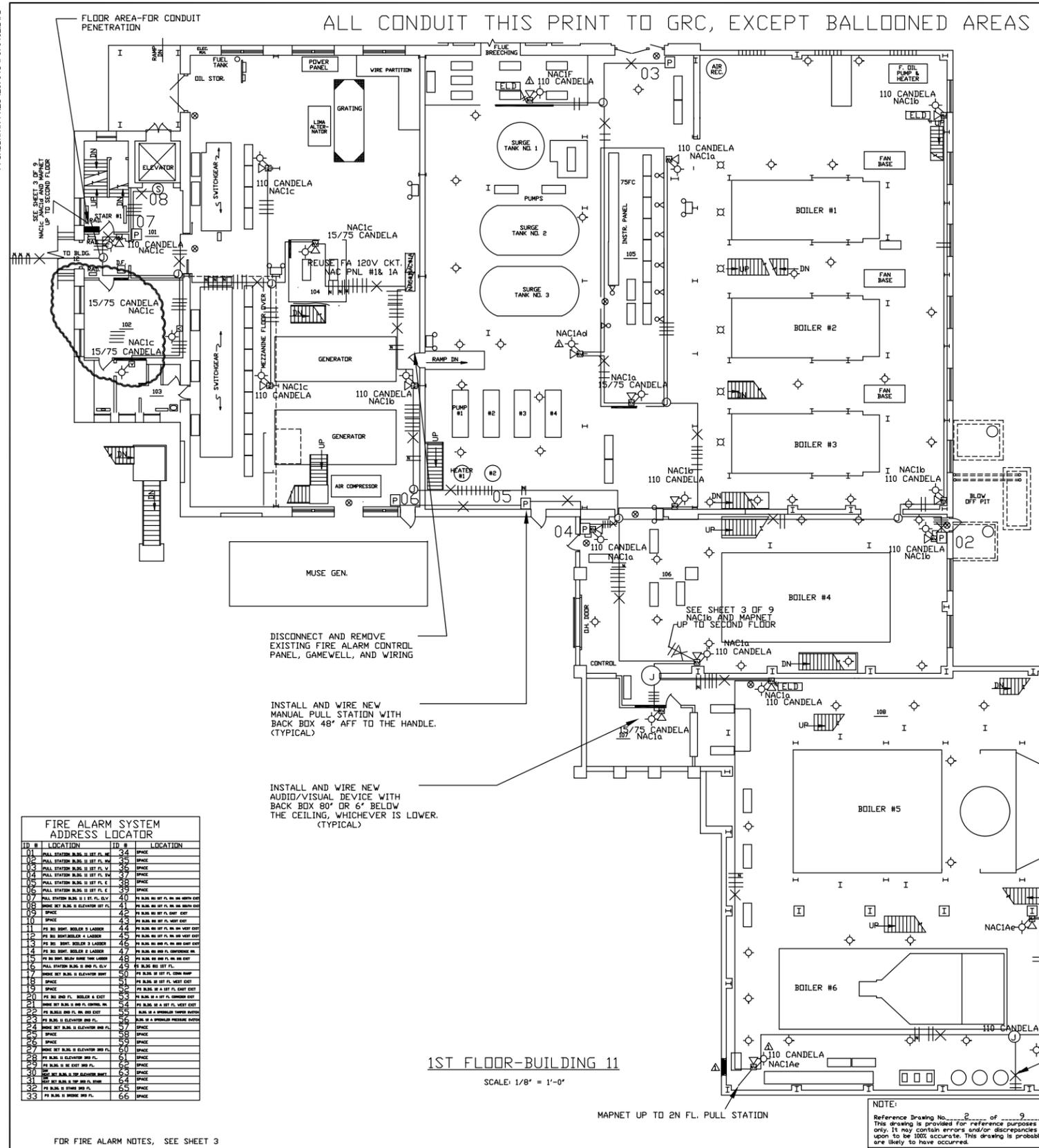


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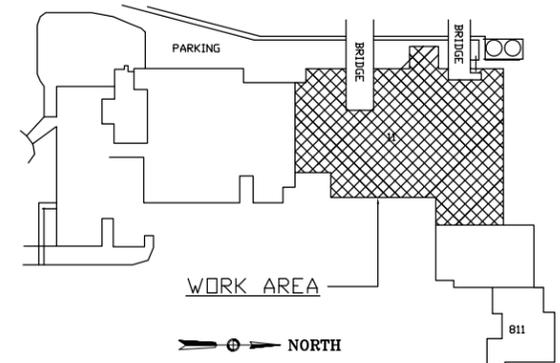


REVISIONS				
SYMBOL	DESCRIPTION	BY	DATE	APPROVAL
Δ	REVISIONS PER 12/17/99 PER DAHLSTROM LTR.	MAB	12/23/99	MAB
	AS BUILT DRAWINGS	MAB	3/16/2000	MAB

SYMBOL	LEGEND
	FIRE ALARM AUDIO/VISUAL DEVICE WITH BACK BOX
	FIRE ALARM VISUAL DEVICE WITH BACK BOX
	FIRE ALARM HORN WITH BACK BOX
	FIRE ALARM MANUAL PULL STATION
	SMOKE DETECTOR
	FIRE ALARM CONTROL PANEL
	RADIO ALARM TRANSMITTER
	CONDUIT PENETRATION-WALL
	SAFETY SWITCH
	HOME RUN CABLE
	RADIO ALARM TRANSMITTER ANTENNA
	NOTIFICATION APPLIANCE CIRCUIT PANEL
	REMOVE EXISTING SMOKE DETECTOR
	REMOVE EXISTING MANUAL PULL STATION
	REMOVE EXISTING AUDIO VISUAL

BENSON ELECTRIC INC. WORKING DRAWING
SEE SHEET 9 OF 9 & 9A FOR WIRING DETAILS
MAB//11/15/99

ID #	LOCATION	ID #	LOCATION
01	PULL STATION BLDG 11 1ST FL. 101	24	SPACE
02	PULL STATION BLDG 11 1ST FL. 102	25	SPACE
03	PULL STATION BLDG 11 1ST FL. 103	26	SPACE
04	PULL STATION BLDG 11 1ST FL. 104	27	SPACE
05	PULL STATION BLDG 11 1ST FL. C	28	SPACE
06	PULL STATION BLDG 11 1ST FL. C	29	SPACE
07	PULL STATION BLDG 11 1ST FL. 107	30	SPACE
08	SMOKE DET BLDG 11 ELEVATOR 1ST FL.	41	PS BLDG 11 1ST FL. 101 100 W/SHOULDER
09	SPACE	42	PS BLDG 11 1ST FL. 102 100
10	SPACE	43	PS BLDG 11 1ST FL. 103 100
11	PS 101 100 BLDG 11 101	44	PS BLDG 11 1ST FL. 101 100 W/SHOULDER
12	PS 101 100 BLDG 11 102	45	PS BLDG 11 1ST FL. 102 100 W/SHOULDER
13	PS 101 100 BLDG 11 103	46	PS BLDG 11 1ST FL. 103 100 W/SHOULDER
14	PS 101 100 BLDG 11 104	47	PS BLDG 11 1ST FL. 104 100 W/SHOULDER
15	PS 101 100 BLDG 11 105	48	PS BLDG 11 1ST FL. 105 100 W/SHOULDER
16	PULL STATION BLDG 11 1ST FL. 106	49	PS BLDG 11 1ST FL. 106 100
17	SMOKE DET BLDG 11 ELEVATOR 2ND FL.	50	PS BLDG 11 1ST FL. 107 100
18	SPACE	51	PS BLDG 11 1ST FL. 108 100
19	SPACE	52	PS BLDG 11 1ST FL. 109 100
20	PS 101 100 BLDG 11 101	53	PS BLDG 11 1ST FL. 110 100
21	SMOKE DET BLDG 11 1ST FL. 101	54	PS BLDG 11 1ST FL. 111 100
22	PS BLDG 11 1ST FL. 102 100	55	PS BLDG 11 1ST FL. 112 100
23	PS BLDG 11 1ST FL. 103 100	56	PS BLDG 11 1ST FL. 113 100
24	SMOKE DET BLDG 11 ELEVATOR 2ND FL.	57	SPACE
25	SPACE	58	SPACE
26	SPACE	59	SPACE
27	SMOKE DET BLDG 11 ELEVATOR 3RD FL.	60	SPACE
28	PS BLDG 11 1ST FL. 101	61	SPACE
29	PS BLDG 11 1ST FL. 102	62	SPACE
30	SMOKE DET BLDG 11 1ST FL. 103	63	SPACE
31	SMOKE DET BLDG 11 1ST FL. 104	64	SPACE
32	PS BLDG 11 1ST FL. 105	65	SPACE
33	PS BLDG 11 1ST FL. 106	66	SPACE



