH CIRCUIT DESIGNATION	CONDUCTOR DATA	CONDUIT SIZE	REMARKS
①	2#12, 1#12 G	3/4" C	-
②	4#12 (2N) 1#12 G	3/4" C	
③	6#12 (3N) 1#12 G	3/4" C	
④	3#12 (1N) 1#12 G	3/4" C	
⑤	4#12 (1N) 1#12 G	3/4" C	
⑥	3#12, 1#12 G	3/4" C	
⑦	2#10, 1#10 G	3/4" C	
⑧	3#10, 1#10 G	3/4" C	
⑨	3#8, 1#8 G	3/4" C	
⑩	3#6, 1#6 G	3/4" C	
⑪	3#4, 1#4 G	1" C	
⑫	3#3, 1#3 G	1" C	
⑬	3#1, 1#1 G	1 1/4" C	

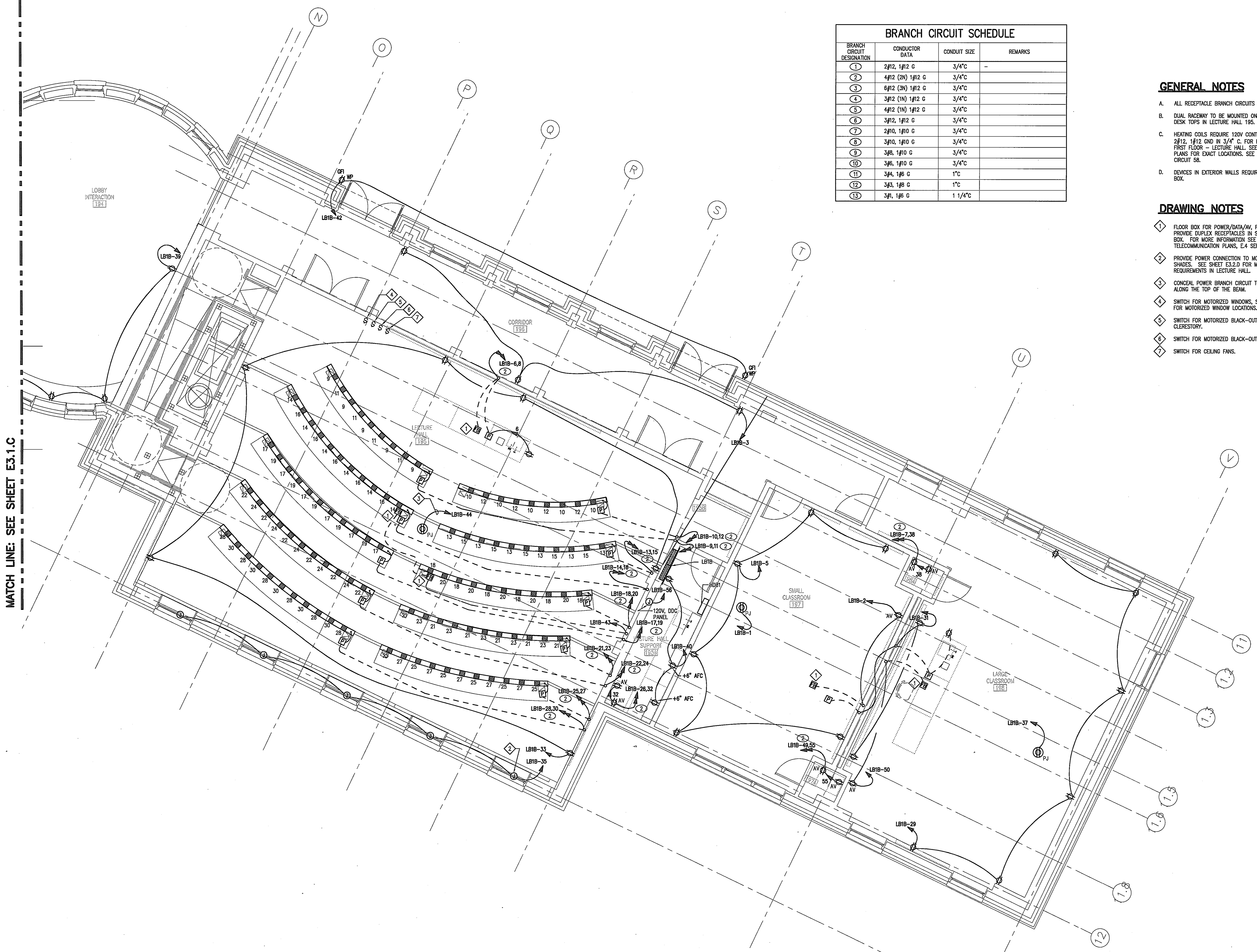
GENERAL NOTES

- A. ALL RECEPTACLE BRANCH CIRCUITS SHALL BE (1) UON.
- B. DUAL RACEWAY TO BE MOUNTED ON THE UNDERSIDE OF DESK TOPS IN LECTURE HALL 195.
- C. HEATING COILS REQUIRE 120V CONTROL CIRCUIT. PROVIDE 2#12, 1#12 GND IN 3/4" C. FOR HEATING COILS FOR FIRST FLOOR - LECTURE HALL. SEE MECHANICAL PIPING PLANS FOR EXACT LOCATIONS. SEE PANEL SCHEDULE LB1B CIRCUIT 58.
- D. DEVICES IN EXTERIOR WALLS REQUIRE A SHALLOW BACK BOX.

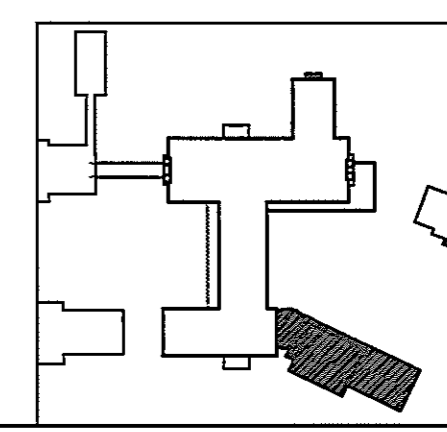
DRAWING NOTES

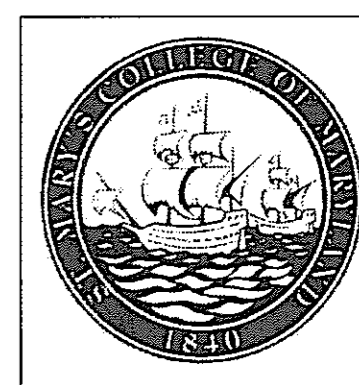
- ① FLOOR BOX FOR POWER/DATA/AV, FSR FL-600P. PROVIDE DUPLEX RECEPTACLES IN SINGLE GANG SLOT IN BOX. FOR MORE INFORMATION SEE THE TELECOMMUNICATION PLANS, E-4 SERIES.
- ② PROVIDE POWER CONNECTION TO MOTORIZED BLACK-OUT SHADES. SEE SHEET E3.2D FOR MORE POWER REQUIREMENTS IN LECTURE HALL.
- ③ CONCEAL POWER BRANCH CIRCUIT TO THE PROJECTOR ALONG THE TOP OF THE BEAM.
- ④ SWITCH FOR MOTORIZED WINDOWS. SEE SHEET E3.2D FOR MOTORIZED WINDOW LOCATIONS.
- ⑤ SWITCH FOR MOTORIZED BLACK-OUT SHADES IN CLERESTORY.
- ⑥ SWITCH FOR MOTORIZED BLACK-OUT SHADES.
- ⑦ SWITCH FOR CEILING FANS.

MATCH LINE: SEE SHEET E3.1.C



**POWER PLAN
FIRST FLOOR
SOUTH WING - EAST**
SCALE: 1/4" = 1'-0"





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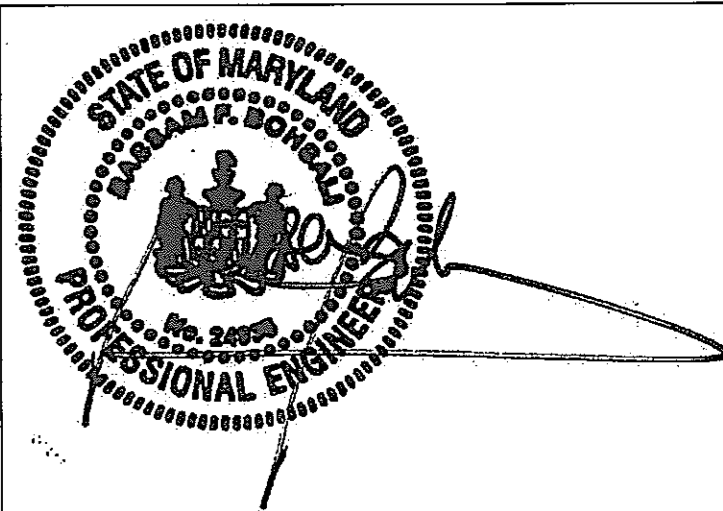
DEPT. OF GENERAL
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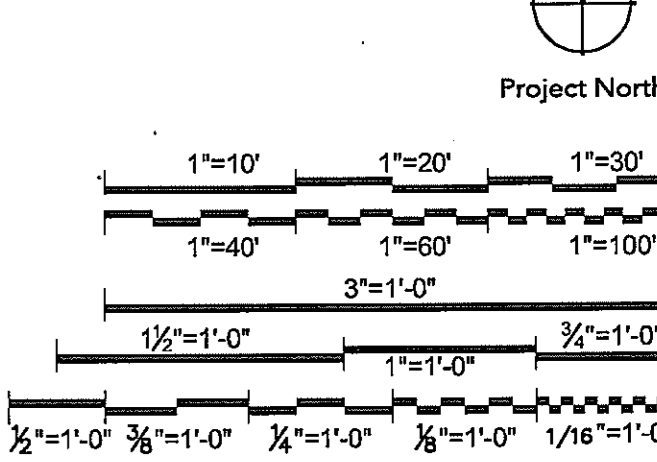
Seals and Signatures



01/05/05

Graphic Scales DATE

Project North



Drawing Title

POWER PLAN
SECOND FLOOR
NORTH WING - EAST
1/4"=1'-0"

Scale
J-494-020-002 25379.000
DGS Project Number SG Project Number

E3.2A

Drawing Number

GENERAL NOTES

- A. ALL CIRCUITS IN LABS SHALL HAVE A DEDICATED NEUTRAL.
- B. ALL IG RECEPTACLES SHALL HAVE A DEDICATED GROUND.
- C. UNLESS OTHERWISE NOTED, BRANCH CIRCUIT HOMERUNS SHALL BE DESIGNATED C .
- D. SEE EQUIPMENT SCHEDULE, SHEET E7.0, FOR LAB EQUIPMENT RECEPTACLE CONFIGURATIONS AND WIRE SIZES.
- E. IN GENERAL, DUAL RACEWAY MOUNTED ON WALL BENEATH CABINETS, UON. SEE ARCHITECTURAL SERIES A03 FOR EXACT LOCATION OF DUAL RACEWAY.
- F. HEATING COILS REQUIRE 120V CONTROL CIRCUIT. PROVIDE 2#12, 1#12 GND IN 3/4" C. FOR HEATING COILS FOR SECOND FLOOR - NORTH. SEE MECHANICAL PIPING PLANS FOR EXACT LOCATIONS. SEE PANEL SCHEDULE LA2G CIRCUIT 17.
- G. DEVICES IN EXTERIOR WALL REQUIRE A SHALLOW BACK BOX.

DRAWING NOTES

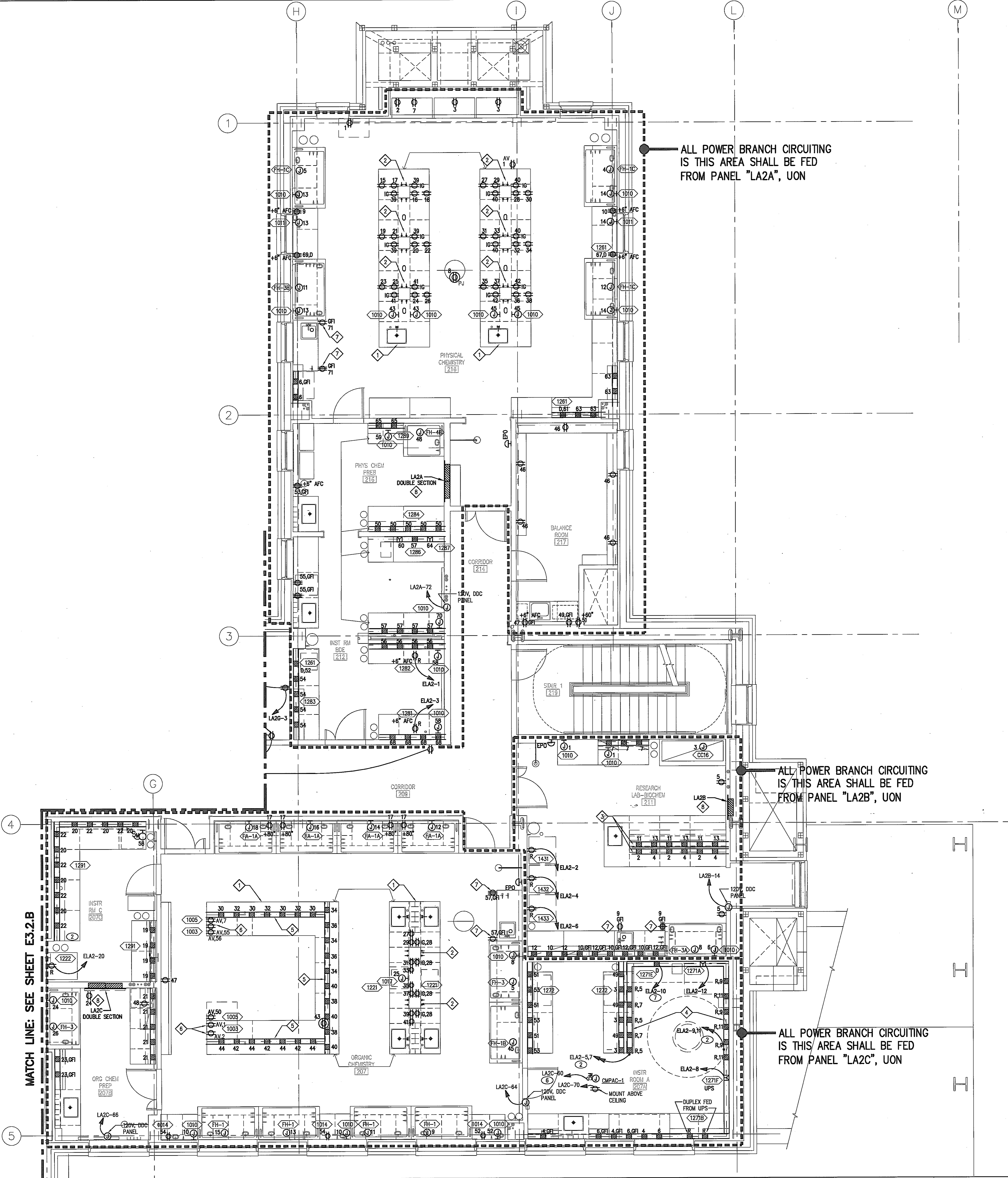
- 1. ROUTE POWER BRANCH CIRCUIT WIRING TO MILLWORK ISLANDS IN CEILING SPACE OF FIRST FLOOR.
- 2. DUPLEX RECEPTACLES ARE LOCATED IN ARCHITECTURAL REAGENT BOXES. SEE ARCHITECTURAL ELEVATIONS, A03.3.1, FOR EXACT LOCATIONS AND LAYOUT OF REAGENT BOXES.
- 3. DUAL RACEWAY MOUNTED ON SHELVING SUPPORTS.
- 4. DUAL RACEWAY MOUNTED TO WALL +42" TO BOTTOM OF RACEWAY. RECEPTACLES LOCATED AS INDICATED.
- 5. DUAL RACEWAY MOUNTED INSIDE CABINET.
- 6. MOUNT AV DUPLEX RECEPTACLE IN MILLWORK.
- 7. MOUNT RECEPTACLES FOR ADA WORKSTATION IN MILLWORK.
- 8. PROVIDE 120V CONNECTION TO ALL MOTORIZED DAMPERS IN LAB. SEE MECHANICAL DRAWINGS FOR EXACT QUANTITY AND LOCATION OF DAMPERS.

BRANCH CIRCUIT DESIGNATION	CONDUCTOR DATA	CONDUIT SIZE	REMARKS
1	2#12, 1#12 G	3/4"	-
2	4#12 (2N) 1#12 G	3/4"	-
3	6#12 (3N) 1#12 G	3/4"	-
4	3#12 (1N) 1#12 G	3/4"	-
5	4#12 (1N) 1#12 G	3/4"	-
6	3#12, 1#12 G	3/4"	-
7	2#10, 1#10 G	3/4"	-
8	3#10, 1#10 G	3/4"	-
9	3#8, 1#10 G	3/4"	-
10	3#6, 1#10 G	3/4"	-
11	3#4, 1#6 G	1"	-
12	3#3, 1#6 G	1"	-
13	3#1, 1#6 G	1 1/4"	-

ALL POWER BRANCH CIRCUITING
IN THIS AREA SHALL BE FED
FROM PANEL "LA2A", UON

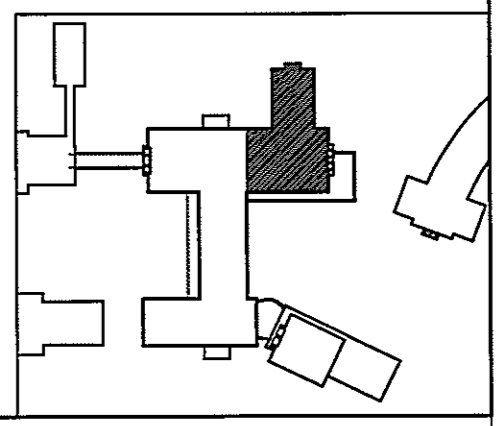
ALL POWER BRANCH CIRCUITING
IN THIS AREA SHALL BE FED
FROM PANEL "LA2B", UON

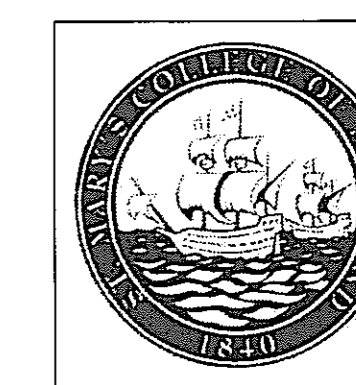
ALL POWER BRANCH CIRCUITING
IN THIS AREA SHALL BE FED
FROM PANEL "LA2C", UON



MATCH LINE: SEE SHEET E3.2.B

POWER PLAN
SECOND FLOOR
NORTH WING - EAST
SCALE: 1/4"=1'-0"





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NAME _____
TITLE _____ DATE _____

DEPT. OF GENERAL
SERVICES APPROVAL

PROJECT MANAGER _____ DATE _____

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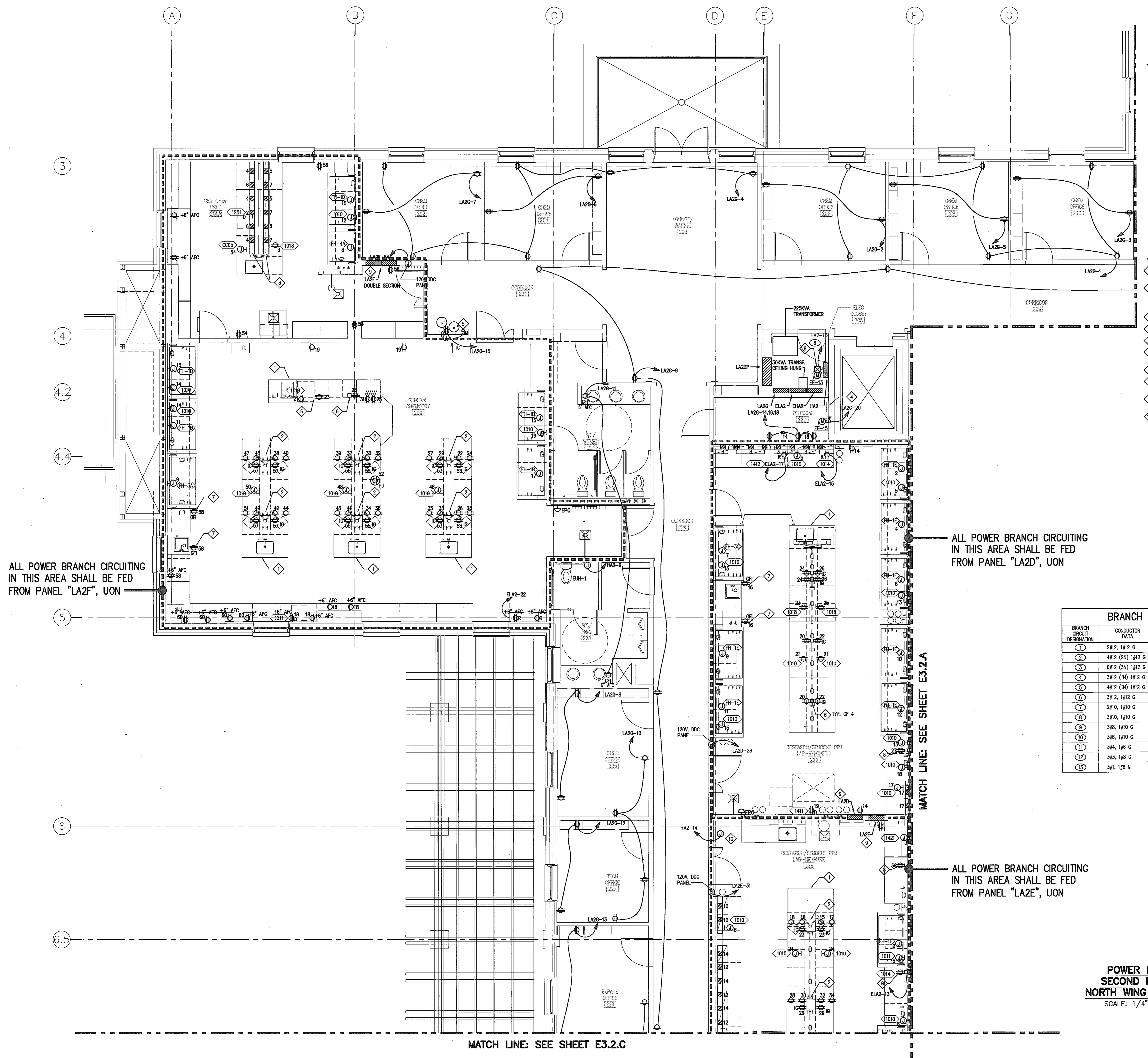
Issued for _____ Rev. Date _____

GENERAL NOTES

- A. ALL CIRCUITS IN LABS SHALL HAVE A DEDICATED NEUTRAL.
- B. ALL IG RECEPTACLES SHALL HAVE A DEDICATED GROUND.
- C. UNLESS OTHERWISE NOTED, BRANCH CIRCUIT HOMERUNS SHALL BE DESIGNATED SEE SHEET E3.3A FOR BRANCH CIRCUIT DESIGNATION SCHEDULE.
- D. SEE EQUIPMENT SCHEDULE, SHEET E7.0, FOR EQUIPMENT RECEPTACLE CONFIGURATIONS AND WIRE SIZES.
- E. IN GENERAL, DUAL RACEWAY MOUNTED ON WALL BEHIND CABINETS, UON. SEE ARCHITECTURAL SERIES A03 FOR EXACT LOCATION OF DUAL RACEWAY.
- F. HEATING COILS REQUIRE 3-WAY CONTROL CIRCUIT. PROVIDE 2#12, 1#12 GND IN 3/4" C. FOR HEATING COILS FOR SECOND FLOOR - NORTH. SEE MECHANICAL PIPING PLANS FOR EXACT LOCATIONS. SEE PANEL SCHEDULE LA2G CIRCUIT 17.
- G. DEVICES IN EXTERIOR WALLS REQUIRE A SHALLOW BACK BOX.

