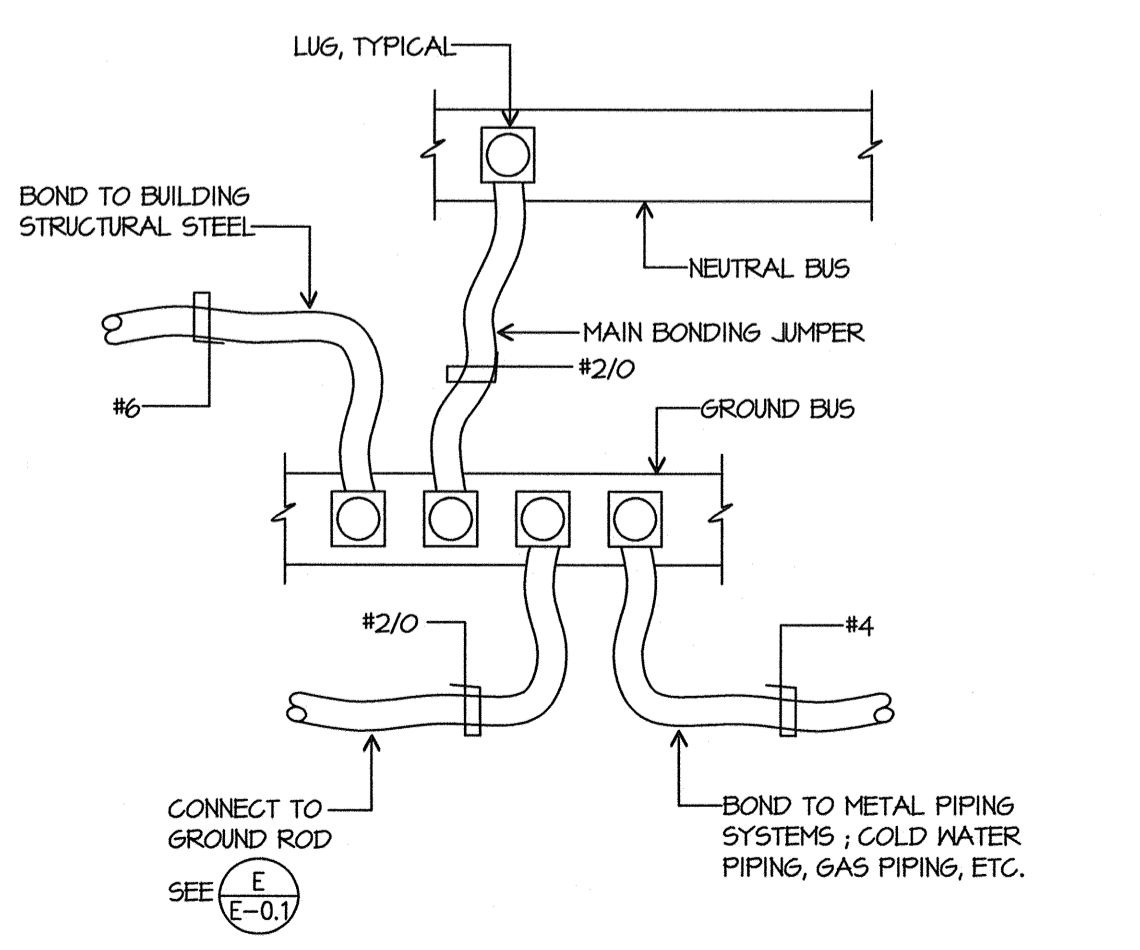


GROUNDING DETAIL NOTES

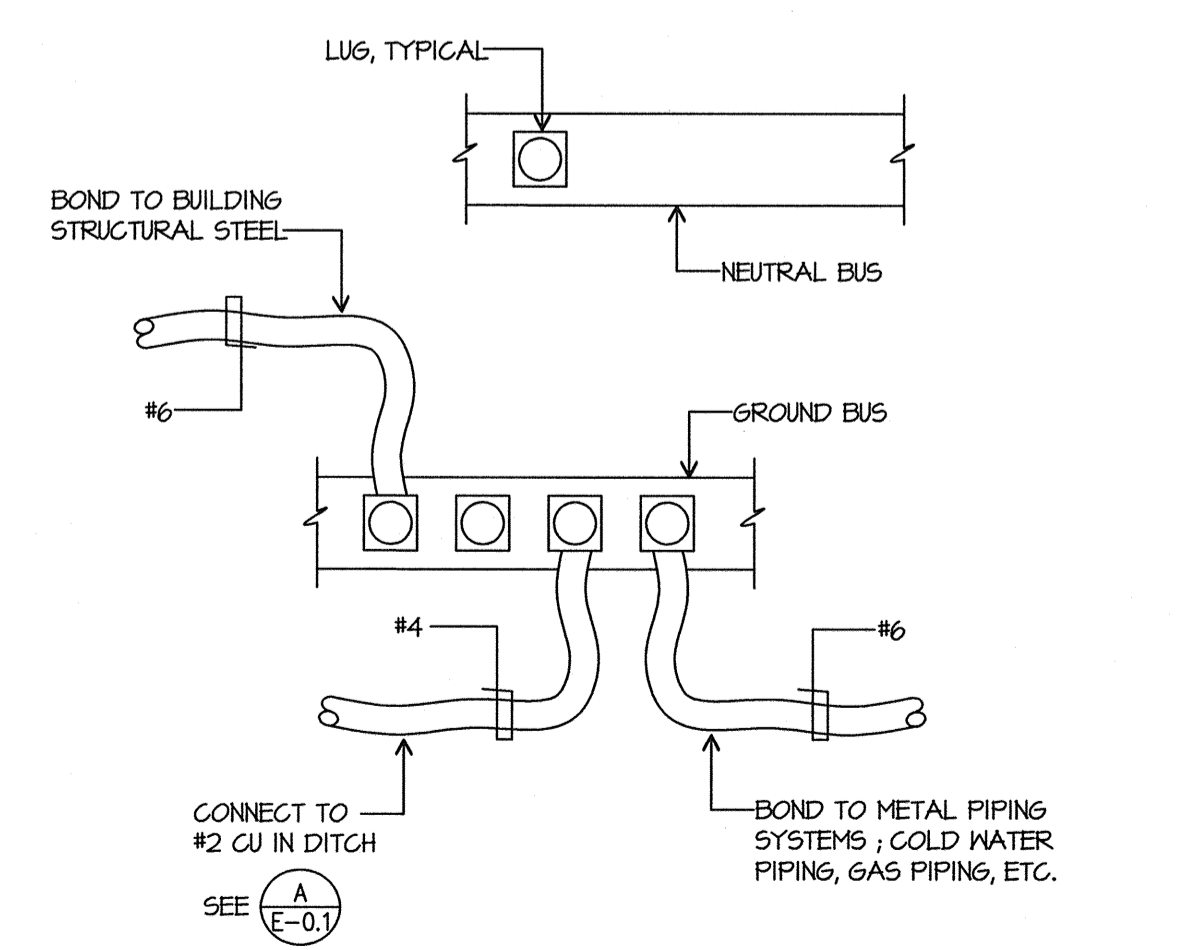
1 COORDINATE LOCATIONS OF WORK SHOWN WITH CIVIL DRAWINGS.

GROUNDING DETAIL

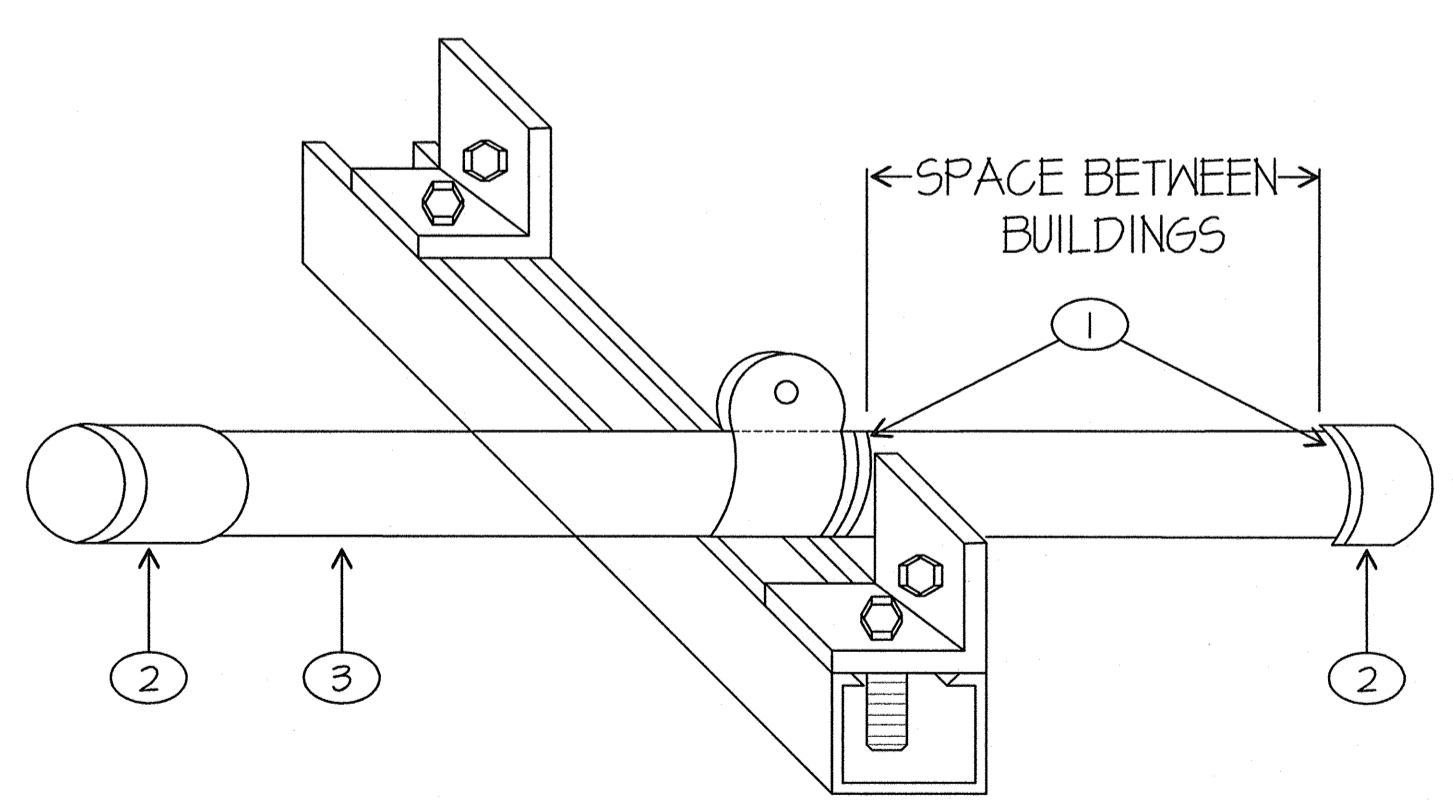
SCALE: 1/8"=1'-0"



BONDING DIAGRAM "MSB"
SCALE: NONE



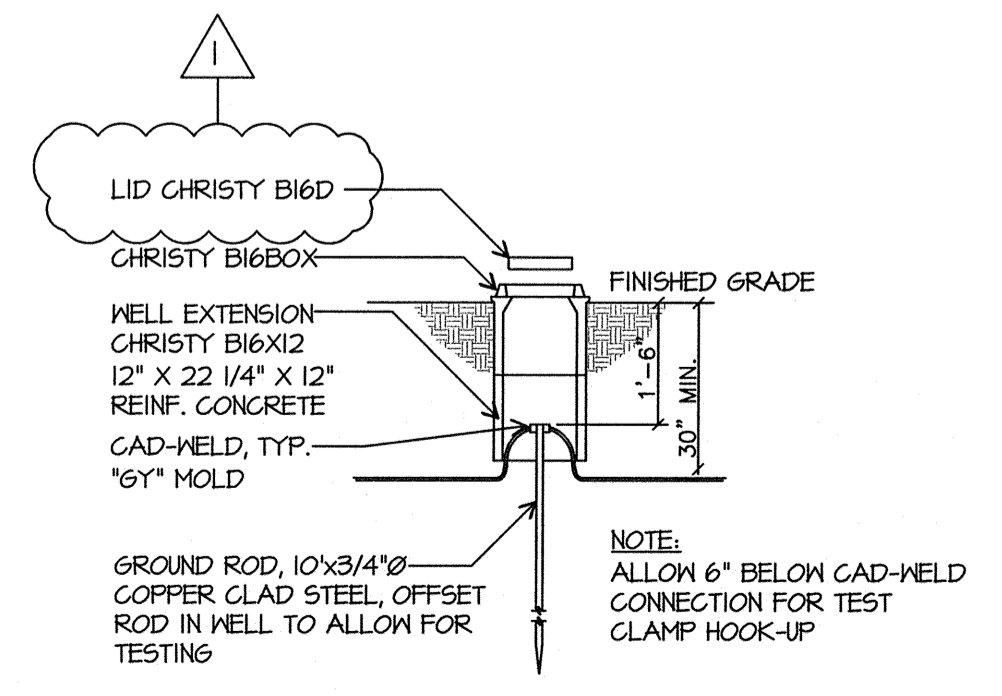
BONDING DIAGRAM PORTABLE PANEL
SCALE: NONE