APPROVED	DATE	CIVIL	DESIGN	REVIEW	DATE	INIT	DATE	DATE	DATE
COMMANDED OFFICER		MECH							
APPROVED FOR COMMAND		ELECT	DSS						
CFD FOR COMMANDER N/EC		ARCH							
SATISFACTORY TO		CADD	DSS						

AS BUILT DRAWING

FOR FIRE ALARM NOTES, SEE SHEET 3

1ST FLOOR-BUILDING 11

SCALE: 1/8" = 1'-0"

MAPNET UP TO 2N FL. PULL STATION

NOTE:
Reference Drawing No. 2 of 9
This drawing is provided for reference purposes and general information only. It may contain errors and/or discrepancies and should not be relied upon to be 100% accurate. This drawing is probably outdated and changes are likely to have occurred.

ALL CONDUIT THIS PRINT USE GRC EXCEPT BALLOONED AREAS

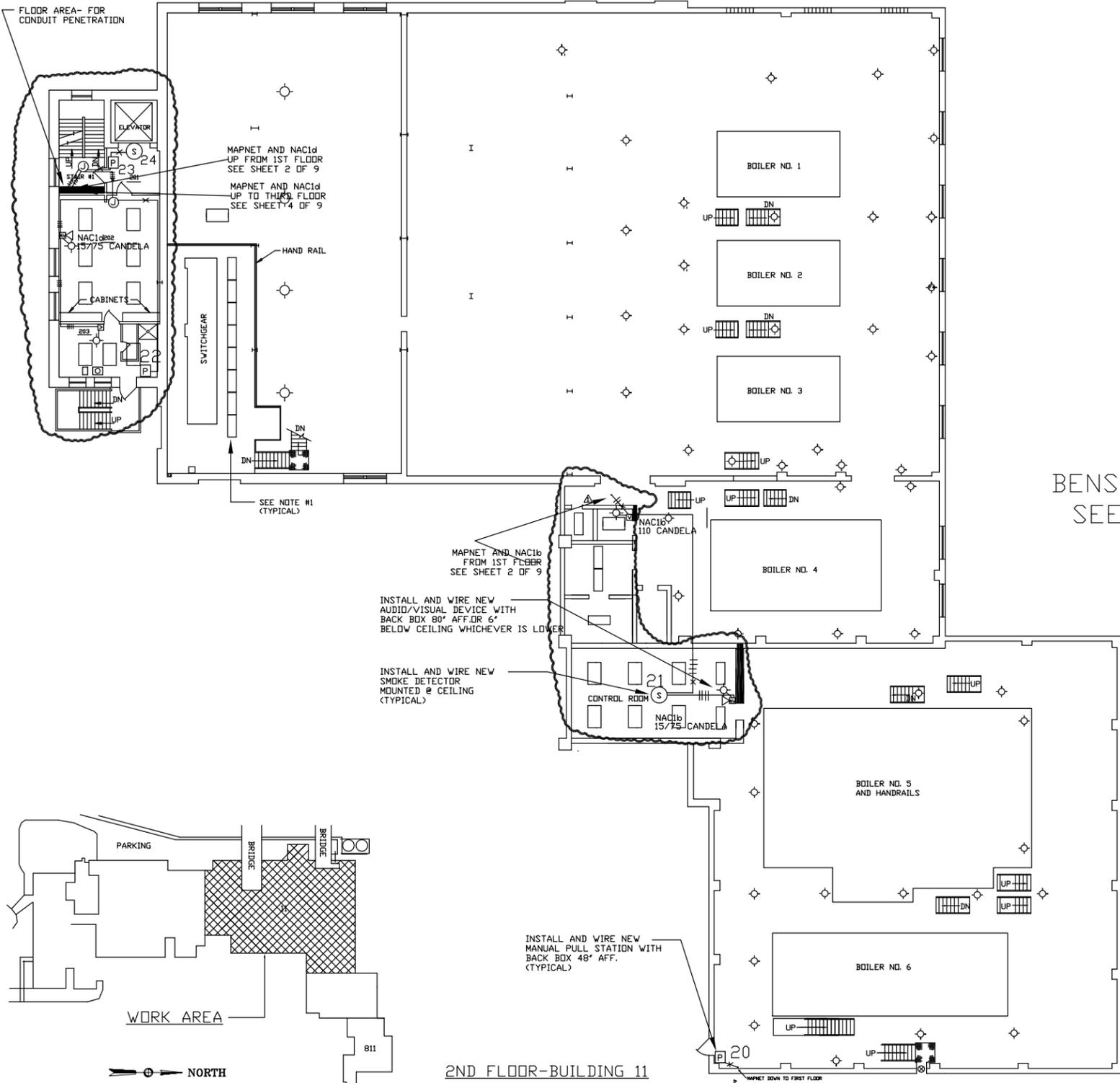
REVISIONS				
SYMBOL	DESCRIPTION	BY	DATE	APPROVAL
Δ	REVISED PER 12/17/99 DAHLSTROM LTR.	MAB	12/23/99	MAB
	AS BUILT DRAWINGS	MAB	03/06/2000	MAB

FIRE ALARM NOTES:

1. THE CONTRACTOR SHALL DISCONNECT AND REMOVE ALL EXISTING FIRE ALARM EQUIPMENT AND ASSOCIATED WIRING IN BUILDINGS 11, 12, 12A, AND 811.
2. INSTALL NEW FIRE ALARM CONTROL PANEL, RADIO ALARM TRANSMITTER, MANUAL PULL STATION, AUDIO/VISUAL DEVICE, TRANSMITTER ANTENNA, DISCONNECT SWITCH, AC LINE SURGE PROTECTOR, ANNUNCIATION AND ASSOCIATED NEW WIRING.
3. PRIMARY POWER SUPPLY FOR THE FIRE ALARM PANEL AND RADIO ALARM TRANSMITTER SHALL BE CONNECTED TO THE LINE SIDE OF THE MAIN DISTRIBUTION PANEL IN THE BASEMENT NEAR THE ELEVATOR SECTION.
4. SUPPORT THE CONDUIT BY SECURELY FASTENING IN PLACE AT LEAST EVERY 10 FEET AND WITHIN 3 FEET OF EACH FIRE ALARM DEVICE, JUNCTION BOX, PANEL, CONNECTOR AND FITTINGS IN ACCORDANCE OF THE LATEST EDITION OF NEC. CONDUIT STRAPS, WALL BRACKET, HANGER, CEILING TRAPEZE, OR WELDING ARE ACCEPTABLE METHODS OF SUPPORTING CONDUIT.
5. ALL EQUIPMENT, DEVICE, MATERIAL, INSTALLATION, WORKMANSHIP, AND TESTING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF NEC, NFPA 70 & 72 AND UL.
6. EACH CONDUCTOR USED FOR THE SAME SPECIFIC FUNCTION SHALL BE DISTINCTIVELY COLOR CODED. EACH FUNCTION COLOR SHALL REMAIN CONSTANT THROUGHOUT THE SYSTEM. ALL CIRCUIT CONDUCTORS SHALL BE IDENTIFIED WITHIN EACH ENCLOSURE WHERE A TAP, SPLICE OR TERMINATION IS MADE. CONDUCTOR IDENTIFICATION SHALL BE BY PLASTIC COATED SELF STICKING PRINTED MARKERS OR BY HEAT SHRINK SLEEVES. THE MARKERS SHALL BE ATTACHED IN A MANNER THAT WILL NOT PERMIT ACCIDENTAL DETACHMENT. PIGTAIL OR 'T' TAP CONNECTIONS ARE PROHIBITED. WIRING FOR THE DC CIRCUIT SHALL NOT PERMITTED IN THE SAME CONDUIT AS WIRING FOR AC CIRCUITS. PAINT ALL JUNCTION BOX COVER RED OR PROVIDE THEM WITH PERMANENT LABELS READING 'FIRE ALARM CIRCUIT'.
 - A. FIRE ALARM CONTROL PANEL----- 120VAC SUPPLY, 2 #12 AWG. THWN, 3/4" EMT (MIN).
 - B. ALARM INITIATING DEVICES----- 2 #14 AWG, THWN, 3/4" EMT (MIN).
 - C. ALARM INDICATING DEVICES----- 2 #14 AWG, THWN, 3/4" EMT (MIN).
 - D. RADIO ALARM TRANSMITTER----- 120VAC, 60 HZ, 2 #12 AWG, THWN, 3/4" (MIN) AND COAXIAL CABLE RG-213U (FOR ANTENNA).
 - E. INITIATING AND INDICATING CIRCUITS CAN BE RUN IN THE SAME CONDUIT.
7. USE SOLID COPPER WIRE FOR ALL THE WIRING ASSOCIATED WITH THE FIRE ALARM SYSTEM.

BENSON ELECTRIC INC. WORKING DRAWINGS
SEE SHEET 9 OF 9 FOR WIRING DETAILS
MAB/ 11/15/99

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FIRE ALARM SYSTEM ADDRESS LOCATOR			
ID #	LOCATION	ID #	LOCATION
01	PULL STATION BLDG 11 1ST FL. NW	34	SPACE
02	PULL STATION BLDG 11 1ST FL. NW	35	SPACE
03	PULL STATION BLDG 11 1ST FL. SW	36	SPACE
04	PULL STATION BLDG 11 1ST FL. SW	37	SPACE
05	PULL STATION BLDG 11 1ST FL. E	38	SPACE
06	PULL STATION BLDG 11 1ST FL. E	39	SPACE
07	PULL STATION BLDG 11 1ST FL. ELEV	40	PS BLDG 11 1ST FL. NW AND NORTH EXIT
08	SMOKE DET. BLDG 11 ELEVATOR 1ST FL.	41	PS BLDG 11 1ST FL. NW AND NORTH EXIT
09	SPACE	42	PS BLDG 11 1ST FL. EAST EXIT
10	SPACE	43	PS BLDG 11 1ST FL. WEST EXIT
11	PS BLDG 11 BOILER 1 LADDER	44	PS BLDG 11 1ST FL. NW AND WEST EXIT
12	PS BLDG 11 BOILER 2 LADDER	45	PS BLDG 11 1ST FL. NW AND WEST EXIT
13	PS BLDG 11 BOILER 3 LADDER	46	PS BLDG 11 1ST FL. NW AND WEST EXIT
14	PS BLDG 11 BOILER 4 LADDER	47	PS BLDG 11 1ST FL. NW AND WEST EXIT
15	PS BLDG 11 BOILER 5 LADDER	48	PS BLDG 11 1ST FL. NW AND WEST EXIT
16	PULL STATION BLDG 11 2ND FL. ELEV	49	PS BLDG 11 1ST FL.
17	SMOKE DET. BLDG 11 ELEVATOR 2ND FL.	50	PS BLDG 11 1ST FL. CORNER NORTH
18	SPACE	51	PS BLDG 11 1ST FL. WEST EXIT
19	SPACE	52	PS BLDG 11 1ST FL. EAST EXIT
20	PS BLDG 11 2ND FL. BOILER 6 EXIT	53	PS BLDG 11 1ST FL. CORNER SOUTH
21	SMOKE DET. BLDG 11 2ND FL. CORNER SW	54	PS BLDG 11 1ST FL. WEST EXIT
22	PS BLDG 11 2ND FL. NW AND WEST EXIT	55	PS BLDG 11 1ST FL. CORNER NORTH
23	PS BLDG 11 ELEVATOR 2ND FL.	56	PS BLDG 11 1ST FL. CORNER SOUTH
24	SMOKE DET. BLDG 11 ELEVATOR 2ND FL.	57	PS BLDG 11 1ST FL. SOUTH EXIT
25	SPACE	58	SPACE
26	SPACE	59	SPACE
27	SMOKE DET. BLDG 11 ELEVATOR 2ND FL.	60	SPACE
28	PS BLDG 11 ELEVATOR 2ND FL.	61	SPACE
29	PS BLDG 11 2ND FL. EAST FL.	62	SPACE
30	SMOKE DET. BLDG 11 2ND FL. EAST FL.	63	SPACE
31	SMOKE DET. BLDG 11 2ND FL. EAST FL.	64	SPACE
32	PS BLDG 11 STAIRS 2ND FL.	65	SPACE
33	PS BLDG 11 STAIRS 2ND FL.	66	SPACE

FOR FIRE ALARM LEGEND SEE SHEET NO. 2
FOR FIRE ALARM NOTES SEE SHEET NO. 3

NOTE:
Reference Drawing No. 3 of 9
This drawing is provided for reference purposes and general information only. It may contain errors and/or discrepancies and should not be relied upon to be 100% accurate. This drawing is probably outdated and changes are likely to have occurred.

APPROVED	DATE	DESIGN	REVIEW
CIVIL		DNW	CHK
MECH		DATE	INIT
ELECT		DATE	DATE
CPT FOR COMMANDER NFEC		DATE	
SATISFACTORY TO		DATE	
CADD	DSS		

PWC DWG NO. B11-03-9903	DEPARTMENT OF THE NAVY	NAVAL FACILITIES ENGINEERING COMMAND
LEAD CODE 430	WRNO A07043	NAVY PUBLIC WORKS CENTER GREAT LAKES, IL
DIRECTOR PROD. ENGINEERING		FIRE ALARM SYSTEM
		BUILDINGS 11,11J,12,12A&811
		NTC, GREAT LAKES, IL.
		SECOND FLOOR PLAN, BUILDING 11
		SIZE CODE IDENT. NO. NAVYFAC DRAWING NO.
		F 80091
		SCALE: 1/8"=1'-0"
		SPEC SHEET 3 OF 9