DRAWING NOTES

- 1 ROUTE POWER BRANCH CIRCUIT WIRING TO MILLWORK ISLANDS IN CEILING SPACE OF FIRST FLOOR.
- 2 DUPLEX RECEPTACLES ARE LOCATED IN ARCHITECTURAL REAGENT BOXES. SEE ARCHITECTURAL ELEVATIONS, A03.3.1, FOR EXACT LOCATIONS AND LAYOUT OF REAGENT BOXES.
- 3 DUAL RACEWAY MOUNTED ON SHELVING SUPPORTS.
- 4 12" L x 3/4" THICK x 4" H COPPER GROUND BAR.
- 5 MOUNT SWITCH ON WALL ABOVE ACCESSIBLE CEILING.
- 6 TOMBSTONE ON COUNTERTOP. WATER SAVER E500WS-SA WITH SATIN FINISH COVERPLATE OR APPROVED EQUAL.
- 7 MOUNT RECEPTACLE(S) IN MILLWORK.
- 8 TOMBSTONE ON COUNTERTOP. WATER SAVER E500WS-SA WITH SATIN FINISH COVERPLATE OR APPROVED EQUAL.
- 9 PROVIDE COMBINATION MOTOR STARTER/DISCONNECT NEMA SIZE "00".
- 10 HEAT TRACE CONTROL AND ALARM PANEL SHARES CIRCUIT WITH HEAT TRACE ON SHEET E3.1C.



ALL POWER BRANCH CIRCUITING IN THIS AREA SHALL BE FED FROM PANEL "LA2F", UON

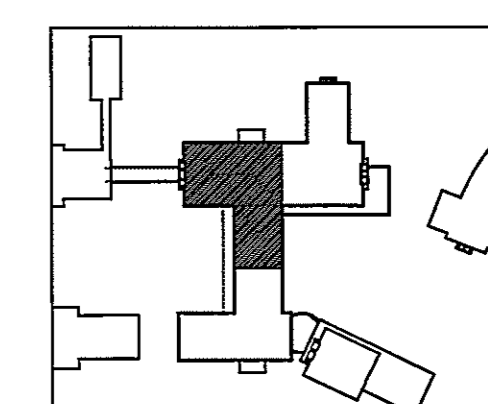
ALL POWER BRANCH CIRCUITING IN THIS AREA SHALL BE FED FROM PANEL "LA2D", UON

MATCH LINE: SEE SHEET E3.2.A

ALL POWER BRANCH CIRCUITING IN THIS AREA SHALL BE FED FROM PANEL "LA2E", UON

BRANCH CIRCUIT DESIGNATION	CONDUCTOR DATA	CONDUIT SIZE	REMARKS
1	2#12, 1#12 G	3/4" C	
2	4#12 (2N) 1#12 G	3/4" C	
3	6#12 (3N) 1#12 G	3/4" C	
4	3#12 (1N) 1#12 G	3/4" C	
5	4#12 (1N) 1#12 G	3/4" C	
6	3#12, 1#12 G	3/4" C	
7	2#10, 1#10 G	3/4" C	
8	3#10, 1#10 G	3/4" C	
9	3#8, 1#8 G	3/4" C	
10	3#6, 1#6 G	3/4" C	
11	3#4, 1#4 G	1" C	
12	3#3, 1#3 G	1" C	
13	3#1, 1#1 G	1 1/4" C	

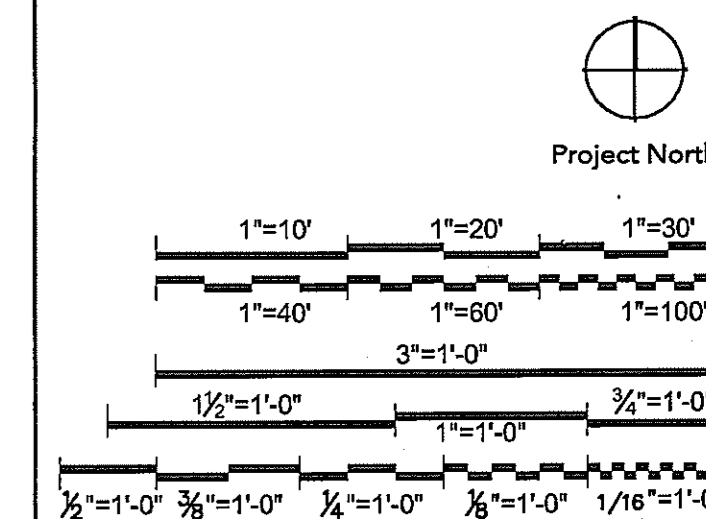
**POWER PLAN
SECOND FLOOR
NORTH WING - WEST**
SCALE: 1/4" = 1'-0"



MATCH LINE: SEE SHEET E3.2.C

01/05/05
DATE

Graphic Scales



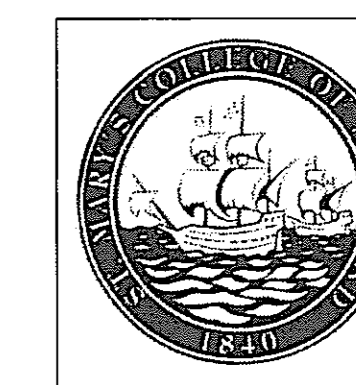
Drawing Title

**POWER PLAN
SECOND FLOOR
NORTH WING - WEST**
1/4" = 1'-0"

Scale
J-494-020-002 25379.000
DGS Project Number SG Project Number

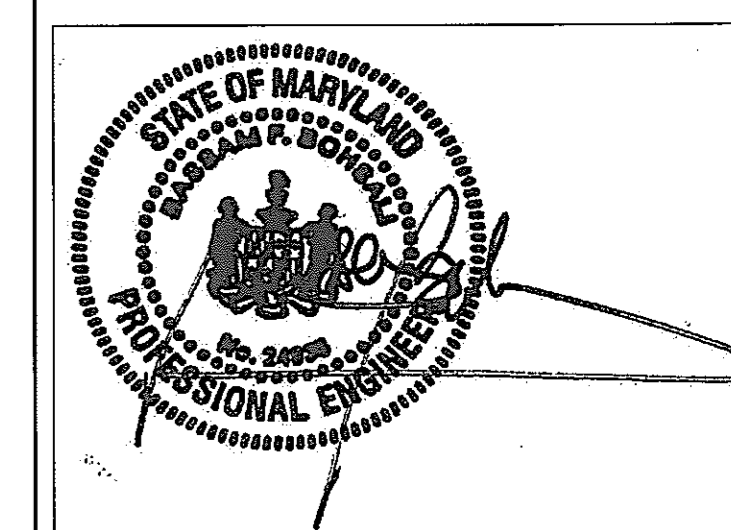
E3.2.B

Drawing Number



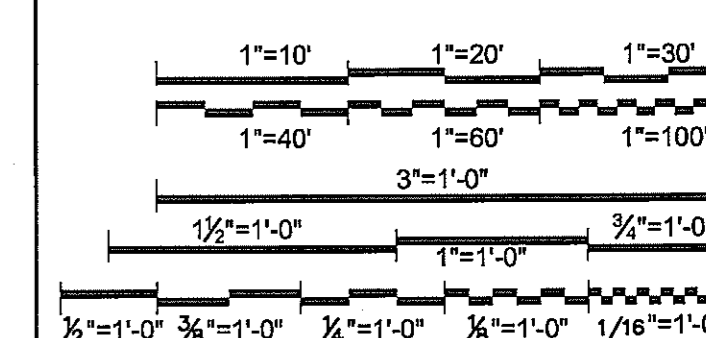
BRANCH CIRCUIT DESIGNATION	CONDUCTOR DATA	CONDUIT SIZE	REMARKS
1	2#12, 1#12 G	3/4"	
2	4#12 (2N) 1#12 G	3/4"	
3	6#12 (3N) 1#12 G	3/4"	
4	3#12 (1N) 1#12 G	3/4"	
5	4#12 (1N) 1#12 G	3/4"	
6	3#12, 1#12 G	3/4"	
7	2#10, 1#10 G	3/4"	
8	3#10, 1#10 G	3/4"	
9	3#8, 1#10 G	3/4"	
10	3#6, 1#10 G	3/4"	
11	3#4, 1#6 G	1"	
12	3#3, 1#6 G	1"	
13	3#1, 1#6 G	1 1/4"	

Seals and Signatures



01/05/05

Graphic Scales DATE



Drawing Title

**POWER PLAN
SECOND FLOOR
SOUTH WING - WEST**
1/4"=1'-0"

Scale
J-494-020-002 25379.000
DGS Project Number SG Project Number

E3.2.C

Drawing Number

GENERAL NOTES

- UNLESS OTHERWISE NOTED, BRANCH CIRCUIT HOMERUNS SHALL BE DESIGNATED (1). SEE SHEET E3.3A FOR BRANCH CIRCUIT DESIGNATION SCHEDULE.
- SEE EQUIPMENT SCHEDULE, SHEET E7.0, FOR EQUIPMENT RECEPTACLE CONFIGURATIONS AND WIRE SIZES.
- IN GENERAL, DUAL RACEWAY MOUNTED ON WALL BENEATH CABINETS, UON.
- HEATING COILS REQUIRE 120V CONTROL CIRCUIT. PROVIDE 2#12, 1#12 GND IN 3/4" C. FOR HEATING COILS FOR SECOND FLOOR - SOUTH. SEE MECHANICAL PIPING PLANS FOR EXACT LOCATIONS. SEE PANEL SCHEDULE LB2B CIRCUIT 28.
- DEVICES IN EXTERIOR WALLS REQUIRE A SHALLOW BACK BOX.

ALL POWER BRANCH CIRCUITING
IN THIS AREA SHALL BE FED
FROM PANEL "LA2E", UON

DRAWING NOTES

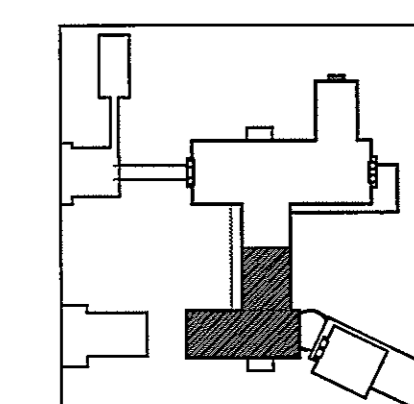
- 1 12" W x 3/4" THICK x 4" H COPPER GROUND BAR.
- 2 FLOOR BOX FOR POWER/DATA/AV, FSR FL-600P. PROVIDE DUPLEX RECEPTACLE IN SINGLE GANG SLOT IN BOX. FOR MORE INFORMATION SEE THE TELECOMMUNICATION PLANS, E.4 SERIES.
- 3 MOUNT RECEPTACLE IN MILLWORK, 18" AFF.
- 4 MOUNT SWITCH ON WALL ABOVE ACCESSIBLE CEILING.
- 5 MOUNT RECEPTACLES IN MILLWORK.

BRANCH CIRCUIT SCHEDULE

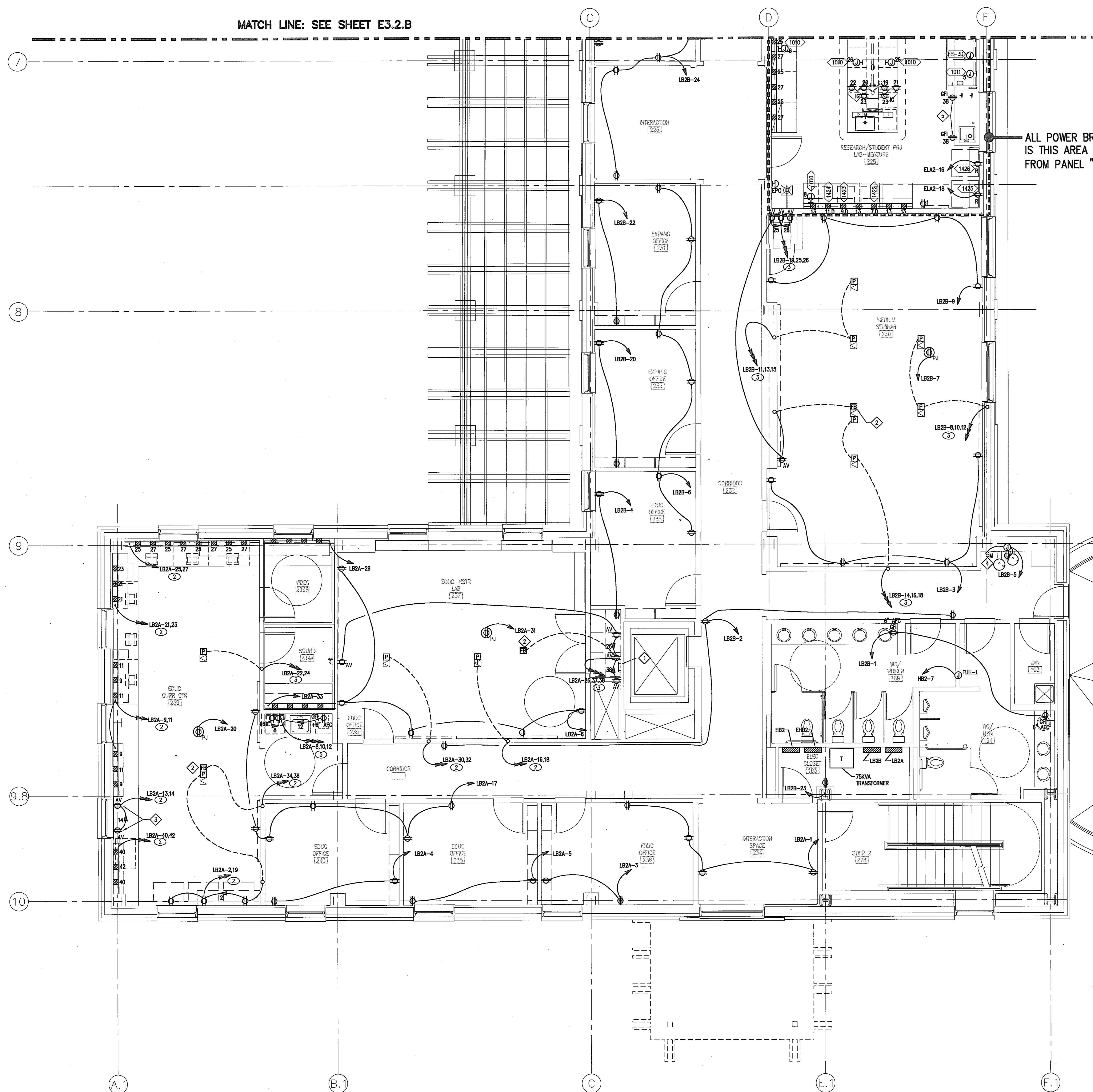
BRANCH CIRCUIT DESIGNATION	CONDUCTOR DATA	CONDUIT SIZE	REMARKS
1	2#12, 1#12 G	3/4"	
2	4#12 (2N) 1#12 G	3/4"	
3	6#12 (3N) 1#12 G	3/4"	
4	3#12 (1N) 1#12 G	3/4"	
5	4#12 (1N) 1#12 G	3/4"	
6	3#12, 1#12 G	3/4"	
7	2#10, 1#10 G	3/4"	
8	3#10, 1#10 G	3/4"	
9	3#8, 1#10 G	3/4"	
10	3#6, 1#10 G	3/4"	
11	3#4, 1#6 G	1"	
12	3#3, 1#6 G	1"	
13	3#1, 1#6 G	1 1/4"	

MATCH LINE: SEE SHEET E3.2.D

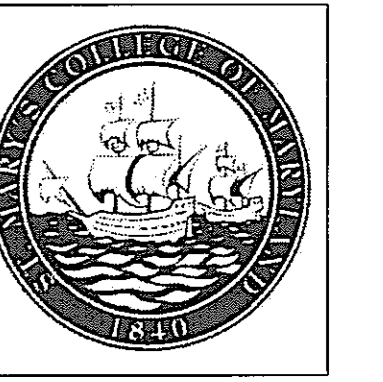
**POWER PLAN
SECOND FLOOR
SOUTH WING - WEST**
SCALE: 1/4"=1'-0"



MATCH LINE: SEE SHEET E3.2.B



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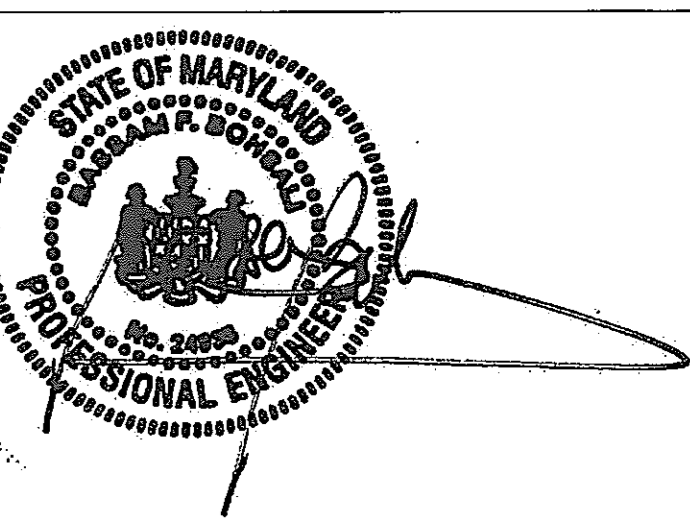
DEPT. OF GENERAL SERVICES APPROVAL

PROJECT MANAGER _____ DATE _____

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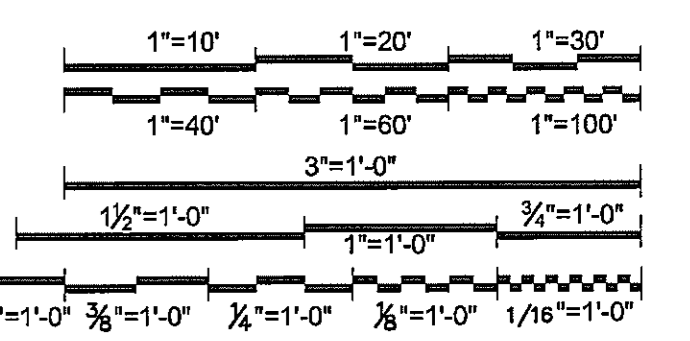
Issued for _____ Rev. Date _____

Seals and Signatures



01/05/05

Graphic Scales _____ DATE _____



Drawing Title _____

**POWER PLAN
SECOND FLOOR
SOUTH WING - EAST**
1/4" = 1'-0"

Scale _____
J-494-020-002 25379.000
DGS Project Number SG Project Number

E3.2.D

Drawing Number _____

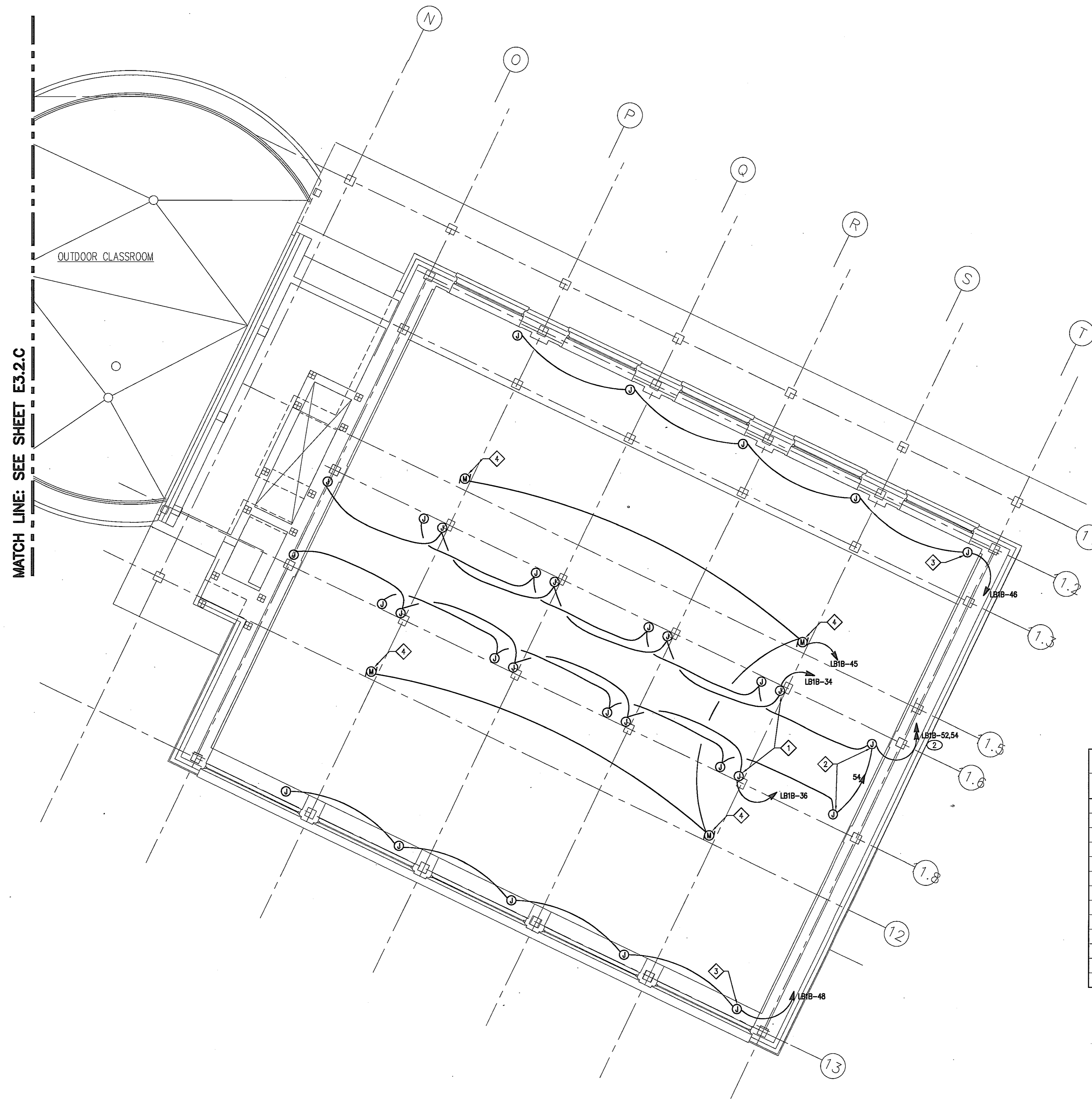
GENERAL NOTE

- A. SEE "INTERIOR ELEVATIONS LECTURE HALL" SHEET A8.1.1 FOR LOCATIONS.
- B. PANEL "LB1B" IS LOCATED ON THE FIRST FLOOR, SEE SHEET E3.2.

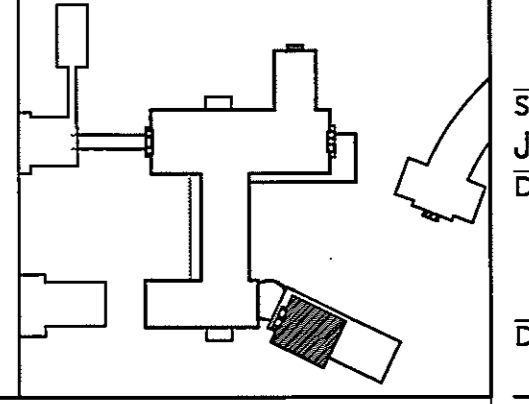
DRAWING NOTES

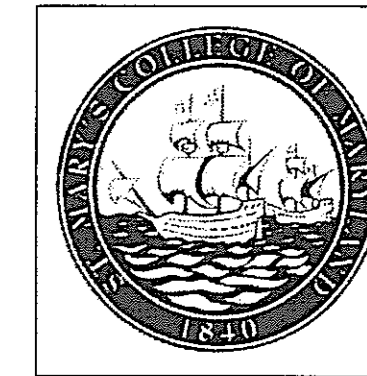
- 1. PROVIDE POWER CONNECTION TO MOTORIZED WINDOW OPERATIONS. TYPICAL OF 10. FOR SWITCH LOCATION, SEE SHEET E3.1.D.
- 2. PROVIDE POWER CONNECTION TO MOTORIZED BLACK-OUT SHADES IN CLOSETORY. TYPICAL OF 10. FOR SWITCH LOCATION, SEE SHEET E3.1.D.
- 3. PROVIDE POWER CONNECTION TO MOTORIZED BLACK-OUT SHADES. TYPICAL OF 10. FOR SWITCH LOCATION, SEE SHEET E3.1.D.
- 4. PROVIDE POWER CONNECTION TO CEILING FANS. FOR SWITCH LOCATION, SEE SHEET E3.1.D.

