FINISH FLOOR ELEVATION = 1001.49

FINISH FLOOR ELEVATION = 1001.17

4 SQUARE

4 SQUARE

4 SQUARE

4 SQUARE

SEE SHEET 7 FOR LEGEND,
SHEET 3 FOR NOTES
(OF ORIGINAL APPROVED SET)

SEE SHEET 7

NOTE: THIS SHEET (X-1) FORMERLY SHEET 6 OF 8.

NORTH
SCALE: 1" = 10'

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
03-112985
AC FLS SS
DATE 2/16/16

REGISTERED PROFESSIONAL ENGINEER
MATTHEW K. VOVILLA
RCE 43130
Exp. 3-31-10
CIVIL
STATE OF CALIFORNIA

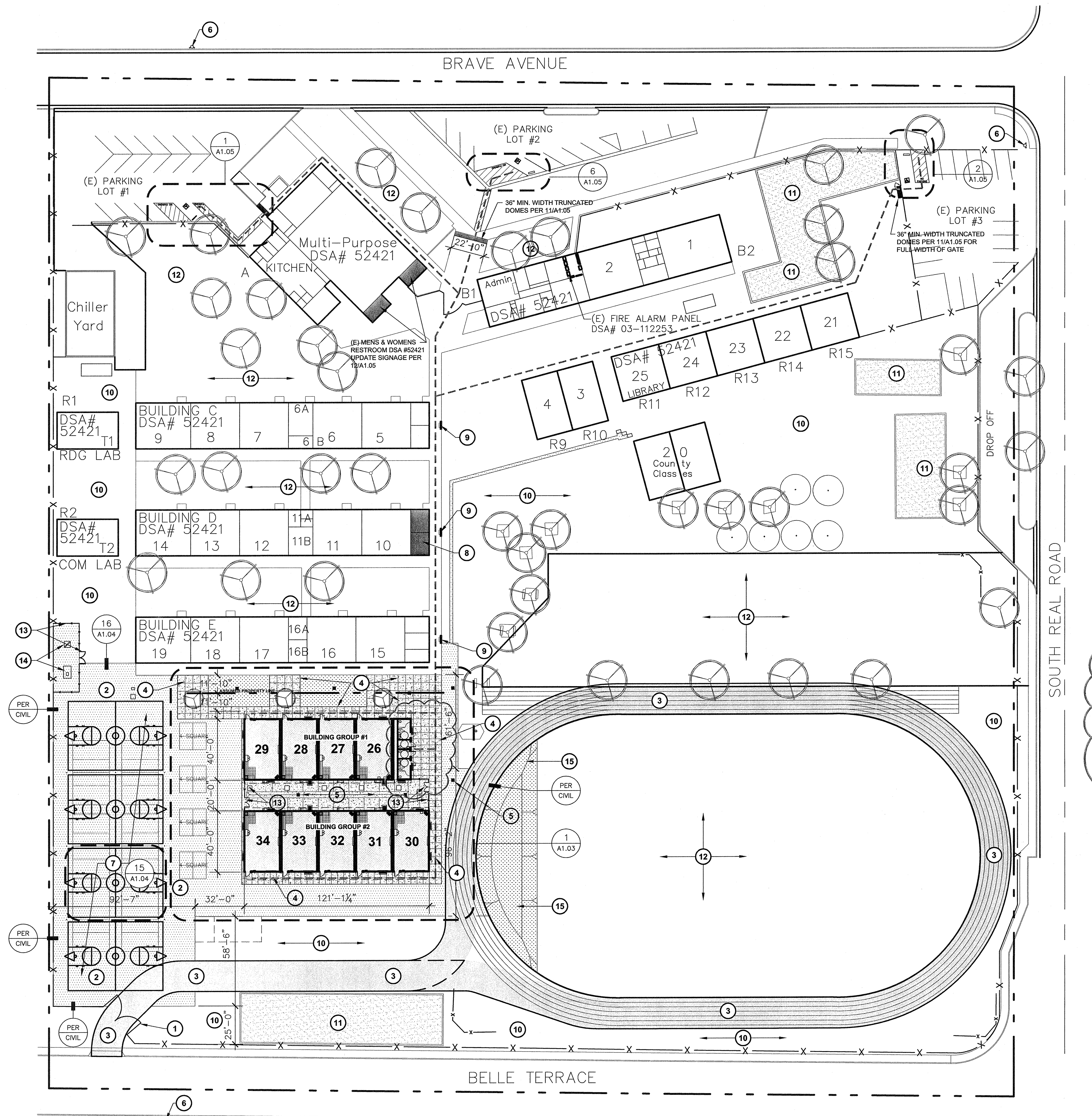
PINNACLE *Civil Engineering, Inc.*
2161 Saturn Court, Bakersfield, CA 93308
Phone: (661) 869-0184 Fax: (661) 377-0076

MATTHEW K. VOVILLA RCE 43130 EXP. 3/31/10

REVISIONS	DATE

SITE IMPROVEMENT & GRADING PLAN
MUNSEY ELEMENTARY
3801 BRAVE AVENUE
BAKERSFIELD, CALIFORNIA

JOB No.:	08-388
DWG NO.:	08-388-BM
DATE:	09/23/2009
DRAWN BY:	ADK
CHECKED BY:	MKV
SHEET	X-1



SITE PLAN

10 NEW PORTABLE CLASSROOMS

SCALE: 1:40

KEY NOTES

1. EXISTING CHAIN LINK FENCE AND GATE TO REMAIN. PROVIDE W/ KNOX BOX LOCK PER KERN COUNTY STANDARDS
2. NEW AC PAVING PER DETAIL 11/A1.04
3. PROPOSED 20' WIDE FIRE TRUCK ACCESS LANE OVER EXISTING AC-PAVING, APPROVED BY THE LOCAL JURISDICTION.
4. NEW 4" THICK CONCRETE WITH MEDIUM BROOM FINISH AND SCORE JOINTS PER DETAIL 1/A1.03
5. NEW DRAIN INLET. REFER TO CIVIL FOR ALL GRADING AND DRAINAGE INFORMATION.
6. EXISTING FIRE HYDRANT TO REMAIN
7. NEW BASKETBALL COURT (TYP. OF 4) PER DETAIL 15/A1.04
8. EXISTING BOYS AND GIRLS RESTROOM
9. EXISTING DRINKING FOUNTAIN TO REMAIN
10. EXISTING AC-PAVING TO REMAIN
11. EXISTING SAND PLAY AREA TO REMAIN
12. EXISTING TURF TO REMAIN
13. NEW 6' HIGH CHAIN LINK FENCE w/ PRIVACY SLATES AND 3' WIDE GATE

PARKING CALCULATION

PARKING LOT #1
TOTAL STALLS PROVIDED - 16 STALLS
ACCESSIBLE STALLS REQUIRED - 1 VAN STALL
ACCESSIBLE STALLS PROVIDED - 1 VAN STALL

PARKING LOT #2
TOTAL STALLS PROVIDED - 10 STALLS
ACCESSIBLE STALLS REQUIRED - 1 VAN STALL
ACCESSIBLE STALLS PROVIDED - 1 VAN STALL

PARKING LOT #3
TOTAL STALLS PROVIDED - 16 STALLS
ACCESSIBLE STALLS REQUIRED - 1 VAN STALL
ACCESSIBLE STALLS PROVIDED - 1 VAN STALL

BUILDING DATA

OCCUPANCY = E
TYPE OF CONSTRUCTION = VB (NON-SPRINKLERED)

BUILDING GROUP #1 + GROUP #2
(9) CLASSROOMS @ 960 S.F. (24'x40') EA. = 8,640 S.F.
(1) RESTROOM @ 480 S.F. (12'x40') EA. = 480 S.F.
9,120 S.F.

PER 2007 C.B.C. TABLE 503:
9,120 PROPOSED < 9,500 ALLOWABLE = OK

GENERAL NOTES

A. THE OWNER SHALL BE RESPONSIBLE FOR RE-ROUTING THE EXISTING IRRIGATION SPRINKLER LINES AND HEADS AS REQUIRED FOR PROPER COVERAGE IN THE AREA OF NEW CONSTRUCTION.

B. NEW CONCRETE WALKS SHALL HAVE SLOPES NOT TO EXCEED 1 IN 20 IN THE DIRECTION OF PATH OF TRAVEL. PROVIDE CONTROL JOINTS ("C.J.")AT 5'-0" o.c. MAX. AND EXPANSION JOINTS NOT TO EXCEED 30'-0" MAX. PROVIDE MEDIUM BROOM FINISH ON ALL WALKS.

C. CONTRACTOR WILL BE RESPONSIBLE TO COORDINATE RELOCATABLE BUILDING DELIVERY DATES TO THE SCHOOL SITE WITH THE MANUFACTURER

D. THE CONTRACTOR SHALL CONSTRUCT ALL NEW RELOCATABLE BUILDING CONCRETE FOUNDATIONS AS PER THE RELOCATABLE BUILDING MANUFACTURES DRAWINGS AND SPECIFICATIONS.

E. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL NEW RELOCATABLE BUILDING PERIMETER SILL SHEET METAL FLASHING AFTER THE RELOCATABLE BUILDING IS SET IN PLACE.

F. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE ALL HOOK-UPS TO THE RELOCATABLE BUILDINGS AFTER INSTALLATION HAS BEEN COMPLETED BY THE MANUFACTURER.

G. 5'-0" DEEP x 5'-0" WIDE MINIMUM CONCRETE LANDINGS AT DOORWAYS SHALL BE AS DETAILED AND SHALL HAVE SLOPES (IN ANY DIRECTION) OF NOT GREATER THAN 1/4 IN 12 SLOPE (2%). SLOPES SHALL BE AWAY FROM DOORWAYS.

H. CONTRACTOR SHALL FIELD VERIFY THAT EXISTING PATH OF TRAVEL (P.O.T.) IS A MINIMUM OF 4'-0" WIDE AND IS SLIP RESISTANT. IF IT IS NOT, THEN THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF RECORD AND A REMEDY OR ALTERNATE P.O.T. WILL BE PROVIDED.

I. THE MAXIMUM DROP BETWEEN EXISTING FINISHED GRADES AND THE TOP OF THE P.O.T. SHOULD NOT EXCEED 4". IF IT DOES, PROVIDE THE NECESSARY WARNING CURB PER CBC SEC. 1133B.8.1.

J. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TEMPORARY FENCING.

LOCAL FIRE AUTHORITY REVIEW

LOCAL FIRE AUTHORITY TO INITIAL THE ITEMS AS APPLICABLE TO THIS PROJECT AND SIGN BELOW

ACCESS ROADS AND FIRE HYDRANTS

JK ACCESS ROADS AND GATE ENTRANCES ARE IN ACCORDANCE WITH TITLE 19, CALIFORNIA CODE OF REGULATIONS DIV. 1, CHAP.1, SUB. CHAP.1, ARTICLE 3 NUMBER 3.05 (ACCESS ROADS) AND 3:16 (GATE ENTRANCES) TO SCHOOL SITES.

JK FIRE FLOW, FIRE HYDRANT LOCATION AND DISTRIBUTION ARE IN ACCORDANCE WITH CALIFORNIA FIRE CODE, APPENDIX C (FIRE FLOW) AND APPENDIX B (HYDRANT LOCATIONS)

N/A WILDLAND URBAN INTERFACE AREA

AUTOMATIC FIRE SPRINKLER SYSTEMS

N/A THE LOCATION(S) OF THE PROPSED POST INDICATOR VALVE (PIV) AND FIRE DEPARTMENT CONNECTION (FDC) MEETS THE REQUIREMENTS OF THIS JURISDICTION AT THIS TIME.

N/A THE LOCATION(S) OF THE DETECTOR CHECK VALVE ASSEMBLY (DCVA) MEETS THE REQUIREMENTS OF THIS JURISDICTION AT THIS TIME.

N/A THE FIRE PUMP ASSEMBLY/BACKFLOW PREVENTER MEETS THE REQUIREMENTS OF THIS JURISDICTION AT THIS TIME.

LOCAL FIRE AUTHORITY: KERN COUNTY FIRE DEPT
ADDRESS: 5642 VICTOR ST.
CITY/STATE/ZIP: BAKERSFIELD CA DATE: 05/27/09
PHONE NUMBER: (661) 391-7080
APPROVAL ISSUED BY: JIM KILLAM
RANK/TITLE: FPS-2
COMMENTS: ORIGINAL SIGNITURE ON FILE WITH DSA

A SIGNATURE ABOVE SIGNIFIES THAT THE LOCAL FIRE AUTHORITY THE PROPOSED LOCATIONS AND WAS CONSULTED REGARDING THE PLACEMENT/DESIGN OF THE PIV(s), FDCA(s), FIRE PUMP(s), AND HYDRANTS. THE CURRENT CONFIGURATION SHOWN, AS OF THE DATE, MEETS WITH THEIR CURRENT STANDARDS.

ACCESSIBILTY NOTE

PATH OF TRAVEL (P.O.T.) AS INDICATED IS A BARRIER FREE ACCESSIBLE ROUTE AT LEAST 48" WIDE WITHOUT ANY ABRUPT CHANGES EXCEEDING ½" AT 1:2 MAX. SLOPE, EXCEPT THAT LEVEL CHANGES DO NOT EXCEED ¼" VERTICAL. MAXIMUM CROSS SLOPE 2% TYPICAL AND A MAXIMUM SLOPE IN THE DIRECTION OF TRAVEL IS 5% OR LESS, UNLESS OTHERWISE NOTED. P.O.T. SHALL BE MAINTAINED FREE OF OVERHEAD OBSTRUCTIONS TO 80" MIN. (CBC 1133B8.2) AND SIDE OBJECTS PROTRUDING GREATER THAN 4" INTO P.O.T. BETWEEN 27" AND 80" ABOVE THE FINISHED FLOOR

LEGEND

- INDICATES EXISTING BUILDING TO REMAIN (NO WORK)
- INDICATES NEW RELOCATABLE BUILDING UNDER THIS APPLICATION
- NEW 4" THICK CONCRETE WALK WITH MEDIUM BROOM FINISH
- INDICATES NEW ASPHALT PAVING REFER TO CIVIL FOR ADDITIONAL INFO
- INDICATES FIRE TRUCK ACCESS OVER EXISTING AC PAVING
- HALF-TONE DASHED LINE INDICATES ACCESSIBLE PATH OF TRAVEL

integrated designs by SOMAM, Inc.
ARCHITECTURE · ENGINEERING · INTERIOR DESIGN · CONSTRUCTION MANAGEMENT
6011 N. Fresno, Suite 130 – Fresno, California 93710
Phone (559) 436-0881 Fax (559) 436-0887 E-Mail: design@somam.com
www.integrateddesigns.com

Rev. Date: | Revision Description: | Revision:

Sheet Title: SITE PLAN

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

Issue Date: ----- | Date: 02/04/10 | Designer: -- | DR: -- | PC: CJM

DSA Identification Stamp:
FILE #: 15-6
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
03-112985
AC ___ FLS ___ SS ___
DATE 2/10/10
TRACKING #: 63321-96

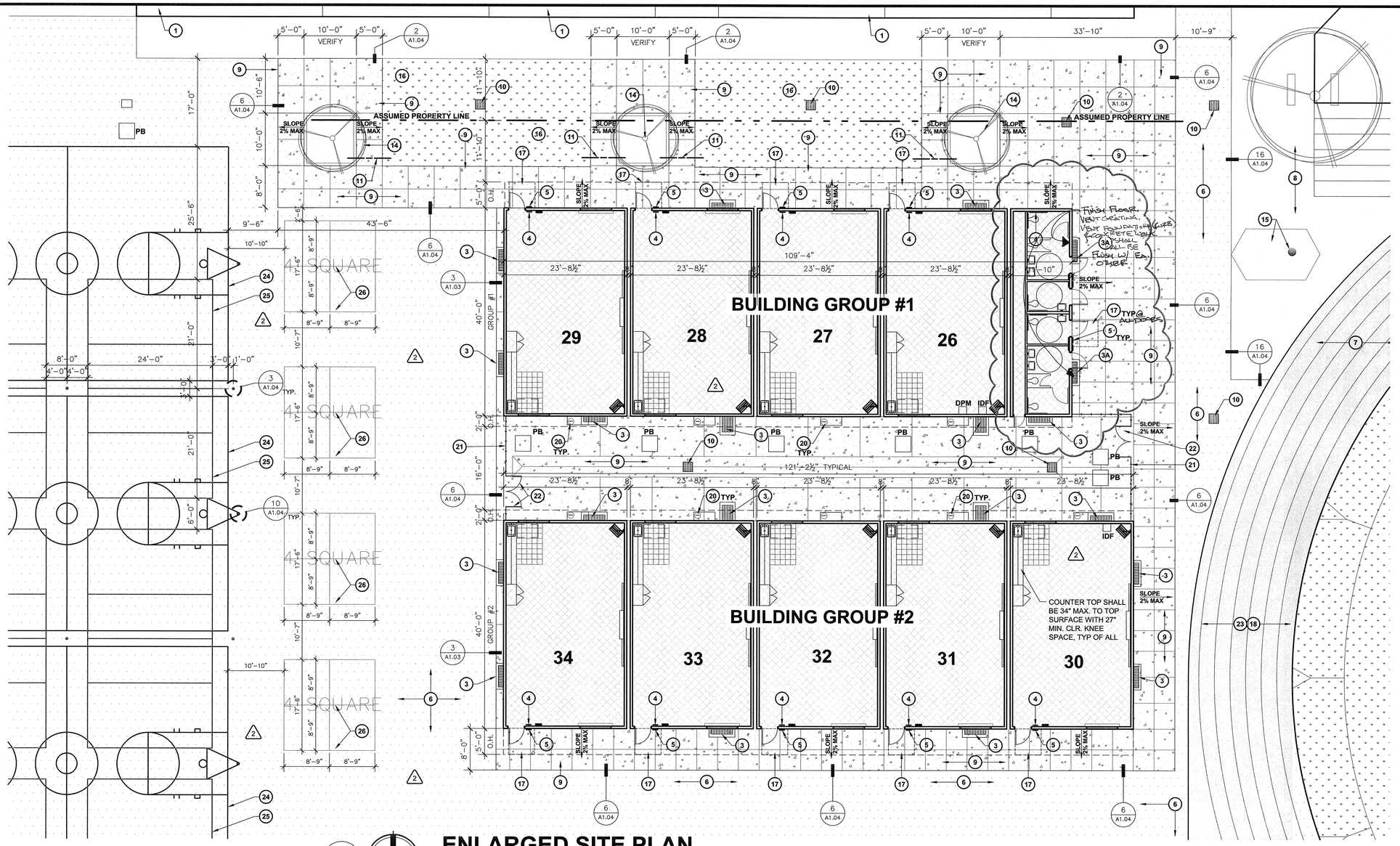
Stamp(s):
LICENSED ARCHITECT CURTIS E. FLYNN No. C 28966 REN. 5-31-11 STATE OF CALIFORNIA

Job No.: 3832

Sheet No.: X-2

Release: -

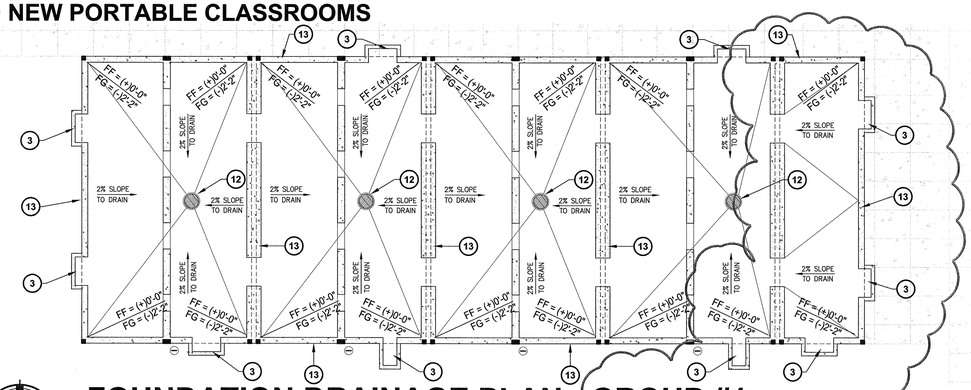
G:\2009frs\09-3832.1\C-X\X\X-2 SITE PLAN.dwg CURTIS MCNALLY



ENLARGED SITE PLAN

10 NEW PORTABLE CLASSROOMS

SCALE: 1:10



FOUNDATION DRAINAGE PLAN - GROUP #1

10 NEW PORTABLE CLASSROOMS

SCALE: 1:10

KEY NOTES

1. EXISTING BUILDING TO REMAIN, NO WORK
2. EXISTING ELECTRICAL ENCLOSURE, REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFO.
3. NEW FLOOR VENT AND ACCESS GRATING TO BE ADA ACCESSIBLE / APPROVED AND SHALL BE FLUSH W/ ALL ADJACENT WALKWAYS. REFER TO BUILDING MANUFACTURES DRAWINGS FOR VENT CALCS. AND INSTALLATION REQUIREMENTS.