AS BUILT DRAWING

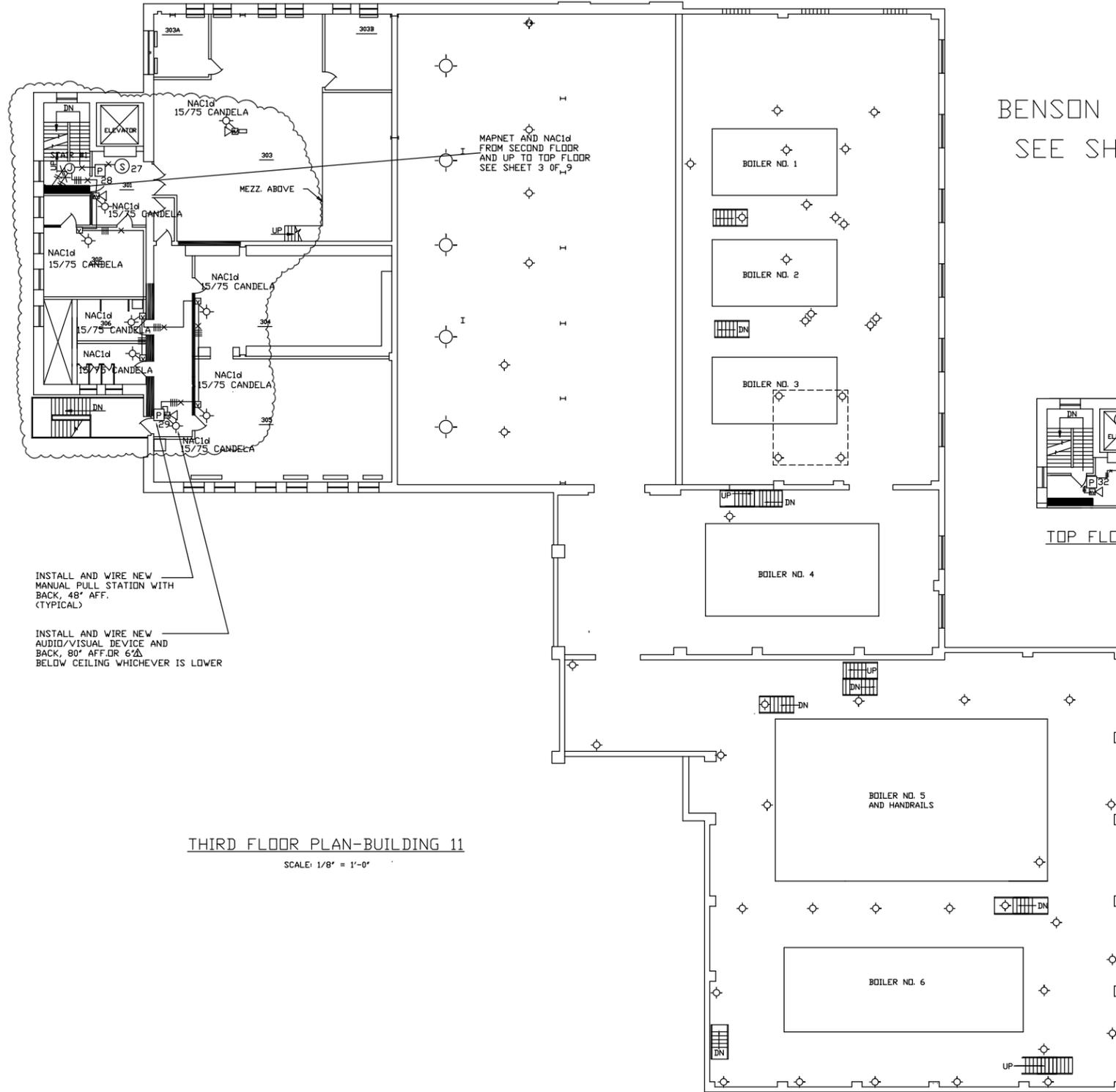
2ND FLOOR-BUILDING 11
SCALE: 1/8" = 1'-0"



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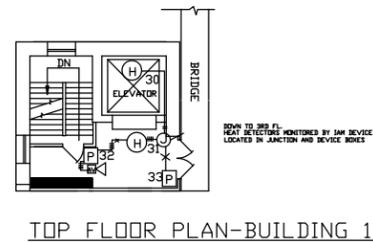
ALL CONDUIT IN BALLOONED AREA TO BE EMT

REVISIONS				
SYMBOL	DESCRIPTION	BY	DATE	APPROVAL
Δ	REVISED PER 12/17/99 DAHLSTROM LTR.	MAB	12/23/99	MAB
	AS BUILT DRAWING	MAB	11/6/2000	MAB



BENSON ELECTRIC INC. WORKING DRAWINGS
SEE SHEET 9 OF 9 FOR WIRING DETAILS
MAB 11/15/99

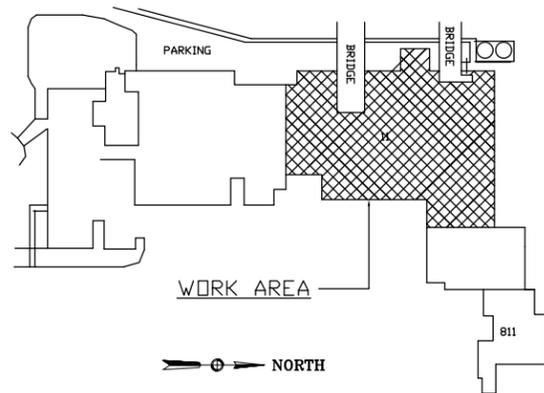
ID #	LOCATION	ID #	LOCATION
01	PULL STATION BLDG 11 1ST FL. ME	34	SPACE
02	PULL STATION BLDG 11 1ST FL. ME	35	SPACE
03	PULL STATION BLDG 11 1ST FL. ME	36	SPACE
04	PULL STATION BLDG 11 1ST FL. ME	37	SPACE
05	PULL STATION BLDG 11 1ST FL. E	38	SPACE
06	PULL STATION BLDG 11 1ST FL. E	39	SPACE
07	PULL STATION BLDG 11 1ST FL. ME	40	SPACE
08	SMOKE DET. BLDG 11 ELEVATOR SHFT	41	SPACE
09	SPACE	42	SPACE
10	SPACE	43	SPACE
11	PE DET. BLDG 11 LAMPS	44	SPACE
12	PE DET. BLDG 11 LAMPS	45	SPACE
13	PE DET. BLDG 11 LAMPS	46	SPACE
14	PE DET. BLDG 11 LAMPS	47	SPACE
15	PE DET. BLDG 11 LAMPS	48	SPACE
16	PULL STATION BLDG 11 1ST FL. ME	49	SPACE
17	SMOKE DET. BLDG 11 ELEVATOR SHFT	50	SPACE
18	SPACE	51	SPACE
19	SPACE	52	SPACE
20	PE DET. BLDG 11 LAMPS	53	SPACE
21	SMOKE DET. BLDG 11 ELEVATOR SHFT	54	SPACE
22	PE DET. BLDG 11 LAMPS	55	SPACE
23	PE DET. BLDG 11 LAMPS	56	SPACE
24	SMOKE DET. BLDG 11 ELEVATOR SHFT	57	SPACE
25	SPACE	58	SPACE
26	SPACE	59	SPACE
27	SMOKE DET. BLDG 11 ELEVATOR SHFT	60	SPACE
28	PE DET. BLDG 11 LAMPS	61	SPACE
29	PE DET. BLDG 11 LAMPS	62	SPACE
30	SMOKE DET. BLDG 11 ELEVATOR SHFT	63	SPACE
31	SMOKE DET. BLDG 11 ELEVATOR SHFT	64	SPACE
32	PE DET. BLDG 11 LAMPS	65	SPACE
33	PE DET. BLDG 11 LAMPS	66	SPACE



INSTALL AND WIRE NEW MANUAL PULL STATION WITH BACK, 48" AFF. (TYPICAL)

INSTALL AND WIRE NEW AUDIO/VISUAL DEVICE AND BACK, 80" AFF. OR 6" BELOW CEILING WHICHEVER IS LOWER

THIRD FLOOR PLAN-BUILDING 11
SCALE: 1/8" = 1'-0"



FOR FIRE ALARM DEVICE LEGEND SEE SHEET NO. 2
AND FOR FIRE ALARM NOTES SEE SHEET NO. 3

NOTE:
Reference Drawing No. 4 of 9
This drawing is provided for reference purposes and general information only. It may contain errors and/or discrepancies and should not be relied upon to be 100% accurate. This drawing is probably outdated and changes are likely to have occurred.