BRANCH CIRCUIT DESIGNATION	CONDUCTOR DATA	CONDUIT SIZE	REMARKS
1	2#12, 1#12 G	3/4"	—
2	4#12 (2N) 1#12 G	3/4"	—
3	6#12 (2N) 1#12 G	3/4"	—
4	3#12 (1N) 1#12 G	3/4"	—
5	4#12 (1N) 1#12 G	3/4"	—
6	3#12, 1#12 G	3/4"	—
7	2#10, 1#10 G	3/4"	—
8	3#10, 1#10 G	3/4"	—
9	3#8, 1#10 G	3/4"	—
10	3#8, 1#10 G	3/4"	—
11	3#4, 1#6 G	1"	—
12	3#3, 1#6 G	1"	—
13	3#1, 1#6 G	1 1/4"	—



**POWER PLAN
SECOND FLOOR
SOUTH WING - EAST**
SCALE: 1/4" = 1'-0"





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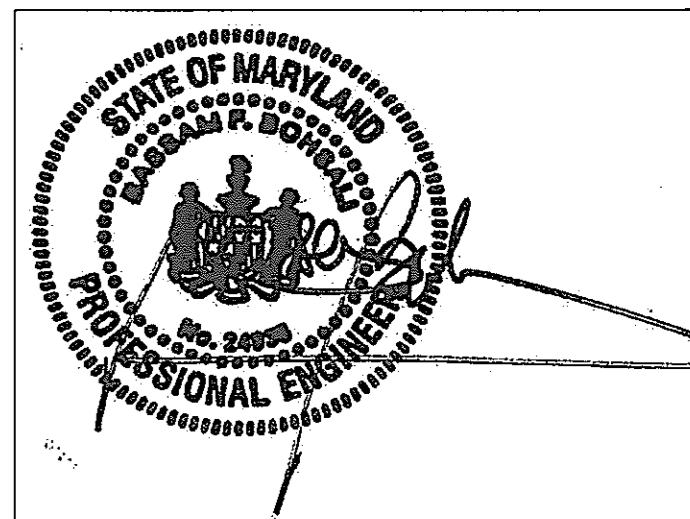
DEPT. OF GENERAL SERVICES APPROVAL

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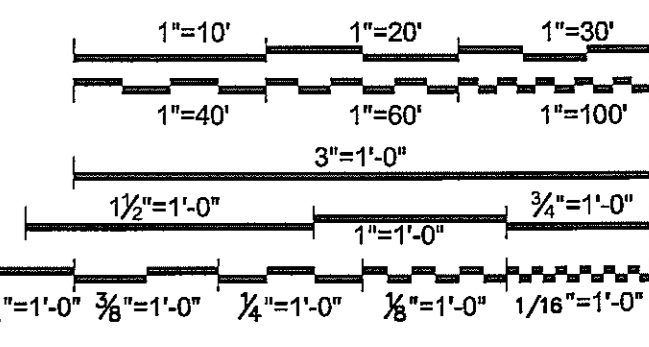
Issued for	Rev	Date

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01/05/05

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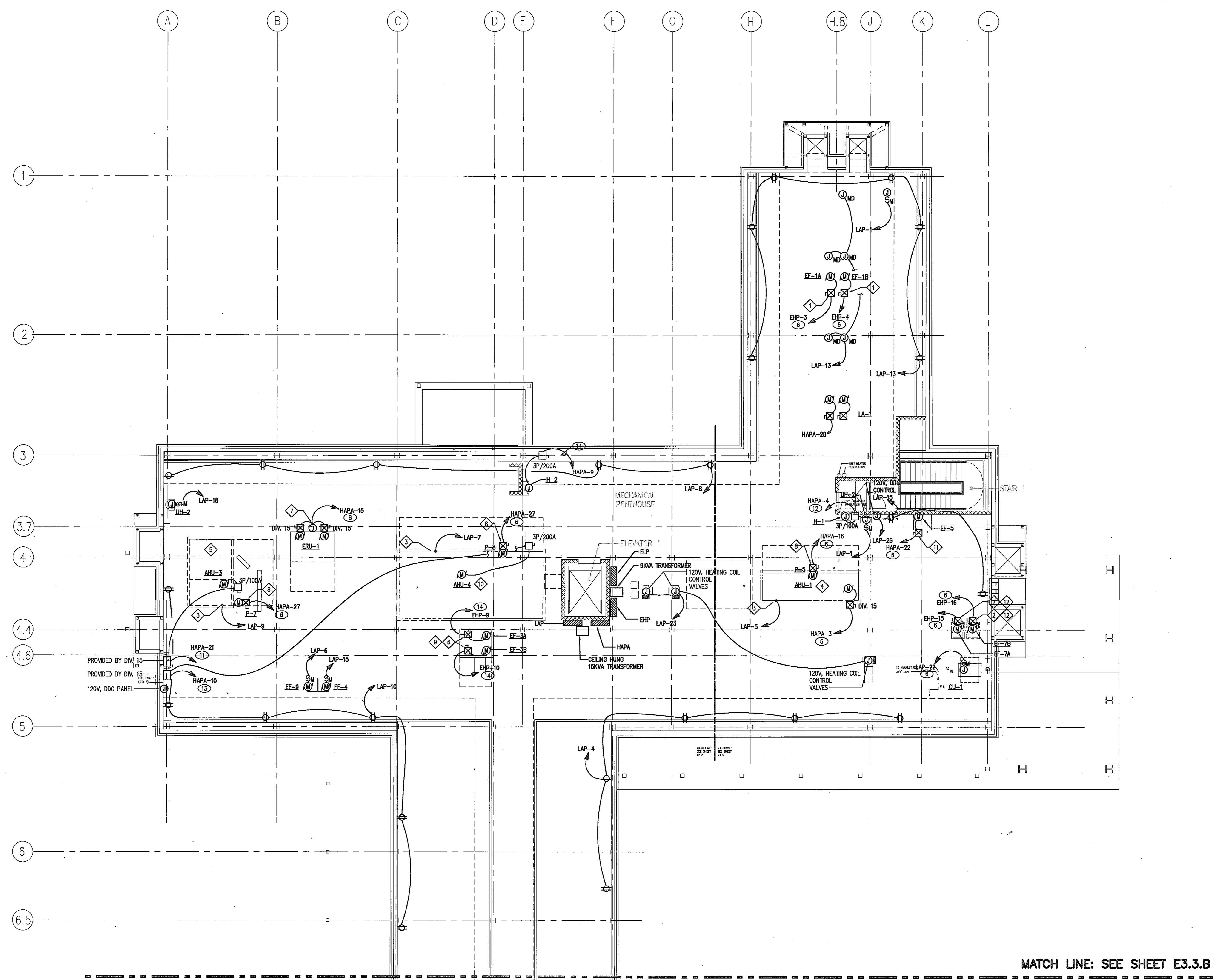
Drawing Title

POWER PLAN
PENTHOUSE NORTH WING

Scale 1/8" = 1'-0"
J-494-020-002 25379.000
DGS Project Number SG Project Number

E3.3.A

Drawing Number



MATCH LINE: SEE SHEET E3.3.B

POWER PLAN
PENTHOUSE NORTH WING
SCALE: 1/8" = 1'-0"

GENERAL NOTES

- A. UNLESS OTHERWISE NOTED, BRANCH CIRCUIT HOMERUNS SHALL BE DESIGNATED (D).
- B. DEVICES IN EXTERIOR WALLS REQUIRE A SHALLOW BACK BOX.

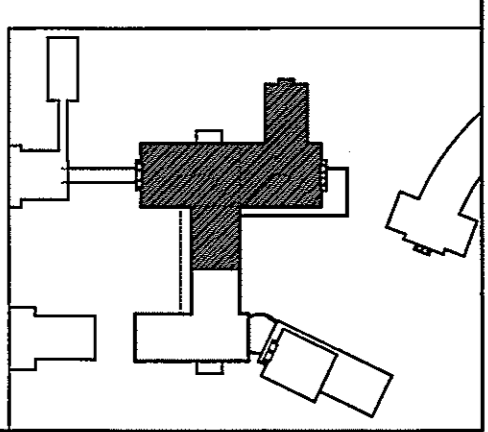
DRAWING NOTES

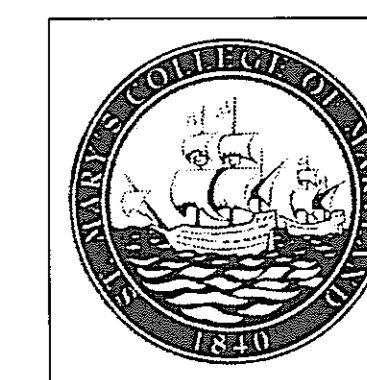
- 1 PROVIDE NEMA SIZE '11' COMBINATION MOTOR STARTER/DISCONNECT FOR EXHAUST FANS EF-1A AND EF-1B.
- 2 PROVIDE NEMA SIZE '00' COMBINATION MOTOR STARTER/DISCONNECT FOR EXHAUST FANS EF-2A AND EF-2B.
- 3 PROVIDE POWER TO LIGHTS WITHIN AHU.
- 4 MOTORIZED DAMPERS REQUIRE 120V POWER CIRCUIT. PROVIDE 2#12, 1#12 GND IN 3/4" C. FOR MOTORIZED DAMPERS ASSOCIATED WITH AHU-1. SEE MECHANICAL PENTHOUSE PLANS FOR EXACT LOCATIONS. CIRCUIT TO LAP-20.
- 5 MOTORIZED DAMPERS REQUIRE 120V POWER CIRCUIT. PROVIDE 2#12, 1#12 GND IN 3/4" C. FOR MOTORIZED DAMPERS ASSOCIATED WITH AHU-3. SEE MECHANICAL PENTHOUSE PLANS FOR EXACT LOCATIONS. CIRCUIT TO LAP-17.
- 6 PROVIDE NEMA SIZE '4' COMBINATION MOTOR STARTER/DISCONNECT FOR EXHAUST FANS EF-3A AND EF-3B.

- 7 PROVIDE SINGLE POINT CONNECTION TO ENERGY RECOVERY UNIT ERU-1.
- 8 PROVIDE A NEMA SIZE '00' COMBINATION MOTOR STARTER/DISCONNECT FOR PRE-HEAT COIL P-7, P-8 AND P-8.
- 9 MOTORIZED DAMPERS REQUIRE 120V POWER CIRCUIT. PROVIDE 2#12, 1#12 GND IN 3/4" C. FOR MOTORIZED DAMPERS ASSOCIATED WITH EF-3(A&B). SEE MECHANICAL PENTHOUSE PLANS FOR EXACT LOCATIONS. CIRCUIT TO ELP-1.
- 10 MOTORIZED DAMPERS REQUIRE 120V POWER CIRCUIT. PROVIDE 2#12, 1#12 GND IN 3/4" C. FOR MOTORIZED DAMPERS ASSOCIATED WITH AHU-4. SEE MECHANICAL PENTHOUSE PLANS FOR EXACT LOCATIONS. CIRCUIT TO LAP-21.
- 11 PROVIDE NEMA SIZE '0' COMBINATION MOTOR STARTER/DISCONNECT FOR EXHAUST FAN EF-5.
- 12 MOTORIZED DAMPERS REQUIRE 120V POWER CIRCUIT. PROVIDE 2#12, 1#12 GND IN 3/4" C. FOR MOTORIZED DAMPERS ASSOCIATED WITH EF-7(A&B). SEE MECHANICAL PENTHOUSE PLANS FOR EXACT LOCATIONS. CIRCUIT TO ELP-3.

BRANCH CIRCUIT SCHEDULE

BRANCH CIRCUIT DESIGNATION	CONDUCTOR DATA	CONDUIT SIZE	REMARKS
1	2#12, 1#12 G	3/4"C	
2	4#12 (2#) 1#12 G	3/4"C	
3	6#12 (3#) 1#12 G	3/4"C	
4	3#12 (1#) 1#12 G	3/4"C	
5	4#12 (1#) 1#12 G	3/4"C	
6	3#12, 1#12 G	3/4"C	
7	2#10, 1#10 G	3/4"C	
8	3#10, 1#10 G	3/4"C	
9	3#10, 1#10 G	3/4"C	
10	3#8, 1#10 G	3/4"C	
11	3#4, 1#8 G	1"C	
12	3#3, 1#8 G	1 1/4"C	
13	3#1, 1#8 G	2"C	
14	3#2, 1#8 G	2"C	





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TITLE DATE

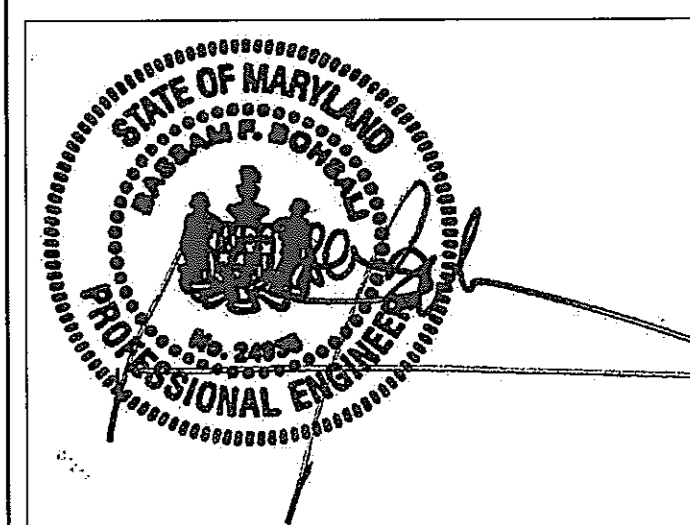
DEPT. OF GENERAL
SERVICES APPROVAL

PROJECT MANAGER DATE

CHIEF - PROJ. MGT. & DSGN. DATE

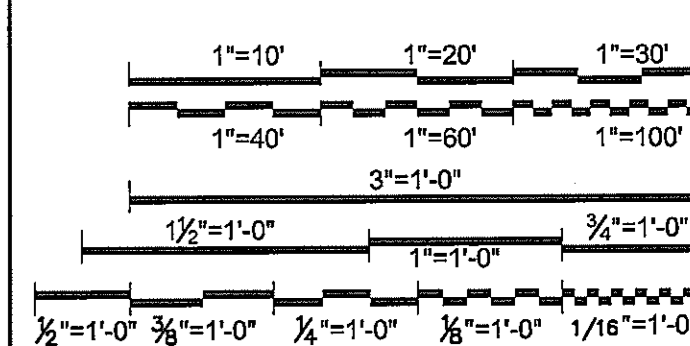
Issued for Rev. Date

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01/05/05

Graphic Scales DATE



Drawing Title

**POWER PLAN
PENTHOUSE SOUTH WING**

1/8" = 1'-0"

Scale
J-494-020-002 25379.000
DGS Project Number SG Project Number

E3.3.B

Drawing Number

BRANCH CIRCUIT SCHEDULE

BRANCH CIRCUIT DESIGNATION	CONDUCTOR DATA	CONDUIT SIZE	REMARKS
1	2#12, 1#12 G	3/4" C	-
2	4#12 (2N), 1#12 G	3/4" C	-
3	6#12 (3N), 1#12 G	3/4" C	-
4	3#12 (1N), 1#12 G	3/4" C	-
5	4#12 (1N), 1#12 G	3/4" C	-
6	3#12, 1#12 G	3/4" C	-
7	2#10, 1#10 G	3/4" C	-
8	3#10, 1#10 G	3/4" C	-
9	3#8, 1#10 G	3/4" C	-
10	3#6, 1#10 G	3/4" C	-
11	3#4, 1#6 G	1" C	-
12	3#3, 1#6 G	1 1/4" C	-
13	3#1/0, 1#6 G	2" C	-
14	3#2/0, 1#8 G	2" C	-

GENERAL NOTES

A. UNLESS OTHERWISE NOTED, BRANCH CIRCUIT HOMERUNS SHALL BE DESIGNATION ()

B. DEVICES IN EXTERIOR WALLS REQUIRE A SHALLOW BACK BOX.

DRAWING NOTES

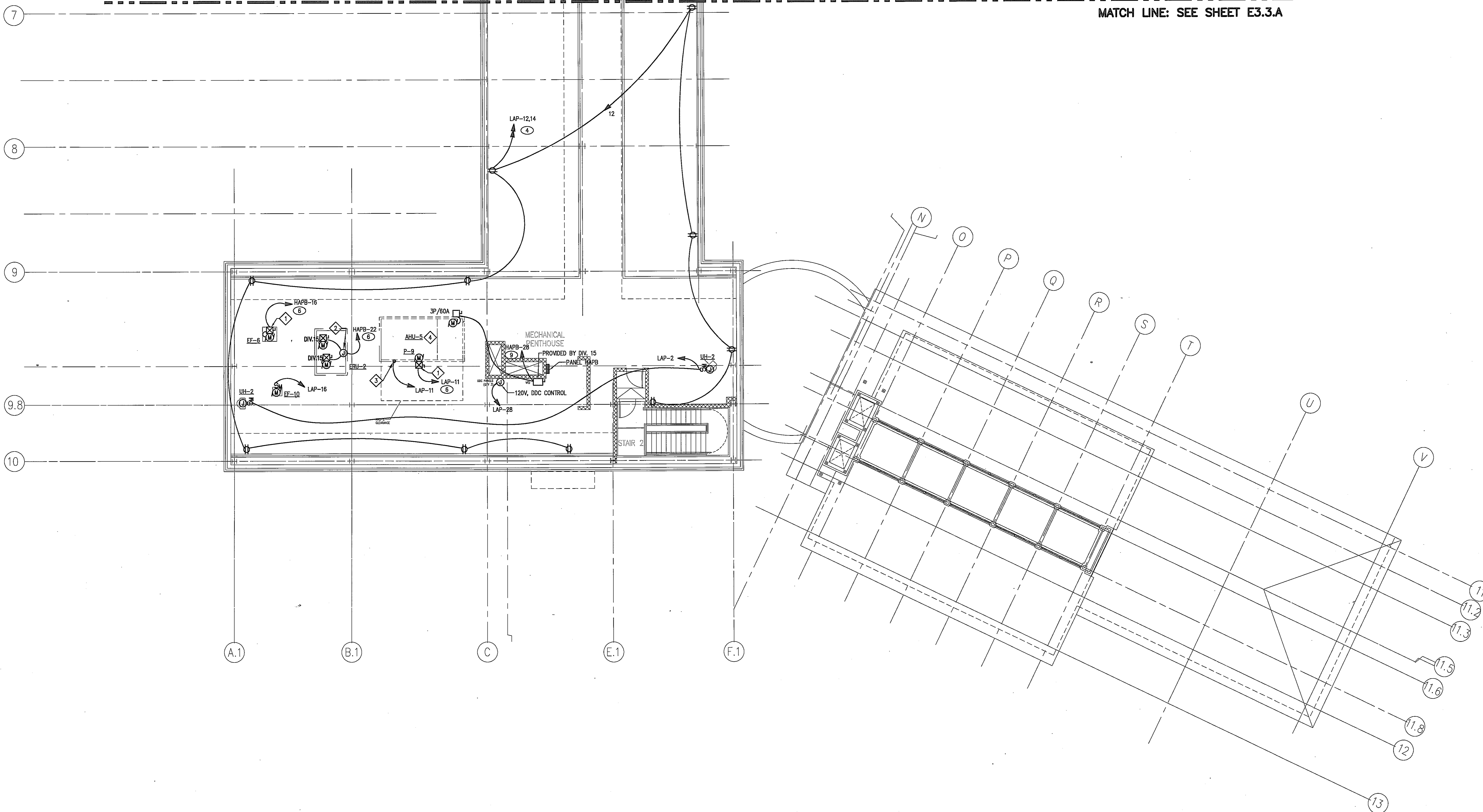
1 PROVIDE NEMA SIZE '00' COMBINATION MOTOR STARTER/DISCONNECT FOR EXHAUST FAN EF-6 AND PRE-HEAT COIL P-9.

2 PROVIDE SINGLE POINT CONNECTION TO ENERGY RECOVERY UNIT ERU-2.

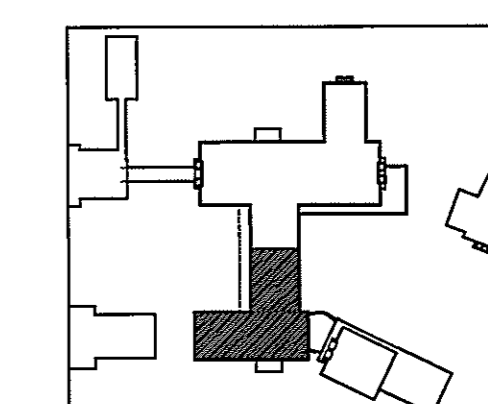
3 PROVIDE POWER TO LIGHTS WITHIN AHU.

4 MOTORIZED DAMPERS REQUIRE 120V POWER CIRCUIT. PROVIDE 2#12, 1#12 GND IN 3/4" C. FOR MOTORIZED DAMPERS ASSOCIATED WITH AHU-5. SEE MECHANICAL PENTHOUSE PLANS FOR EXACT LOCATIONS. CIRCUIT TO LAP-25.

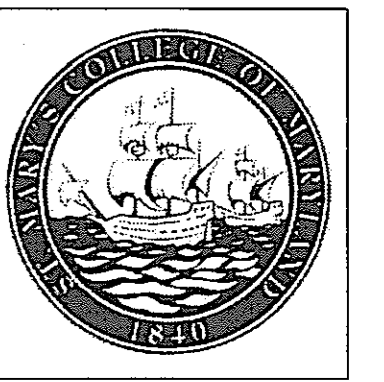
MATCH LINE: SEE SHEET E3.3.A



**POWER PLAN
PENTHOUSE SOUTH WING**
SCALE: 1/8" = 1'-0"



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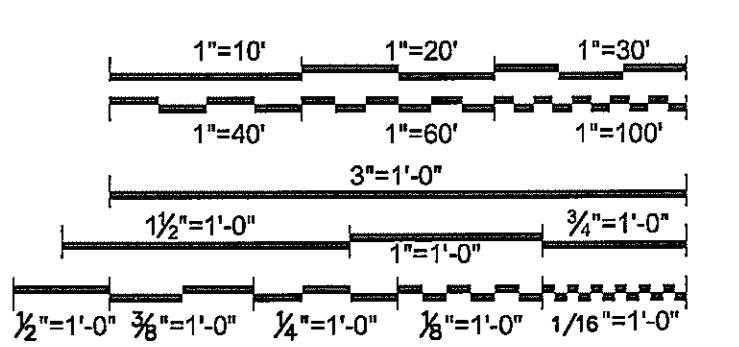
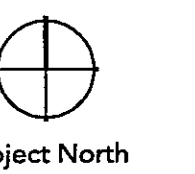
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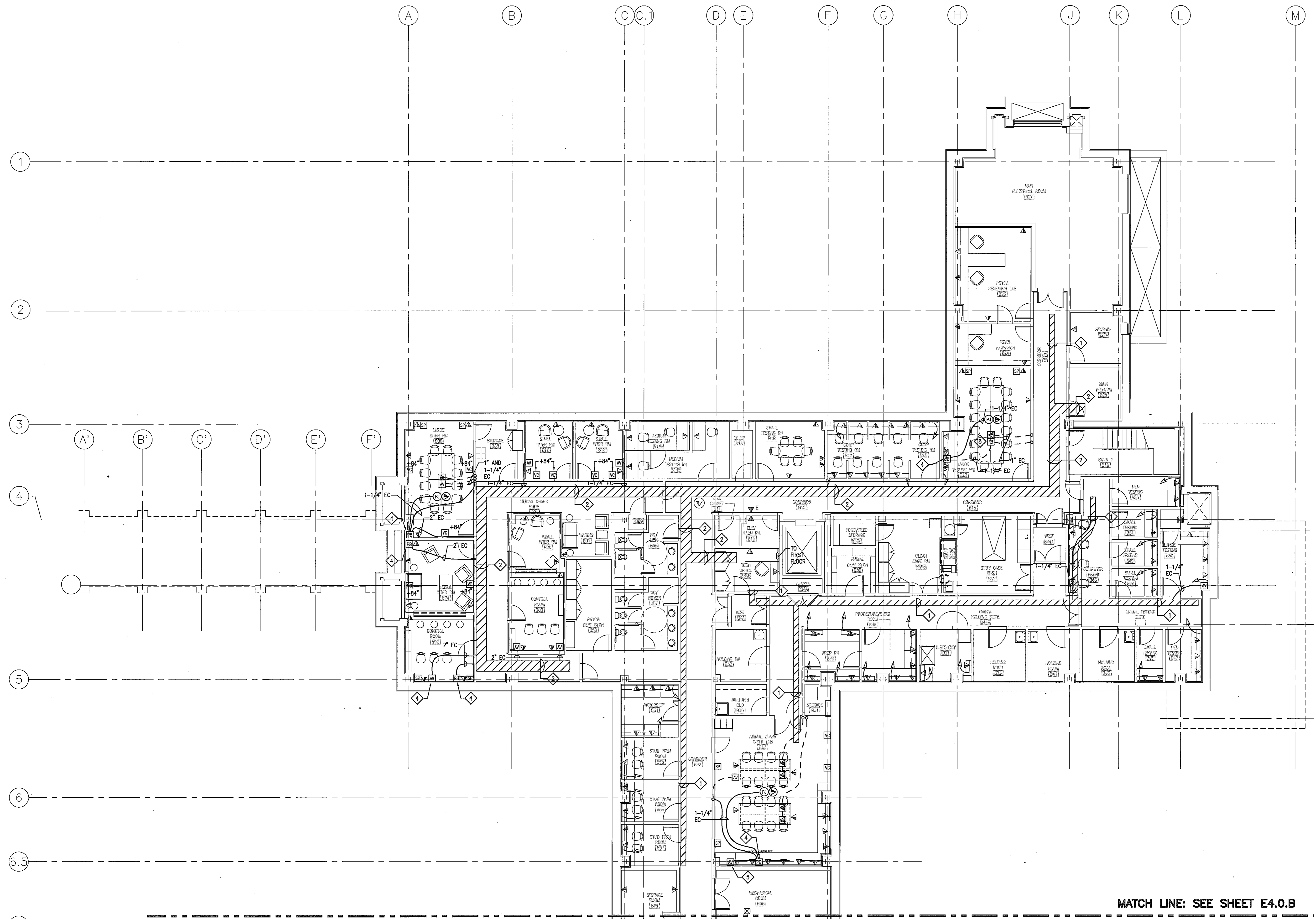
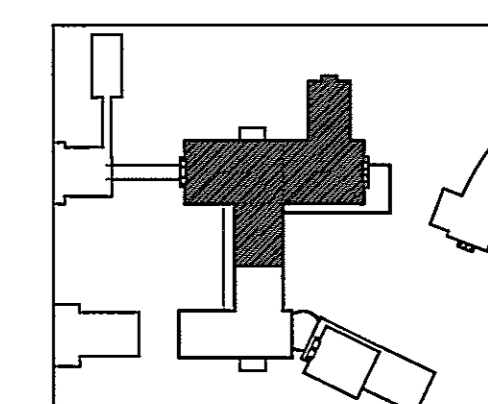
Drawing Title