3A. FOUNDATION VENT GRATING SHALL HAVE A MAXIMUM OF ½" MAX GRATE BAR SPACING IN BOTH DIRECTIONS, THIS LOCATION ONLY.

4. NEW TACTILE EXIT SIGN PER 8/A1.04
5. NEW ROOM IDENTIFICATION SIGN PER 4/A1.04
6. NEW AC PAVING PER DETAIL 11/A1.04
7. PROPOSED 20' WIDE FIRE TRUCK ACCESS LANE OVER EXISTING AC-PAVING, APPROVED BY THE LOCAL JURISDICTION.
8. EXISTING AC-PAVING TO REMAIN
9. NEW 4" THICK CONCRETE WITH MEDIUM BROOM FINISH AND SCORE JOINTS PER DETAIL 1/A1.04
10. NEW DRAIN INLET REFER TO CIVIL FOR ALL GRADING AND DRAINAGE INFORMATION.
11. NEW IRRIGATION SLEEVE PER 10/A1.05
12. NEW DRYWELL DRAIN, LOCATE ONE BELOW EACH CLASSROOM A MINIMUM OF 2' BELOW THE BOTTOM OF THE FOOTING WALL, REFER TO DETAIL 8/A1.04 AND MANUFACTURES DRAWINGS FOR ADDITIONAL INFORMATION.
13. CONCRETE CLASSROOM FOUNDATION, REFER TO MANUFACTURES DRAWINGS FOR ADDITIONAL INFORMATION
14. EXISTING TREE & PLANTER TO REMAIN, WATER REGULARLY AND PROTECT FROM DAMAGE DURING CONSTRUCTION
15. EXISTING FLAG POLE AND BASE TO REMAIN
16. NEW LAWN SHALL BE THE RESPONSIBILITY OF THE OWNER, OWNER TO CONNECT NEW IRRIGATION SYSTEM TO EXISTING IRRIGATION SYSTEM.
17. 60"x60" LEVEL LANDING AREA, SLOPE SHALL BE 2% MAXIMUM IN ANY DIRECTION
18. NEW AC-PAVED FIRE TRUCK ACCESS LANE, REFER TO CIVIL FOR PAVEMENT SECTION
19. NEW TREE AND PLANTER, SPECIES SELECTED BY OWNER, PLANTER PER DETAIL 3/A1.04
20. HVAC CONDENSATE DRAIN PER DETAIL 9/A1.05
21. NEW 6'-0" HIGH CHAIN LINK FENCE
22. NEW 6'-0" HIGH CHAN LINK GATE WITH FORK LATCH AND LOCK KEYED TO DISTRICT STANDARD
23. NEW AC-PAVING SHALL BE RE-STRIPED WHERE PAVEMENT HAS BEEN REMOVED TO MATCH EXISTING TRACK STRIPING
24. NEW BASKETBALL COURT PER DETAIL 15/A1.04
25. NEW VOLLEYBALL COURT PER DETAIL 15/A1.04
26. NEW 4-SQUARE COURT, PAINT 2" WHITE LINES AS DIMENSIONED.

LEGEND

- INDICATES EXISTING BUILDING TO REMAIN (NO WORK)
- NEW 4" THICK CONCRETE WALK WITH MEDIUM BROOM FINISH
- INDICATES NEW ASPHALT PAVING, REFER TO CIVIL FOR ADDITIONAL INFO.
- INDICATES FIRE TRUCK ACCESS OVER AC PAVING
- INDICATES NEW TURF AND IRRIGATION SYSTEM INSTALLED BY CONTRACTOR
- HALF-TONE DASHED LINE INDICATES ACCESSIBLE PATH OF TRAVEL

integrated designs by SOMAM, Inc.
ARCHITECTURE · ENGINEERING · INTERIOR DESIGN · CONSTRUCTION MANAGEMENT
6011 N. Fresno, Suite 130 – Fresno, California 93710
Phone (559) 436-0881 Fax (559) 436-0887 E-Mail: design@somam.com
www.IntegratedDesigns.com

Revision:	Revision Description:	Rev. Date:

Sheet Title: ENLARGED SITE PLAN AND FOUNDATION DRAINAGE

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:	PC:
----	01/25/10	--	--	CJM

DSA Identification Stamp:

FILE #: 15-6
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
03-112985
AC FLS SS
DATE 2/10/10
TRACKING #: 63321-96

Stamp(s):

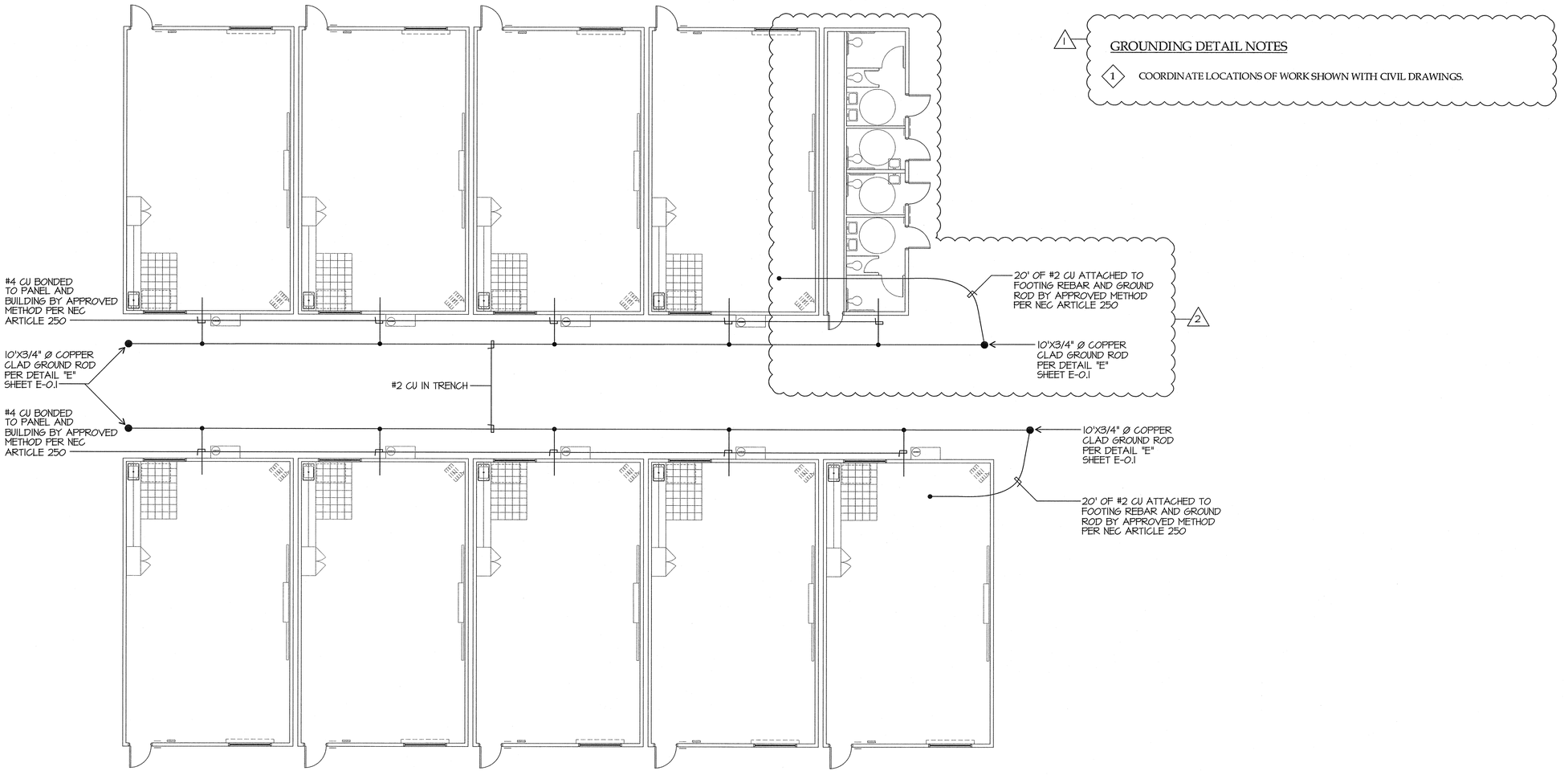
LICENSED ARCHITECT
CURTIS C. TEVIS
No. C 28966
5-31-11
STATE OF CALIFORNIA

Job No.: 3832

Sheet No.: X-3

Release:

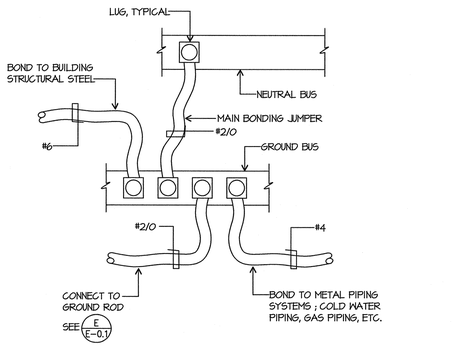
G:\2009frs\09-3832.1\C-X\X\X-1 ENLARGED SITE PLAN.dwg CURTIS MCNALLY