APPROVED	DATE	DESIGN	REVIEW
COMMANDING OFFICER		DWN	CHK
APPROVED FOR COMMAND	DATE	DATE	DATE
CPT FOR COMMANDER NFEC		INIT	DATE
SATISFACTORY TO	DATE		

PWC DWG NO. B11-03-9904	DEPARTMENT OF THE NAVY	NAVAL FACILITIES ENGINEERING COMMAND
LEAD CODE 430 WRNO A07043	NAVY PUBLIC WORKS CENTER GREAT LAKES, IL.	
DIRECTOR PROJ. ENGINEERING	FIRE ALARM SYSTEM	
	BUILDINGS 11,11J,12,12A&811	
	NTC, GREAT LAKES, IL.	
	THIRD FLOOR PLAN, BUILDING 11	
	SIZE	CODE IDENT. NO. NAVY FAC DRAWING NO.
	F 80091	
	CADST. CONTRAL.	
	SCALE: 1/8"=1'-0"	SPEC SHEET 4 OF 9

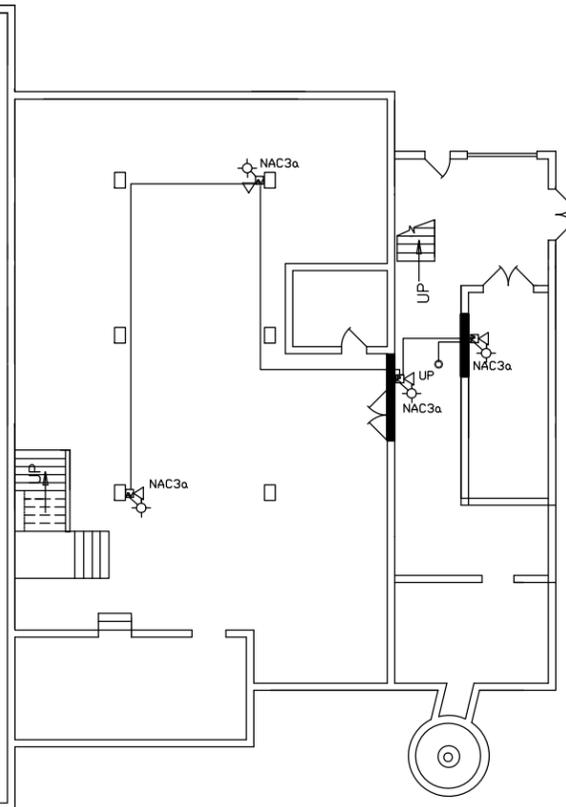
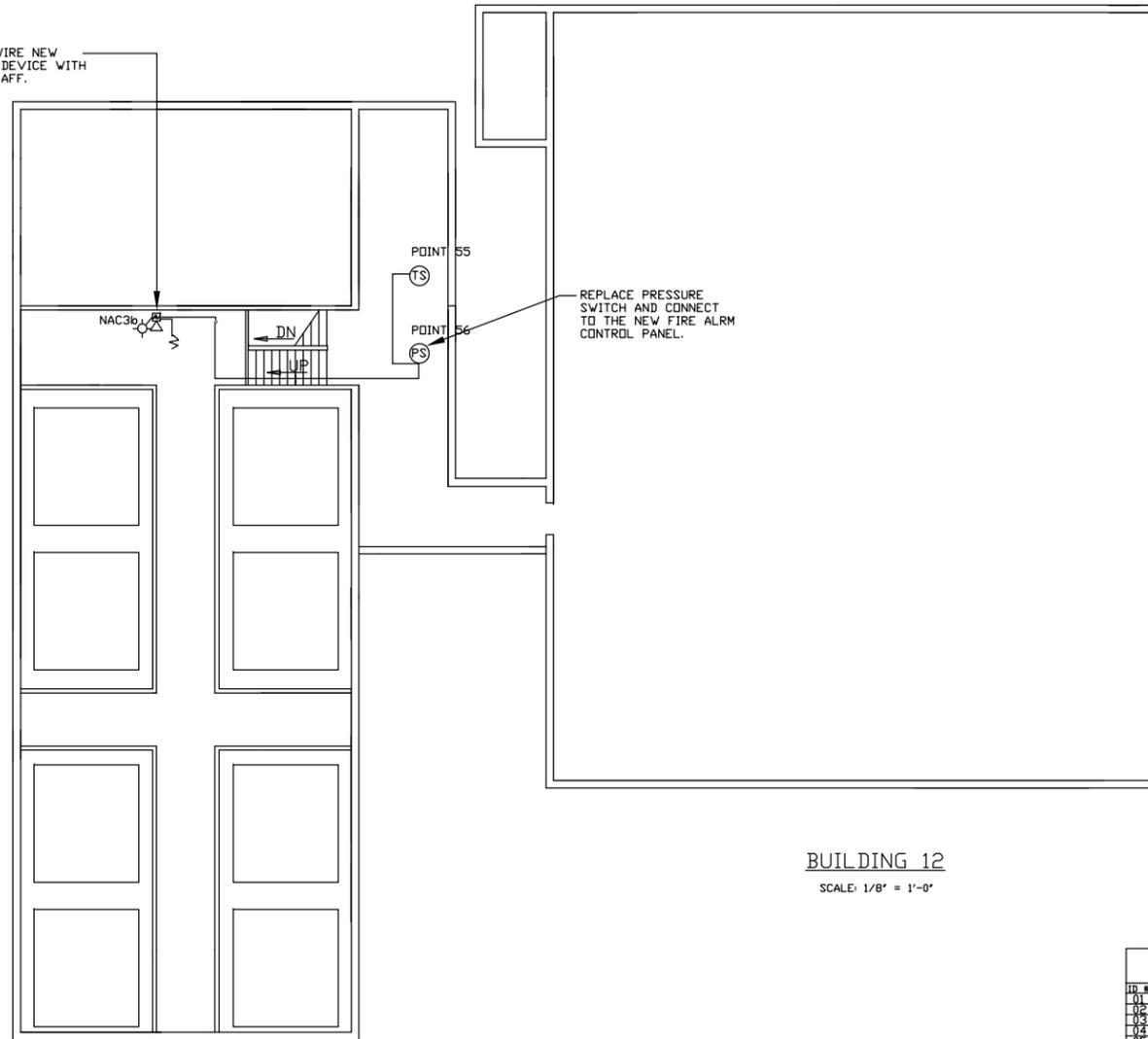
AS BUILT DRAWING

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BENSON ELECTRIC INC. WORKING DRAWINGS
 SEE SHEET 9 OF 9 FOR WIRING DETAILS
 MAB 11/19/99

REVISIONS			
SYMBOL	DESCRIPTION	BY	DATE
	AS BUILT DRAWINGS	MAB	02/06/2000

INSTALL AND WIRE NEW
 AUDIO/VISUAL DEVICE WITH
 BACK BOX 84" AFF.
 (TYPICAL)

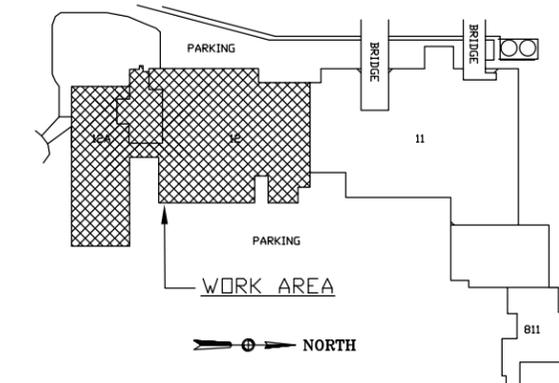


POWER HOUSE
 BLDG. NO. 11

BUILDING 12A
 SCALE: 1/8" = 1'-0"