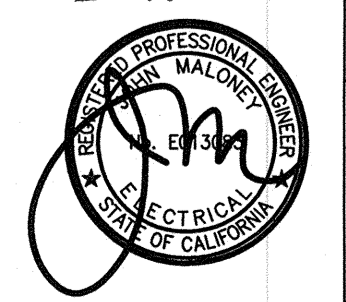
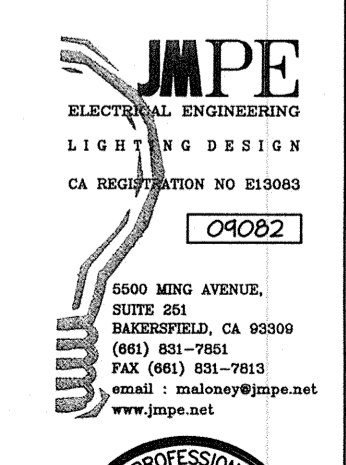
**CONDUIT SLEEVE SUPPORT
WALL MOUNTED UNISTRUT BRACKETS
FOR ONE OR MORE CONDUITS**

SCALE: NONE

1 FOAM FILL AND FIRE CAULK THE WALLS AFTER CONDUITS ARE INSTALLED.
2 INSULATED THROAT SET SCREW CONNECTOR
3 USE OF EMT IS ACCEPTABLE FOR SLEEVE INSTALLATION.



GROUND ACCESS BOX



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Revision	Rev. Date	Rev. Description
1	10/15/09	ADDED JUM 1
2	01/22/10	CHANGE ORDER

Issue Date: 05/02/06
Date: 05/02/06
Designer: DR
DRAFTER: C.J.M.
FC: C.J.M.

Sheet Title: **SINGLE LINE DIAGRAM, SYMBOLS
DETAILS, GENERAL NOTES**

Project Name & Address: **MUNSEY ELEMENTARY SCHOOLS
10 NEW PORTABLE CLASSROOMS**
BAKERSFIELD CITY SCHOOL DISTRICT
3801 BRAVE AVE. BAKERSFIELD, CA 93309

Issue Date: 05/02/06
Date: 05/02/06
Designer: DR
DRAFTER: C.J.M.
FC: C.J.M.

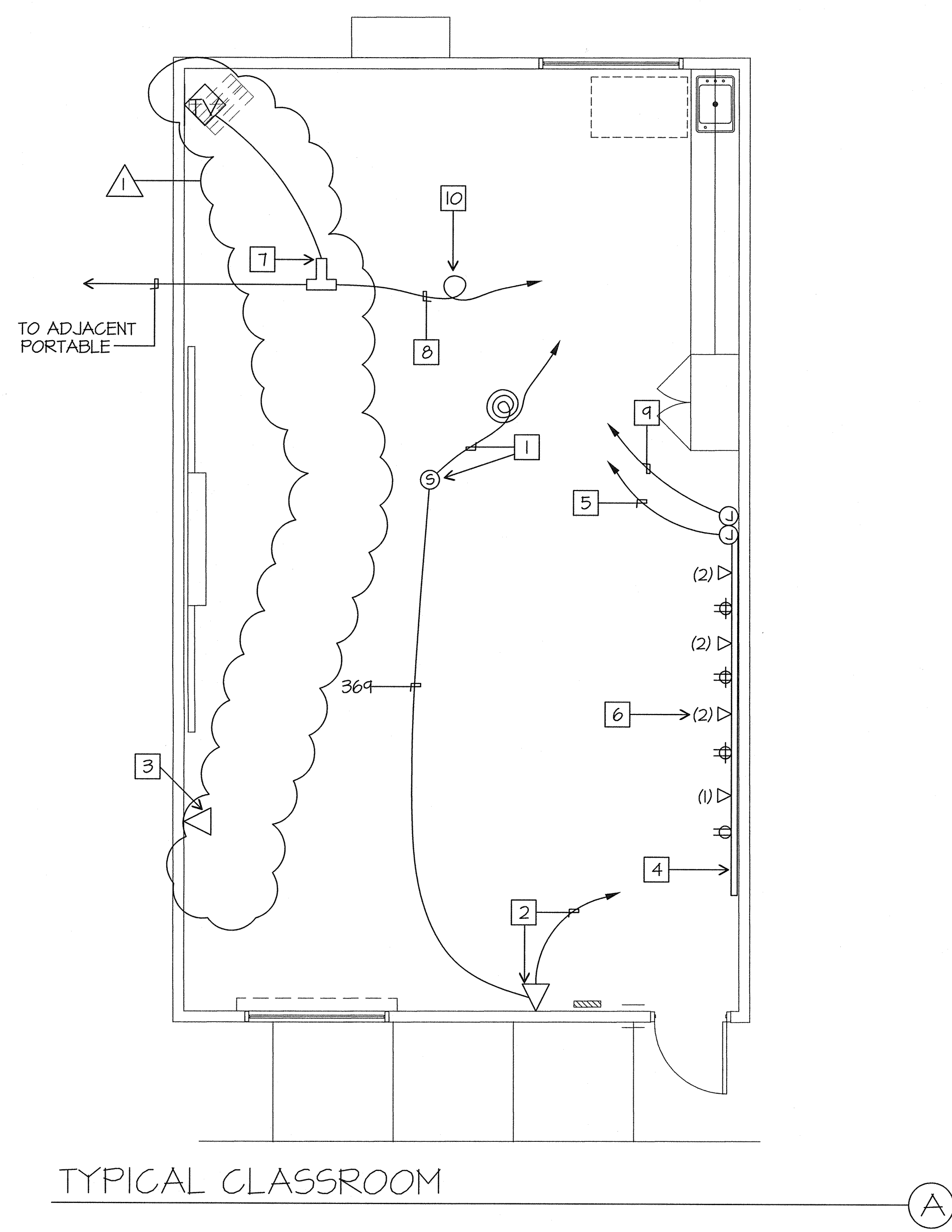
Stamp(s):