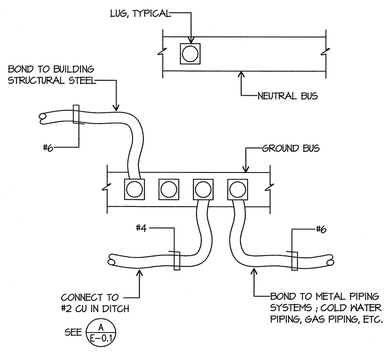
GROUNDING DETAIL NOTES

1. COORDINATE LOCATIONS OF WORK SHOWN WITH CIVIL DRAWINGS.

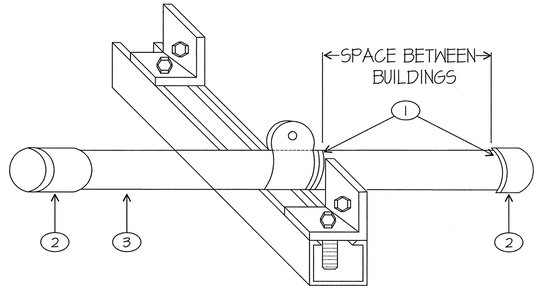
GROUNDING DETAIL (1) (1) — SCALE: 1/8"=1'-0" (A)



BONDING DIAGRAM "MSB" — SCALE: NONE (B)



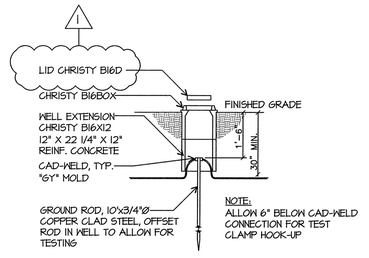
BONDING DIAGRAM PORTABLE PANEL — SCALE: NONE (C)



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

SCALE: NONE (D)

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 (E)

JMPE/JOB#:09082/DATE:01-14-10 AC

1" = 40'-0" (1:480) · 1" = 30'-0" (1:360) · 1" = 20'-0" (1:240) · 1/8" = 1'-0" (1:96) · 1/4" = 1'-0" (1:48)

integrated designs by SOMAM, Inc.
ARCHITECTURE - ENGINEERING - INTERIOR DESIGN - CONSTRUCTION MANAGEMENT
6011 N. Fresno, Suite 150 - Fresno, California 93710
Phone (559)436-0881 Fax (559) 436-0887 E-Mail: design@somam.com
www.integrateddesigns.com

Revision:	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: 05/02/06
Designer: DESIGNER
DR: DRAFTER
PC: CJM

DSA Indentification Stamp:

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
03-112985
AC FLS SSM
DATE 2/11/10

Stamp(s):

REGISTERED ARCHITECT CURTIS E. TYNAN No. C 28966 REN. 5-31-10 STATE OF CALIFORNIA

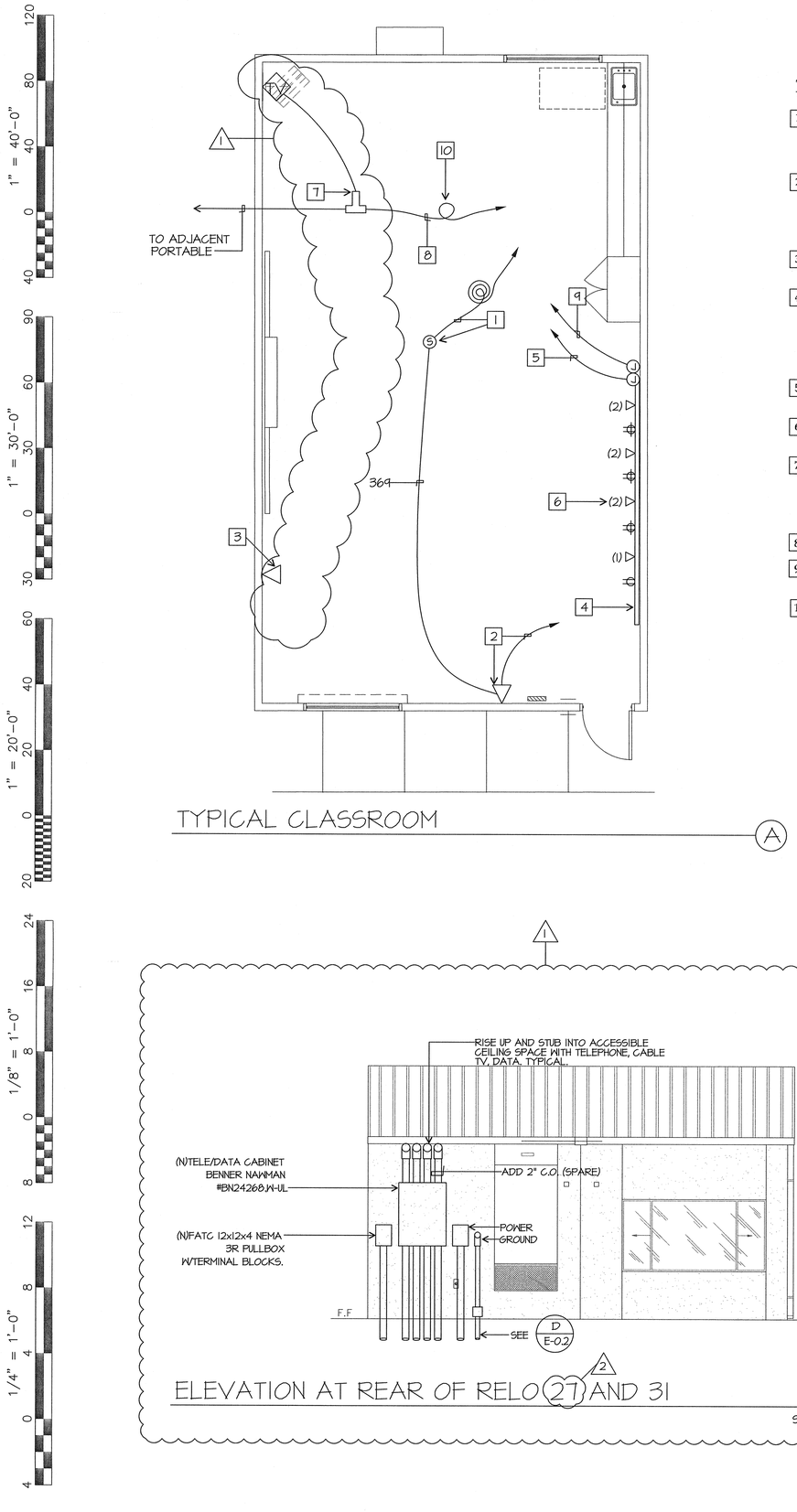
JMPE ELECTRICAL ENGINEERING LIGHTING DESIGN
CA REGISTRATION NO E15063
09082
5000 MING AVENUE, SUITE 220 BAKERSFIELD, CA 93309
(661) 831-7053 FAX (661) 831-7813
email : mahoney@jmpe.net
www.jmpe.net

REGISTERED PROFESSIONAL ENGINEER MICHAEL A. MAHONEY No. E15063 ELECTRICAL STATE OF CALIFORNIA

Job No.: 3832

Sheet No.: X4-E-0.1

Release: CURTIS MCNALLY



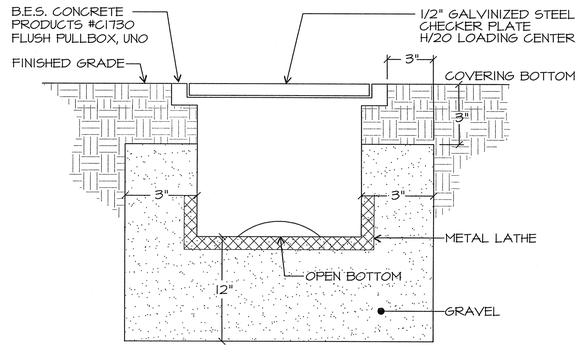
TYPICAL CLASSROOM (A)

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 (CORTELCO 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.

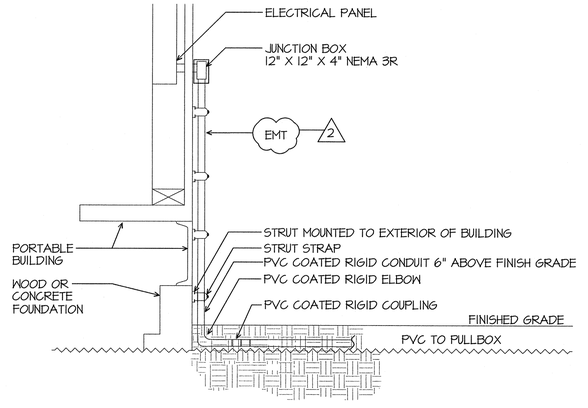
ELEVATION AT REAR OF RELO (27) AND 31 (B)

SCALE: NONE



FLUSH PULLBOX DETAIL (C)

SCALE: NONE



TYPICAL PORTABLE CONNECTION (D)

SCALE: NONE

integrated designs by SOMAM, Inc.
ARCHITECTURE · ENGINEERING · INTERIOR DESIGN · CONSTRUCTION MANAGEMENT
6011 N. Fresno, Suite 130 – Fresno, California 93710
Phone (559)436-0581 Fax (559) 436-0857 E-Mail: design@somam.com
www.Integrateddesigns.com

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

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: 05/02/06
Designer: DESIGNER
DR: DRAFTER
PC: CJM

DSA Indentification Stamp:
IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT
03-112985
AC FLS SS
DATE 7-16-10