BUILDING 12
 SCALE: 1/8" = 1'-0"

ID #	LOCATION	ID #	LOCATION
01	PULL STATION BLDG. 11 SET FL. 10	34	SPACE
02	PULL STATION BLDG. 11 SET FL. 10	35	SPACE
03	PULL STATION BLDG. 11 SET FL. 10	36	SPACE
04	PULL STATION BLDG. 11 SET FL. 10	37	SPACE
05	PULL STATION BLDG. 11 SET FL. 10	38	SPACE
06	PULL STATION BLDG. 11 SET FL. 10	39	SPACE
07	PULL STATION BLDG. 11 SET FL. 10	40	SPACE
08	SMOKE DET. BLDG. 11 ELEVATOR SHFT	41	PS BLDG. 11 SET FL. 10 IN WEST EXIT
09	SPACE	42	PS BLDG. 11 SET FL. 10 EAST EXIT
10	SPACE	43	PS BLDG. 11 SET FL. 10 WEST EXIT
11	PS BLDG. 11 BLDG. 11 LADDER	44	PS BLDG. 11 SET FL. 10 IN WEST EXIT
12	PS BLDG. 11 BLDG. 11 LADDER	45	PS BLDG. 11 SET FL. 10 IN WEST EXIT
13	PS BLDG. 11 BLDG. 11 LADDER	46	PS BLDG. 11 SET FL. 10 IN WEST EXIT
14	PS BLDG. 11 BLDG. 11 LADDER	47	PS BLDG. 11 SET FL. 10 IN WEST EXIT
15	PS BLDG. 11 BLDG. 11 LADDER	48	PS BLDG. 11 SET FL. 10 IN WEST EXIT
16	PULL STATION BLDG. 11 SET FL. 10	49	PS BLDG. 11 SET FL. 10
17	SMOKE DET. BLDG. 11 ELEVATOR SHFT	50	PS BLDG. 11 SET FL. 10 CORN. SHFT
18	SPACE	51	PS BLDG. 11 SET FL. 10 WEST EXIT
19	SPACE	52	PS BLDG. 11 SET FL. 10 EAST EXIT
20	PS BLDG. 11 BLDG. 11 EXIT	53	PS BLDG. 11 SET FL. 10 CORN. SHFT
21	SMOKE DET. BLDG. 11 IN FL. CORN. SH.	54	PS BLDG. 11 SET FL. 10 WEST EXIT
22	PS BLDG. 11 IN FL. CORN. SH.	55	PS BLDG. 11 SET FL. 10 WEST EXIT
23	PS BLDG. 11 IN FL. CORN. SH.	56	PS BLDG. 11 SET FL. 10 WEST EXIT
24	SMOKE DET. BLDG. 11 ELEVATOR SHFT	57	PS BLDG. 11 SET FL. 10 WEST EXIT
25	SPACE	58	SPACE
26	SPACE	59	SPACE
27	SMOKE DET. BLDG. 11 ELEVATOR SHFT	60	SPACE
28	PS BLDG. 11 ELEVATOR SHFT	61	SPACE
29	PS BLDG. 11 IN FL. CORN. SH.	62	SPACE
30	PS BLDG. 11 IN FL. CORN. SH.	63	SPACE
31	PS BLDG. 11 IN FL. CORN. SH.	64	SPACE
32	PS BLDG. 11 IN FL. CORN. SH.	65	SPACE
33	PS BLDG. 11 IN FL. CORN. SH.	66	SPACE



ALL CONDUIT ON THIS SHEET IS TO BE EMT

FOR FIRE ALARM DEVICE LEGEND SEE SHEET NO. 2
 LEAND FOR FIRE ALARM NOTES SEE SHEET NO. 3

NOTE:
 Reference Drawing No. 8 of 9
 This drawing is provided for reference purposes and general information only. It may contain errors and/or discrepancies and should not be relied upon to be 100% accurate. This drawing is probably outdated and changes are likely to have occurred.

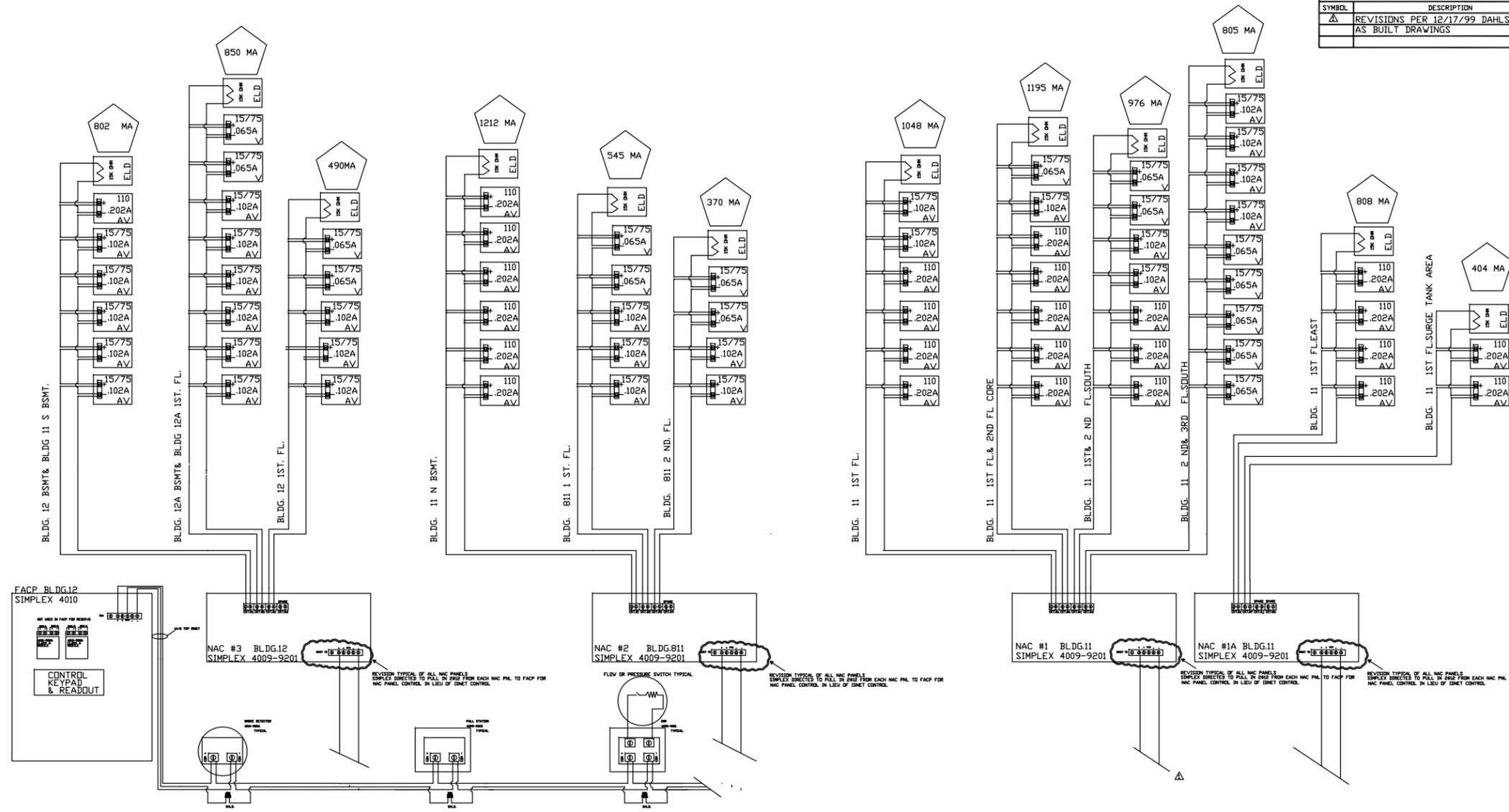
APPROVED	DATE
COMMANDING OFFICER	
APPROVED FOR COMMAND	DATE
CFD FOR COMMANDER NPEC	DATE
SATISFACTORY TO	DATE