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
05-112985
AC DATE
DATE

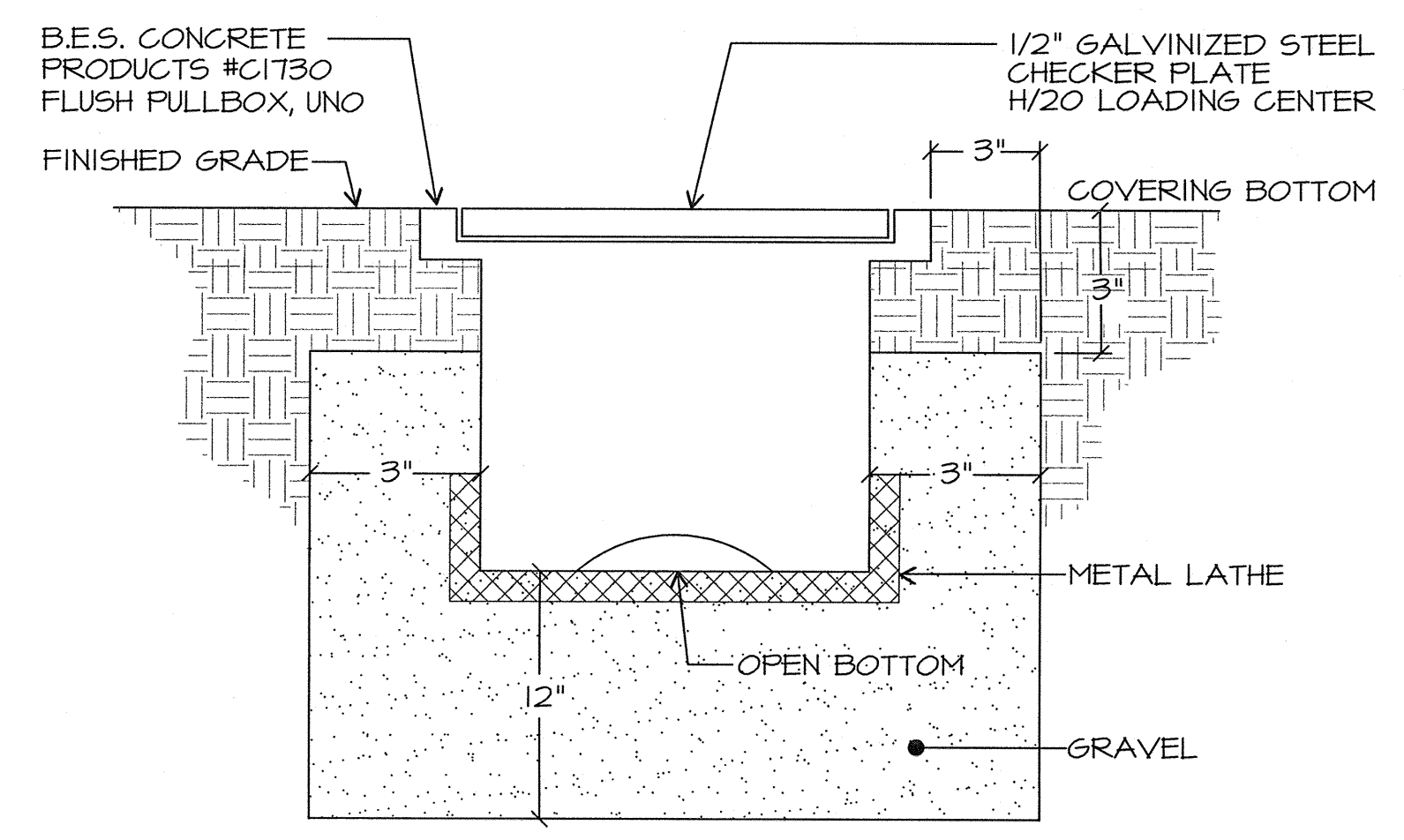
Job No.: **3832**

Sheet No.: **X4-E-0.1**

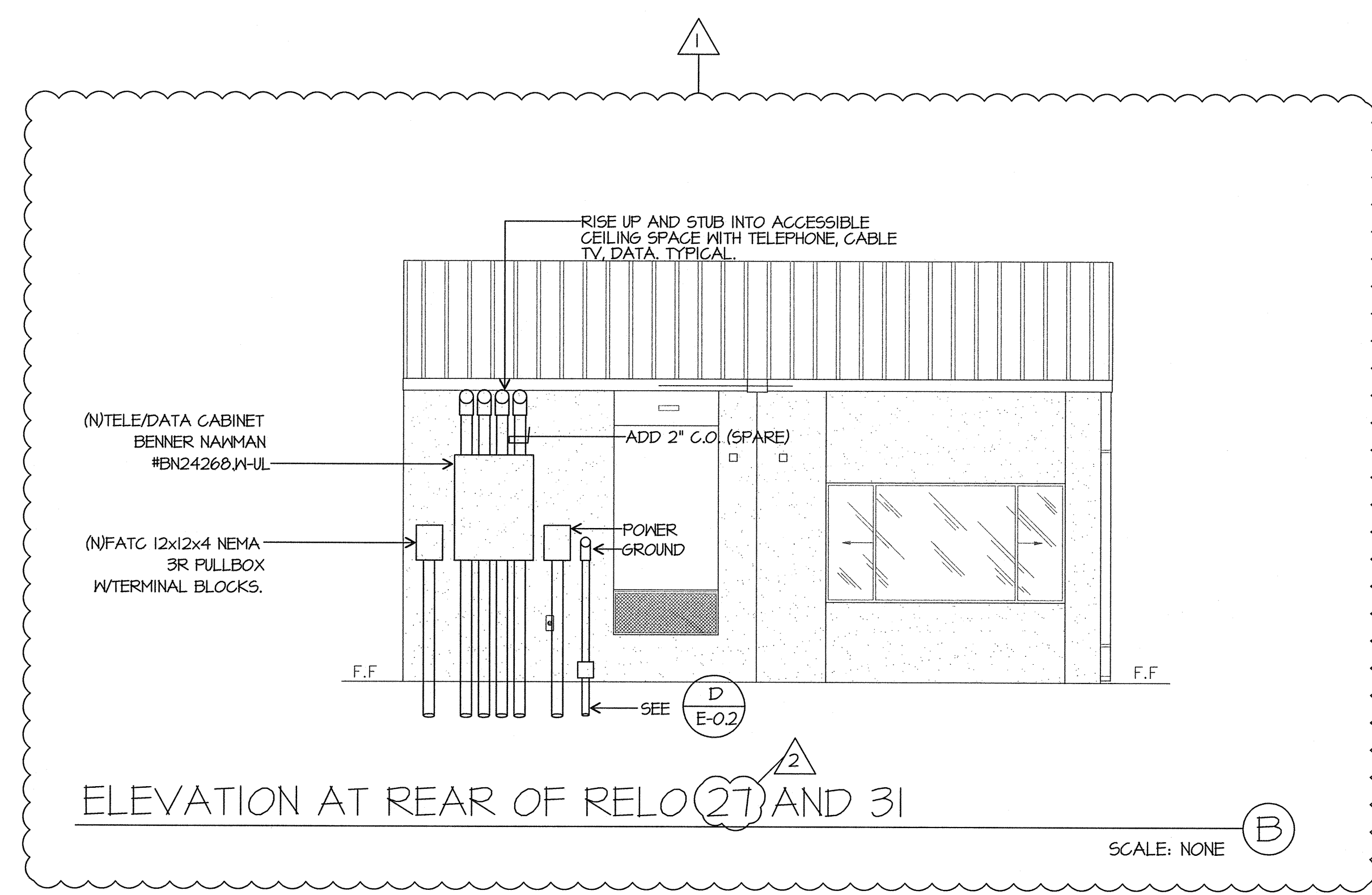
Release: CURTIS MCNALLY



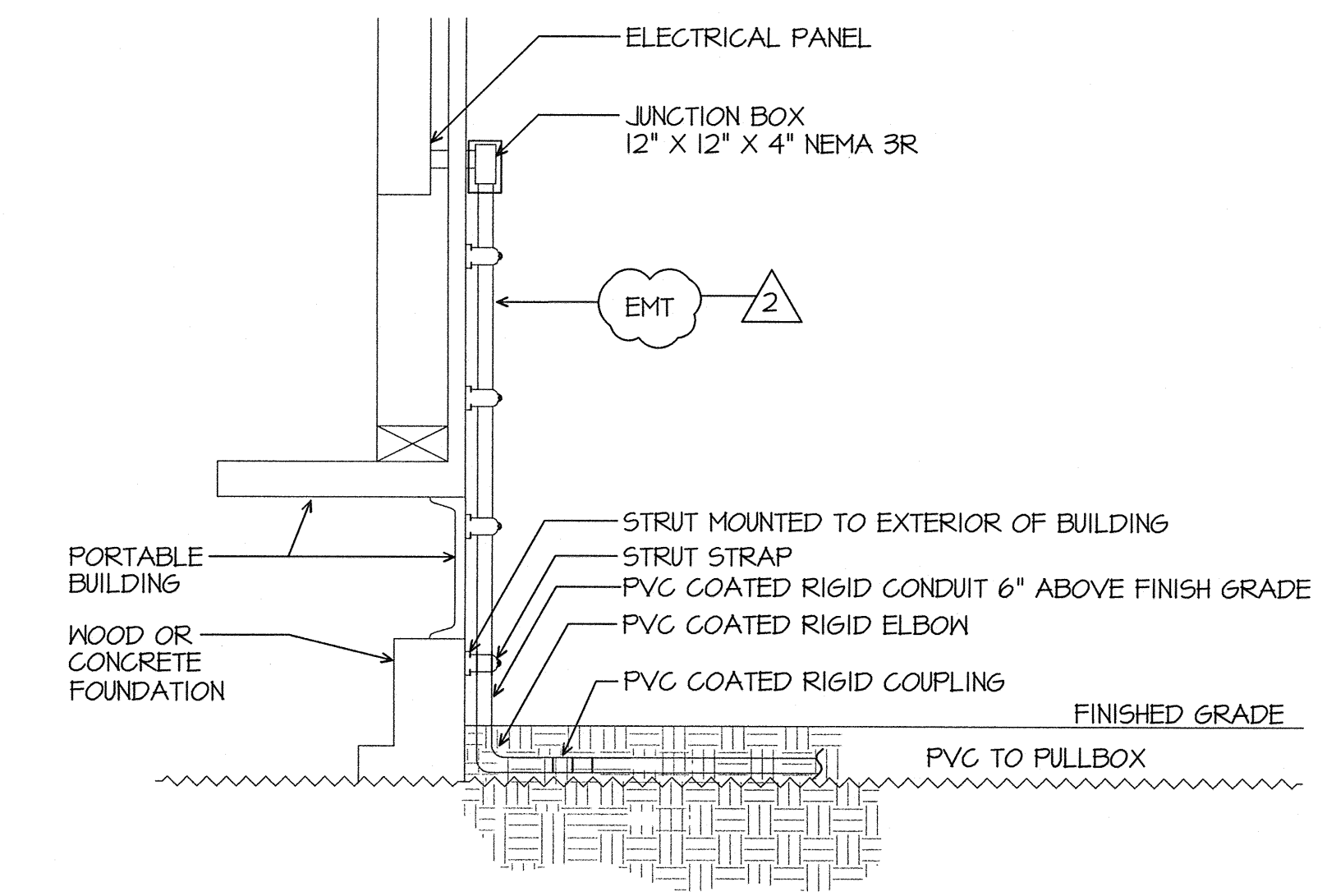
- TYPICAL CLASSROOM NOTES**
- 1 PROVIDE (ATLAS MODEL #SD72-W 25W/70W OR EQUAL) CEILING MOUNTED SPEAKER. PROVIDE A DEDICATED WESTPENN 369 CABLE BACK TO THE TERMINAL CABINET. TERMINATE ON 66 BLOCK. TERMINATE SHIELDED CABLE ON SPEAKER. PROVIDE 3 SERVICE LOOPS OF CABLE AT EACH SPEAKER LOCATION.
 - 2 PROVIDE (CORTEL CO EASYTOUCH MODEL #240085-VOE-21F, COLOR SANDSTONE) TELEPHONE WITH RJ11 JACK AT EXISTING OUTLET. EXTEND 369 CABLE FROM SPEAKER, USE ONE OF TWO PAIR LEFT FOR TELEPHONE CONNECTION. PROVIDE ONE DEDICATED CAT 5 CABLE, (GENERAL CABLE #5500) TO IDF CABINET (FUTURE SPARE).
 - 3 PROVIDE RJ45 DATA JACK AT (E) OUTLET. ROUTE (1) CAT5 CABLE (GENERAL CABLE #5500) BACK TO NEAREST IDF CABINET AND TERMINATE ON PATCH PANEL.
 - 4 SURFACE MOUNT WIREMOLD BRAND, TWO COMPARTMENT 5400 SERIES RACEWAY WITH SPLIT COVER. CONTRACTOR SHALL PROVIDE ALL ACCESSORIES, FITTINGS, FACEPLATES AND DEVICES FOR A COMPLETE SYSTEM. COORDINATE EXACT LOCATION WITH ROBERT VAN TASSLE, SUPERVISOR, PLANNING AND CONSTRUCTION BAKERSFIELD CITY SCHOOL DISTRICT, 661-631-5884. MOUNT AT 18" A.F.F.
 - 5 PROVIDE (7) CAT5 CABLES BACK TO CLOSEST IDF AND TERMINATE ON PATCH PANEL.
 - 6 NUMBER SIGNIFIES THE QUANTITY OF RJ45 JACKS AT DATA LOCATION. CONTRACTOR SHALL PROVIDE AND INSTALL CABLE, JACKS AND TERMINATIONS.
 - 7 PROVIDE BLONDER TONGUE T-TAPS WITH QUAD SHIELD COMPRESSION TERMINATIONS. CABLE CONTINUES TO ADJACENT PORTABLE CLASSROOM. INTERIOR TV CABLE SHALL BE RG6 QUAD SHIELD CABLE. PROVIDE 12' OF EXTRA CABLE PER CLASSROOM. COORDINATE WITH GARY TAYLOR, NETWORK SYSTEMS ENGINEER FOR BAKERSFIELD CITY SCHOOL DISTRICT, 661-631-4745.
 - 8 FROM COMMUNICATION TERMINAL CABINET.
 - 9 TO SPARE 120V CIRCUIT IN CLASSROOM PANEL. PROVIDE 20/1 CIRCUIT BREAKER AS NEEDED.
 - 10 PROVIDE 2' SERVICE LOOP, TYPICAL.



FLUSH PULLBOX DETAIL
SCALE: NONE (C)



ELEVATION AT REAR OF RELO 27 AND 31
SCALE: NONE (B)



TYPICAL PORTABLE CONNECTION
SCALE: NONE (D)

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Revision	Description	Rev. Date
1	ADDENDUM 1	10/15/09
2	CHANGE ORDER	01/22/10

Sheet Title:
**SINGLE LINE DIAGRAM, SYMBOLS
DETAILS, GENERAL NOTES**

Project Name & Address:
**MUNSEY ELEMENTARY SCHOOL
10 NEW PORTABLE CLASSROOMS**
BAKERSFIELD CITY SCHOOL DISTRICT
3801 BRAVE AVE. BAKERSFIELD, CA 93309

Issue Date:	Date:	Designer:	DR:	FC:
	05/02/06			
		DRAFTER:		

DSA Identification Stamp:

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DIV. OF THE STATE ARCHITECT
03-112985
AC FLS SS
DATE 2/10/10