Stamp(s):
LICENSED ARCHITECT CURTIS E. FLYNN No. C 28966 REN. 5-31-09 STATE OF CALIFORNIA

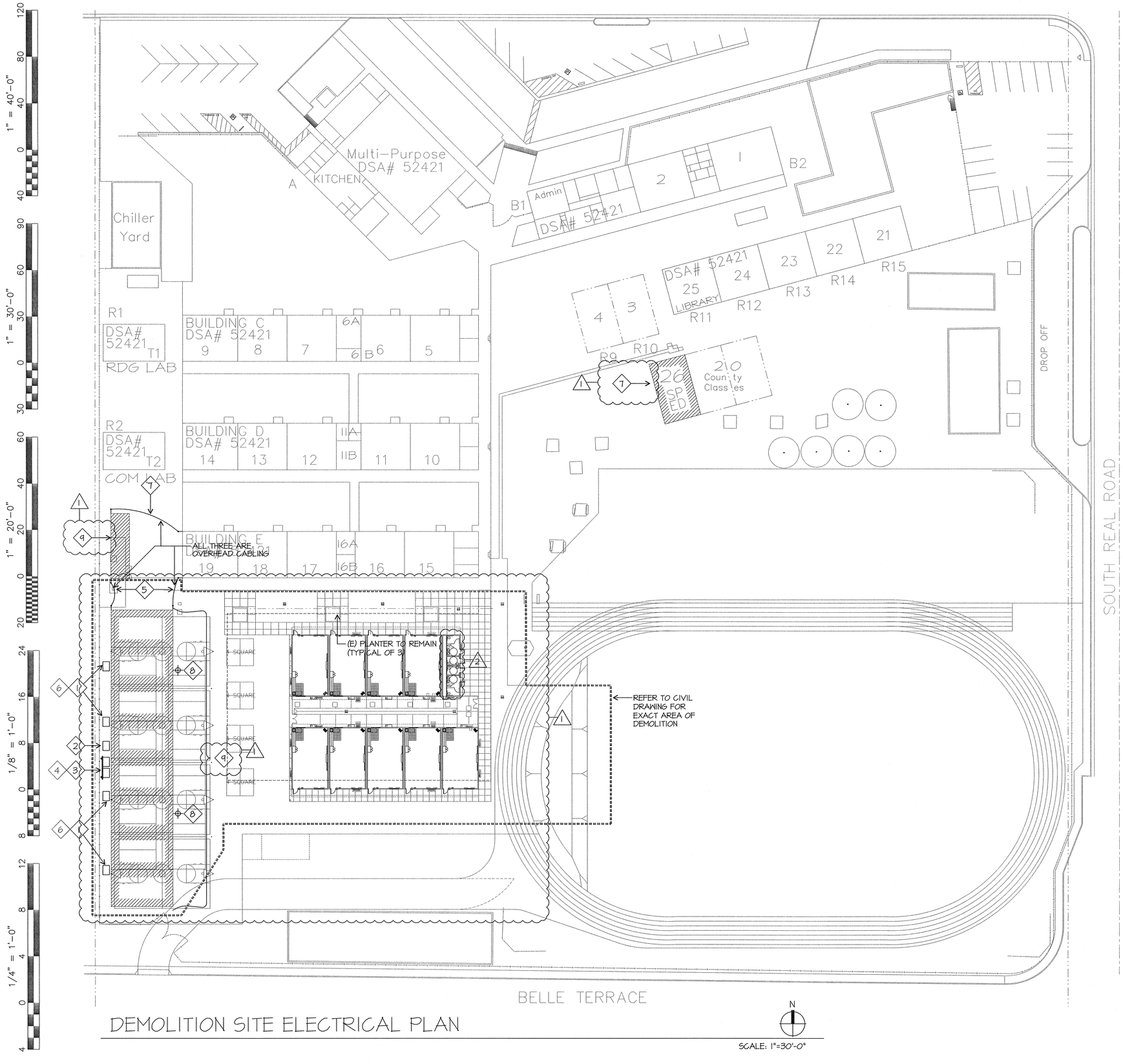
JMPE
ELECTRICAL ENGINEERING
LIGHTING DESIGN
CA REGISTRATION NO E13083
09082
5000 MING AVENUE, SUITE 201, BAKERSFIELD, CA 93309
(661) 831-7051
FAX (661) 831-7813
email : maloney@jmpe.net
www.jmpe.net
REGISTERED PROFESSIONAL ENGINEER JOHN MALONEY No. E13083 ELECTRICAL STATE OF CALIFORNIA

Job No.: 3832

Sheet No.: X5-E-0.2

Release: CURTIS MCNALLY

JMPE/JOB#:09082/DATE:01-14-10 AC



DEMOLITION SITE ELECTRICAL PLAN

SCALE: 1"=30'-0"

N

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.

integrated designs by SOMAM, Inc.
ARCHITECTURE - ENGINEERING - INTERIOR DESIGN - CONSTRUCTION MANAGEMENT
6011 N. Fresno, Suite 130 – Fresno, California 93710
Phone (559)436-0881 Fax (559) 436-0887 E-Mail: design@somam.com
www.integrateddesigns.com

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

Rev. Date:	Revision:	Revision Description:

Sheet Title: DEMOLITION SITE ELECTRICAL PLAN

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

Designer: DESIGNER
DR: DRAFTER
PC: CJM

DSA Indentification Stamp:

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

Stamp(s):

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

JMPE
ELECTRICAL ENGINEERING
LIGHTING DESIGN
CA REGISTRATION NO E15083
09082
6600 MING AVENUE, SUITE 201
BAKERSFIELD, CA 93309
(661) 831-7051
FAX (661) 831-7813
email : mainoffice@jmpe.net
www.jmpe.net

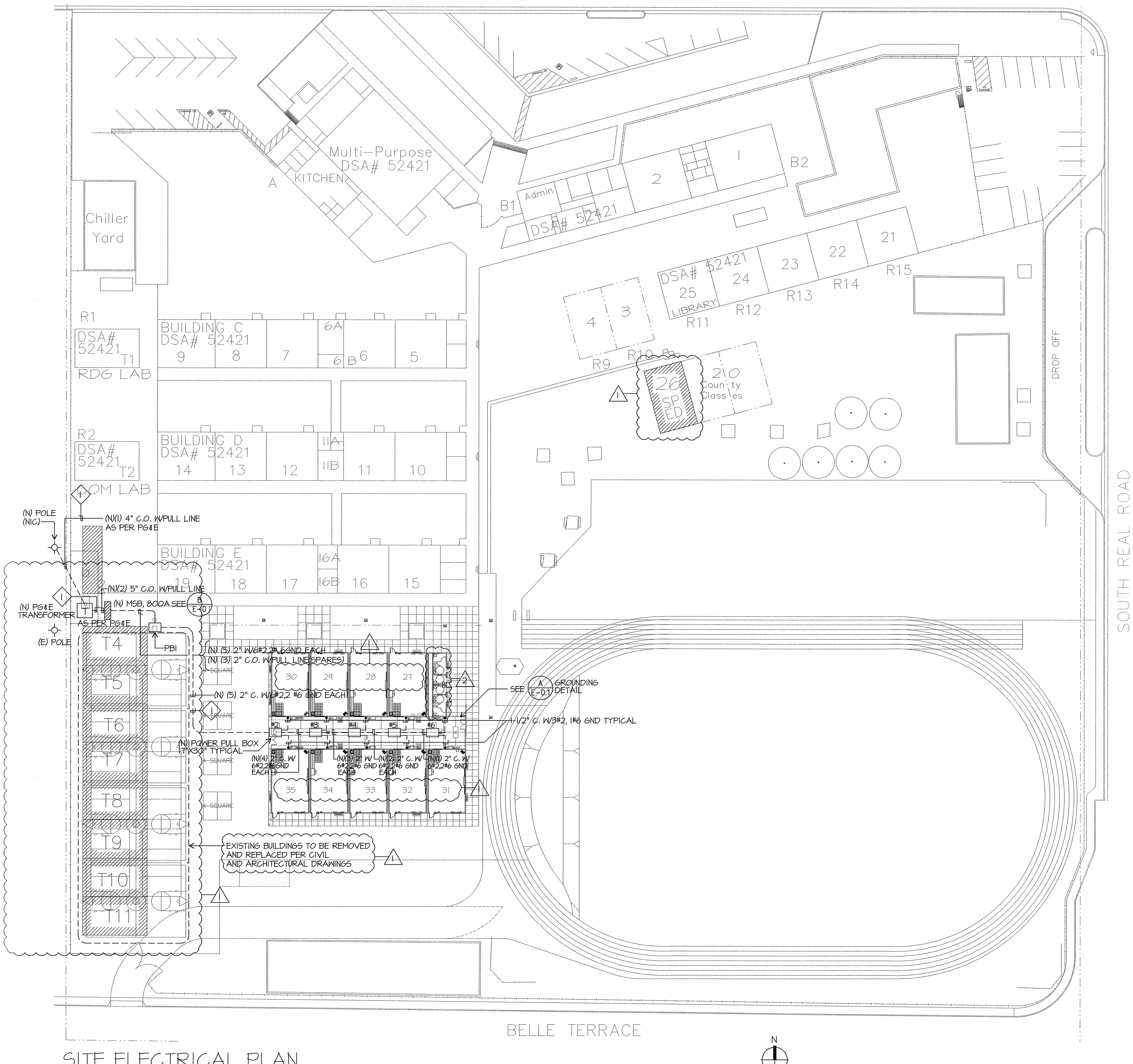
REGISTERED PROFESSIONAL ENGINEER
JAMES MALONEY
No. E15083
ELECTRICAL
STATE OF CALIFORNIA

Job No.: 3832

Sheet No.: X6-E-1

Release: CURTIS MCNALLY

JMPE/JOB#:09082/DATE:01-14-10 AC



SITE ELECTRICAL PLAN

SCALE: 1"=30'-0"

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.

JMPE
ELECTRICAL ENGINEERING
LIGHTING DESIGN
CA REGISTRATION NO E13083
09082
5500 MING AVENUE, SUITE 251
BAKERSFIELD, CA 93309
(661) 831-7851
FAX (661) 831-7813
email : maloney@jmpe.net
www.jmpe.net

JMPE/JOB#:09082/DATE:01-14-10 AC/CN

integrated designs by SOMAM, Inc.
ARCHITECTURE • ENGINEERING • INTERIOR DESIGN • CONSTRUCTION MANAGEMENT
6011 N. Fresno, Suite 130 – Fresno, California 93710
Phone (559)436-0881 Fax (559) 436-0887 E-Mail: design@somam.com
www.integrateddesigns.com

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

Sheet Title: **SITE ELECTRICAL 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: DESIGNER
DR: DRAFTER
PC: CJM

DSA Indentification Stamp:

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
03-112985
AC FLS SS
DATE

Stamp(s):