**TELECOMMUNICATION PLAN
BASEMENT
NORTH WING**
1/8" = 1'-0"

Scale
J-494-020-002 25379.000
DGS Project Number SG Project Number

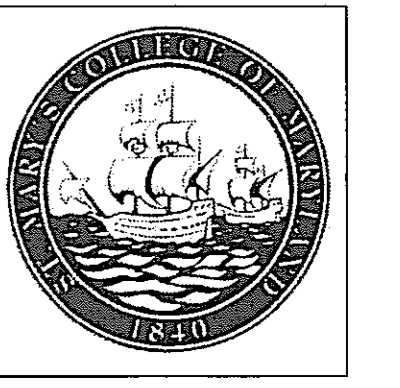
E4.0.A

Drawing Number



MATCH LINE: SEE SHEET E4.0.B

**TELECOMMUNICATION PLAN
BASEMENT FLOOR NORTH WING**
SCALE: 1/8" = 1'-0"



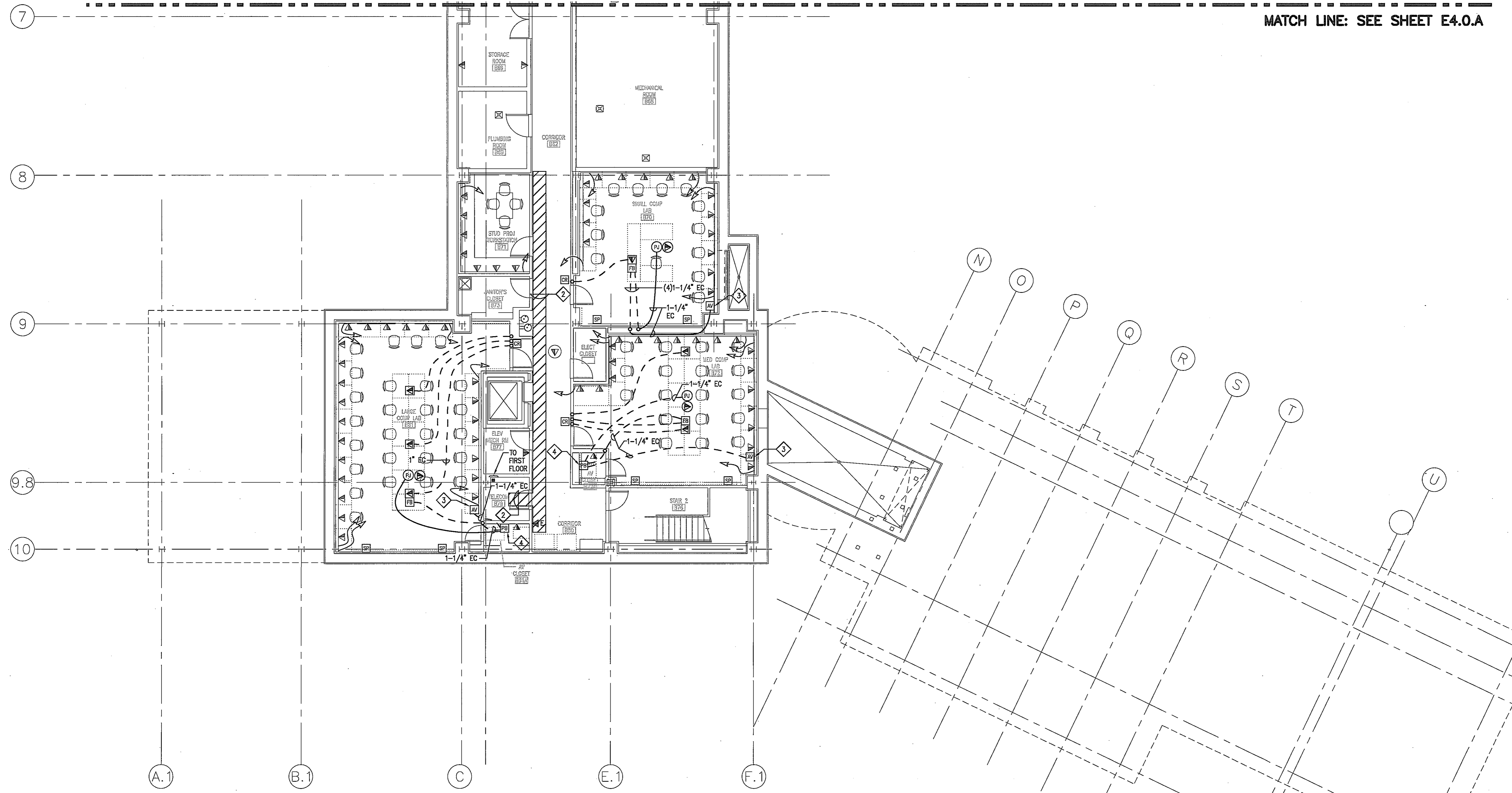
GENERAL NOTES

- A. DEVICES IN EXTERIOR WALLS REQUIRE A SHALLOW BACK BOX.

DRAWING NOTES

- 1 DATA OUTLET IN AV FLOOR BOX.
- 2 24" x 4" LADDER STYLE CABLE TRAY ABOVE ACCESSIBLE CEILING.
- 3 UTILIZE DATA COMPARTMENT OF DUAL RACEWAY FOR AV CONDUIT LANDING.
- 4 6" x 6" x 8" W PULL BOX SURFACE MOUNTED. FACEPLATE PROVIDED BY AV CONTRACTOR.

MATCH LINE: SEE SHEET E4.0.A



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NAME _____
TITLE _____ DATE _____

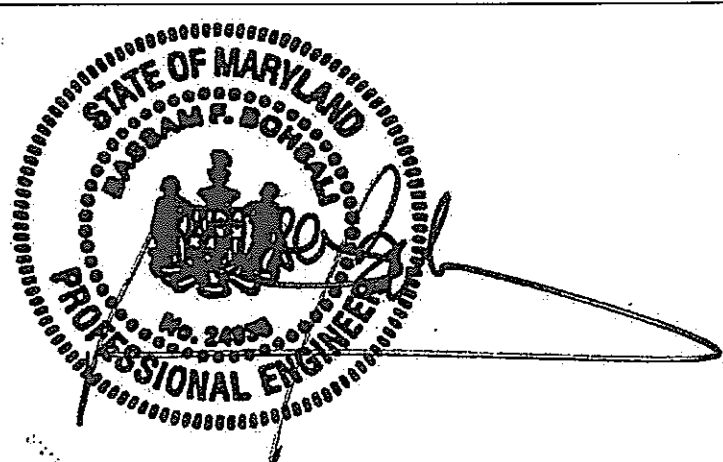
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Issued for	Rev	Date

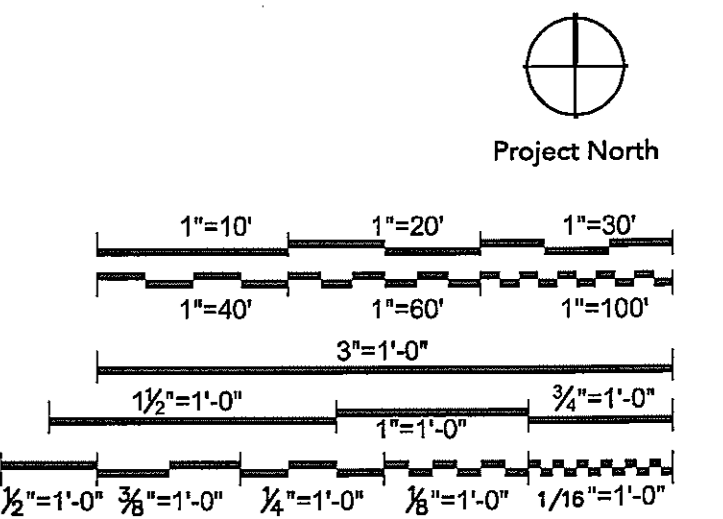
Seals and Signatures



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Graphic Scales



Drawing Title

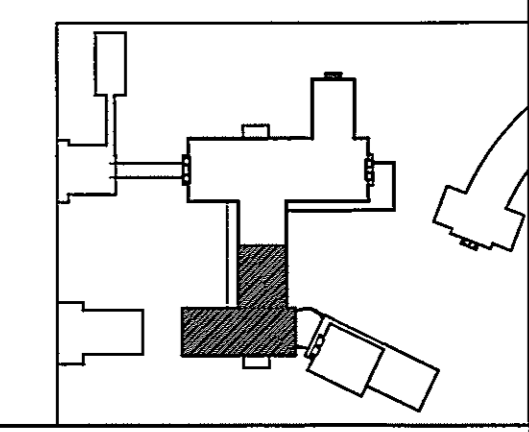
TELECOMMUNICATION PLAN
BASEMENT FLOOR
SOUTH WING
1/8" = 1'-0"

Scale
J-494-020-002 25379.000
DGS Project Number SG Project Number

E4.0.B

Drawing Number

TELECOMMUNICATION PLAN
BASEMENT FLOOR SOUTH WING
SCALE: 1/8" = 1'-0"





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GENERAL NOTES

A. DEVICES IN EXTERIOR WALLS REQUIRE A SHALLOW BACK BOX.

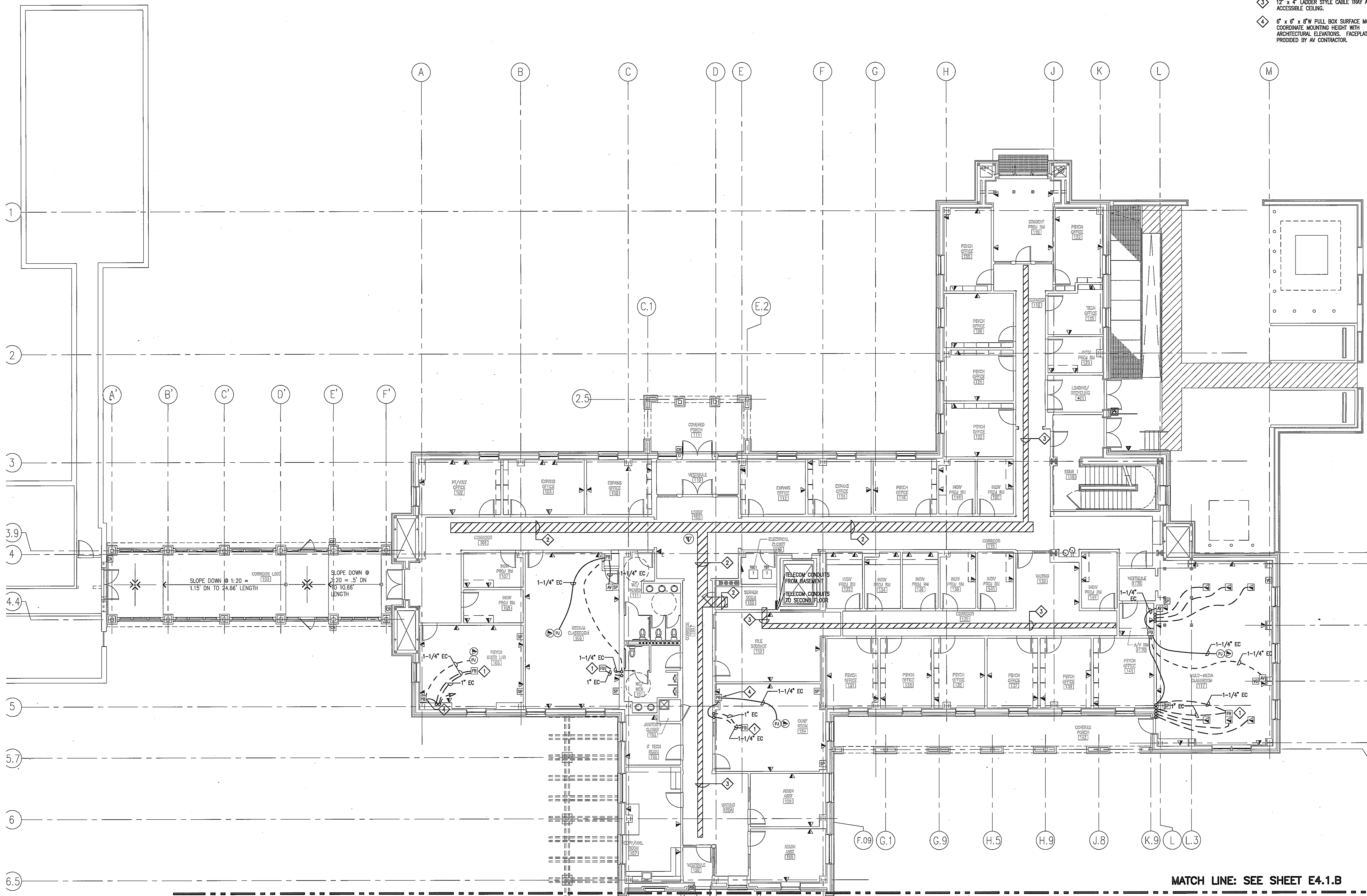
DRAWING NOTES

DATA OUTLET IN AV FLOOR BOX.

2" x 4" LADDER STYLE CABLE TRAY ABOVE ACCESSIBLE CEILING.

12" x 4" LADDER STYLE CABLE TRAY ABOVE ACCESSIBLE CEILING.

6" x 6" x 6" W PULL BOX SURFACE MOUNTED. COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL ELEVATIONS. FACEPLATE PROVIDED BY AV CONTRACTOR.



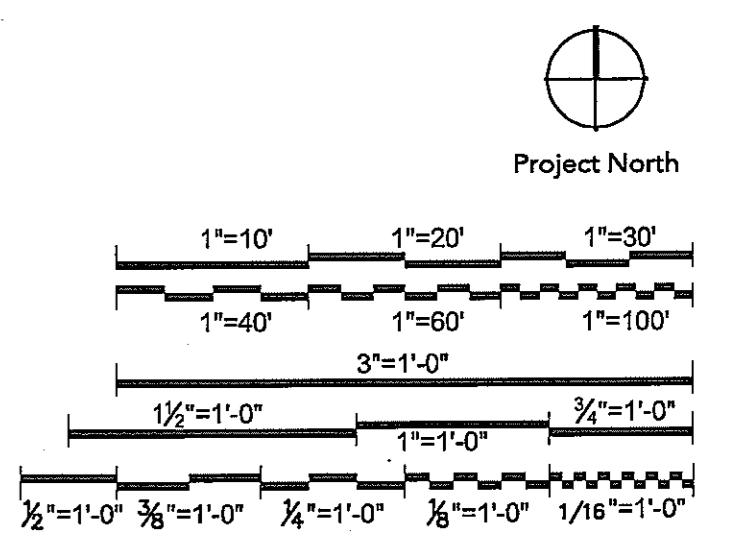
TELECOMMUNICATION PLAN
FIRST FLOOR NORTH WING
SCALE: 1/8" = 1'-0"

MATCH LINE: SEE SHEET E4.1.B



01/05/05

DATE



Drawing Title

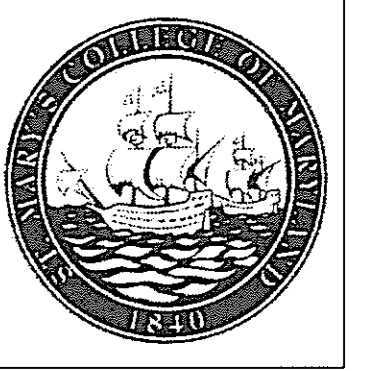
**TELECOMMUNICATION PLAN
FIRST FLOOR
NORTH WING**

1/8" = 1'-0"

Scale
J-494-020-002 25379.000
DGS Project Number SG Project Number

E4.1A

Drawing Number



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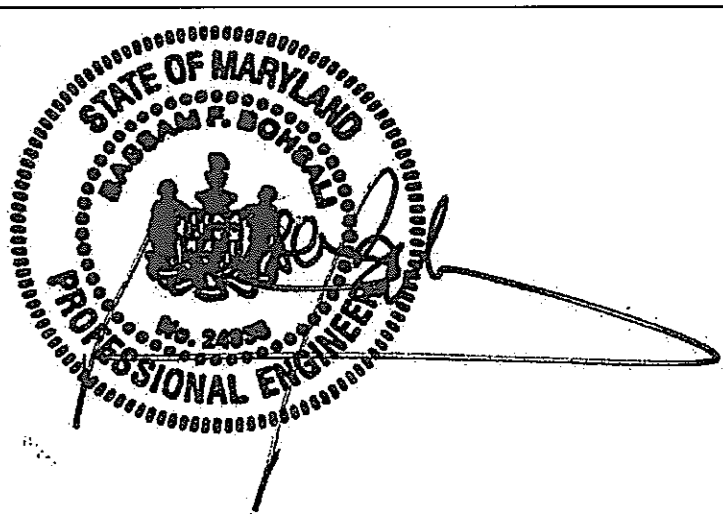
DEPT. OF GENERAL
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PROJECT MANAGER _____ DATE _____

CHIEF - PROJ. MGT. & DSGN. _____ DATE _____

Issued for	Rev	Date

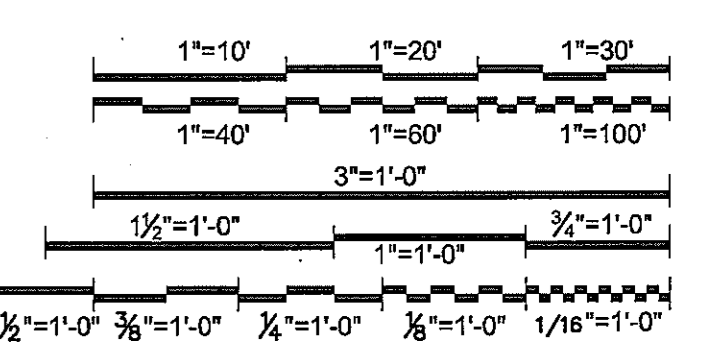
Seals and Signatures



01/05/05

Graphic Scales _____ DATE _____

Project North



Drawing Title

TELECOMMUNICATION PLAN
FIRST FLOOR
SOUTH WING
1/8" = 1'-0"

Scale
J-494-020-002 25379.000
DGS Project Number SG Project Number

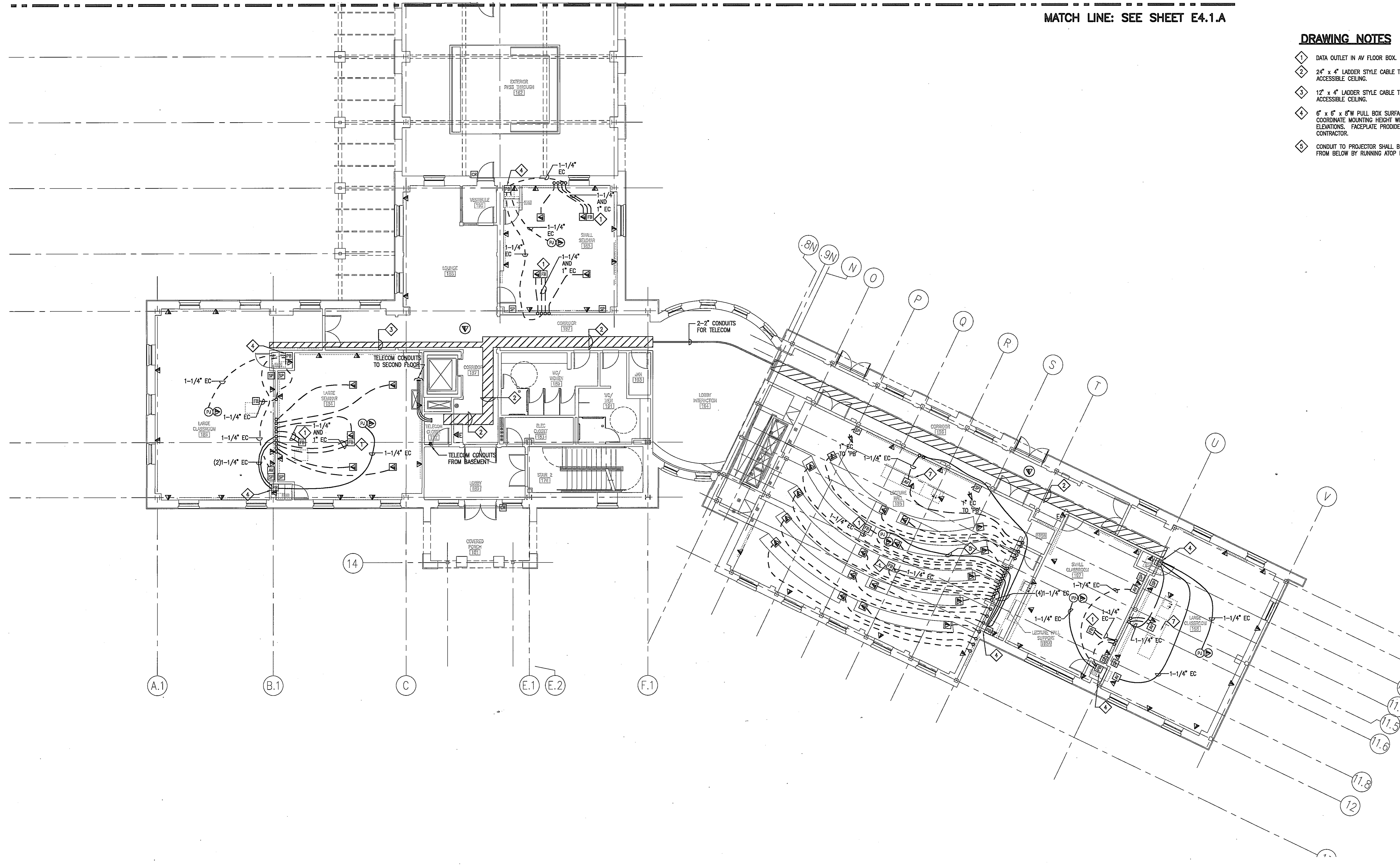
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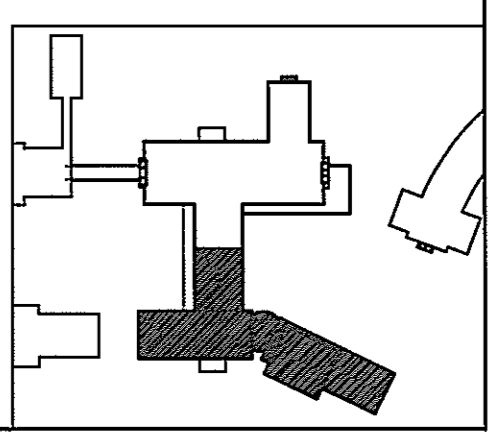
MATCH LINE: SEE SHEET E4.1.A

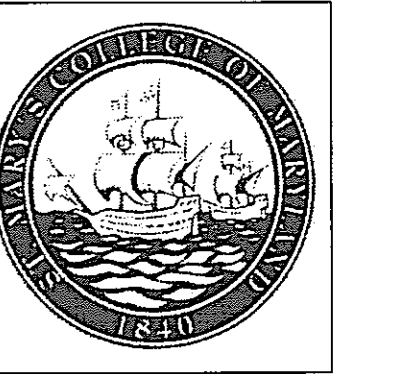
DRAWING NOTES

- 1 DATA OUTLET IN AV FLOOR BOX.
- 2 24" x 4" LADDER STYLE CABLE TRAY ABOVE ACCESSIBLE CEILING.
- 3 12" x 4" LADDER STYLE CABLE TRAY ABOVE ACCESSIBLE CEILING.
- 4 6" x 6" x 6" W PULL BOX SURFACE MOUNTED. COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL ELEVATIONS. FACEPLATE PROVIDED BY AV CONTRACTOR.
- 5 CONDUIT TO PROJECTOR SHALL BE RUN CONCEALED FROM BELOW BY RUNNING ATOP BEAM.