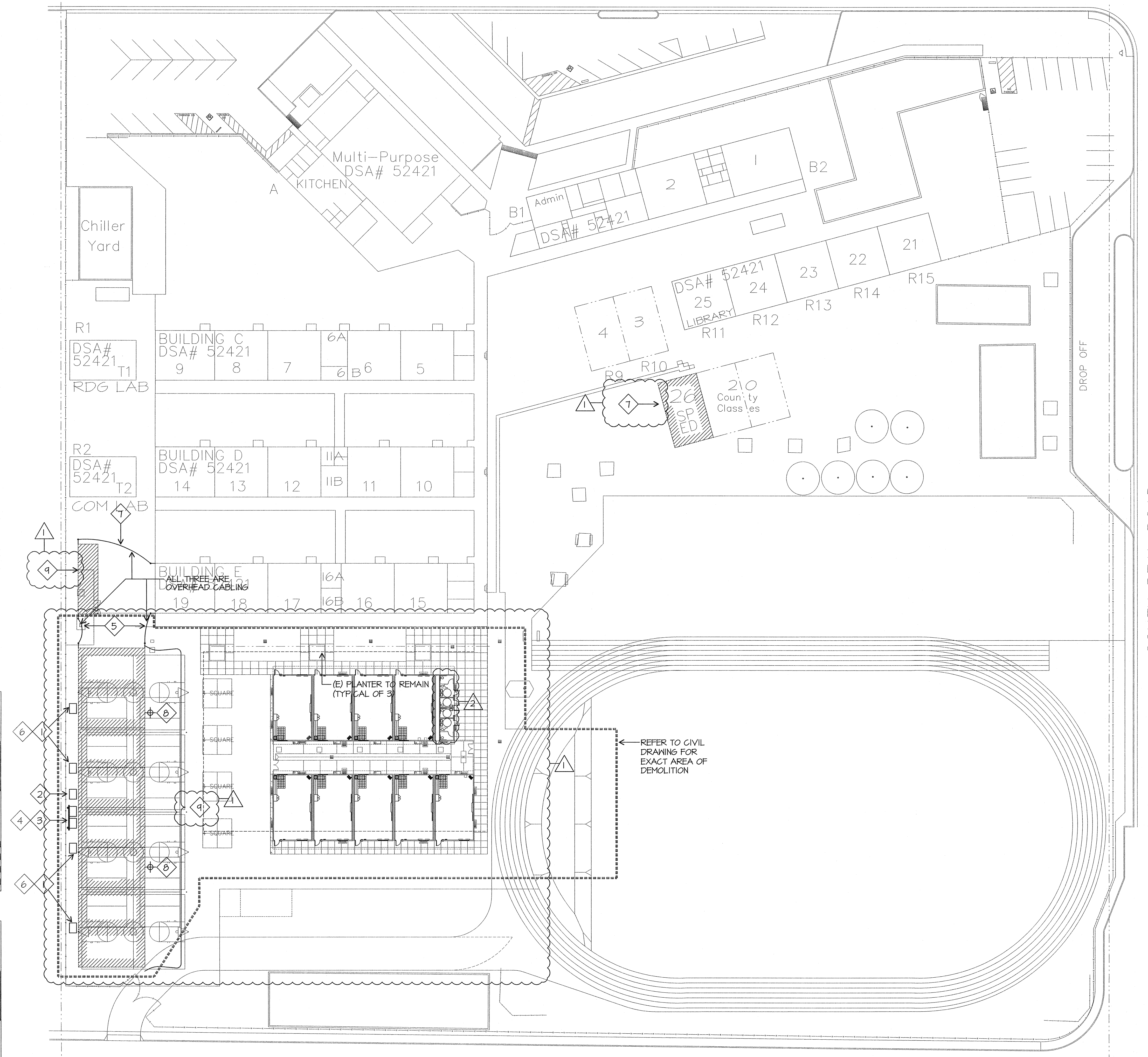
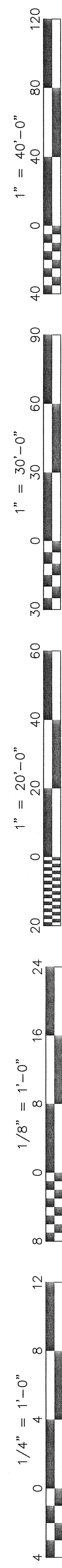
Stamp(s):

REGISTERED PROFESSIONAL ARCHITECT
JIMMY E. FLYNN
No. C 28966
STATE OF CALIFORNIA
09082

Job No.: **3832**

Sheet No.: **X5-E-0.2**

JMPE
REGISTERED PROFESSIONAL ELECTRICAL ENGINEER
5050 MIDWAY AVENUE, SUITE 200
BAKERSFIELD, CA 93309
(805) 961-7961
FAX (805) 961-7913
email: maloney@jmpe.net
www.jmpe.net



- DEMOLITION SITE ELECTRICAL PLAN NOTES**
- 1 REMOVE EXISTING CONDUCTORS FROM RELOCATED BUILDING PANELS AND CONDUITS BACK TO EXISTING CONCRETE PULL BOX.
 - 2 EXISTING CONCRETE PULL BOX TO REMAIN (N-36 PULL BOX.)
 - 3 DISCONNECT EXISTING FEEDER CONDUCTORS AND REMOVE FROM PANEL TO EXISTING CONCRETE PULL BOX. BACKBOARD AND PANELS TO REMAIN.
 - 4 AFTER PG&E HAS DISCONNECTED SERVICE AND REMOVED EXISTING METER, PROVIDE A BLANK METER SOCKET COVER.
 - 5 REMOVE EXISTING OVERHEAD CABLING FROM T4 TO T3 AND T4 TO ROOM 19. CUT CABLES AT T4 AND T3 AND REMOVE ANY RISER. CUT CABLES AT ROOM 19 AND WEATHER PROOF THE CABLE ENDS.
 - 6 REMOVE EXISTING ABOVE GROUND 12 X 12 X 4 NEMA 3R J-BOXES AND UNISTRUT SUPPORTS COMPLETELY. INSTALL (N) N-9 CONCRETE PULL BOXES OVER (E) CONDUITS. SET BOXES FLUSH TO EXISTING GRADE (TYPICAL).
 - 7 REMOVE EXISTING OVERHEAD SERVICE CONDUCTORS FROM T-3 BACK TO ROOM 19. REMOVE AT RISER ON ROOM 19 AND WEATHER PROOF THE CONDUCTOR ENDS. REMOVE RISER FROM PANEL ON T-3.
 - 8 REMOVE EXISTING RISER SUPPORTS AND EXTERIOR FLOOD LIGHTS.
 - 9 EXISTING BUILDING TO REMAIN UNTIL NEW BUILDINGS ARE COMPLETED.

DEMOLITION SITE ELECTRICAL PLAN

SCALE: 1"=30'-0"

JMPE/JOB#:04082/DATE:01-14-10 AG

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Revision	Rev. Date	Rev. Description
1	10/15/09	ADDENDUM 1
2	01/22/10	CHANGE ORDER

Sheet Title: **DEMOLITION SITE ELECTRICAL PLAN**

Issue Date: 05/02/06
 Designer: DR. DRAFTER
 PC: CUM

Project Name & Address:
MUNSEY ELEMENTARY SCHOOL
10 NEW PORTABLE CLASSROOMS
 BAKERSFIELD CITY SCHOOL DISTRICT
 3801 BRAVE AVE. BAKERSFIELD, CA 93309

DSA Identification Stamp:
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 DIV. OF THE STATE ARCHITECT
 03-112985
 AC FLS SS
 DATE 2/10/10

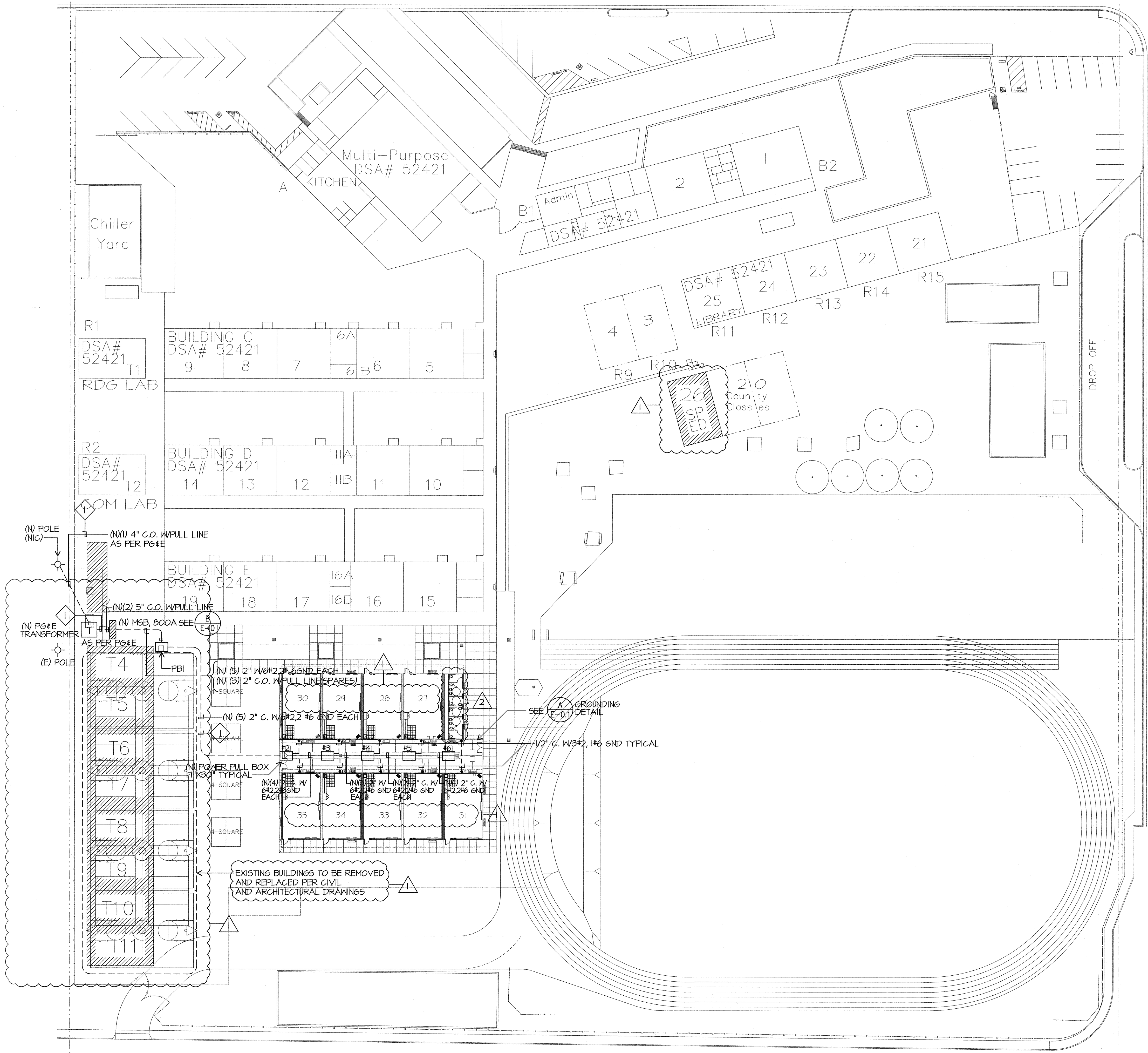
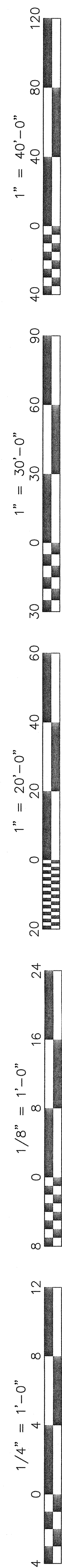
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 JMPE
 LICENSED ELECTRICAL ENGINEERING
 LIGHTING DESIGN
 CA REGISTRATION NO. E13083
 04082
 5500 MING AVENUE,
 SUITE 101
 BAKERSFIELD, CA 93309
 (805) 881-7801
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 email: madmosey@jimppe.net
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Stamp(s):
 CURTIS E. MCNALLY
 LICENSED ARCHITECT
 No. C 28966
 REG. 5-31-09
 STATE OF CALIFORNIA

Job No.: **3832**

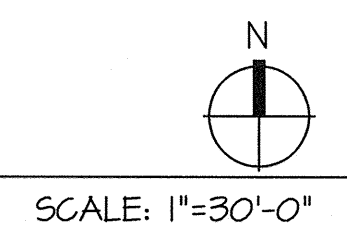
Sheet No.: **X6-E-1**

Release:
 CURTIS MCNALLY



SITE ELECTRICAL PLAN

BELLE TERRACE



ELECTRICAL SITE PLAN NOTES

- 1 SAWCUT AND REPAIR TO MATCH EXISTING. BORING IS AN ACCEPTABLE METHOD OF CONDUIT INSTALLATION. PROVIDE METHOD OF PROCEDURE FOR BORING TO ENGINEER FOR REVIEW AND APPROVAL. DETAIL BORING PROCEDURE. IDENTIFY TYPE OF CONDUIT TO BE USED IN BORE.