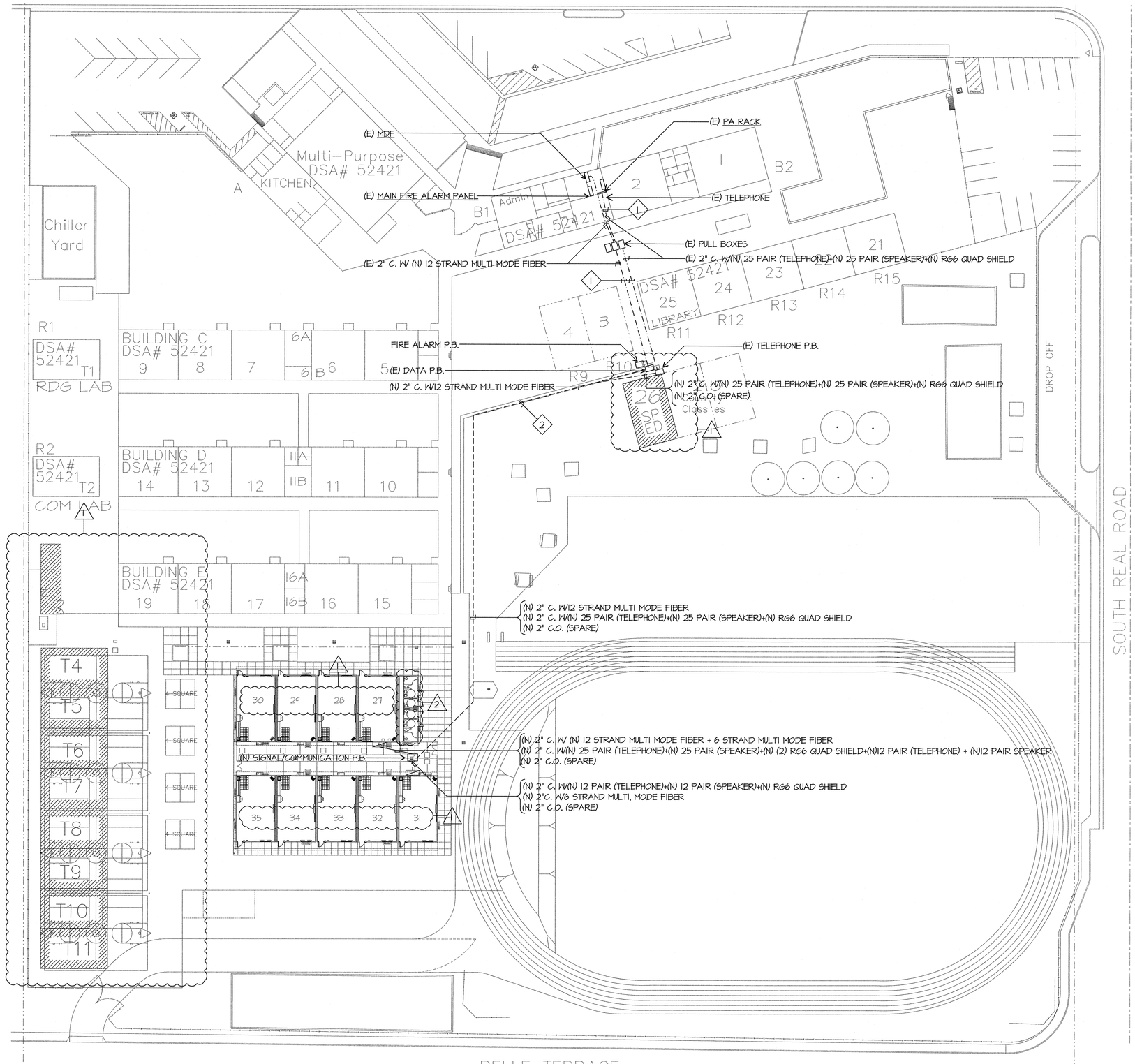
LICENSED ARCHITECT
CURTIS E. FLYNN
No. C 28966
REN. 5-31-09
STATE OF CALIFORNIA

PROFESSIONAL ENGINEER
MALONEY
E13083
ELECTRICAL
STATE OF CALIFORNIA

Job No.: **3832**

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

Release:
CURTIS MCNALLY



SITE COMMUNICATION PLAN

SCALE: 1"=30'-0"

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.

integrated designs by SOMAM, Inc.
ARCHITECTURE - ENGINEERING - INTERIOR DESIGN - CONSTRUCTION MANAGEMENT
5011 N. Fresno St., Ste. 130 - Fresno, California 93710
Phone (559) 436-0881 Fax (559) 436-0887 E-Mail: design@somam.com
www.integrateddesigns.com

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

Sheet Title: SITE COMMUNICATION PLAN

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

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

DSA Indentification Stamp:

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
02-112985
AC FLS SS
DATE

Stamp(s):

LICENSED ARCHITECT
CURTIS E. FINN
No. C 28966
REN. 5-31-09
STATE OF CALIFORNIA

JMPE
ELECTRICAL ENGINEERING
LIGHTING DESIGN
CA REGISTRATION NO E13083
09082
5500 MING AVENUE, SUITE 201
BAKERSFIELD, CA 93309
(661) 831-7705
FAX (661) 831-7813
email : malonay@jmpe.net
www.jmpe.net

REGISTERED PROFESSIONAL ENGINEER
JAMES M. MALONEY
No. E13083
ELECTRICAL
STATE OF CALIFORNIA

Job No.: 3832

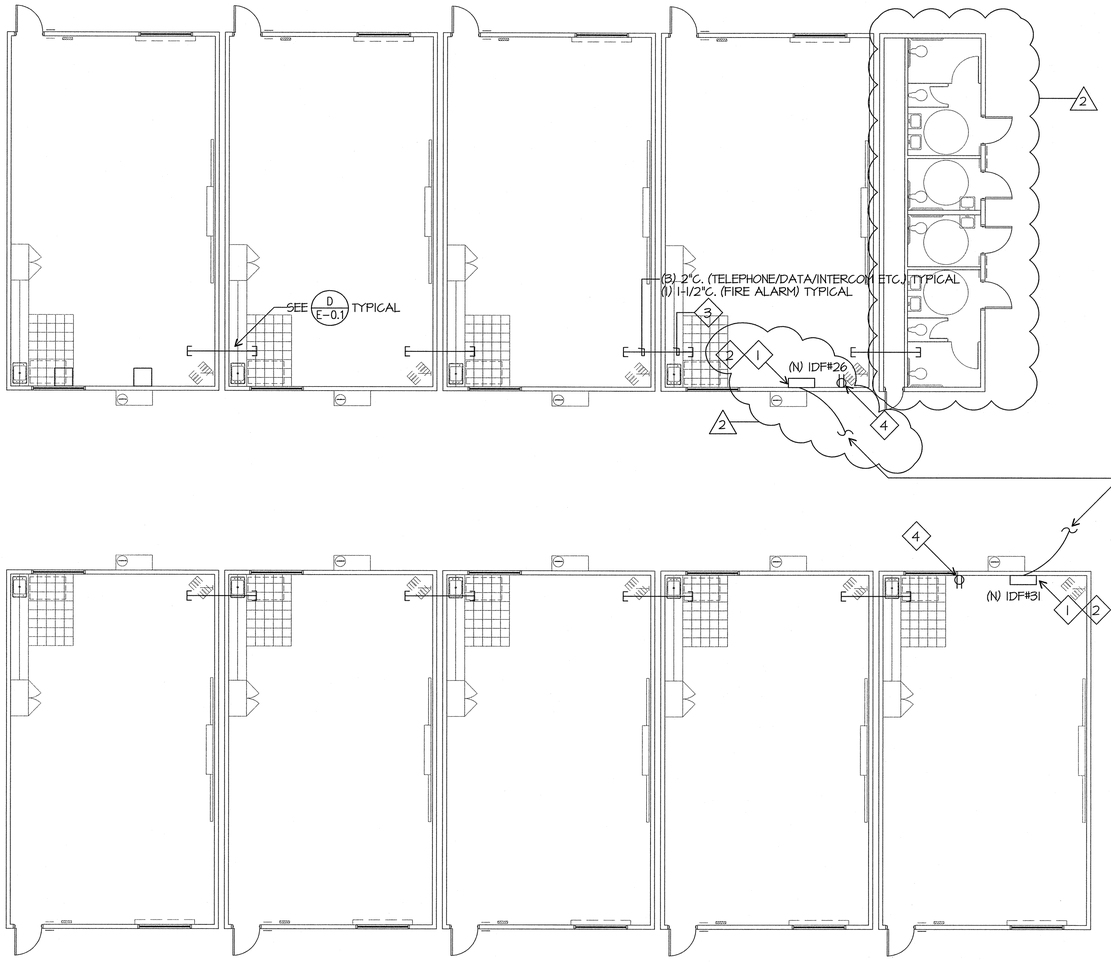
Sheet No.: X8-E-2

Release:
CURTIS MCNALLY

JMPE/JOB#:09082/DATE:01-14-10 AC

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.



COMMUNICATION PLAN

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

1" = 40'-0" 1" = 30'-0" 1" = 20'-0" 1/8" = 1'-0" 1/4" = 1'-0"

integrated designs by SOMAM, Inc.
ARCHITECTURE · ENGINEERING · INTERIOR DESIGN · CONSTRUCTION MANAGEMENT
6011 N. Fresno, Suite 130 – Fresno, California 93710
Phone (559)436-0881 Fax (559) 436-0887 E-Mail: design@somam.com
www.integrateddesigns.com

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

Sheet Title: **COMMUNICATION PLAN**

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

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

DSA Indentification Stamp:

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

Stamp(s):