TELECOMMUNICATION PLAN
FIRST FLOOR SOUTH WING
SCALE: 1/8" = 1'-0"





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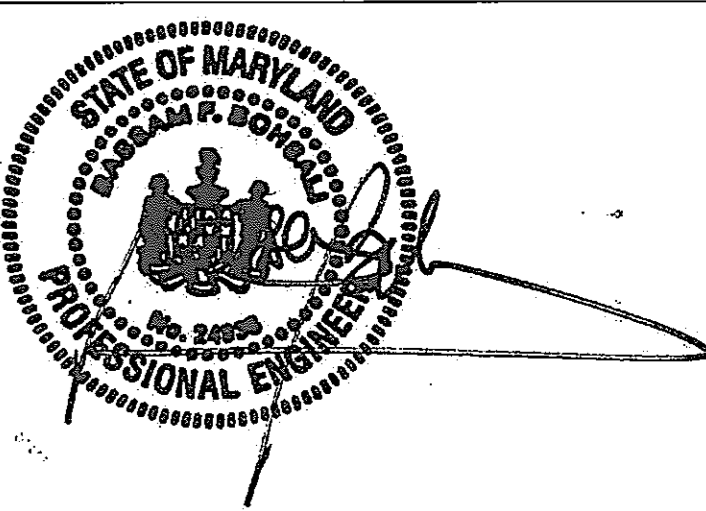
**DEPT. OF GENERAL
SERVICES APPROVAL**

PROJECT MANAGER _____ DATE _____

CHIEF - PROJ. MGT. & DSGN. _____ DATE _____

Issued for	Rev	Date

Seals and Signatures

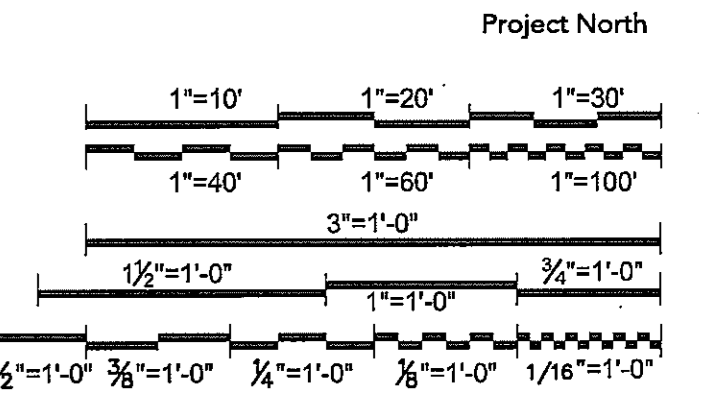


01/05/05

Graphic Scales DATE



Project North



Drawing Title
**TELECOMMUNICATION PLAN
SECOND FLOOR
NORTH WING**

1/8"=1'-0"

Scale
J-494-020-002 25379.000
DGS Project Number SG Project Number

E4.2.A

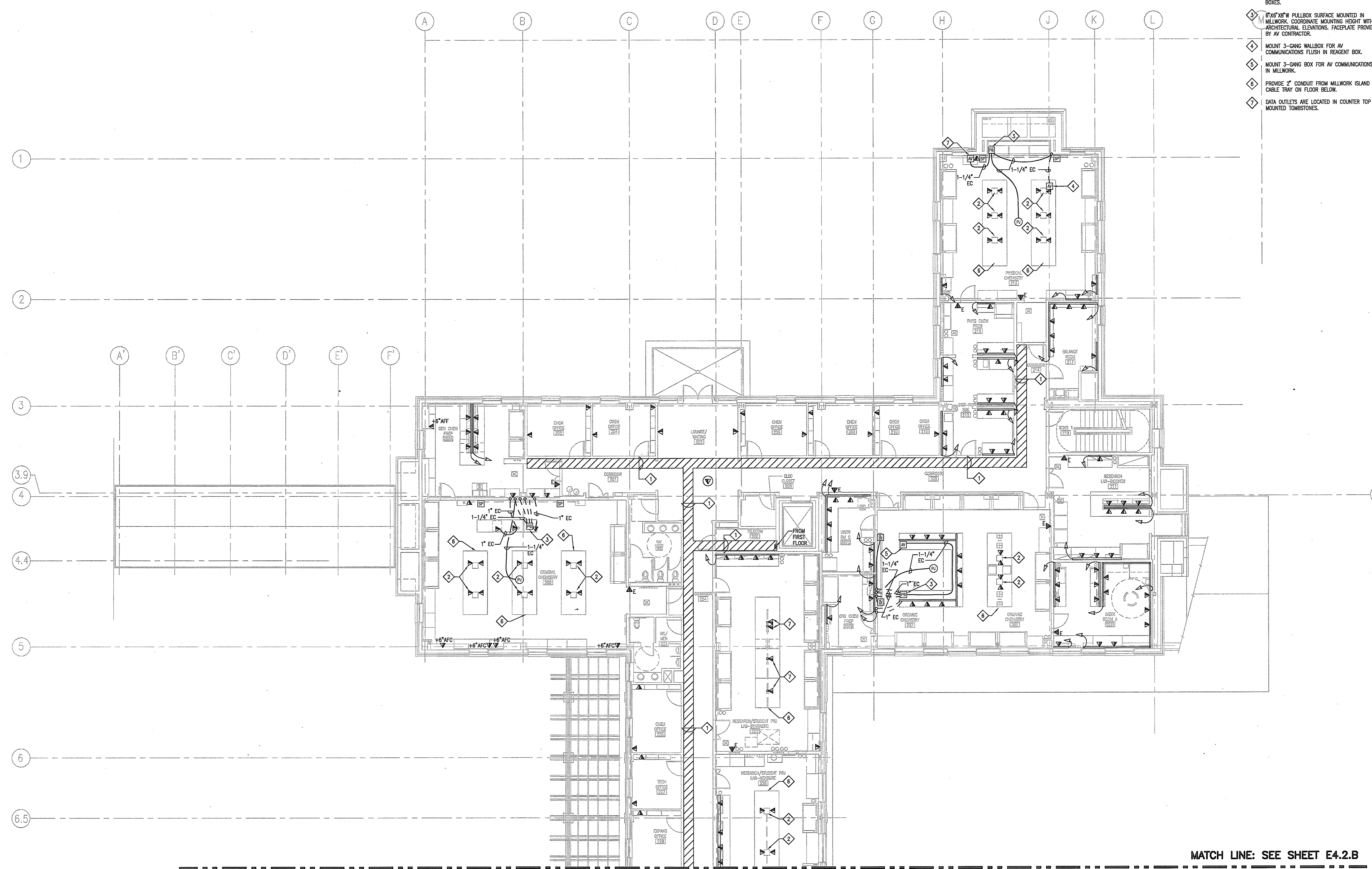
Drawing Number

GENERAL NOTES

- A. DEVICES IN EXTERIOR WALLS REQUIRE A SHALLOW BACK BOX.

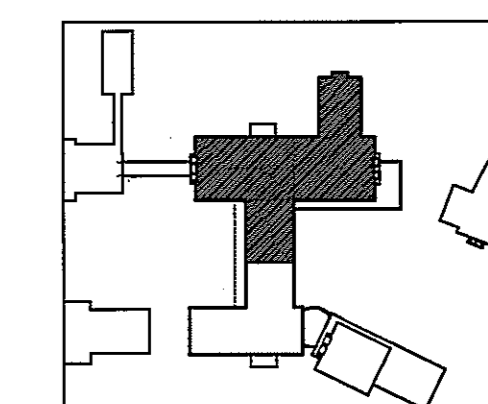
DRAWING NOTES

- 1. 24" x 4" LADDER STYLE CABLE TRAY ABOVE ACCESSIBLE CEILING.
- 2. DATA OUTLETS ARE LOCATED IN ARCHITECTURAL REAGENT BOX. SEE ARCHITECTURAL ELEVATIONS FOR EXACT LOCATIONS AND LAYOUT OF REAGENT BOXES.
- 3. 6"x6"x8" W PULLBOX SURFACE MOUNTED IN MILLWORK. COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL ELEVATIONS. FACEPLATE PROVIDED BY AV CONTRACTOR.
- 4. MOUNT 3-GANG WALLBOX FOR AV COMMUNICATIONS FLUSH IN REAGENT BOX.
- 5. MOUNT 3-GANG BOX FOR AV COMMUNICATIONS IN MILLWORK.
- 6. PROVIDE 2" CONDUIT FROM MILLWORK ISLAND TO CABLE TRAY ON FLOOR BELOW.
- 7. DATA OUTLETS ARE LOCATED IN COUNTER TOP MOUNTED TOMBSTONES.

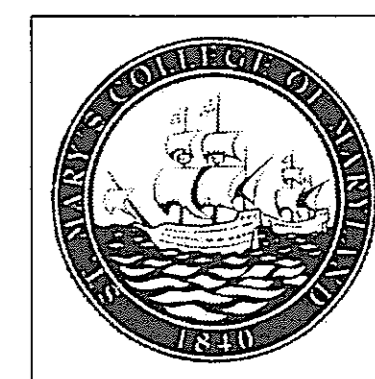


MATCH LINE: SEE SHEET E4.2.B

**TELECOMMUNICATION PLAN
SECOND FLOOR NORTH WING**
SCALE: 1/8"=1'-0"



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SERVICES APPROVAL

PROJECT MANAGER _____ DATE _____

CHIEF - PROJ. MGT. & DSGN. _____ DATE _____

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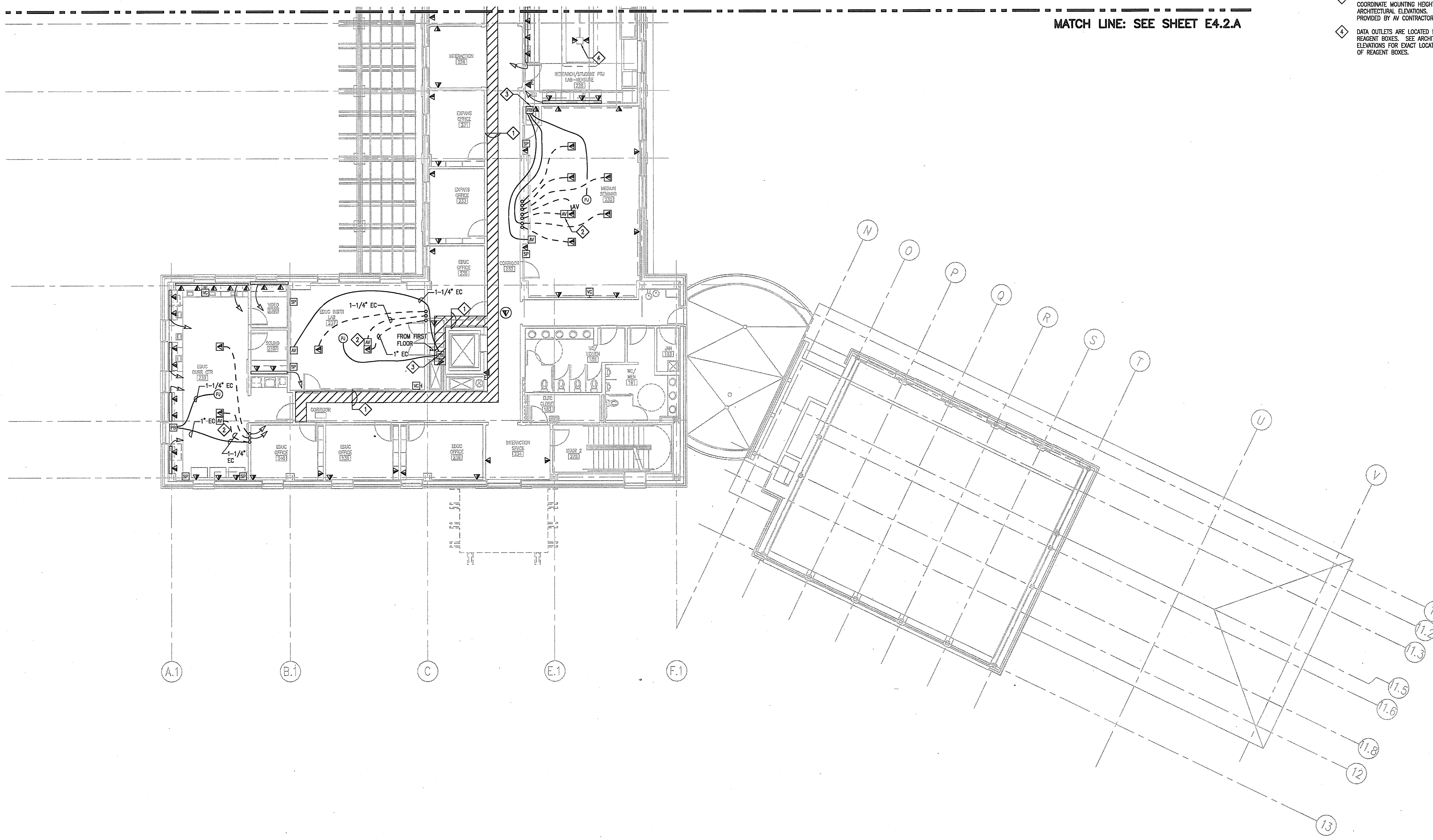
GENERAL NOTES

- A. DEVICES IN EXTERIOR WALLS REQUIRE A SHALLOW BACK BOX.

DRAWING NOTES

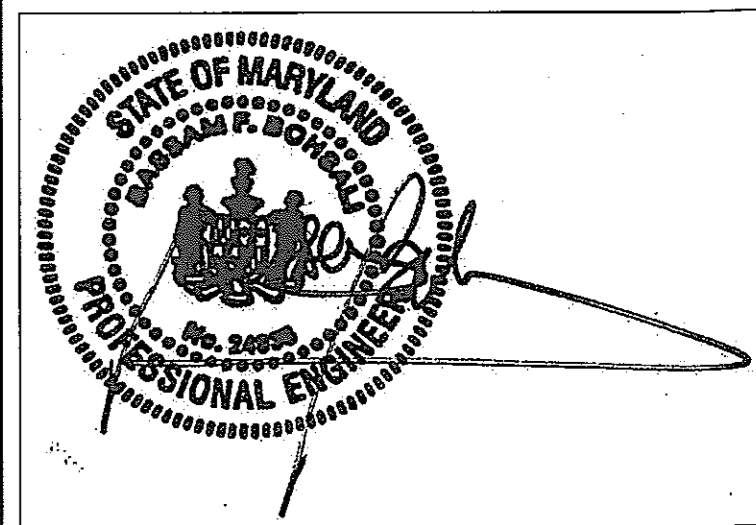
- 1. 24" x 4" LADDER STYLE CABLE TRAY ABOVE ACCESSIBLE CEILING.
- 2. AV FLOOR BOX. FOR SPECIFICATION SEE POWER DRAWINGS, E3 SERIES.
- 3. 6"x6"x8" W PULLBOX SURFACE MOUNTED. COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL ELEVATIONS. FACE PLATE PROVIDED BY AV CONTRACTOR.
- 4. DATA OUTLETS ARE LOCATED IN ARCHITECTURAL REAGENT BOXES. SEE ARCHITECTURAL ELEVATIONS FOR EXACT LOCATIONS AND LAYOUT OF REAGENT BOXES.

MATCH LINE: SEE SHEET E4.2.A



TELECOMMUNICATION PLAN
SECOND FLOOR SOUTH WING
SCALE: 1/8" = 1'-0"

Seals and Signatures

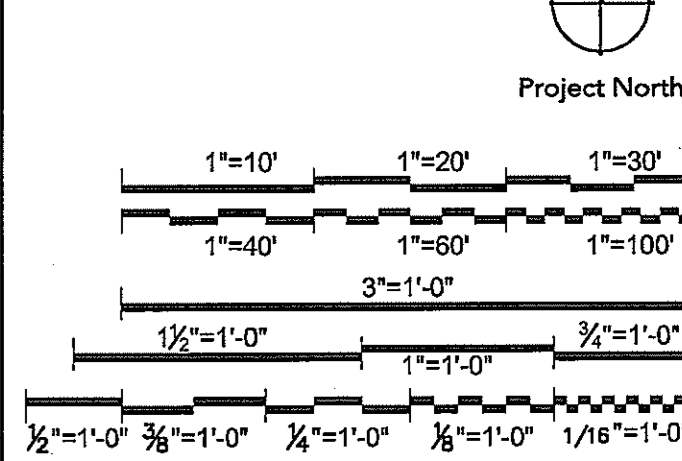


01/05/05

DATE

Graphic Scales

Project North



Drawing Title

TELECOMMUNICATION PLAN
SECOND FLOOR
SOUTH WING

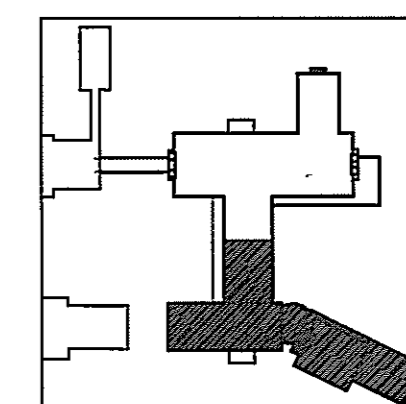
1/8" = 1'-0"

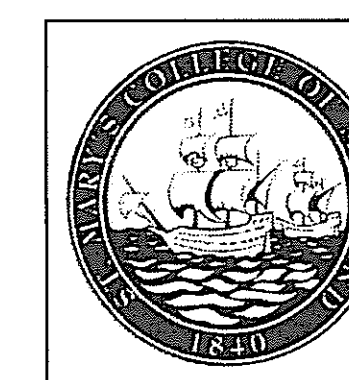
J-494-020-002 25379.000

DGS Project Number SG Project Number

E4.2.B

Drawing Number





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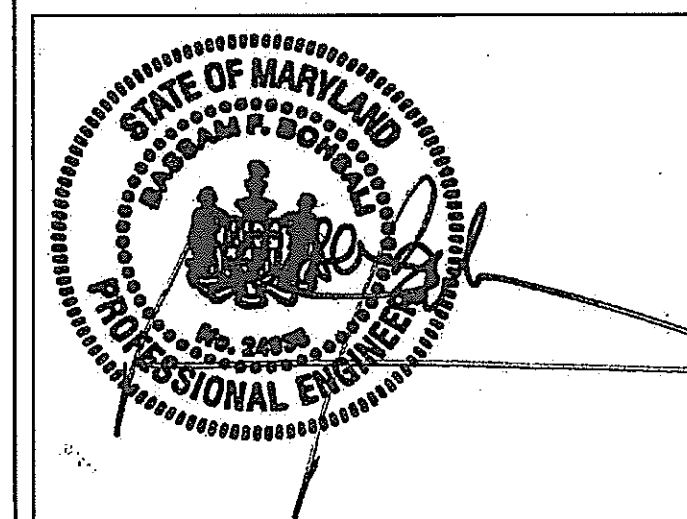
DEPT. OF GENERAL SERVICES APPROVAL

PROJECT MANAGER _____ DATE _____

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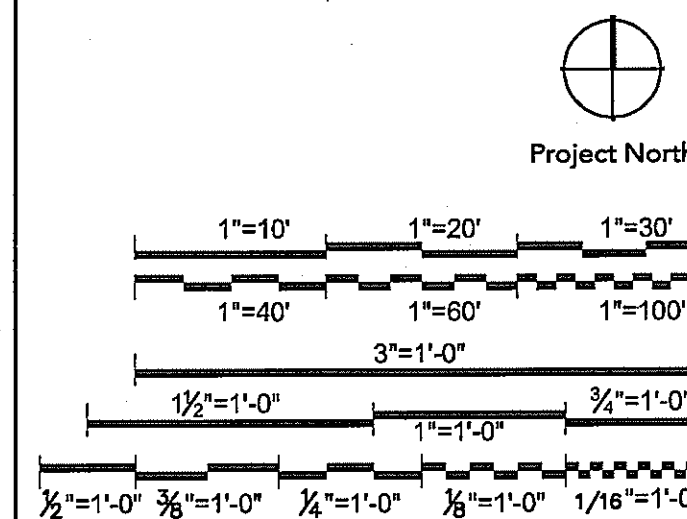
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Seals and Signatures