PWC DWG NO. B11-03-9908	LEAD CODE 430	WRNO. A07043	DEPARTMENT OF THE NAVY	NAVAL FACILITIES ENGINEERING COMMAND
DIRECTOR PROD. ENGINEERING			NAVY PUBLIC WORKS CENTER GREAT LAKES, IL.	
DESIGN			REVIEW	
DWN	CHK	DATE	INIT	DATE
CIVIL				
MECH				
ELECT	DSS			
ARCH				
CADD	DSS			
FIRE ALARM SYSTEM BUILDINGS 11, 11J, 12, 12A & 811 NTC, GREAT LAKES, IL.			BASEMENT FLOOR PLAN, BUILDING 12 & 12A	
SIZE CODE IDENT. NO.			NAVYAC DRAWING NO.	
F 80091				
SCALE: 1/8"=1'-0"			SHEET 8 OF 9	

AS BUILT DRAWINGS

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REVISIONS				
SYMBOL	DESCRIPTION	BY	DATE	APPROVAL
Δ	REVISIONS PER 12/17/99 DAHLSTROM LTR.	MAB	12/23/99	MAB
	AS BUILT DRAWINGS	MAB	03/04/2000	MAB



- POINT TO POINT NOTES:
1. SIGNAL CIRCUITS ARE ALL RATED AT 2 AMPS.
 2. SPECIFICATION CALL FOR NO MORE THAN 75% LOADING (1.50 AMPS).
 3. EACH SIGNAL CIRCUIT HAS A CALCULATED LOAD INDICATED AT TOP OF STACK.
 4. BATTERY CALCULATIONS ARE INDICATED.
 5. VISUAL UNITS ARE RATED @ 15/75C @ .120 AMPS
 6. AUDIO VISUAL 15/75C ARE RATED @ .120 AMPS
 7. AUDIO VISUAL 110C ARE RATED @ .202 AMPS

PRODUCT	SUPERVISORY CURRENT	PNL ALARM CURRENT	NAC DEVICE CURRENT ALARM	TOTAL ALARM CURRENT	SYSTEM SUP CURRENT 24 HOURS	SYSTEM ALARM CURRENT 15 MIN (<249)	TOTAL AMP HOURS REQ BY SPEC	TOTAL AMP HOURS SUPPLIED
SIMPLEX 4010 FACP	370MA	470MA	NOT USED	470 MA	8.880 AMP	.117 AMP	9 AH	12.7 AH
SIMPLEX 4009 NAC #1	85 MA	185MA	4024MA	4209 MA	2.040 AMP	1.048 AMP	3.52 AH	6.2 AH
SIMPLEX 4009 NAC #1A	85 MA	185MA	1212MA	1397 MA	2.040 AMP	.35 AMP	2.39 AH	6.2 AH
SIMPLEX 4009 NAC #2	85 MA	185MA	2127MA	2312 MA	2.040 AMP	.58 AMP	2.62 AH	6.2 AH
SIMPLEX 4009 NAC #3	85 MA	185MA	2142MA	2327 MA	2.040 AMP	.58 AMP	2.62 AH	6.2 AH

FOR FIRE ALARM LEGEND SEE SHEET NO. 2 AND FOR FIRE ALARM NOTES SEE SHEET NO. 3

NOTE:
Reference Drawing No. 9A of 9
This drawing is provided for reference purposes and general information only. It may contain errors and/or discrepancies and should not be relied upon to be 100% accurate. This drawing is probably outdated and changes are likely to have occurred.

APPROVED	DATE	
COMMANDING OFFICER		
APPROVED FOR COMMAND	DATE	
CFD FOR COMMANDER NPEC		
SATISFACTORY TO	DATE	
CADD	DSS	

PWC DWG NO. B11-03-9909
LEAD CODE 430 WRNO. A07043
DIRECTOR PROD. ENGINEERING

REVIEW

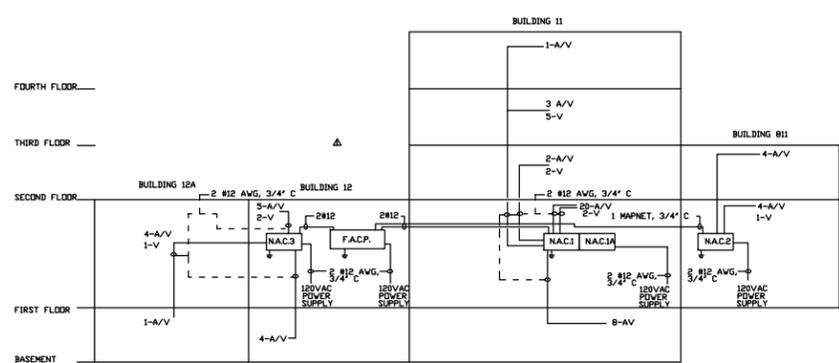
DESIGN	REVIEW
DWN	CHK
DATE	INIT
DATE	DATE

NAVY FACILITIES ENGINEERING COMMAND
NAVY PUBLIC WORKS CENTER GREAT LAKES, IL.
FIRE ALARM SYSTEM
BUILDINGS 11,11J,12,12A,&811
NTC, GREAT LAKES, IL.
POINT TO POINT DRAWING

SIZE CODE IDENT. NO. NAVYFAC DRAWING NO.
F 80091
SCALE: 1/8"=1'-0" SPEC SHEET 9A OF 9

AS BUILT DRAWINGS

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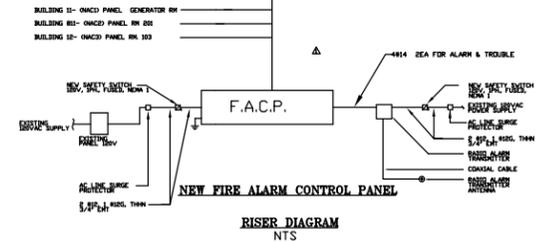
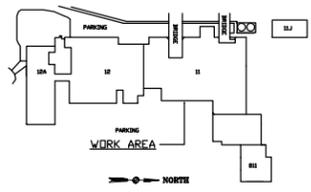
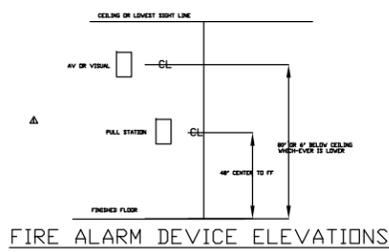


REVISIONS				
SYMBOL	DESCRIPTION	BY	DATE	APPROVAL
Δ	REVISIONS PER 12/17/99_DHH,STROM LTR. AS BUILT DRAWING	MAB	12/17/99	MAB
		MAB		MAB