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

Job No.: **3832**

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

Release:
CURTIS MCNALLY

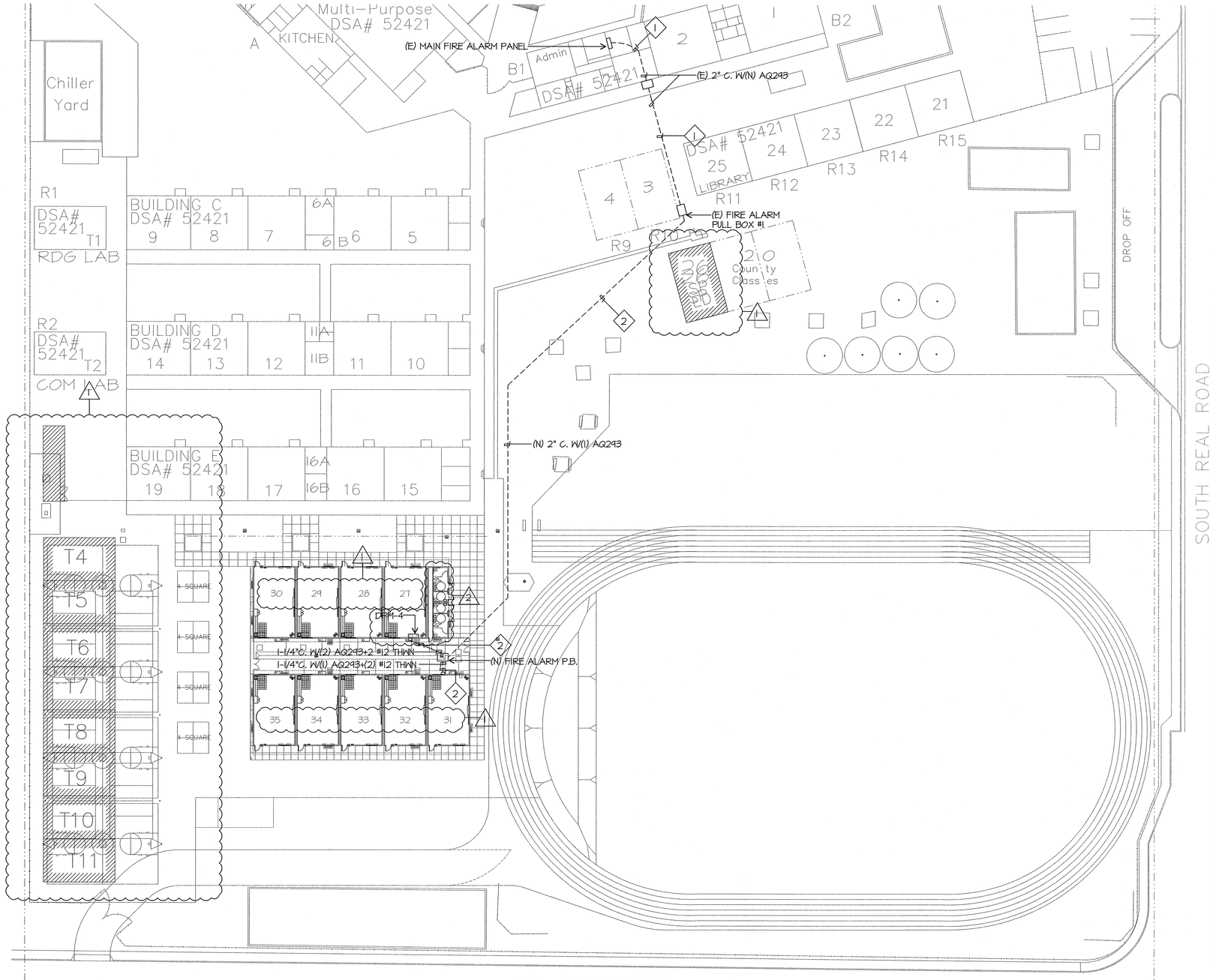
JMPE
ELECTRICAL ENGINEERING
LIGHTING DESIGN
CA REGISTRATION NO E13083
09082
5000 MING AVENUE, SUITE 204
BAKERSFIELD, CA 93309
(661) 831-7001
FAX (661) 831-7813
email : mahoney@jmpe.net
www.jmpe.net

REGISTERED PROFESSIONAL ENGINEER
JOHN MALONEY
ELECTRICAL
STATE OF CALIFORNIA

JMPE/JOB#:09082/DATE:01-14-10 AC

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

SCALE: 1"=30'-0"

N

1" = 40'-0" 120 80 40 0 40
1" = 30'-0" 90 60 30 0 30
1" = 20'-0" 60 40 20 0 20
1/8" = 1'-0" 24 16 8 0 8
1/4" = 1'-0" 12 8 4 0 4

integrated designs by SOMAM, Inc.
ARCHITECTURE - ENGINEERING - INTERIOR DESIGN - CONSTRUCTION MANAGEMENT
6011 N. Fresno, Suite 130 – Fresno, California 93710
Phone (559)436-0881 Fax (559) 436-0887 E-Mail: design@somam.com
www.integrateddesigns.com

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

Rev. Date:	Revision:	Revision Description:

Sheet Title: SITE FIRE ALARM PLAN

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

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

DSA Indentification Stamp:

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
03-112985
AC FLS SS
DATE:

Stamp(s):

LICENSED ARCHITECT
CURTIS E. FLINN
No. C 28966
REN. 5-31-09
STATE OF CALIFORNIA

JMPE
ELECTRICAL ENGINEERING
LIGHTING DESIGN
CA REGISTRATION NO E13083
09082
5000 MING AVENUE, SUITE 204
BAKERSFIELD, CA 93309
(661) 831-7001
FAX (661) 831-7013
email : malonej@jmpe.net
www.jmpe.net

REGISTERED PROFESSIONAL ENGINEER
JOHN E. MALONEY
ELECTRICAL
STATE OF CALIFORNIA

Job No.: 3832

Sheet No.: X10-E-3

Release:
CURTIS MCNALLY

JMPE/JOB#:09082/DATE:01-14-10 AC

1" = 40'-0"

1" = 30'-0"

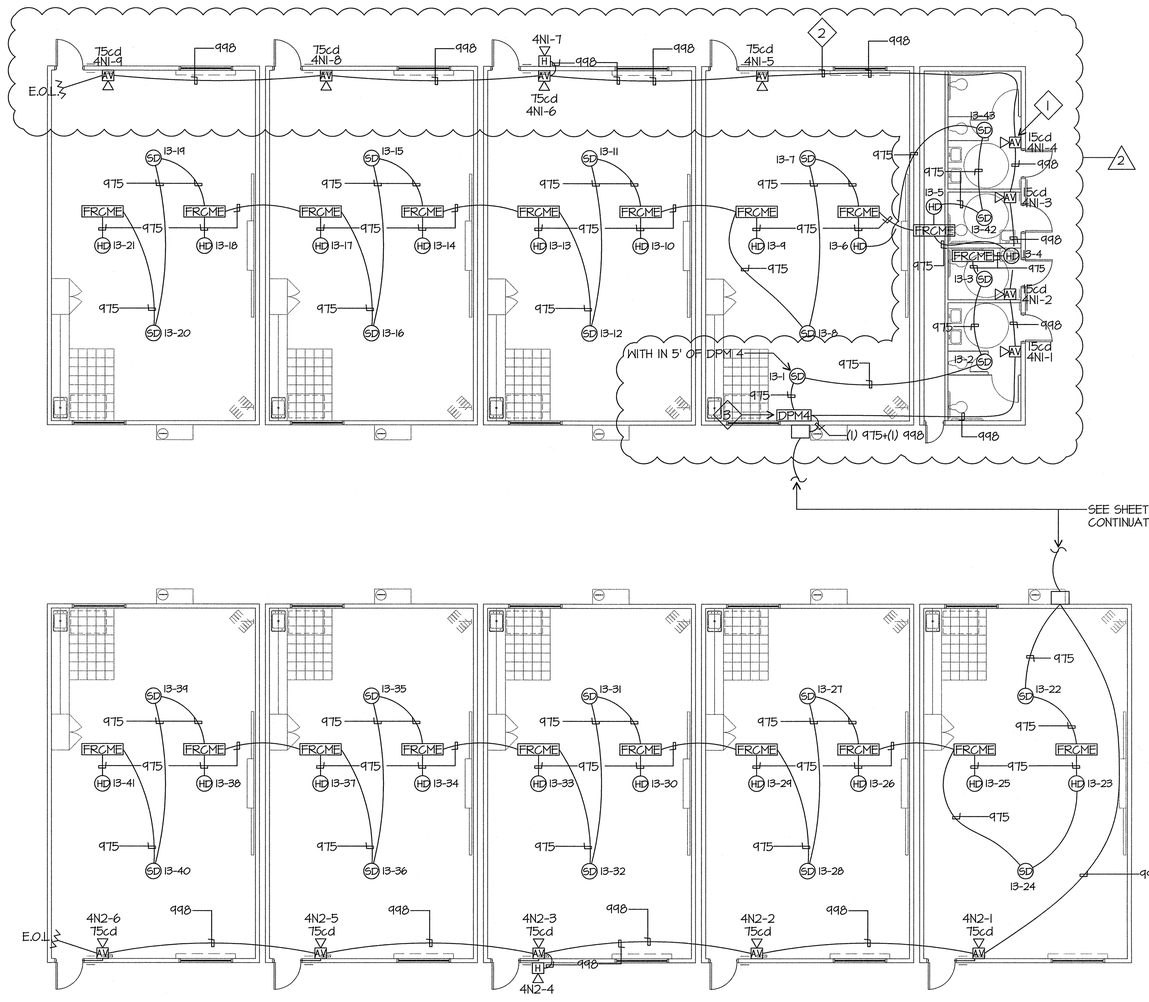
1" = 20'-0"

1/8" = 1'-0"

1/4" = 1'-0"

FIRE ALARM PLAN NOTES

1. FIRE ALARM CABLE SHALL BE INSTALLED IN ¾" 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

N

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

integrated designs by SOMAM, Inc.
ARCHITECTURE · ENGINEERING · INTERIOR DESIGN · CONSTRUCTION MANAGEMENT
6011 N. Fresno, Suite 130 – Fresno, California 93710
Phone (559)436-0881 Fax (559) 436-0887 E-Mail: design@somam.com
www.integrateddesigns.com

Revision:	Revision Description:	Rev. Date:
2	CHANGE ORDER	01/22/10

Revision:	Revision Description:	Rev. Date:

Sheet Title: FIRE ALARM PLAN

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

Designer: DESIGNER
DR: DRAFTER
PC: CJM

DSA Indentification Stamp:

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
03-112985
AC FLS SS
DATE

Stamp(s):

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

JMPE
ELECTRICAL ENGINEERING
LIGHTING DESIGN
CA REGISTRATION NO E15083
09082
5000 MING AVENUE,
SUITE 204
BAKERSFIELD, CA 93309
(661) 831-7001
FAX (661) 831-7813
email : mahoney@jmpe.net
www.jmpe.net