DATE 01/05/05

Graphic Scales



Drawing Title

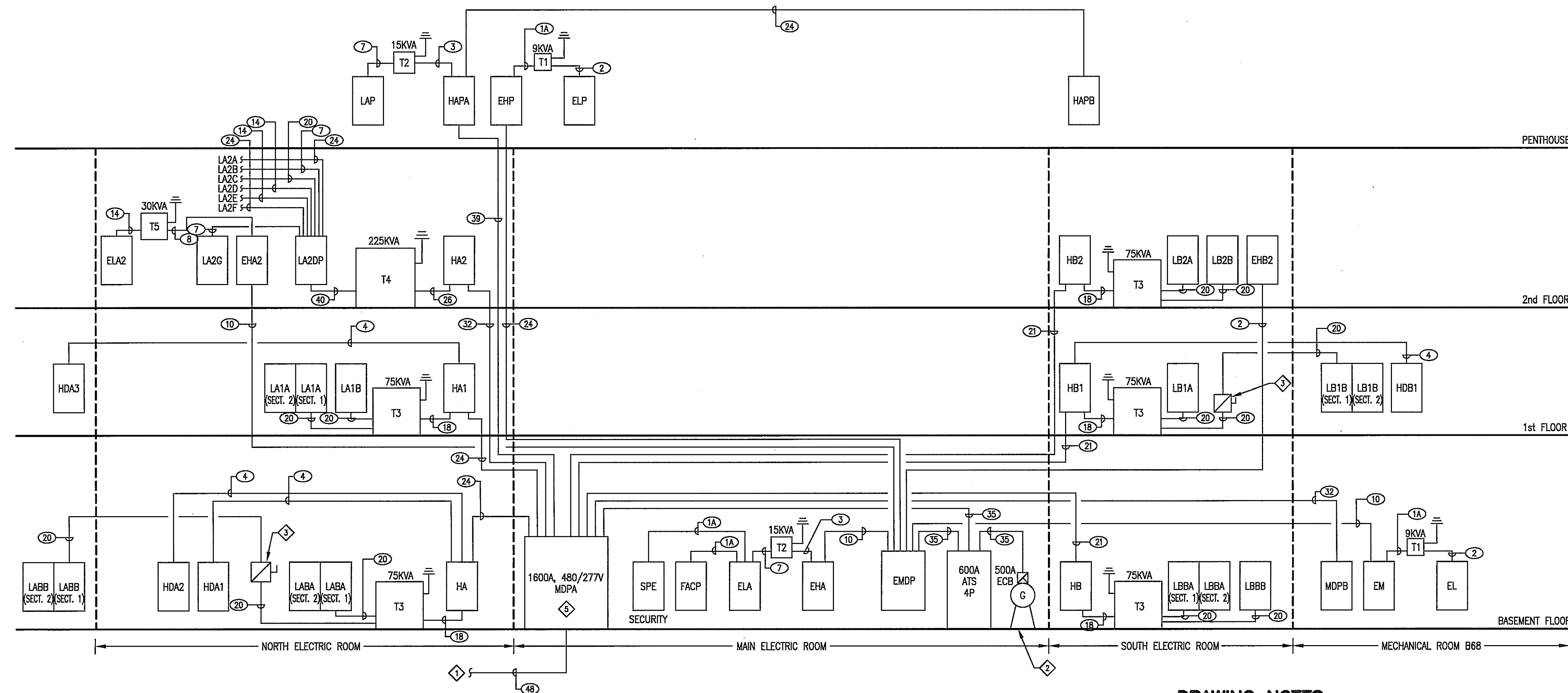
PRIMARY POWER SERVICE ONE LINE DIAGRAM AND RISER DIAGRAM

NONE

Scale J-494-020-002 25379.000
DGS Project Number SG Project Number

E5.1

Drawing Number



POWER FEEDER DISTRIBUTION RISER DIAGRAM
NOT TO SCALE

DRAWING NOTES

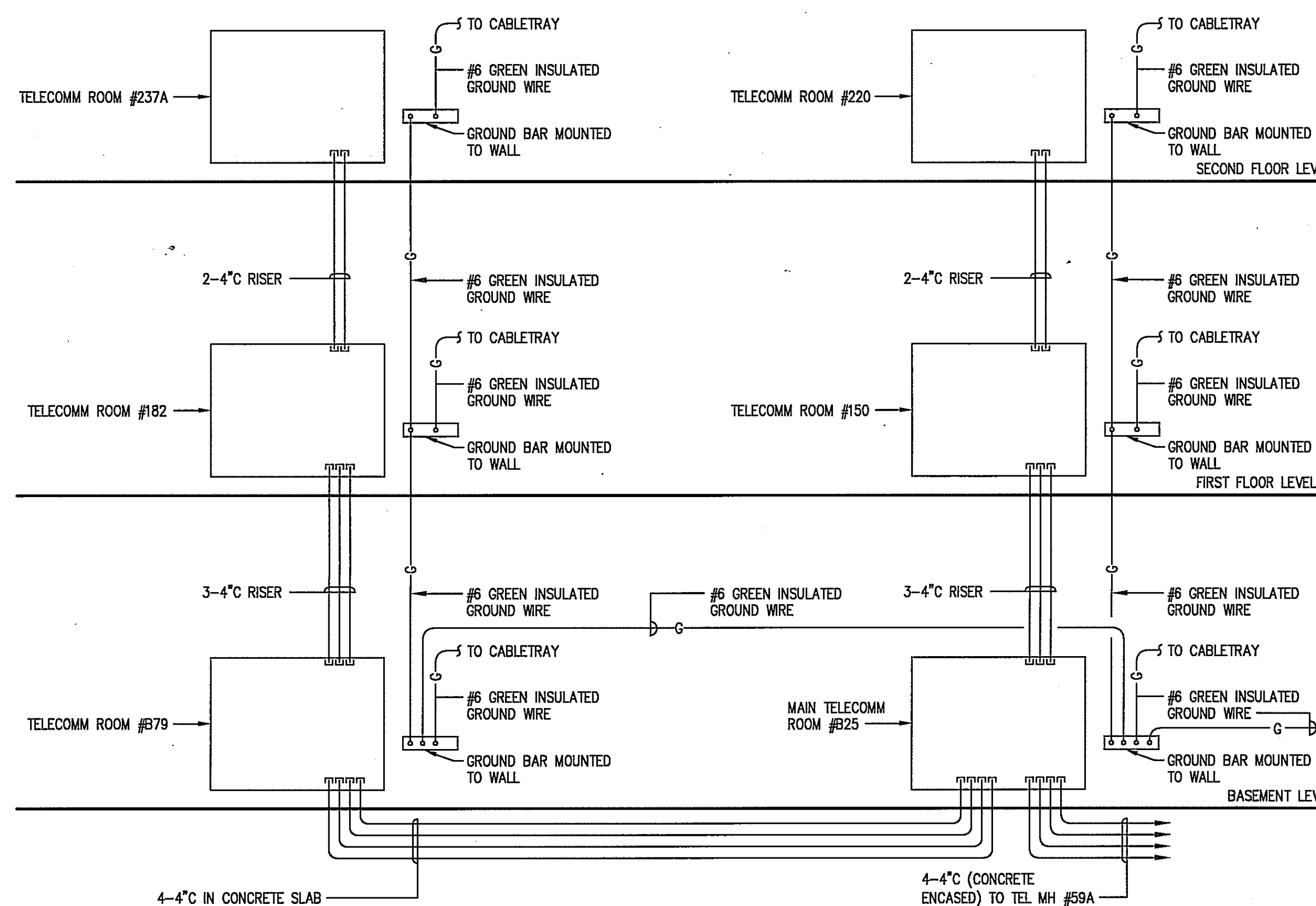
- 1 INCOMING SERVICE FROM 1000KVA PAD MOUNTED TRANSFORMER, SEE DRAWING ET.1 FOR CONTINUATION.
- 2 275KW, 480/277 VOLT, 3 PHASE, 4 WIRE DIESEL GENERATOR WITH 400 AMP UNIT MOUNTED CIRCUIT BREAKER.
- 3 3 POLE, 200 AMP DISCONNECT SWITCH WITH 125 AMP FUSES.
- 4 PROVIDE GROUND FAULT PROTECTION ON SERVICE DISCONNECT PER 230-95 OF THE 1999 NEC.
- 5 PROVIDE SURGE SUPPRESSION DEVICE ON MAIN INTEGRAL TO SERVICE ENTRANCE SWITCHBOARD, MDPA.

SWITCHBOARD SCHEDULE							
SWITCHBOARD MDPA	EQUIP. GND. BUS: <input type="checkbox"/>		VOLTAGE: 480/277 VOLT, 3PH, 4W		MAIN BREAKER: 1600A		
LOCATION: MAIN ELECTRIC ROOM	ISOLATED GND BUS: <input type="checkbox"/>		GF: <input type="checkbox"/>		BUS RATING: 1600A		
MOUNTING: FREE STANDING	NEUTRAL BUR 100%		A.I.C.: 42K				
SERVICE ENTRANCE: <input type="checkbox"/>							
LOAD DESCRIPTION	BKR. AMPS	BKR. POLE	NO.	CONNECTED LOAD KVA	DEMAND FACTOR	DEMAND LOAD KVA	FEEDER DESIGNATION
SPARE	150	3	A1				
PANEL HB1	150	3	A2	87.5	0.90	78.8	
(SPACE FOR 225A)	-	3	A3				
(SPACE FOR 225A)	-	3	A4				
PANEL HA1	225	3	A5	95.8	0.90	86.2	
PANEL HA2	400	3	A6	169.1	0.90	152.2	
(SPACE FOR 400A)	-	3	A7				
PANEL HAPA	600	3	A8	311.2	0.80	249.0	
PANEL HB2	150	3	B1	83.6	0.90	75.3	
PANEL HB	150	3	B2	83.3	0.90	74.9	
(SPACE FOR 225A)	-	3	B3				
(SPACE FOR 225A)	-	3	B4				
PANEL HA	225	3	B4	127.2	0.90	114.5	
PANEL MDPB	400	3	B6	178.8	0.80	143.0	
SPARE	150	3	B7				
AUTOMATIC TRANSFER SWITCH	400	3	B8	243.6	0.95	231.4	
TOTAL KVA				1,380		1,205	
TOTAL 3 PH AMPS				1,661		1,450	

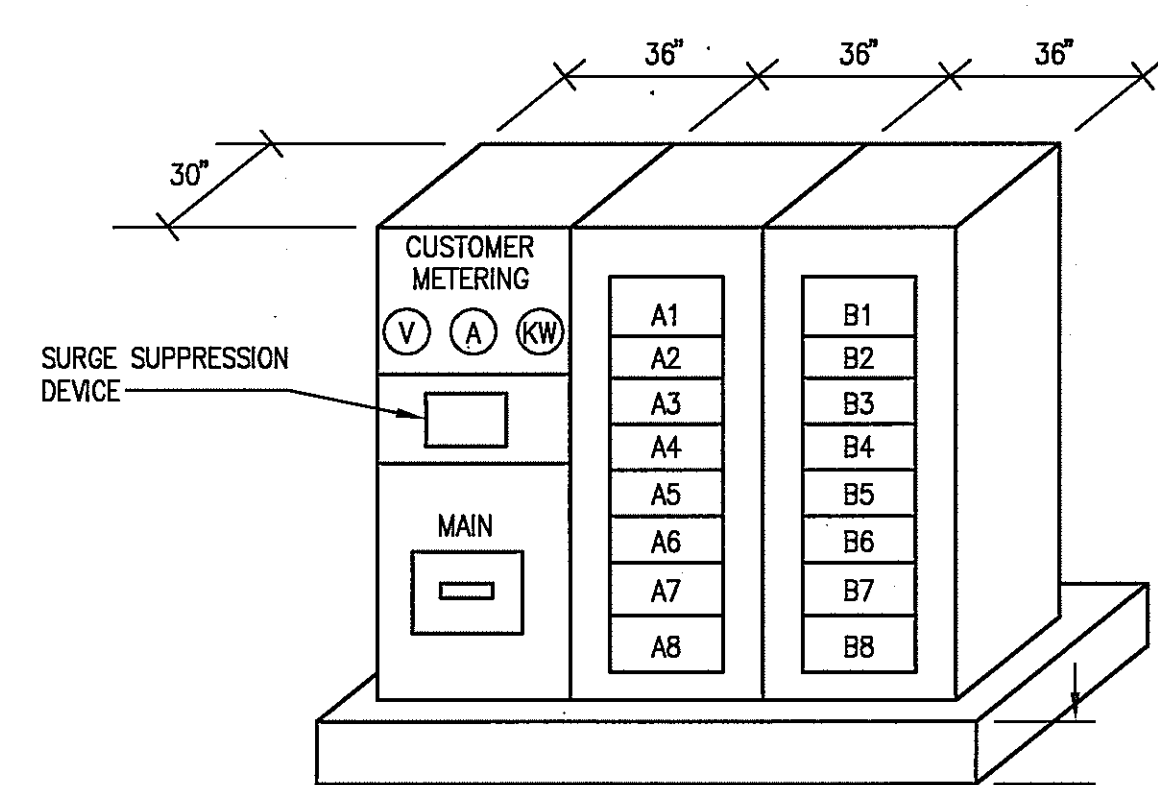
TRANSFORMER SCHEDULE						
NO.	KVA	PRIMARY		SECONDARY		REMARKS
		VOLTAGE	VOLTAGE	PH.	W.	
T-1	9	480V	208Y/120V	3	4	DRY TYPE
T-2	15	480V	208Y/120V	3	4	DRY TYPE
T-3	75	480V	208Y/120V	3	4	DRY TYPE
T-4	150	480V	208Y/120V	3	4	DRY TYPE
T-5	30	480V	208Y/120V	3	4	DRY TYPE

NOTES

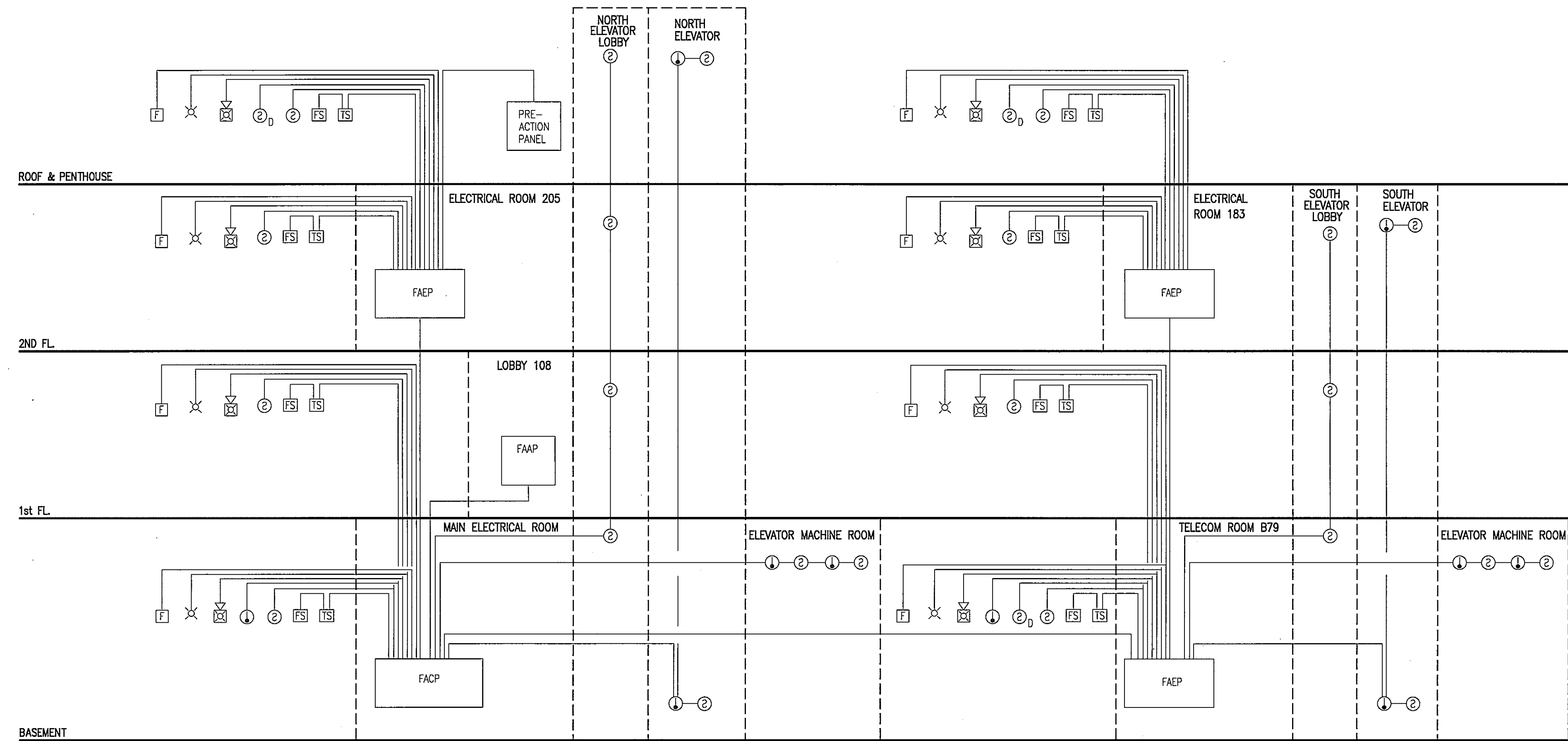
A. FEEDER SCHEDULE IS BASED ON 75 DEGREES C. COPPER CONDUCTORS. CONDUIT FILL CAPACITY IS BASED ON 1999 NEC TABLE C1. CONDUCTOR SIZES ARE BASED ON 1999 NEC TABLE 310-16. GROUND CONDUCTOR SIZES ARE BASED ON 1999 NEC TABLE 250-122.



TELECOMMUNICATION RISER DIAGRAM
NOT TO SCALE



SWITCHBOARD ELEVATION
NOT TO SCALE

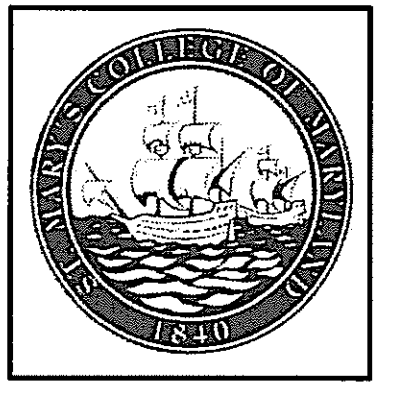


① FIRE ALARM RISER
SCALE: NOT TO SCALE

GENERAL FIRE ALARM NOTES

- A. ALL FIRE ALARM AND DETECTION SYSTEMS SHALL CONFORM TO THE 2000 IBC AND NFPA CODES AND LOCAL CODES HAVING JURISDICTION.
- B. FIRE ALARM SYSTEM SHALL BE PYROTRONICS MXL, SOLID-STATE, MULTIPLEX, ADDRESSABLE TYPE.
- C. FIRE ALARM RISER DIAGRAM IS DIAGRAMMATIC, SEE FLOOR PLANS FOR LOCATION AND QUANTITY OF FIRE ALARM DEVICES INCLUDING DUCT SMOKE DETECTORS.
- D. COORDINATE LOCATION AND QUANTITY OF FLOW AND TAMPER SWITCHES WITH SPRINKLER SYSTEM.
- E. ELEVATOR CONTROLLER SHALL RECALL ELEVATORS UPON ACTIVATION OF ELEVATOR SMOKE DETECTOR AND ACTIVATE ELEVATOR SHUNT TRIP CIRCUIT BREAKER UPON ACTIVATION OF ELEVATOR HEAT DETECTORS.
- F. ALL FIRE ALARM SYSTEM WIRING SHALL BE IN MIN. 3/4" EMT CONDUIT, UCON.
- G. PROVIDE DPDT AUXILIARY CONTACTS IN FIRE ALARM CONTROL PANEL FOR SECURITY SYSTEM INTERFACE WITH FIRE ALARM SYSTEM.

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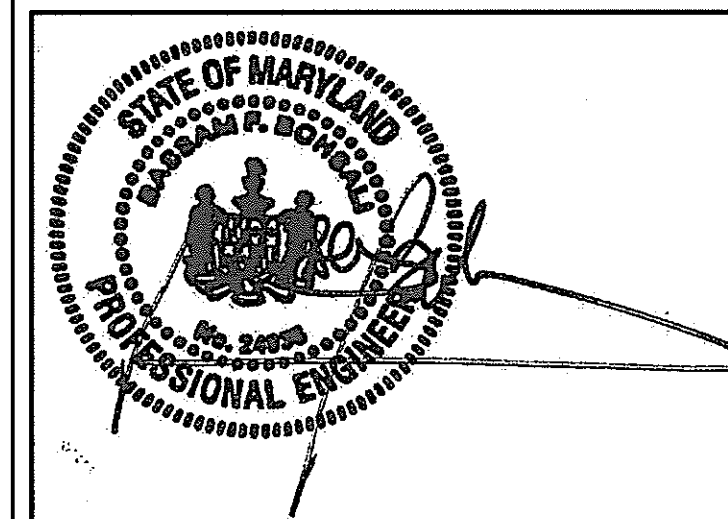
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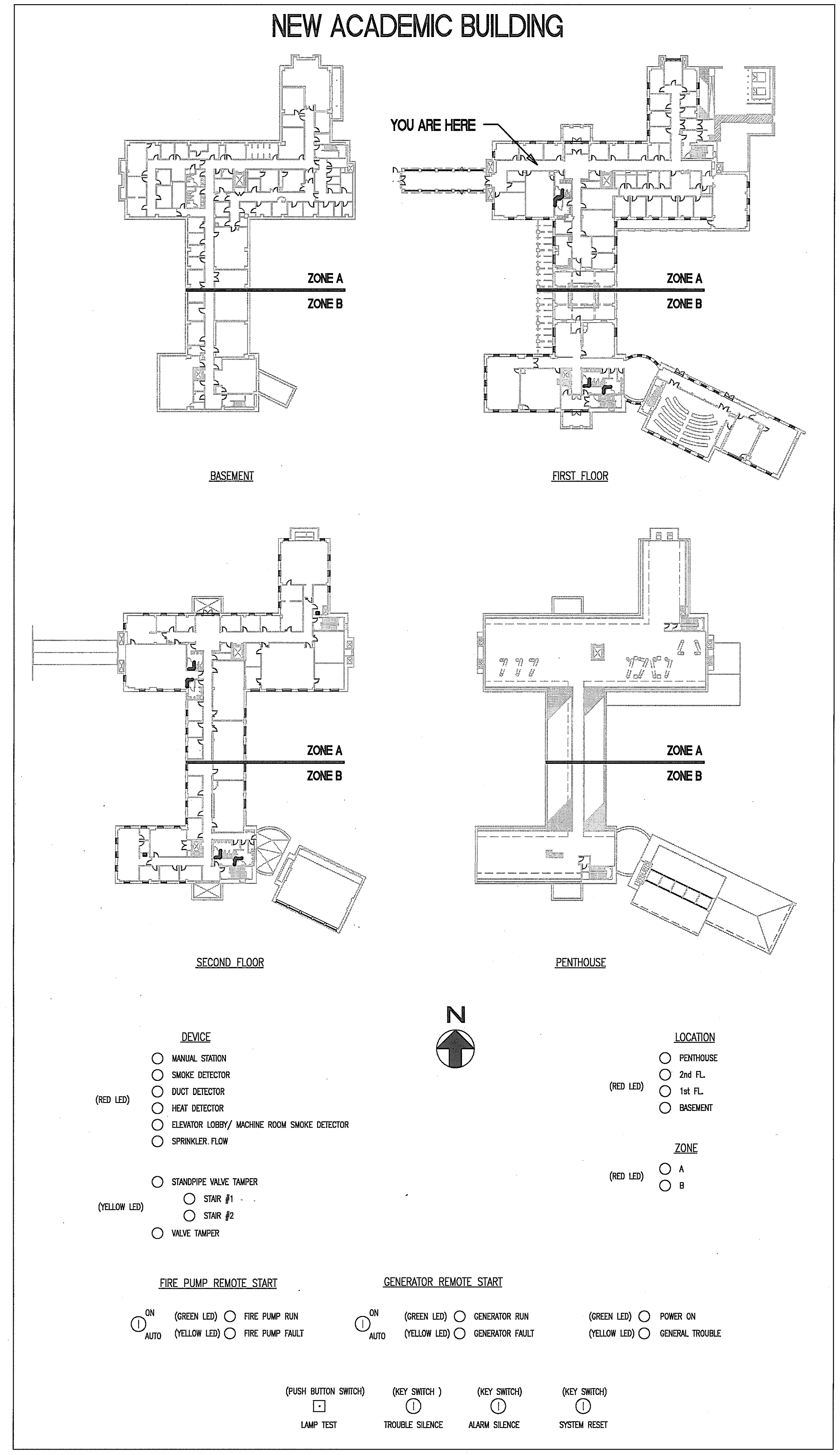
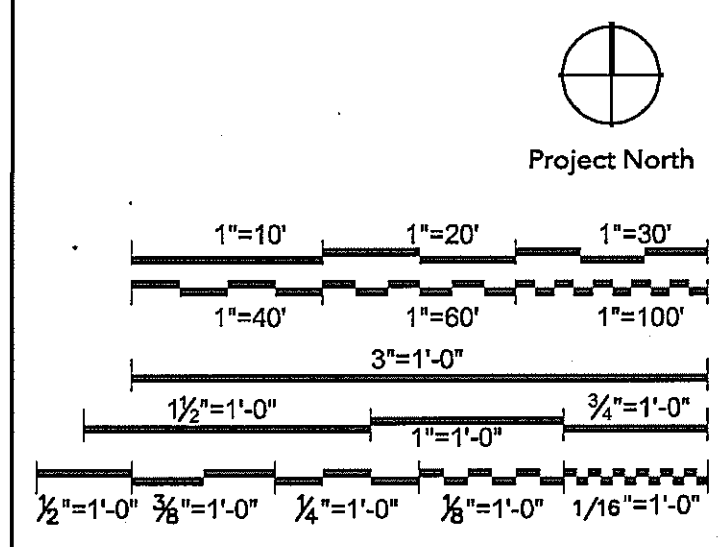
Issued for	Rev	Date

Seals and Signatures

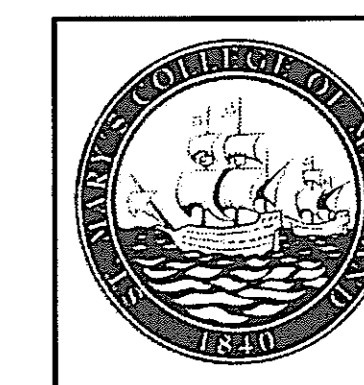


01/05/05

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GRAPHIC FIRE ALARM ANNUNCIATION PANEL DETAIL
NOT TO SCALE



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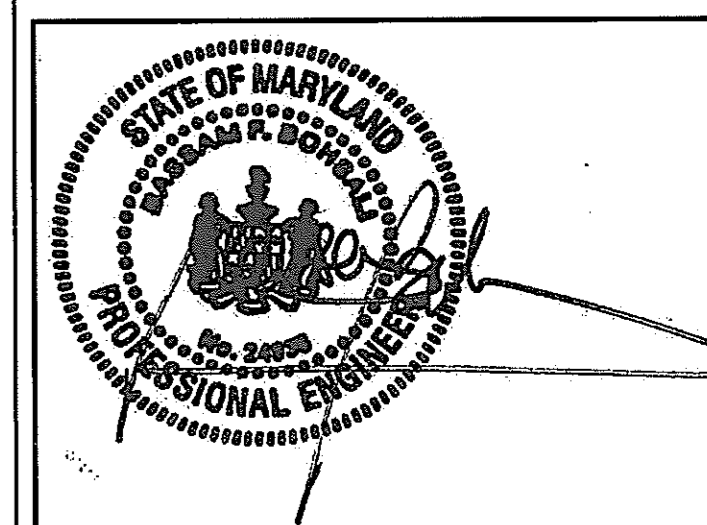
PROJECT MANAGER _____ DATE _____