- JUNCTION BOXES RULES**
1. SPLICES WILL BE IN DEEP BOXES WITH TERMINAL STRIPS
 2. SIGNAL CKTS. AND MAPNET CKTS ARE NOT TO BE SPLICED IN COMMON BOXES
 3. JUNCTION BOX COVERS ARE TO BE PAINTED RED AND IDENTIFIED
- CONDUIT RULES**
1. ALL CONDUIT TO BE MARKED WITH "FIRE ALARM" TAG EVERY 20'
 2. CONDUIT TO BE GRC IN BLDG 11 AS INDICATED USING THREADED AND COMPRESSION HD THREAD STEEL FITTINGS WITH BUSHINGS
 3. EMT SHALL BE USED IN ALL OTHER LOCATIONS USING STEEL COMPRESSION FITTINGS WITH BUSHINGS.
- WIRING RULES**
1. ALL SIGNAL WIRE TO BE #12 THWN BLACK AND RED AND IDENTIFIED AT ALL OPEN LOCATIONS INDICATING NAC PNL # AND CKT #
 2. MAPNET WIRE SHALL BE BELDEN; "9581" 2#14 TWISTED SHIELDED

FIRE ALARM SYSTEM ADDRESS LOCATOR			
ID #	LOCATION	ID #	LOCATION
101	SMALL ADDRESS MARK IN BLDG 10A	25	SMALL
102	SMALL ADDRESS MARK IN BLDG 10A	26	SMALL
103	SMALL ADDRESS MARK IN BLDG 10A	27	SMALL
104	SMALL ADDRESS MARK IN BLDG 10A	28	SMALL
105	SMALL ADDRESS MARK IN BLDG 10A	29	SMALL
106	SMALL ADDRESS MARK IN BLDG 10A	30	SMALL
107	SMALL ADDRESS MARK IN BLDG 10A	31	SMALL
108	SMALL ADDRESS MARK IN BLDG 10A	32	SMALL
109	SMALL ADDRESS MARK IN BLDG 10A	33	SMALL
110	SMALL ADDRESS MARK IN BLDG 10A	34	SMALL
111	SMALL ADDRESS MARK IN BLDG 10A	35	SMALL
112	SMALL ADDRESS MARK IN BLDG 10A	36	SMALL
113	SMALL ADDRESS MARK IN BLDG 10A	37	SMALL
114	SMALL ADDRESS MARK IN BLDG 10A	38	SMALL
115	SMALL ADDRESS MARK IN BLDG 10A	39	SMALL
116	SMALL ADDRESS MARK IN BLDG 10A	40	SMALL
117	SMALL ADDRESS MARK IN BLDG 10A	41	SMALL
118	SMALL ADDRESS MARK IN BLDG 10A	42	SMALL
119	SMALL ADDRESS MARK IN BLDG 10A	43	SMALL
120	SMALL ADDRESS MARK IN BLDG 10A	44	SMALL
121	SMALL ADDRESS MARK IN BLDG 10A	45	SMALL
122	SMALL ADDRESS MARK IN BLDG 10A	46	SMALL
123	SMALL ADDRESS MARK IN BLDG 10A	47	SMALL
124	SMALL ADDRESS MARK IN BLDG 10A	48	SMALL
125	SMALL ADDRESS MARK IN BLDG 10A	49	SMALL
126	SMALL ADDRESS MARK IN BLDG 10A	50	SMALL
127	SMALL ADDRESS MARK IN BLDG 10A	51	SMALL
128	SMALL ADDRESS MARK IN BLDG 10A	52	SMALL
129	SMALL ADDRESS MARK IN BLDG 10A	53	SMALL
130	SMALL ADDRESS MARK IN BLDG 10A	54	SMALL
131	SMALL ADDRESS MARK IN BLDG 10A	55	SMALL
132	SMALL ADDRESS MARK IN BLDG 10A	56	SMALL
133	SMALL ADDRESS MARK IN BLDG 10A	57	SMALL
134	SMALL ADDRESS MARK IN BLDG 10A	58	SMALL
135	SMALL ADDRESS MARK IN BLDG 10A	59	SMALL
136	SMALL ADDRESS MARK IN BLDG 10A	60	SMALL
137	SMALL ADDRESS MARK IN BLDG 10A	61	SMALL
138	SMALL ADDRESS MARK IN BLDG 10A	62	SMALL
139	SMALL ADDRESS MARK IN BLDG 10A	63	SMALL
140	SMALL ADDRESS MARK IN BLDG 10A	64	SMALL
141	SMALL ADDRESS MARK IN BLDG 10A	65	SMALL
142	SMALL ADDRESS MARK IN BLDG 10A	66	SMALL
143	SMALL ADDRESS MARK IN BLDG 10A	67	SMALL
144	SMALL ADDRESS MARK IN BLDG 10A	68	SMALL
145	SMALL ADDRESS MARK IN BLDG 10A	69	SMALL
146	SMALL ADDRESS MARK IN BLDG 10A	70	SMALL
147	SMALL ADDRESS MARK IN BLDG 10A	71	SMALL
148	SMALL ADDRESS MARK IN BLDG 10A	72	SMALL
149	SMALL ADDRESS MARK IN BLDG 10A	73	SMALL
150	SMALL ADDRESS MARK IN BLDG 10A	74	SMALL
151	SMALL ADDRESS MARK IN BLDG 10A	75	SMALL
152	SMALL ADDRESS MARK IN BLDG 10A	76	SMALL
153	SMALL ADDRESS MARK IN BLDG 10A	77	SMALL
154	SMALL ADDRESS MARK IN BLDG 10A	78	SMALL
155	SMALL ADDRESS MARK IN BLDG 10A	79	SMALL
156	SMALL ADDRESS MARK IN BLDG 10A	80	SMALL
157	SMALL ADDRESS MARK IN BLDG 10A	81	SMALL
158	SMALL ADDRESS MARK IN BLDG 10A	82	SMALL
159	SMALL ADDRESS MARK IN BLDG 10A	83	SMALL
160	SMALL ADDRESS MARK IN BLDG 10A	84	SMALL
161	SMALL ADDRESS MARK IN BLDG 10A	85	SMALL
162	SMALL ADDRESS MARK IN BLDG 10A	86	SMALL
163	SMALL ADDRESS MARK IN BLDG 10A	87	SMALL
164	SMALL ADDRESS MARK IN BLDG 10A	88	SMALL
165	SMALL ADDRESS MARK IN BLDG 10A	89	SMALL
166	SMALL ADDRESS MARK IN BLDG 10A	90	SMALL
167	SMALL ADDRESS MARK IN BLDG 10A	91	SMALL
168	SMALL ADDRESS MARK IN BLDG 10A	92	SMALL
169	SMALL ADDRESS MARK IN BLDG 10A	93	SMALL
170	SMALL ADDRESS MARK IN BLDG 10A	94	SMALL
171	SMALL ADDRESS MARK IN BLDG 10A	95	SMALL
172	SMALL ADDRESS MARK IN BLDG 10A	96	SMALL
173	SMALL ADDRESS MARK IN BLDG 10A	97	SMALL
174	SMALL ADDRESS MARK IN BLDG 10A	98	SMALL
175	SMALL ADDRESS MARK IN BLDG 10A	99	SMALL
176	SMALL ADDRESS MARK IN BLDG 10A	100	SMALL

SEE SHEET 9A FOR POINT TO POINT WIRING



FOR FIRE ALARM LEGEND SEE SHEET NO. 2 AND FOR FIRE ALARM NOTES SEE SHEET NO. 3

NOTE:
Reference Drawing No. _____ of _____
This drawing is prepared for informational purposes and general information only. It is not to be used for construction or installation without the approval of the design engineer. This drawing is subject to change without notice.

APPROVED	DATE
DESIGN	
REVIEW	
CHKD	
ISS	

DESIGN		REVIEW	
DATE	BY	DATE	BY

AS BUILT DRAWING

NOTIFICATION DEVICE LEGEND WITH AVERAGE CURRENT DRAW
15/775 110 250A 1-A/V
15/775 110 250A 1-A/V
15/775 110 250A 1-A/V