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Revision	Rev. Date	Rev. Description
1	10/15/09	ADDENDUM 1
2	01/22/10	CHANGE ORDER

Sheet Title:
SITE ELECTRICAL PLAN

Project Name & Address:
MUNSEY ELEMENTARY SCHOOLS
10 NEW PORTABLE CLASSROOMS
 BAKERSFIELD CITY SCHOOL DISTRICT
 3801 BRAVE AVE. BAKERSFIELD, CA 93309

Issue Date:	Date:	Designer:	DR:	DRAFTER:	FC:
	05/02/06	DESIGNER		DRAFTER	CJM

DSA Identification Stamp:

Stamp(s):

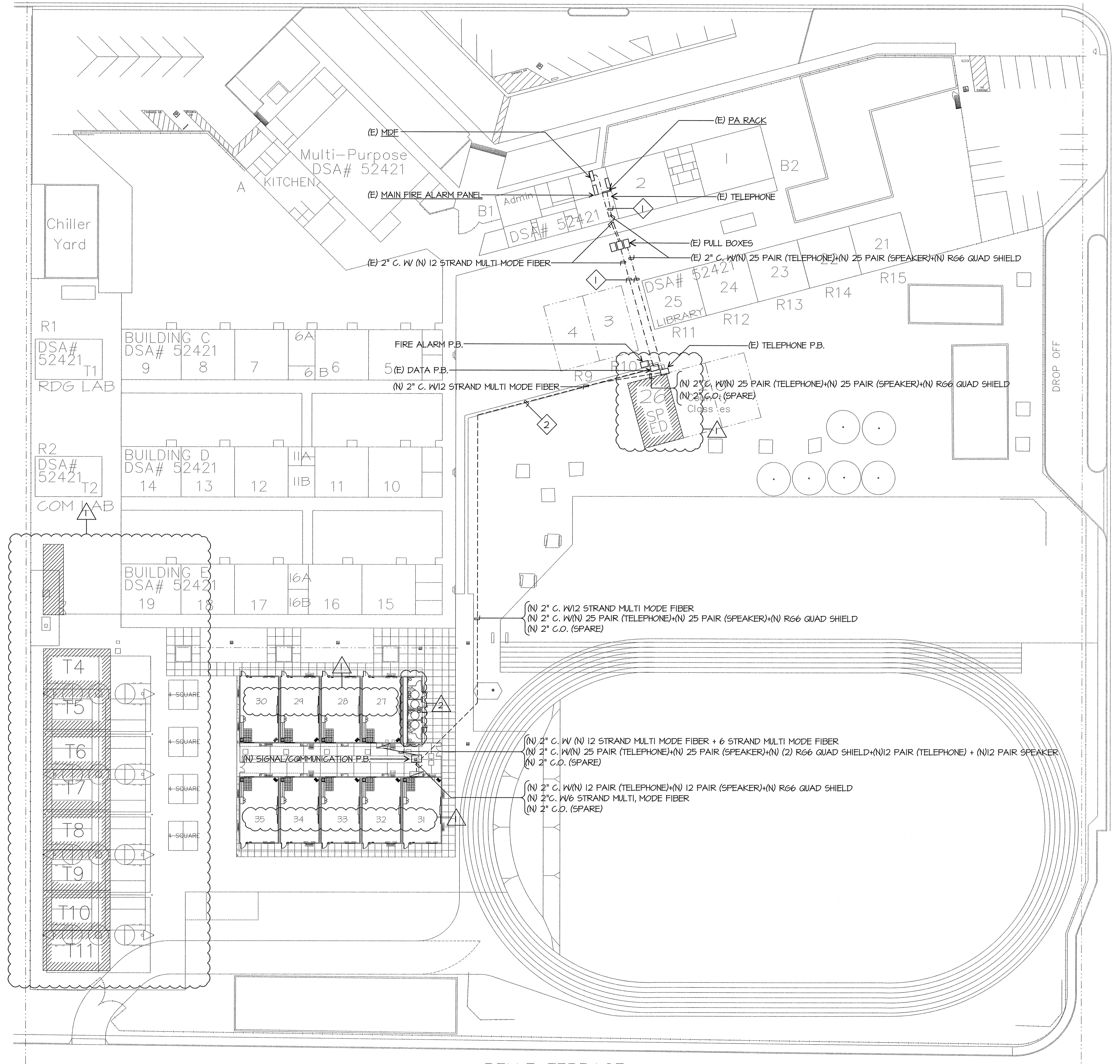
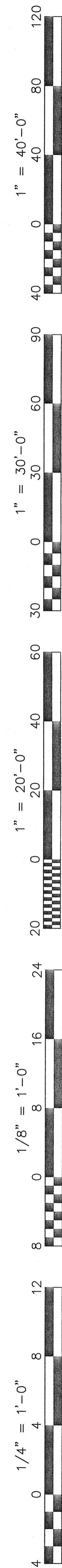
Job No.: **3832**

Sheet No.: **X7-E-1.1**

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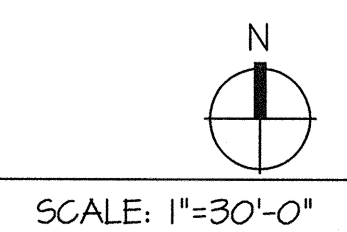
JMPE
 LICENSED PROFESSIONAL ENGINEER
 ELECTRICAL ENGINEERING
 LIGHTING DESIGN
 CA REGISTRATION NO. 813003
 09082

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 FAX (805) 831-7913
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- SITE COMMUNICATION PLAN NOTES**
- 1 PULL NEW CABLES IN EXISTING CONDUIT. PULL PAST EXISTING CABLES.
 - 2 SAWCUT AND REPAIR TO MATCH EXISTING. BORING IS AN ACCEPTABLE METHOD OF CONDUIT INSTALLATION. PROVIDE METHOD OF PROCEDURE FOR BORING TO ENGINEER FOR REVIEW AND APPROVAL. DETAIL BORING PROCEDURE. IDENTIFY TYPE OF CONDUIT TO BE USED IN BORE.

SITE COMMUNICATION PLAN



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Rev. No.	Rev. Date	Rev. Description
1	10/15/09	ADDENDUM 1
2	01/22/10	CHANGE ORDER

Issue Date: 05/02/06
 Date: 05/02/06
 Designer: DR
 Drafter: FC
 P.C.: CJM

Project Name & Address:
MUNSEY ELEMENTARY SCHOOL
10 NEW PORTABLE CLASSROOMS
 BAKERSFIELD CITY SCHOOL DISTRICT
 3801 BRAVE AVE. BAKERSFIELD, CA 93309

Issue Date: 05/02/06
 Date: 05/02/06
 Designer: DR
 Drafter: FC
 P.C.: CJM

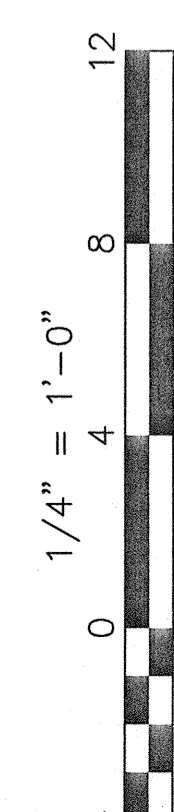
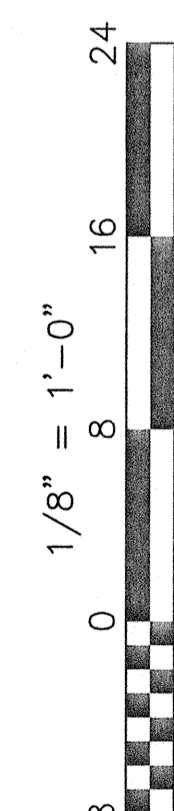
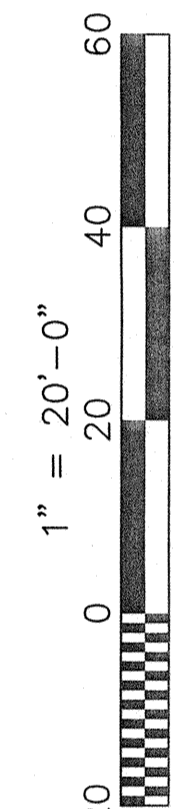
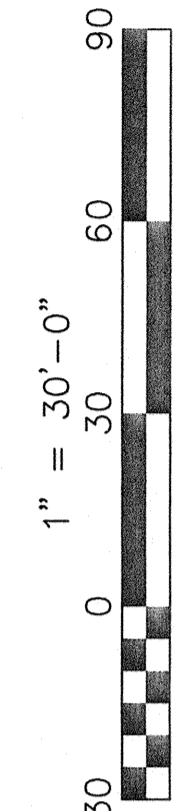
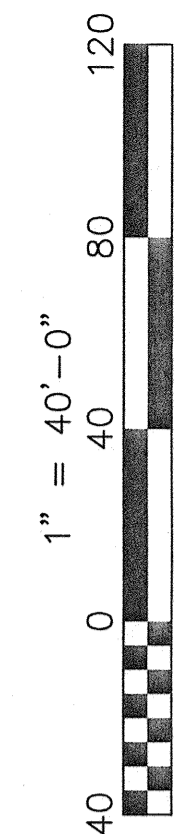
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 DIV. OF THE STATE ARCHITECT
 D2-113985
 AC: [Signature]
 DATE: 5/1/06

Stamp(s):

Job No.: **3832**

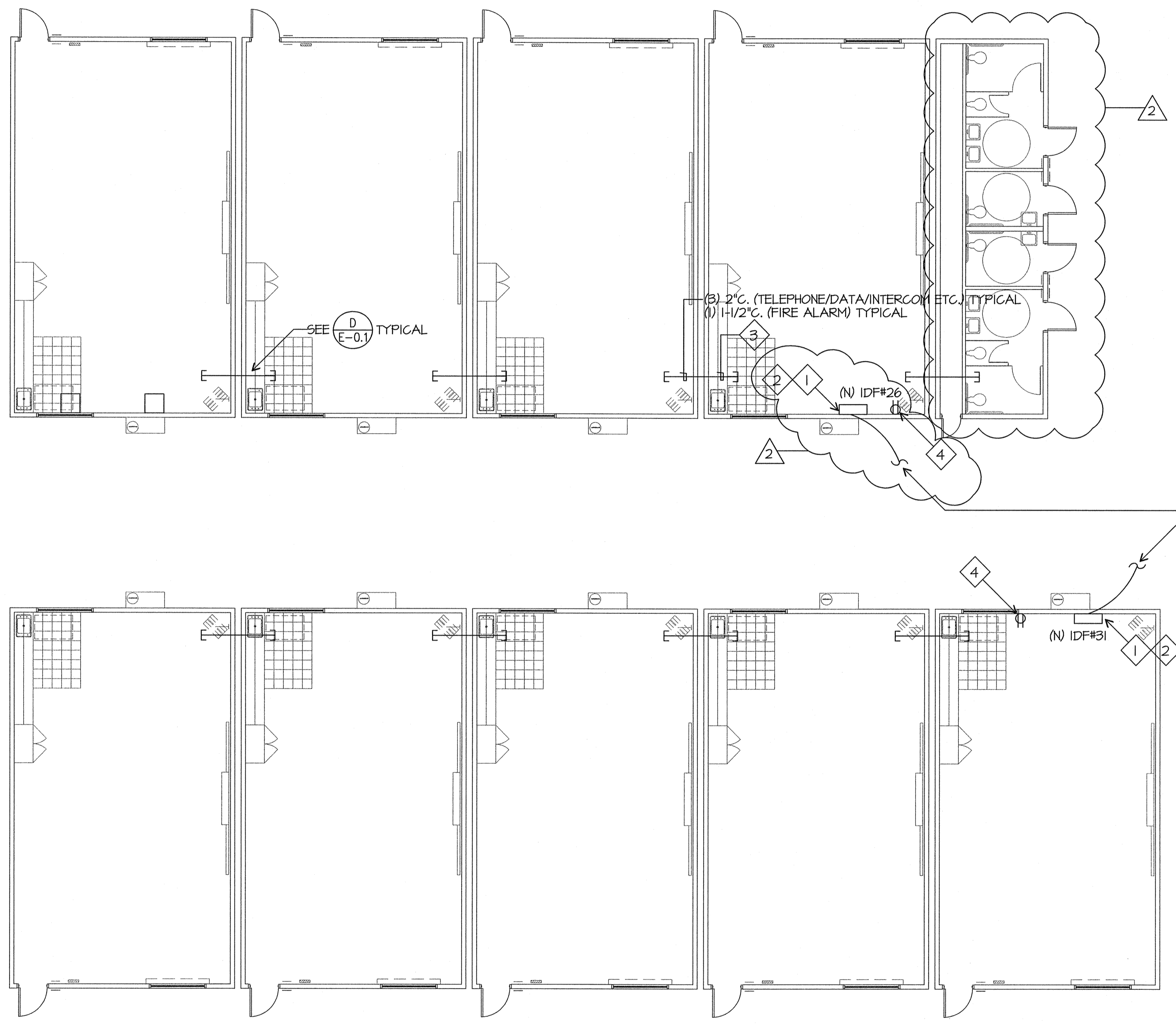
Sheet No.: **X8-E-2**

Release:
 JIMPE/JOB#:04082/DATE:01-14-10 AC
 CURTIS MCNALLY



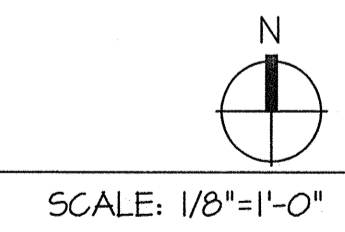
COMMUNICATION PLAN NOTES

- 1 CONNECT TO SPARE 20/1 CIRCUIT BREAKER IN PANEL PROVIDED WITH CLASSROOM.
- 2 PROVIDE (1) RE4 EQUIPMENT CABINETS WITH (1) 48 PORT PATCH PANEL, AMO BCSD CONNECTORS, BY HUBBELL COMPANY. COORDINATE WITH GARY TAYLOR, NETWORK SYSTEMS ENGINEER FOR BAKERSFIELD CITY SCHOOL DISTRICT, 661-631-4745.
- 3 SUPPORT CABLE EVERY 5' VIA J-HOOKS, INSTALLED AT LEAST 8" ABOVE CEILING ON PERIMETER WALLS, TYPICAL.
- 4 ADD RECEPTACLE NEXT TO (N) IDF. PROVIDE 20/1 CIRCUIT BREAKER FROM PANEL PROVIDED WITH PORTABLE. PROVIDE MATERIALS NEEDED FOR DEDICATED CIRCUIT TO BE USED FOR INTRUSION POWER SUPPLY. COORDINATE REQUIREMENTS WITH BAKERSFIELD CITY SCHOOL VENDOR MORGAN CLAYTON, 661-397-5511.