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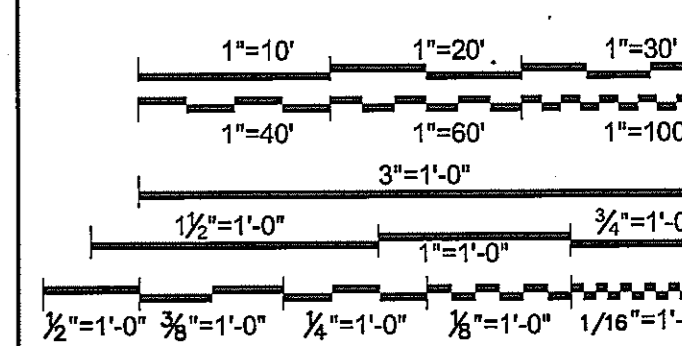


01/05/05

Graphic Scales _____ DATE _____



Project North



Drawing Title

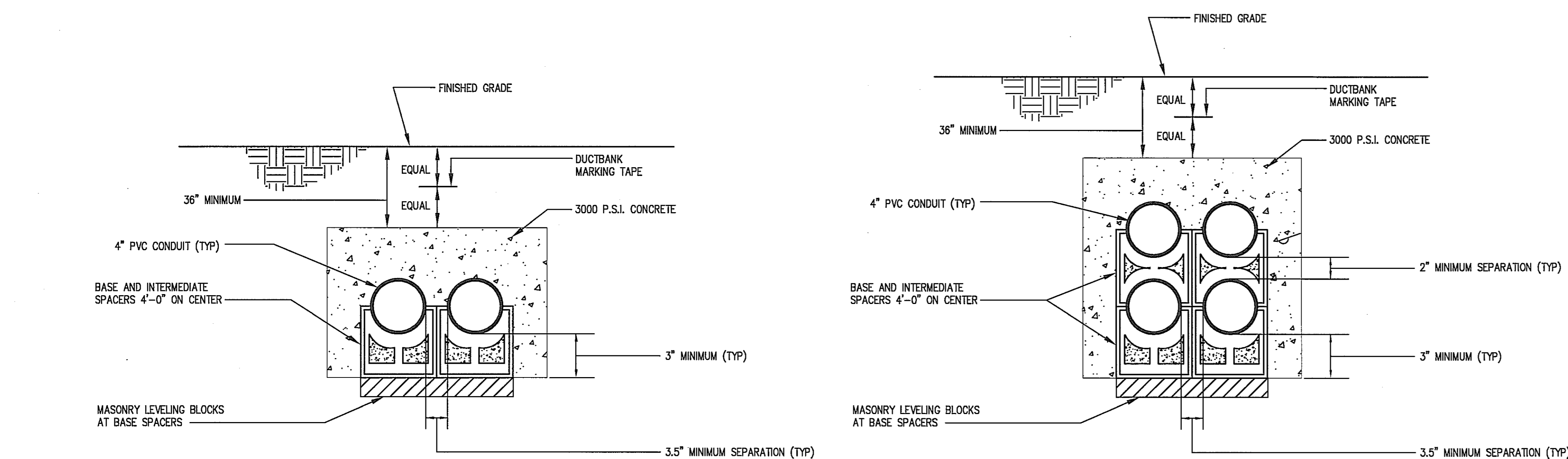
ELECTRICAL DETAILS

NOT TO SCALE

Scale
J-494-020-002 25379.000
DGS Project Number SG Project Number

E6.1

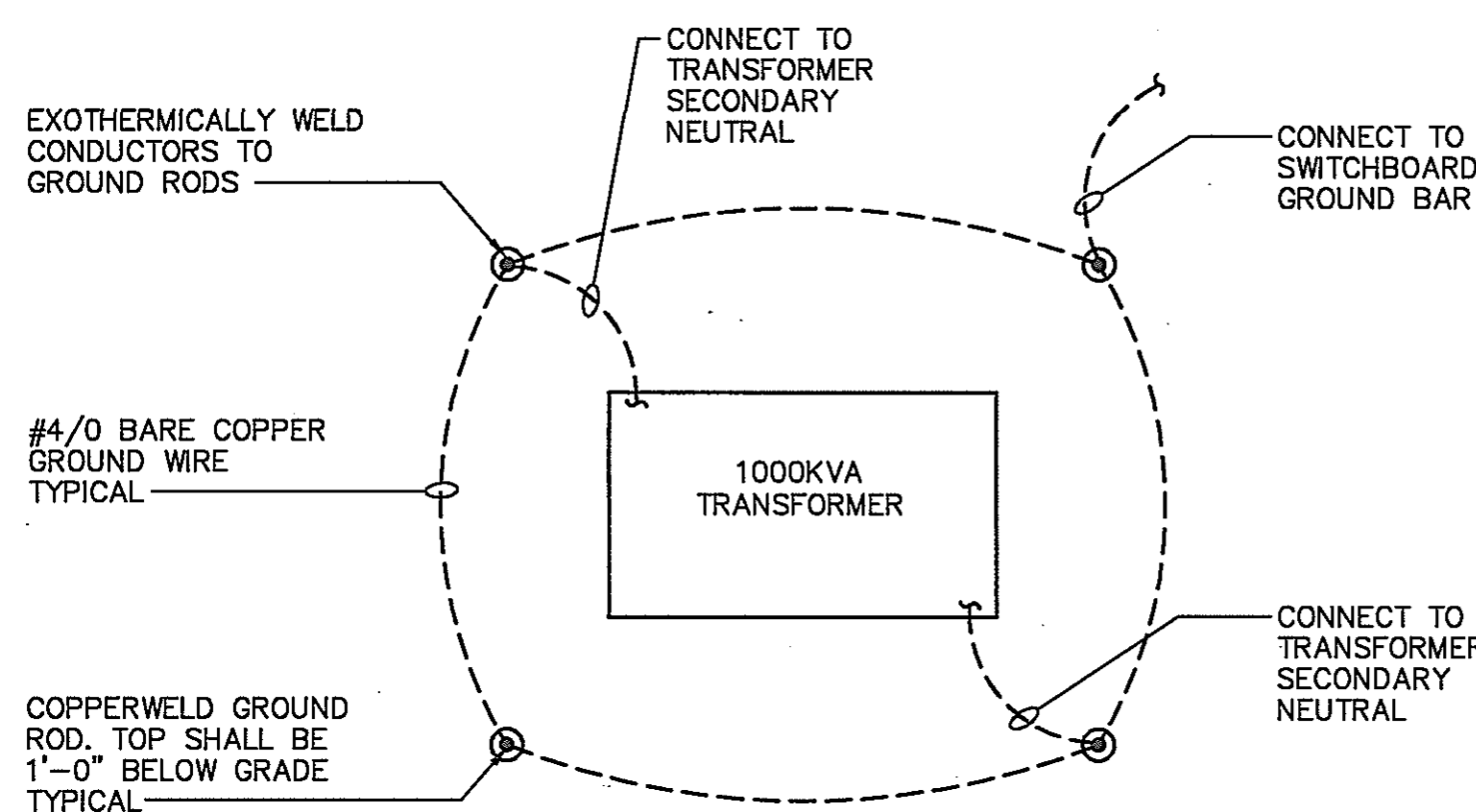
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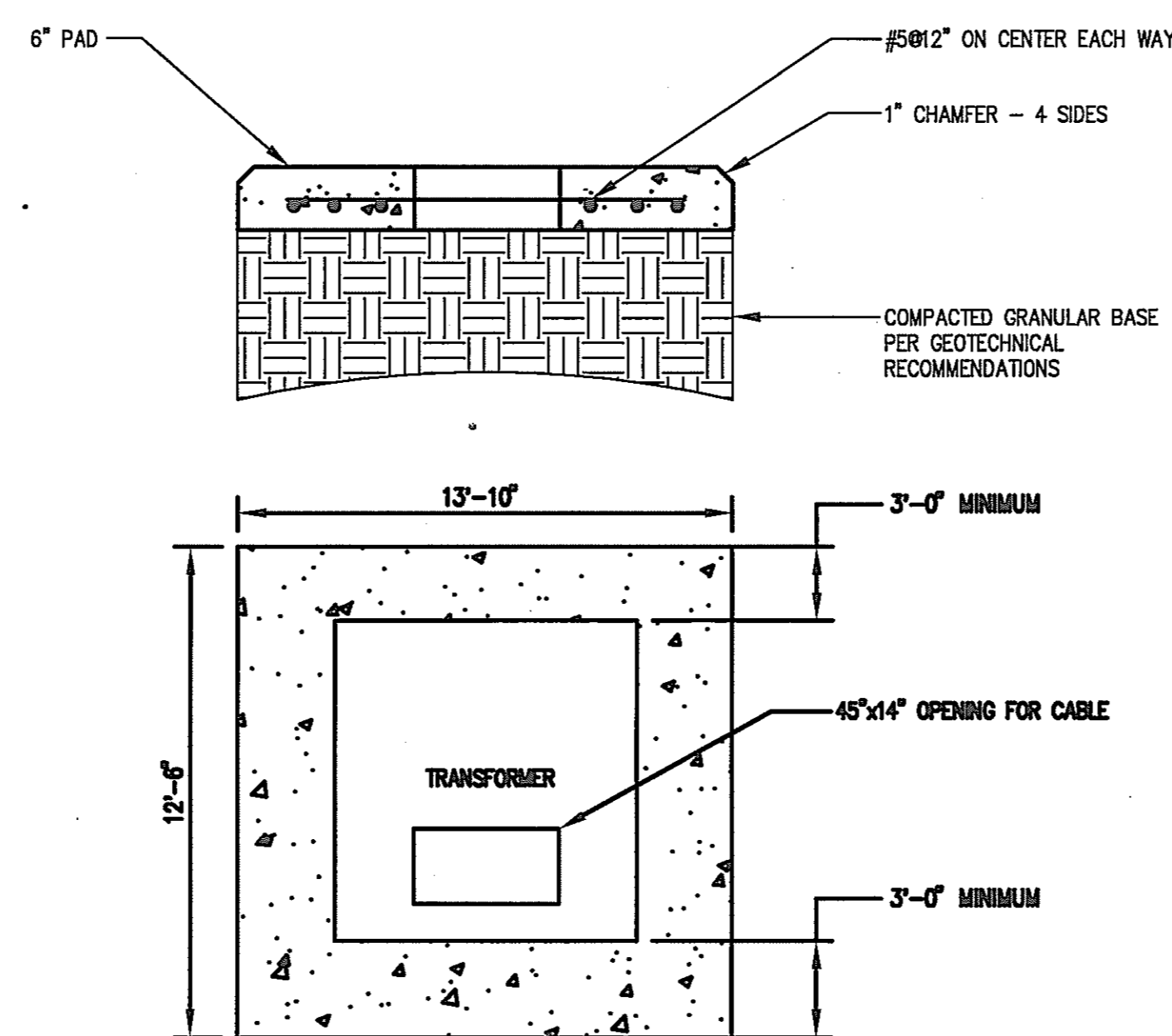
A 2-WAY CONCRETE ENCASED DUCTBANK
SCALE: NOT TO SCALE

B 4-WAY CONCRETE ENCASED DUCTBANK
SCALE: NOT TO SCALE

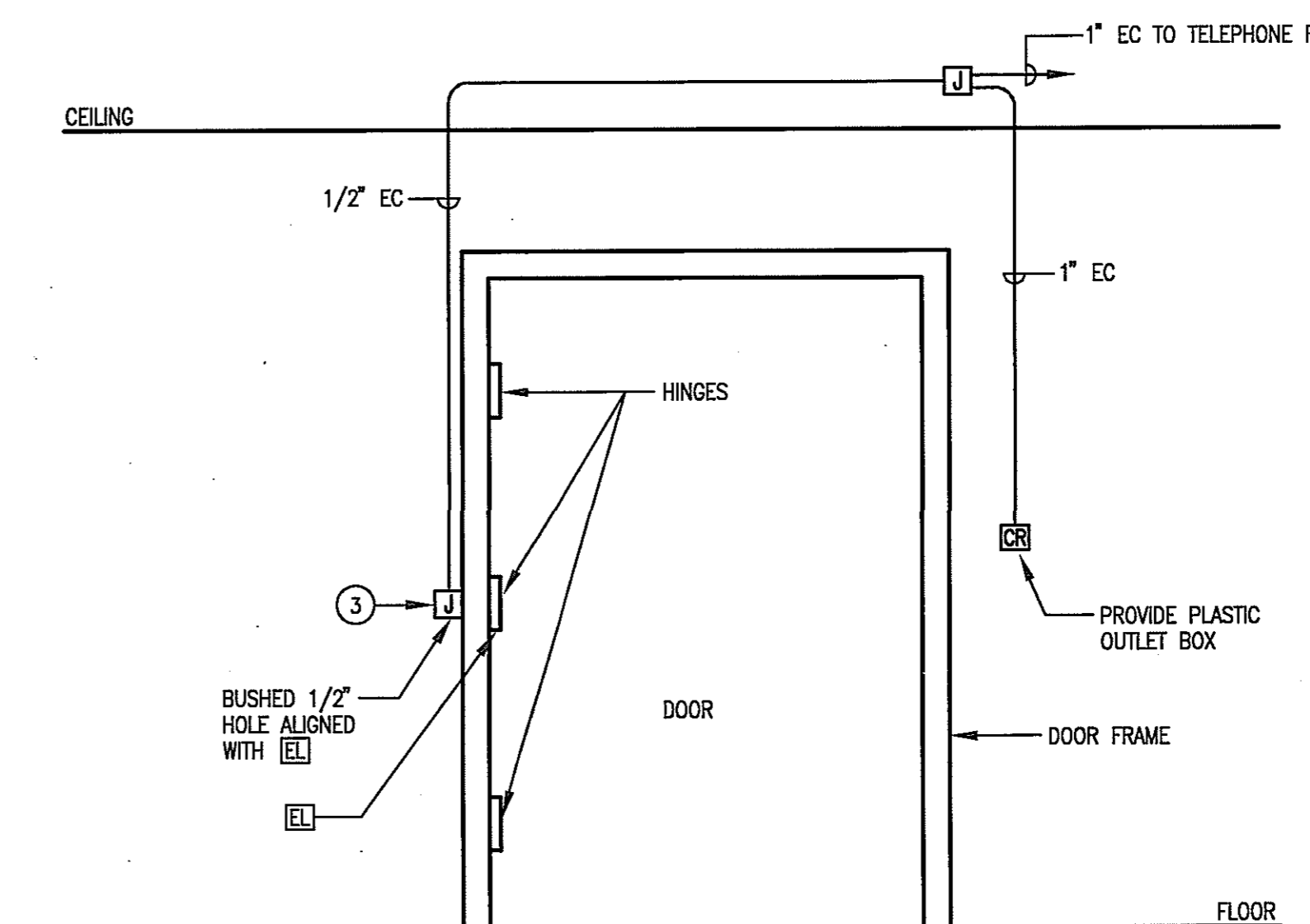
C 6-WAY CONCRETE ENCASED DUCTBANK
SCALE: NOT TO SCALE



D TRANSFORMER GROUND RING DETAIL
SCALE: NOT TO SCALE



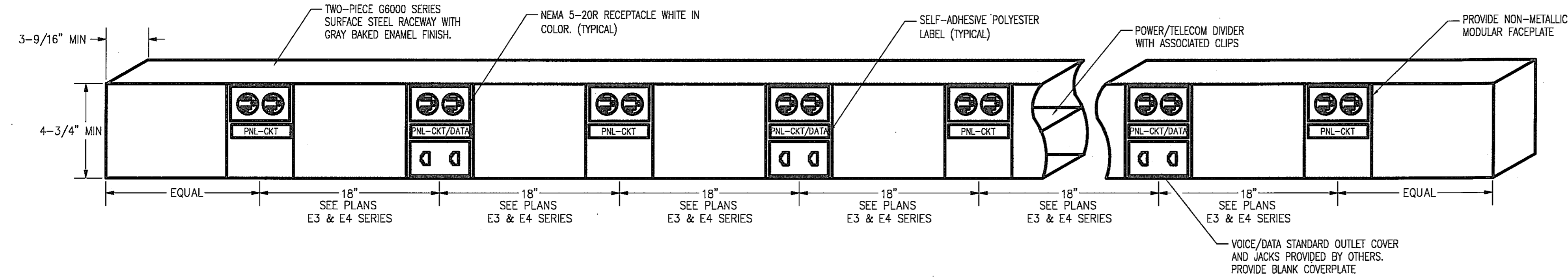
E TRANSFORMER CONCRETE PAD
SCALE: NOT TO SCALE



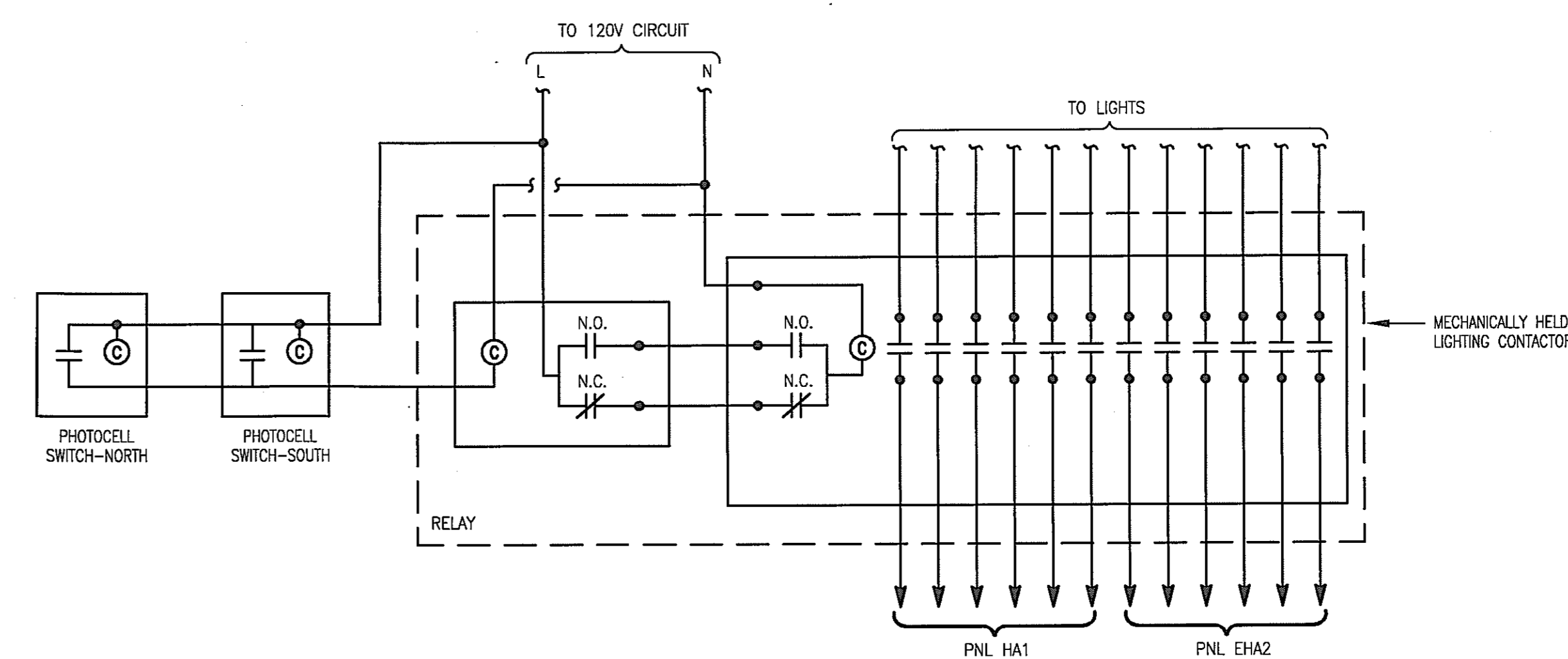
DETAIL ELEVATION

H DOOR SECURITY ROUGH-IN NON-SECURE SIDE
SCALE: NOT TO SCALE

SINGLE DOOR SHOWN. FOR DOUBLE DOORS, PROVIDE [] FOR EACH DOOR.

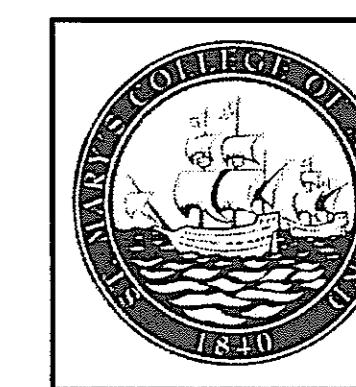


F SURFACE MOUNTED DUAL RACEWAY
SCALE: NOT TO SCALE



G LIGHTING CONTROL DIAGRAM
SCALE: NOT TO SCALE

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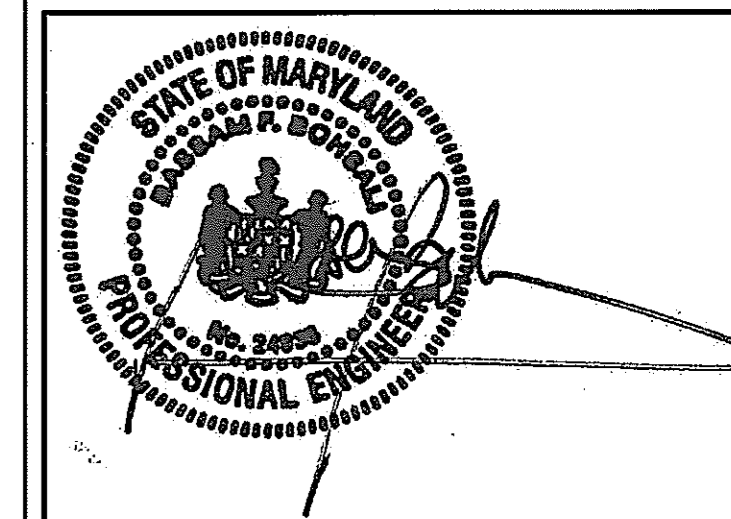
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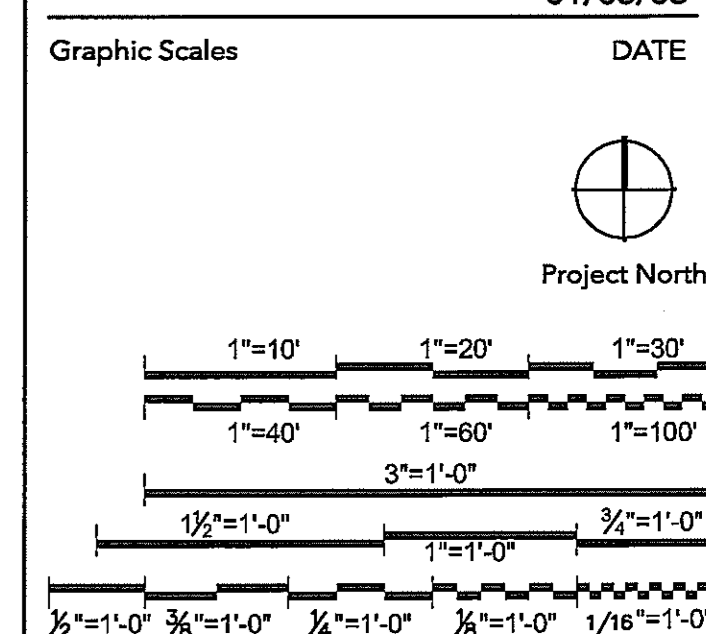
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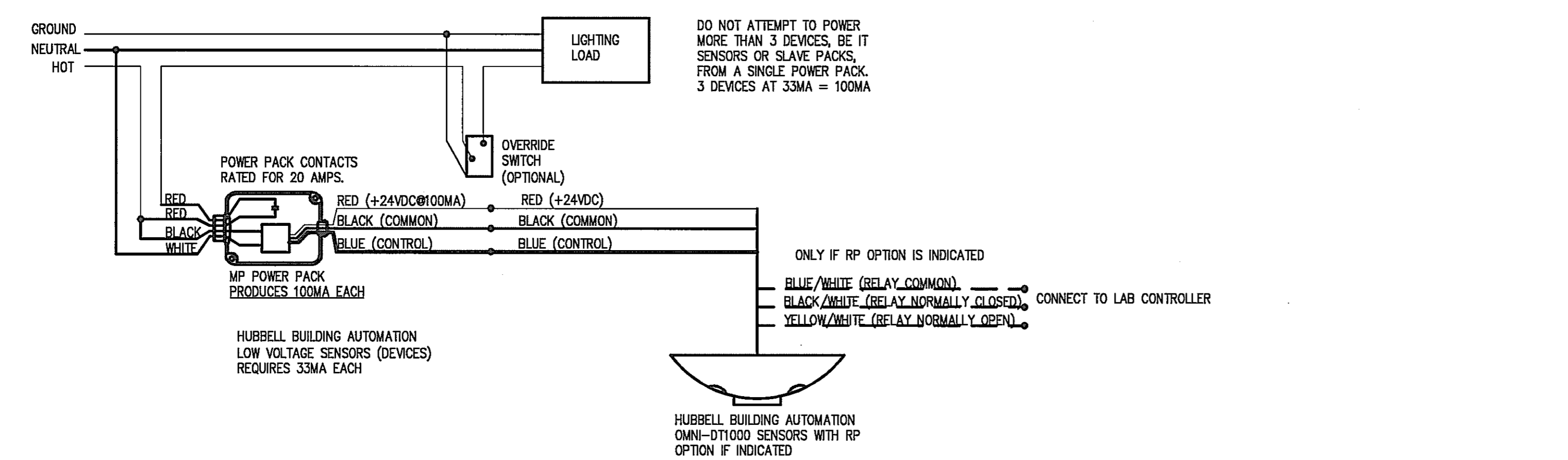
**LIGHTING CONTROL WIRING
DETAILS**