SEE SHEET E-2 FOR CONTINUATION

COMMUNICATION PLAN



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Revision	Rev. Date	Rev. Description
1	10/15/09	CHANGE ORDER
2	01/22/10	

COMMUNICATION PLAN

Project Name & Address:
MUNSEY ELEMENTARY SCHOOL
10 NEW PORTABLE CLASSROOMS
 BAKERSFIELD CITY SCHOOL DISTRICT
 3801 BRAVE AVE. BAKERSFIELD, CA 93309

Issue Date:	Date:	05/02/06
Designer:	DR:	DESIGNER
DRAFTER:	FC:	DRAFTER
CJM		

DSA Identification Stamp:

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 DIV. OF THE STATE ARCHITECT
 CS-112985
 AC FLS
 DATE 2/10/10

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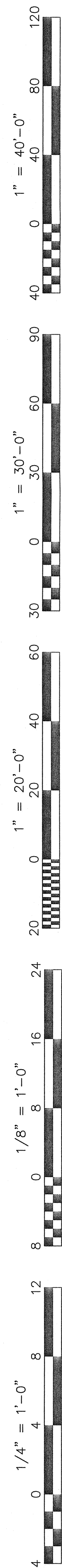
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 LICENSED ARCHITECT
 CURTIS E. FLYNN
 No. C 28966
 REG. 5-31-09
 STATE OF CALIFORNIA

Job No.: **3832**

Sheet No.: **X9-E-2.1**

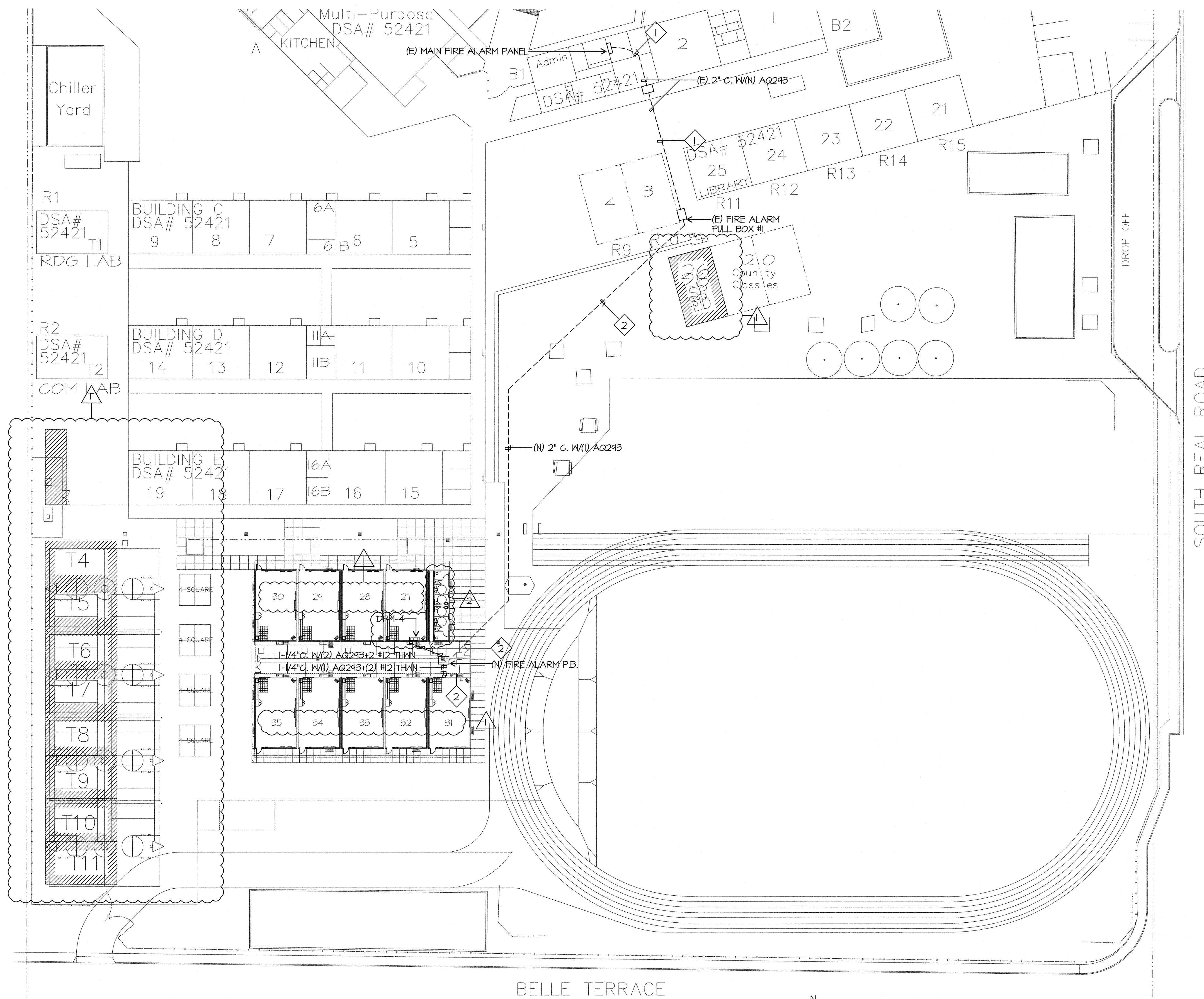
Release: **CURTIS MCNALLY**

JMPE
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 MALCOLM J. MURPHY
 6600 KING AVENUE, SUITE 201 BAKERSFIELD, CA 93309
 (805) 831-7901 FAX (805) 831-7913
 email: malmoj@jmpe.net www.jmpe.net

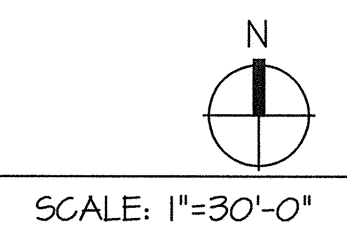


SITE FIRE ALARM PLAN NOTES

- 1 PULL NEW CABLES IN EXISTING CONDUIT. PULL PAST EXISTING CABLES.
- 2 SAWCUT AND REPAIR TO MATCH EXISTING. BORING IS AN ACCEPTABLE METHOD OF CONDUIT INSTALLATION. PROVIDE METHOD OF PROCEDURE FOR BORING TO ENGINEER FOR REVIEW AND APPROVAL. DETAIL BORING PROCEDURE. IDENTIFY TYPE OF CONDUIT TO BE USED IN BORE.



SITE FIRE ALARM PLAN



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Revision	Revision Description	Rev. Date	Rev. Date
1	ADDENDUM 1	10/15/09	
2	CHANGE ORDER	01/22/10	

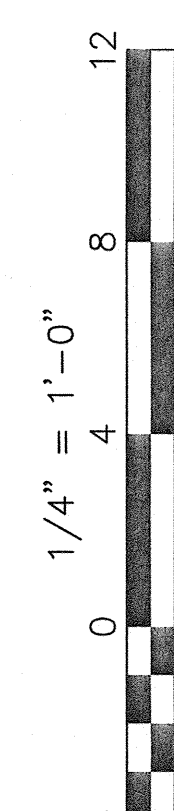
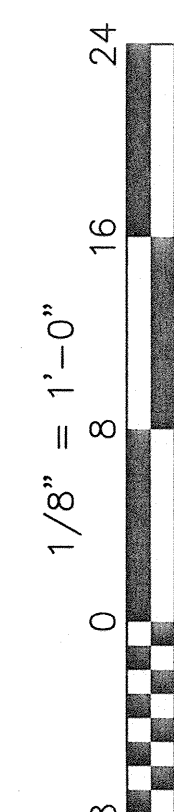
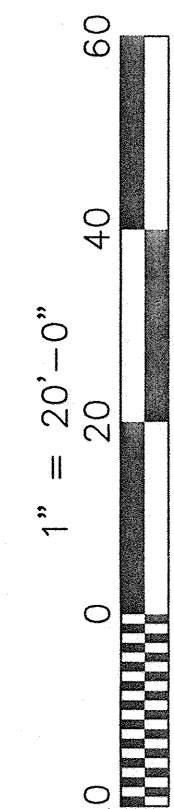
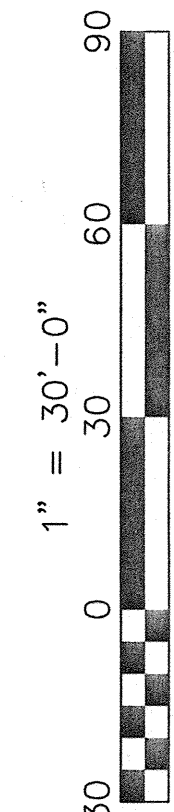
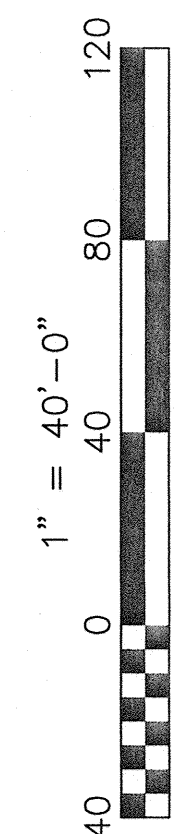
SITE FIRE ALARM PLAN
MUNSEY ELEMENTARY SCHOOL
10 NEW PORTABLE CLASSROOMS
 BAKERSFIELD CITY SCHOOL DISTRICT
 3801 BRAVE AVE. BAKERSFIELD, CA 93309

Issue Date: 05/02/06
 Date: 05/02/06
 Designer: DESIGNER
 DR: DRAFTER
 PC: C/JM

DSA Identification Stamp:
 IDENTIFICATION STAMP
 DIV. OF THE STATE ARCHITECT
 03-112985
 AC: [Signature]
 DATE: [Signature]