NOT TO SCALE

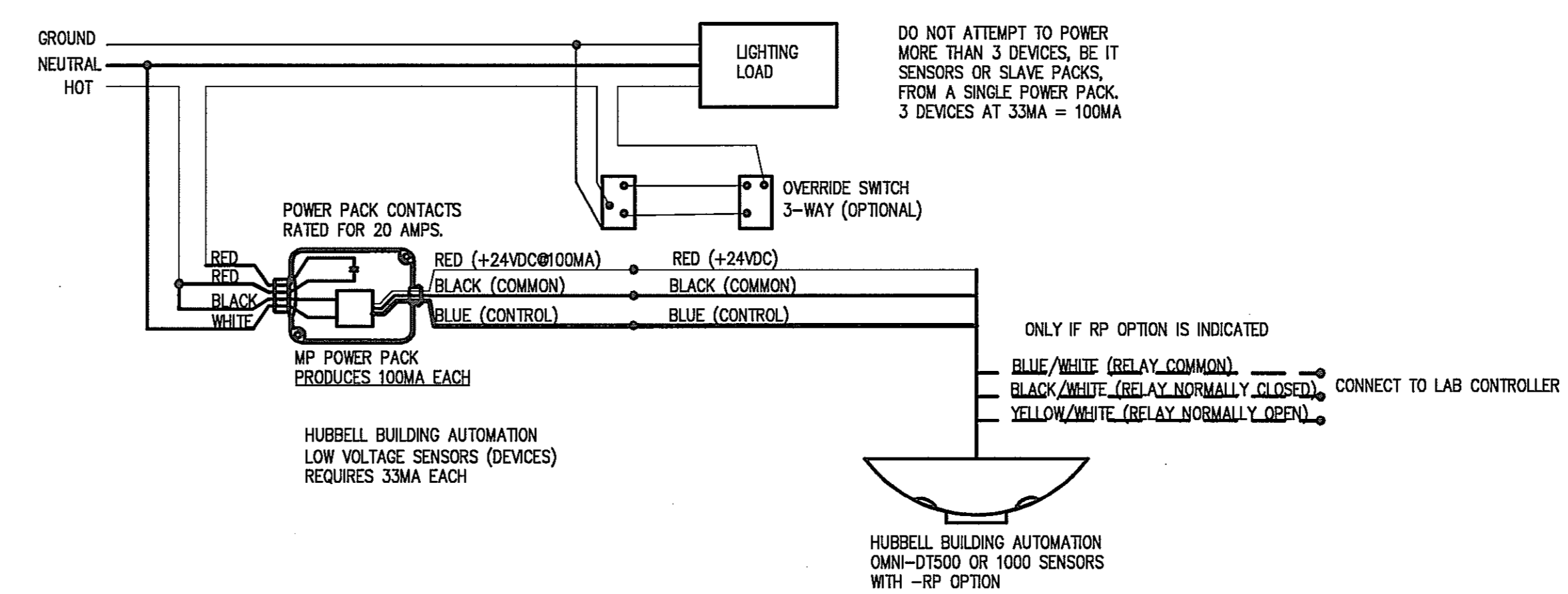
Scale
J-494-020-002 25379.000
DGS Project Number SG Project Number

E6.2

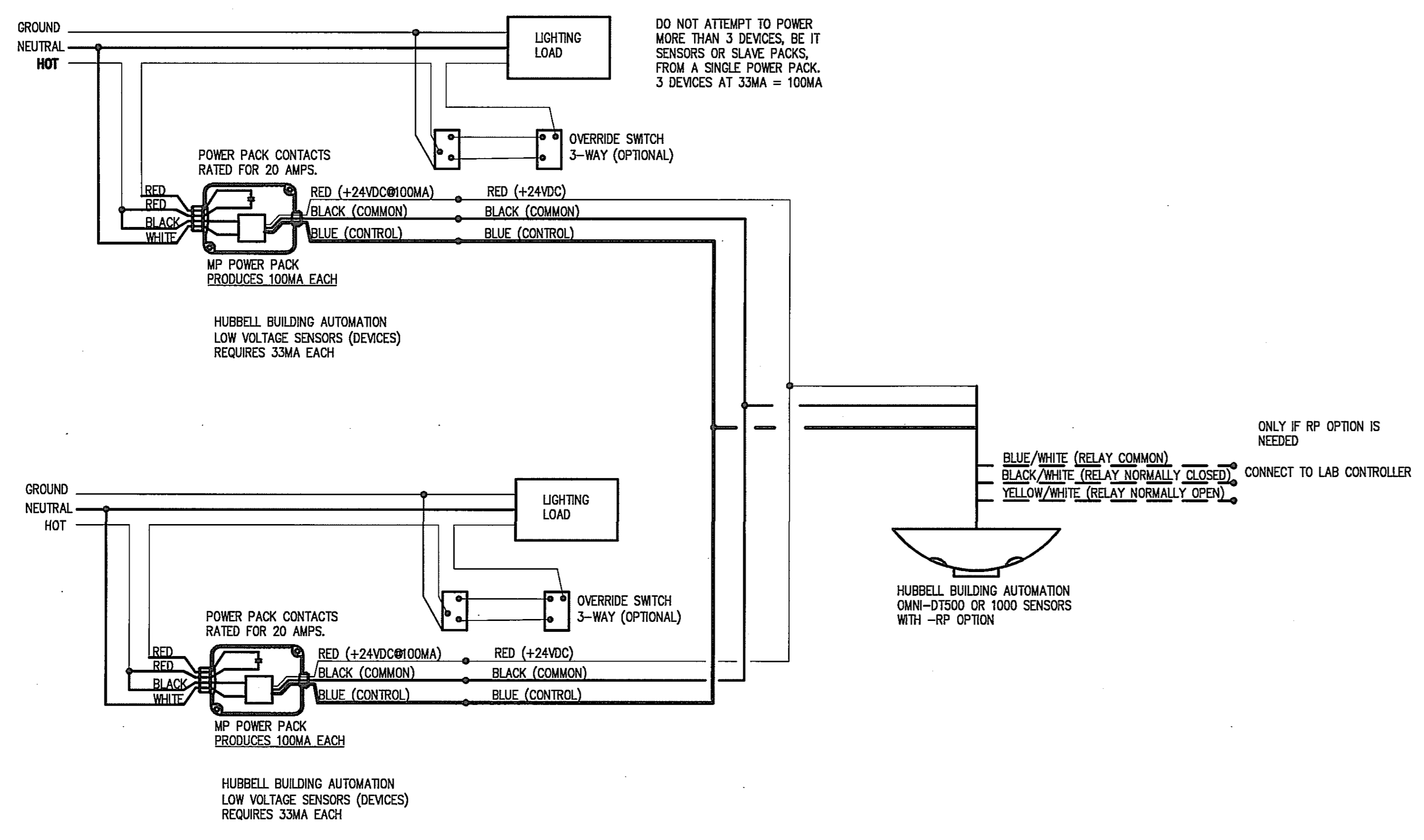
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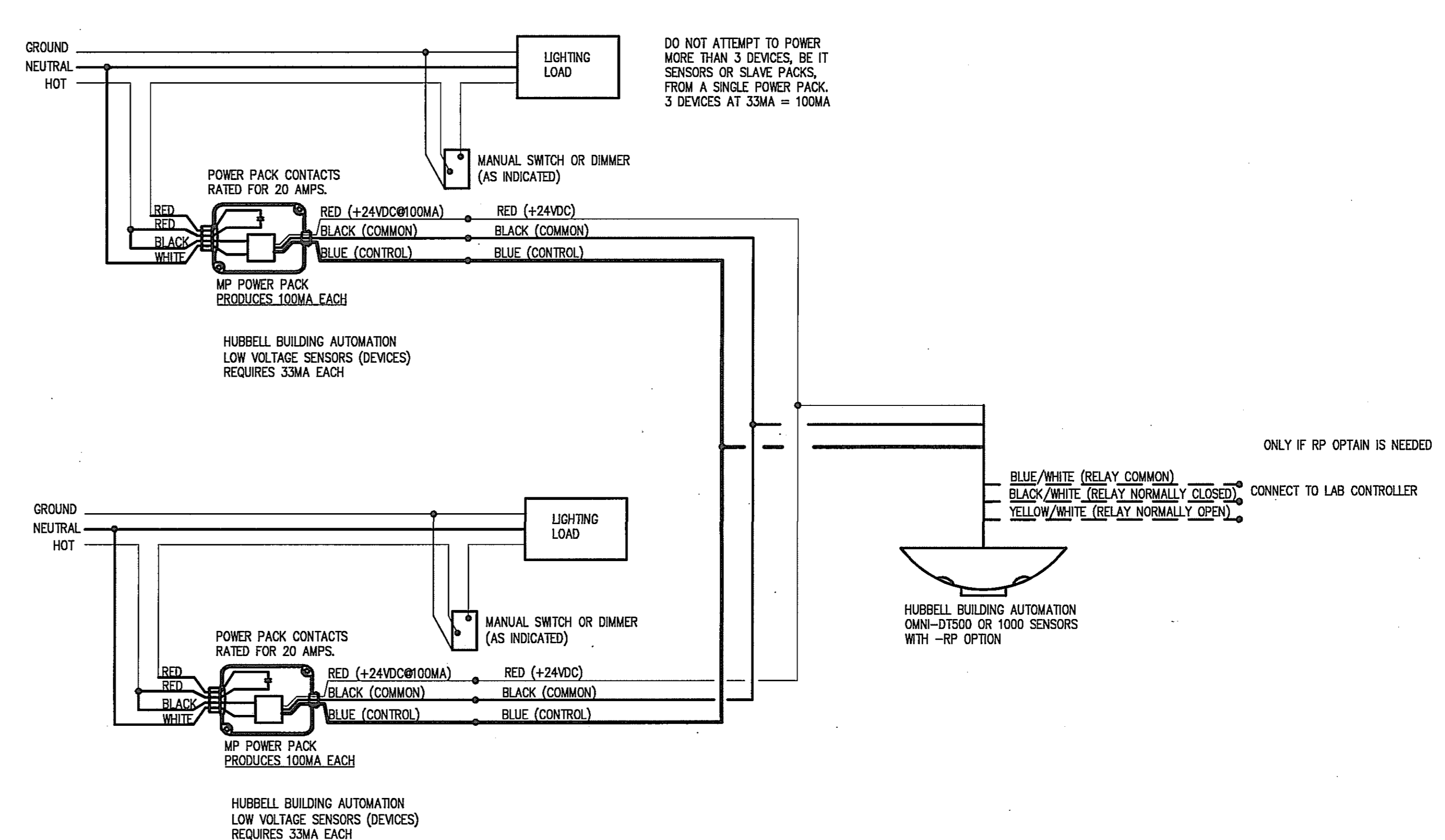
1 WIRING DIAGRAM #1
SCALE: NOT TO SCALE



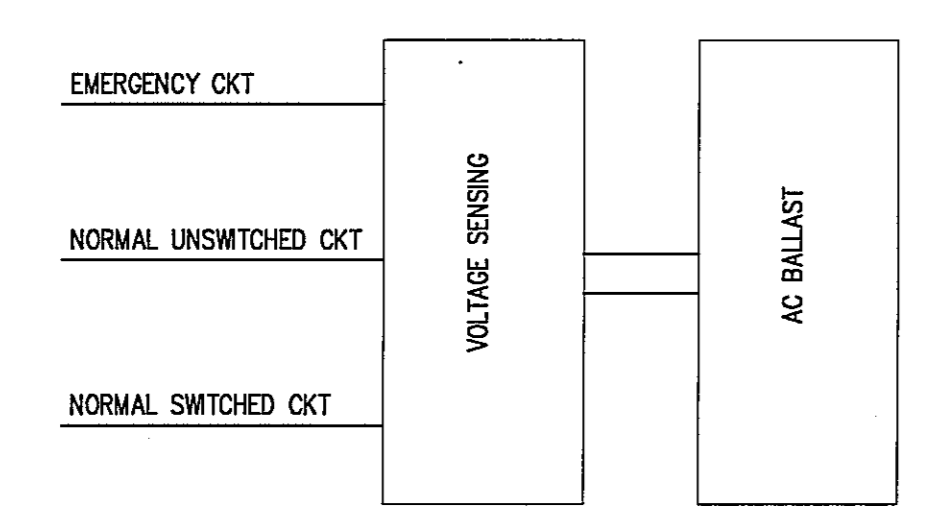
2 WIRING DIAGRAM #2
SCALE: NOT TO SCALE



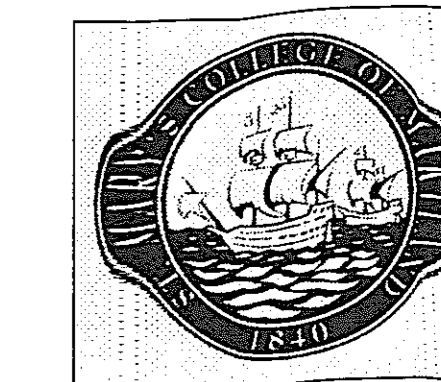
3 WIRING DIAGRAM #3
SCALE: NOT TO SCALE



4 WIRING DIAGRAM #4
SCALE: NOT TO SCALE



5 SWITCHED EMERGENCY LIGHT FIXTURE
SCALE: NOT TO SCALE



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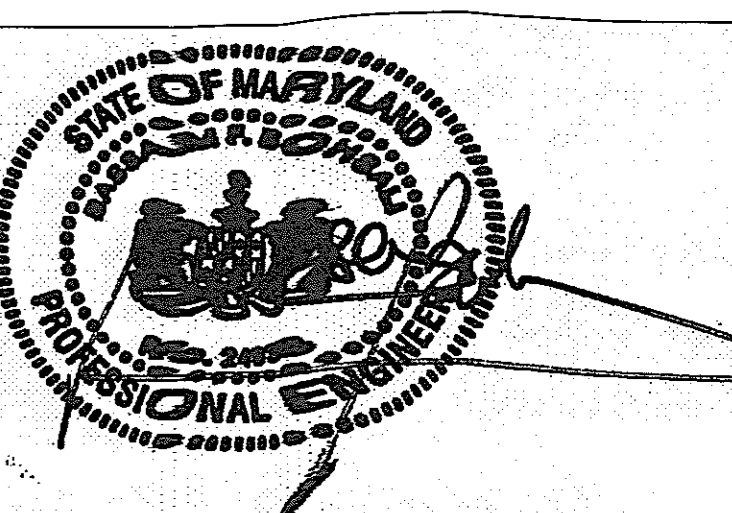
PROJECT MANAGER DATE

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Addendum PB-10

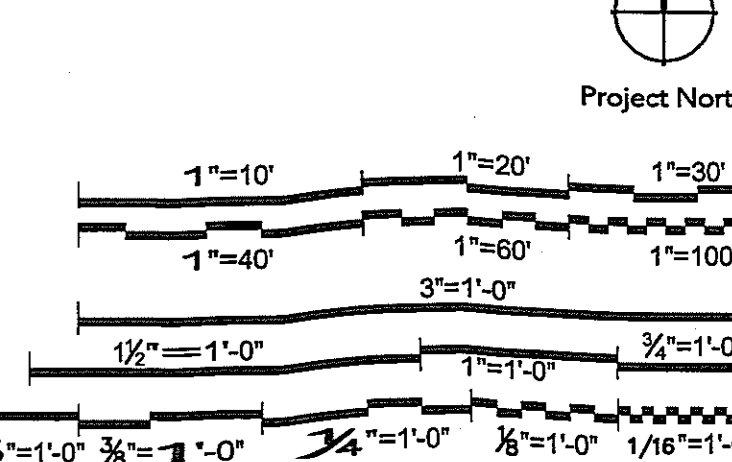
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Drawing Title

LIGHTING FIXTURE SCHEDULE

NOT TO SCALE

Scale J-494-020-002 25379.000 BGS Project Number 5G Project Number

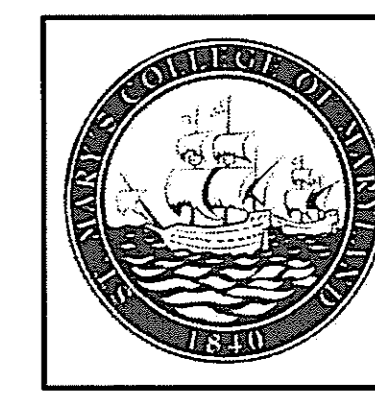
E7.1

Table with columns: TYPE, DESCRIPTION, LAMP TYPE, NO. LAMPS, BALLAST DATA, MOUNTING, MANUFACTURER, CATALOG NO., VOLTAGE, NOTES. Rows 1-140.

LIGHTING FIXTURE SCHEDULE CONTINUED Table with columns: TYPE, DESCRIPTION, LAMP TYPE, LAMPS, BALLAST, MOUNTING, MANUFACTURER, CATALOG NO., VOLTAGE, NOTES. Rows 141-200.

EQUIPMENT SCHEDULE Table with columns: EQUIPMENT NO., DESCRIPTION, EMERGENCY, VOLTS/PHASE, FLA, RECEPTACLE CONFIGURATION, MOUNTING HEIGHT (AFF), WIRE SIZE. Rows 1-200.

BRANCH CIRCUIT SCHEDULE Table with columns: BRANCH CIRCUIT DESIGNATION, CONDUCTOR DATA, CONDUIT SIZE, REMARKS. Rows 1-3.



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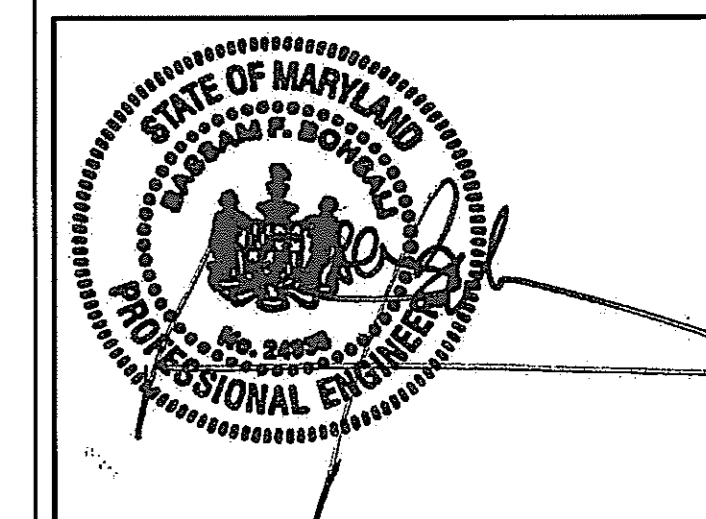
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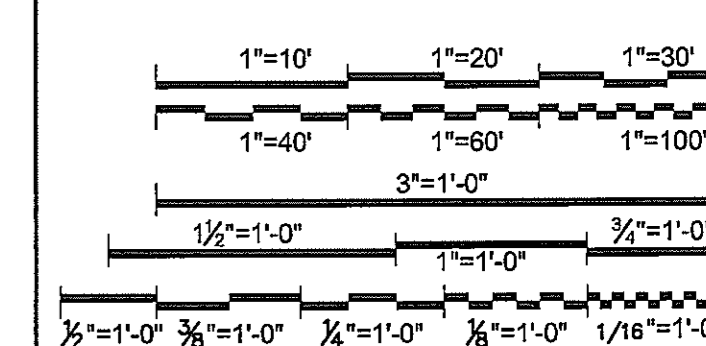


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Project North



SECOND FLOOR PANELBOARD SCHEDULES

NOT TO SCALE

Scale J-494-020-002 25379.000 DGS Project Number SG Project Number

E7.7

Drawing Number

PANELBOARD SCHEDULE table with columns: LOAD DESCRIPTION, BKR AMPS, BKR POLE, CKT. NO., LOAD-V.A., C, CKT. NO., BKR POLE, BKR AMPS, LOAD DESCRIPTION. Includes equipment like AV RECEPTACLE, FUME HOOD, WIREMOLD, etc.

PANELBOARD SCHEDULE table with columns: LOAD DESCRIPTION, BKR AMPS, BKR POLE, CKT. NO., LOAD-V.A., C, CKT. NO., BKR POLE, BKR AMPS, LOAD DESCRIPTION. Includes equipment like PROJECTOR, FUME HOOD, RECEPT., etc.

PANELBOARD SCHEDULE table with columns: LOAD DESCRIPTION, BKR AMPS, BKR POLE, CKT. NO., LOAD-V.A., C, CKT. NO., BKR POLE, BKR AMPS, LOAD DESCRIPTION. Includes equipment like WIREMOLD, FUME HOOD, VACUUM PUMPS, etc.

PANELBOARD SCHEDULE table with columns: LOAD DESCRIPTION, BKR AMPS, BKR POLE, CKT. NO., LOAD-V.A., C, CKT. NO., BKR POLE, BKR AMPS, LOAD DESCRIPTION. Includes equipment like GENERAL RECEPTACLE, LAMINAR FLOWHOOD, VACUUM PUMPS, etc.

PANELBOARD SCHEDULE table with columns: LOAD DESCRIPTION, BKR AMPS, BKR POLE, CKT. NO., LOAD-V.A., C, CKT. NO., BKR POLE, BKR AMPS, LOAD DESCRIPTION. Includes equipment like GENERAL RECEPTACLE, UNDERCOUNTER REFRIG., WIREMOLD, etc.

PANELBOARD SCHEDULE table with columns: LOAD DESCRIPTION, BKR AMPS, BKR POLE, CKT. NO., LOAD-V.A., C, CKT. NO., BKR POLE, BKR AMPS, LOAD DESCRIPTION. Includes equipment like HOT PLATE RECEPTACLE, VACUUM PUMPS, etc.

PANELBOARD SCHEDULE table with columns: LOAD DESCRIPTION, BKR AMPS, BKR POLE, CKT. NO., LOAD-V.A., C, CKT. NO., BKR POLE, BKR AMPS, LOAD DESCRIPTION. Includes equipment like CHEM. OFFICE DUPLEXES, CORRIDOR DUPLEX, etc.

PANELBOARD SCHEDULE table with columns: LOAD DESCRIPTION, BKR AMPS, BKR POLE, CKT. NO., LOAD-V.A., C, CKT. NO., BKR POLE, BKR AMPS, LOAD DESCRIPTION. Includes equipment like INTERACTIVE/EDUC. DUPLEX, EDUCATION OFFICE QUAD, etc.

PANELBOARD SCHEDULE table with columns: LOAD DESCRIPTION, BKR AMPS, BKR POLE, CKT. NO., LOAD-V.A., C, CKT. NO., BKR POLE, BKR AMPS, LOAD DESCRIPTION. Includes equipment like BATHROOM GFI DOUTLETS, DUPLEXES, MEDIUM SEMINAR, etc.