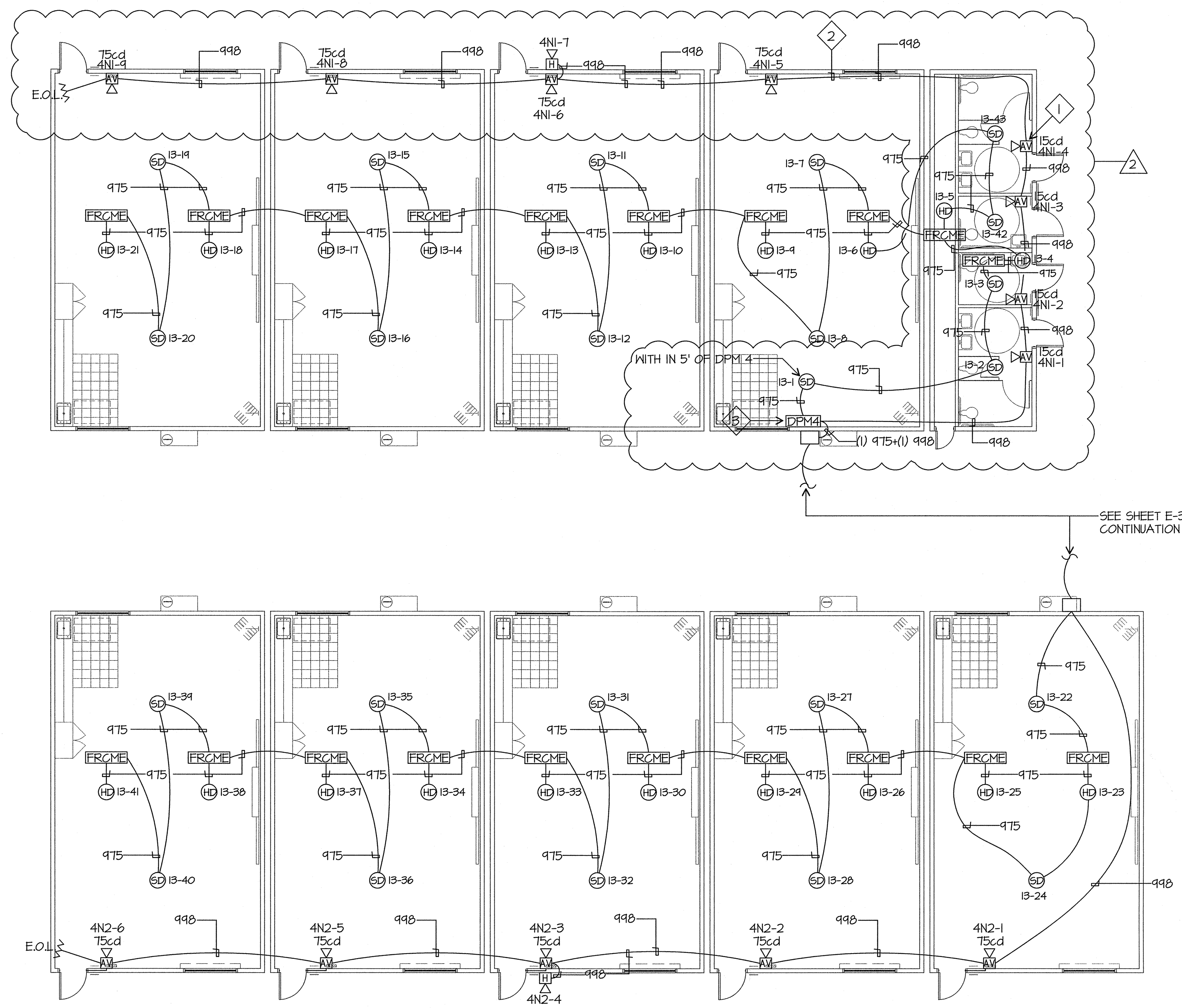
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Job No.: **3832**
 Sheet No.: **X10-E-3**
 Release: CURTIS MCNALLY

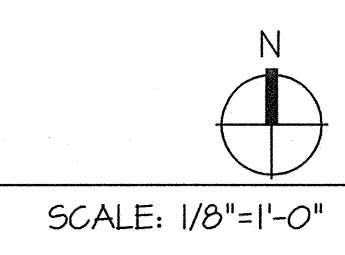


FIRE ALARM PLAN NOTES

- 1 FIRE ALARM CABLE SHALL BE INSTALLED IN 3/4" CONDUIT IN WALLS, TYPICAL.
- 2 SUPPORT FIRE ALARM CABLE EVERY 5' VIA J-HOOKS INSTALLED AT LEAST 8" ABOVE CEILING ON PERIMETER WALLS, TYPICAL.
- 3 PROVIDE 20/1 CIRCUIT BREAKER PER NFPA 72 FOR DPM.



FIRE ALARM PLAN



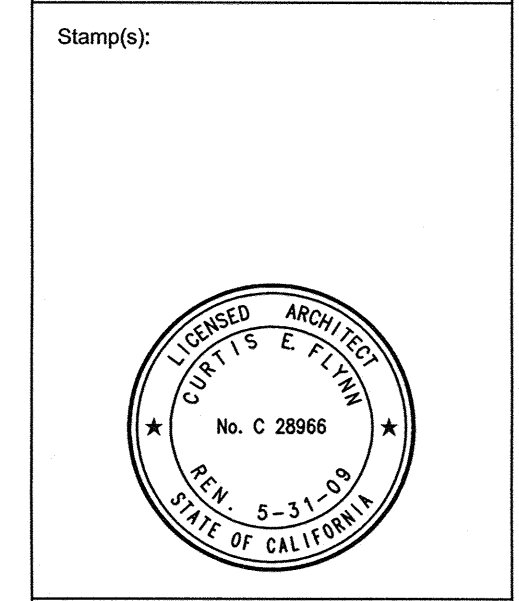
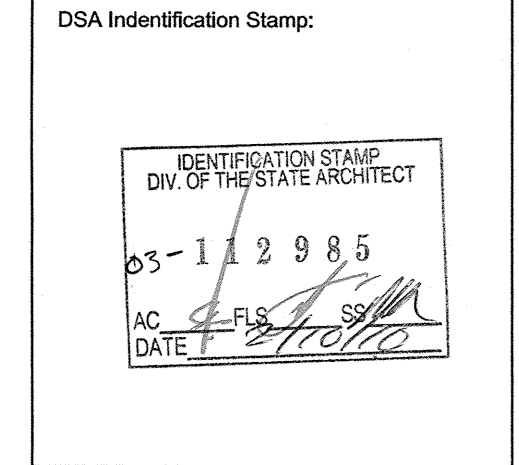
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Revision	Revision Description	Rev. Date	Rev. Date
1	CHANGE ORDER	01/22/10	

FIRE ALARM PLAN
Project Name & Address:
MUNSEY ELEMENTARY SCHOOLS
10 NEW PORTABLE CLASSROOMS
BAKERSFIELD CITY SCHOOL DISTRICT
3801 BRAVE AVE. BAKERSFIELD, CA 93309

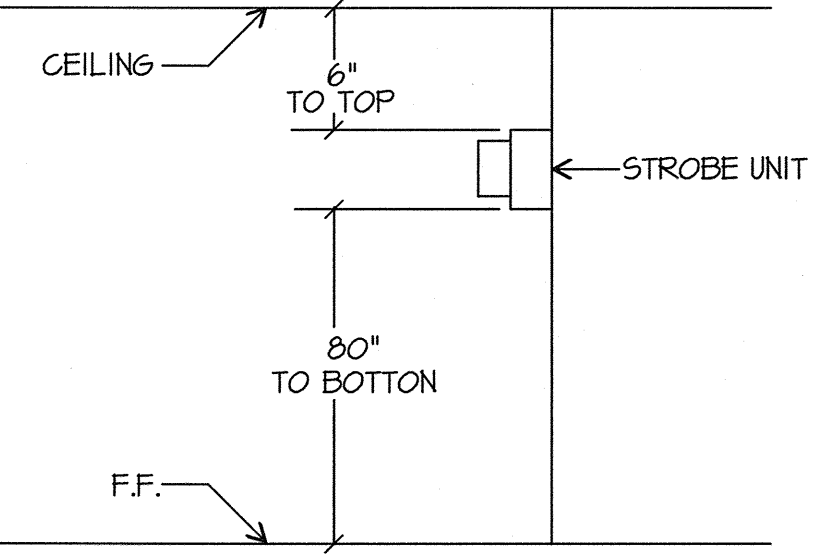
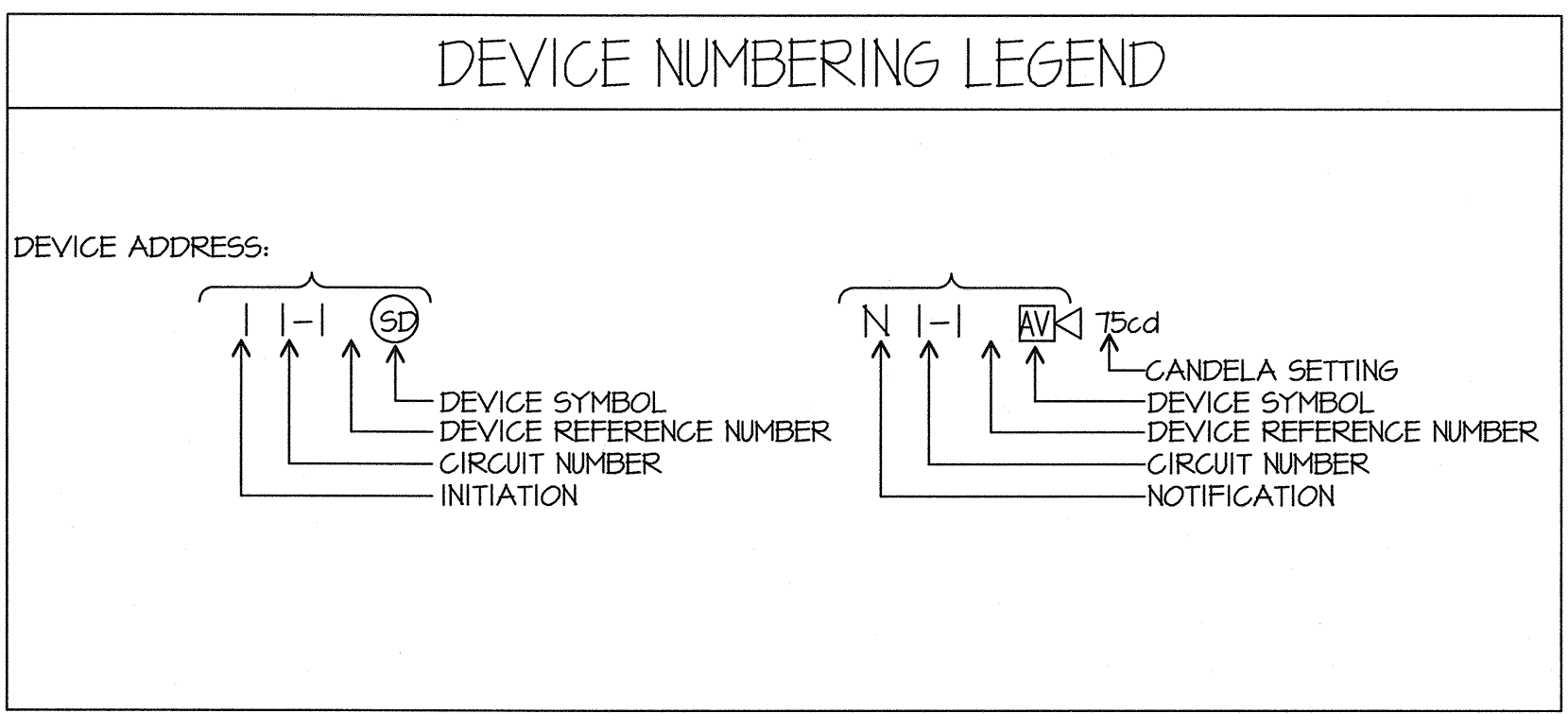
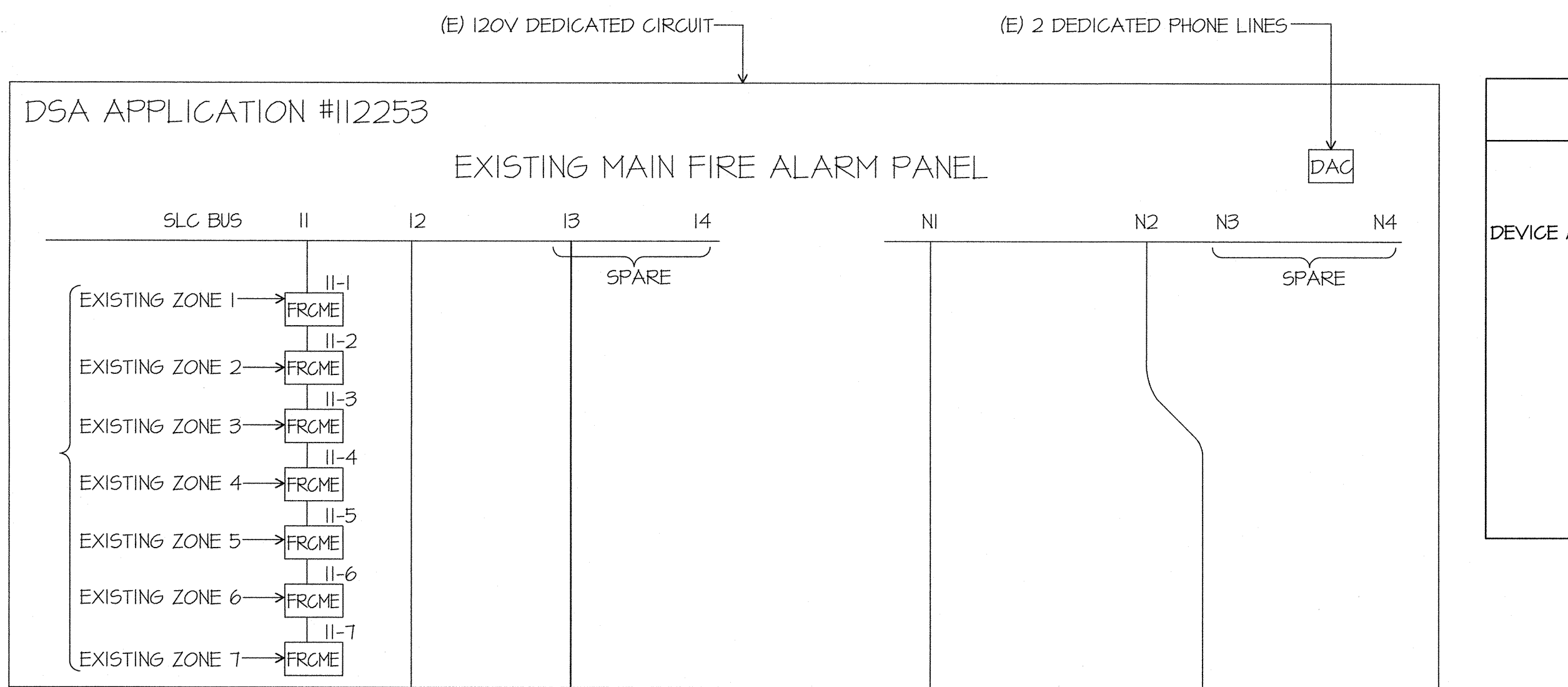
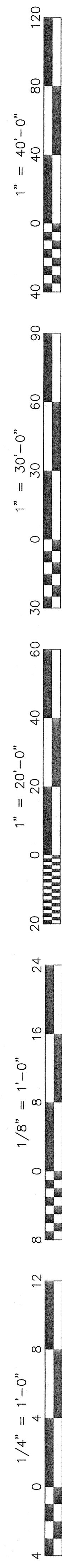
Issue Date:	Date:	05/02/06
Designer:	DR:	DESIGNER
DRAFTER:	FC:	CJM



Job No.: **3832**
Sheet No.: **XII-E-3.1**

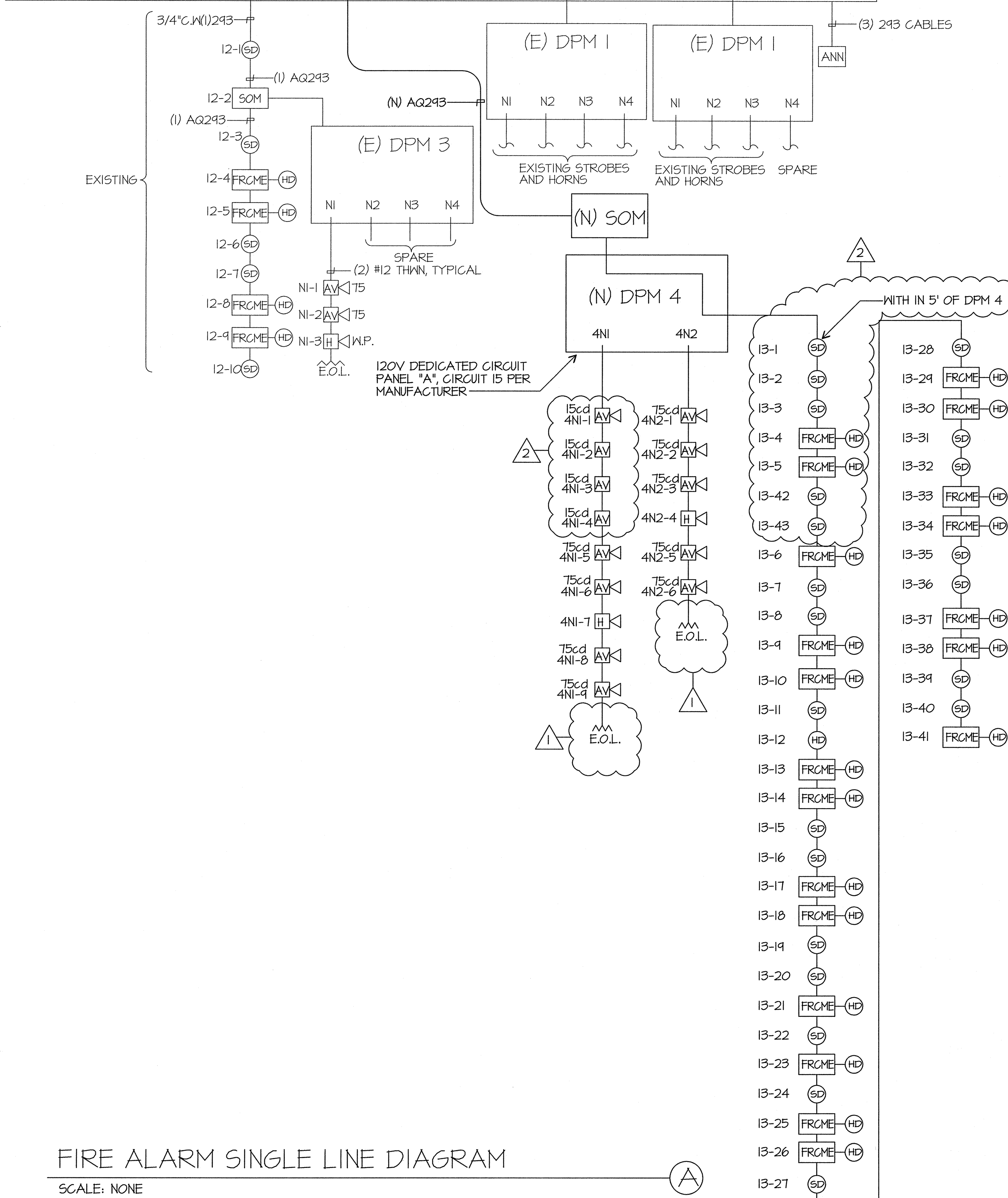
JMPE
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ELECTRICAL ENGINEERING
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HORN/STROBE MOUNTING DETAIL
SCALE: NONE

CONTRACTOR SHALL DISCONNECT AND RECONNECT ALL ZONES ASSOCIATED WITH EXISTING BUILDINGS ON CAMPUS AND PROVIDE TESTING FOR POSITIVE REPORTING. PROVIDE FIRE WATCH DURING IMPAIRMENT OF SYSTEM, PER NFPA & CFC (CHAPTER 14 + 9)



FIRE ALARM SINGLE LINE DIAGRAM
SCALE: NONE

EQUIPMENT DESCRIPTION	QUANTITY		SUPERVISORY CURRENT (AMPERES)		ALARM CURRENT (AMPERES)	
	EXISTING	NEW	EACH	SUB-TOTAL	EACH	SUB-TOTAL
MASTER PANEL	1		0.1	0.1	0.1	0.1
REMOTE ANNUNCIATOR PANEL	1		0.15	0.15	0.27	0.27
SUPERVISED OUTPUT MODULE	3	1	0.0003	0.0012	0.0003	0.0012
FAST RESPONSE CONTACT MODULE	11	20	0.00055	0.01705	0.008	0.248
DIGITAL ALARM COMMUNICATOR	1		0.02	0.02	0.02	0.02
SMOKE DETECTOR	21		0.00039	0.00936	0.00039	0.00936
HEAT DETECTOR	20		0.00035	0.007	0.00035	0.007
SUB TOTAL AMPERES				0.30601 AMPS		0.65696 AMPS
SUB TOTAL AMPERE-HOURS				x 24 HOURS		x 0.084 HOURS
				7.34424 A.H.		0.055185 A.H.
TOTAL REQUIRED AMPERE-HOURS FOR DISTRIBUTED POWER MODULE						7.399425 A.H.
BATTERY NON-LINEAR DISCHARGE CHARACTERISTIC FACTOR						x 1.2
TOTAL MINIMUM AMPERE HOURS REQUIRED						8.87931 A.H.
EXISTING BATTERY CAPACITY						24.00 A.H.

EQUIPMENT DESCRIPTION	QUANTITY		SUPERVISORY CURRENT (AMPERES)		ALARM CURRENT (AMPERES)	
	EXISTING	NEW	EACH	SUB-TOTAL	EACH	SUB-TOTAL
DISTRIBUTED POWER MODULE		1	0.075	0.075	0.175	0.175
AUDIBLE/VISUALS	75 cd	10		0	0.121	1.21
HORN EXTERIOR		2		0	0.062	0.124
AUDIBLE/VISUALS	15 cd	4		0	0.052	0.208
SUB TOTAL AMPERES				0.075 AMPS		1.717 AMPS
SUB TOTAL AMPERE-HOURS				x 24 HOURS		x 0.084 HOURS
				1.8 A.H.		0.144228 A.H.
TOTAL REQUIRED AMPERE-HOURS FOR DISTRIBUTED POWER MODULE						1.944228 A.H.
BATTERY NON-LINEAR DISCHARGE CHARACTERISTIC FACTOR						x 1.2
TOTAL MINIMUM AMPERE HOURS REQUIRED						2.333074 A.H.
PROVIDED BATTERY CAPACITY						7.90 A.H.

SYMBOL	DEVICE	MFR & CAT#	REMARKS	CSFM LISTING
DPM	NAC POWER EXTENDER	HOCHIKI FN-642-ULADA		7315-0410:166
SD	SMOKE DETECTOR	HOCHIKI ALG-V	WITH HSB-NSA-6 BASE	7272-0410:149
HD	HEAT DETECTOR	HOCHIKI DFE-190	WITH NS6-100 BASE	7270-0410:119
FRCME	FAST RESPONSE CONTACT MODULE	HOCHIKI DCP-FRCME		7300-0410:150
SOM	SUPERVISED OUTPUT MODULE	HOCHIKI SOM		7300-0410:150
AV	HORN STROBE	WHEELLOCK AS24MCW 90dBA		7125-0785:131
H W.P.	HORN	WHEELLOCK ASWP 99dBA	EXTERIOR W.P. HORN	7125-0785:131

	INITIATION	AREA SMOKE DETECTOR	AREA THERMAL DETECTOR	AC POWER FAILURE
RESPONSE				
ANNUNCIATE AT FIRE CONTROL ROOM		YES	YES	YES (TROUBLE)
ANNUNCIATE AT 24 HOUR ATTEND LOCATION		YES	YES	YES (TROUBLE)
ALARM		YES	YES	YES
CENTRAL STATION MONITORING		YES	YES	YES

CIRCUIT	2x	LENGTH x	AMPS x	RESISTANCE x	= VOLTS	VOLTAGE DROP
4N1	2	150	0.754	0.00205	0.464	1.93 %
4N2	2	170	0.667	0.00205	0.465	1.94 %

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Rev. Date: 10/15/09
Rev. Description: ADDENDUM 1
CHANGE ORDER

Sheet Title: FIRE ALARM SINGLE LINE DIAGRAM CALCULATIONS
Project Name & Address: MUNSEY ELEMENTARY SCHOOL 10 NEW PORTABLE CLASSROOMS BAKERSFIELD CITY SCHOOL DISTRICT BAKERSFIELD, CA 93309

Issue Date: 05/02/06
Date: 05/02/06
Designer: DR. DRAFTER
DR. DRAFTER
FC: CJM

DSA Identification Stamp:
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
03-112985
AC. FLS.
DATE: 5/2/06

Stamp(s):
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Job No.: 3832
Sheet No.: X14-E-3.2
Relates: JIMPE/Job#09082/DATE:01-14-10 AC
CURTIS MCNALLY