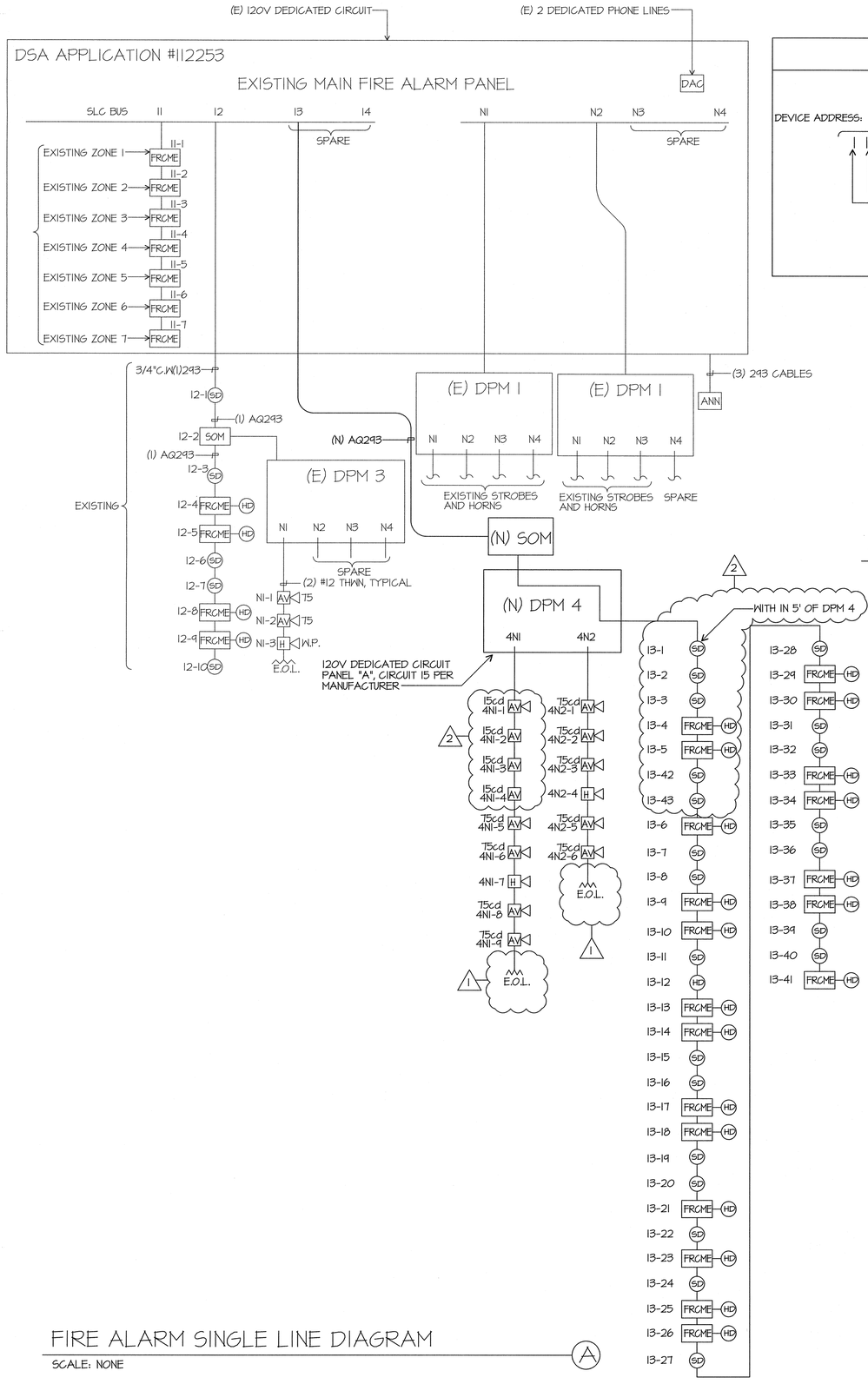
REGISTERED PROFESSIONAL ENGINEER
JOHN MALONEY
ELECTRICAL
STATE OF CALIFORNIA

Job No.: 3832

Sheet No.: XII-E-3.1

Release:
CURTIS MCNALLY

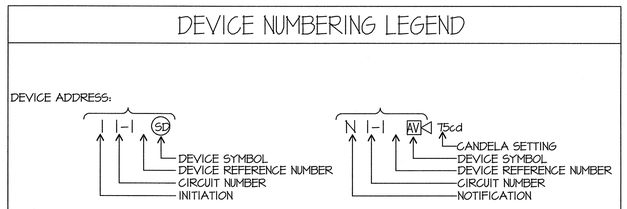
JMPE/JOB#:09082/DATE:01-14-10 AC

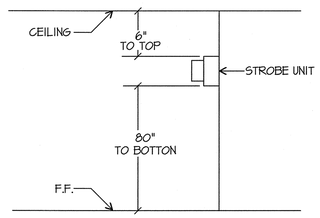


FIRE ALARM SINGLE LINE DIAGRAM

SCALE: NONE (A)

DEVICE NUMBERING LEGEND





HORN/STROBE MOUNTING DETAIL

SCALE: NONE (B)

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 BATTERY CALCULATION-EXISTING MASTER PANEL FIRENET 2127

EQUIPMENT DESCRIPTION	QUANTITY EXISTING	QUANTITY NEW	SUPERVISORY CURRENT (AMPERES) EACH	SUPERVISORY CURRENT (AMPERES) SUB-TOTAL	ALARM CURRENT (AMPERES) EACH	ALARM CURRENT (AMPERES) 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	2 3	21	0.00039	0.00936	0.00039	0.00936
HEAT DETECTOR	2 4	20	0.00035	0.0084	0.00035	0.0084
SUB TOTAL AMPERES			0.30601 AMPS		0.65696 AMPS	
			x 24 HOURS		x 0.084 HOURS	
SUB TOTAL AMPERE-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					2	1.2
TOTAL MINIMUM AMPERE HOURS REQUIRED					8.87931	A.H.
EXISTING BATTERY CAPACITY					~~24.00~~	A.H.

FIRE ALARM BATTERY CALCULATION-NEW DISTRIBUTED POWER MODULE 4

EQUIPMENT DESCRIPTION		QUANTITY EXISTING	QUANTITY NEW	SUPERVISORY CURRENT (AMPERES) EACH	SUPERVISORY CURRENT (AMPERES) SUB-TOTAL	ALARM CURRENT (AMPERES) EACH	ALARM CURRENT (AMPERES) 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	2 0	4	0	0	0.052	0.208
SUB TOTAL AMPERES				0.075 AMPS		1.717 AMPS	
				x 24 HOURS		x 0.084 HOURS	
SUB TOTAL AMPERE-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						2	1.2
TOTAL MINIMUM AMPERE HOURS REQUIRED						2.333074	A.H.
PROVIDED BATTERY CAPACITY						~~7.00~~	A.H.

FIRE ALARM SYMBOL LIST MATRIX

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	WHEELOCK AS24MCW 90dBA		7125-0785:131
H W.P.	HORN	WHEELOCK ASWP 99dBA	EXTERIOR W.P. HORN	7125-0785:131

FIRE ALARM SEQUENCE OF OPERATION

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

VOLTAGE DROP CALCULATIONS

CIRCUIT	2x	LENGTH x	AMPS x	RESISTANCE x	= VOLTS	VOLTAGE DROP
4N1	2	1502	0.754	0.00205	0.464	1.93 %
4N2	2	170	0.667	0.00205	0.465	1.94 %

JMPE
ELECTRICAL ENGINEERING
LIGHTING DESIGN
CA REGISTRATION NO E13083
04082
5000 MING AVENUE,
SUITE 251
BAKERSFIELD, CA 93309
(661) 831-7951
FAX (661) 831-7913
email : mahoney@jmpe.net
www.jmpe.net
REGISTERED PROFESSIONAL ENGINEER JAMES M. MALONEY ELECTRICAL STATE OF CALIFORNIA

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

integrated designs by SOMAM, Inc.
ARCHITECTURE · ENGINEERING · INTERIOR DESIGN · CONSTRUCTION MANAGEMENT
6011 N. Fresno, Suite 130 – Fresno, California 93710
Phone (559)436-0881 Fax (559) 436-0887 E-Mail: design@somam.com
www.integrateddesigns.com

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

Sheet Title: FIRE ALARM SINGLE LINE DIAGRAM CALCULATIONS

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
Designer: DESIGNER
DR: DRAFTER
PC: CJM

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

Stamp(s):
LICENSED ARCHITECT CURTIS E. MCNALLY No. C 28966 REN. 5-31-10 STATE OF CALIFORNIA

Job No.: 3832

Sheet No.: X12-E-3.2

Release: CURTIS MCNALLY

American Modular Systems Inc.

12'x40' RELOCATABLE BUILDING
BAKERSFIELD SCHOOL DISTRICT
MUNSEY ELEMENTARY SCHOOL

EXPOSED – STEEL

MODULAR STEEL MOMENT FRAME TEST & INSPECTION GUIDELINE

A SEPARATE TEST AND INSPECTION LIST IS TO BE SUBMITTED AS PART OF THE APPROVAL PROCESS.
THIS GUIDE DOES NOT REPLACE THE TEST AND INSPECTION LIST

TYPE OF MODULAR STEEL MOMENT FRAME BUILDING PROJECT
(X - INDICATES TEST OR INSPECTION TO BE DONE)

TESTS and INSPECTIONS			STOCKPILE		CONSTRUCTION OF (diaphragm material-foundation material)			RELOCATION OF CERTIFIED BUILDING	
MATERIAL TYPE		DESCRIPTION	Wood Floor Only	Concrete Floors	Plywood Floor Only - Wood Foundation	Plywood Floor - Concrete Foundation	Concrete Floor - Concrete Foundation	Wood Foundation	Concrete Foundation
COMPACTED FILL (Two Story Relocatable)	By Geotech	Fill Materials				X	X		X
		Proper fill materials, lift thickness, placement and compaction during placement. Continuous				X	X		X
		Compaction test only as ordered				X	X		X
CONCRETE	LT WT FILL OVER DECK (TWO STORY)	Mix Design							
		Waiver of Batch Plant Inspection **See Note 1** for conditions and requirements							
		Inspect Placing over Steel Deck - by RBIP							
		Slump Test; determine Temperature of Concrete See **Note 2** for additional test							
		Compression Tests							
	FOUNDATION	Mix Design				X			X
		Waiver of Batch Plant Inspection See **Note 1** for conditions and requirements				X	X		X
		Inspect Placing - by Project Inspector				X	X		X
		Slump Test; determine Temperature of Concrete See **Note 2** for additional test				X	X		X
		Compression Tests				X	X		X
REINFORCING STEEL		Sample and Test Bar Steel - #5 & Larger				X	X		X
		Inspect Placing at Project Site - by Project Inspector				X	X		X
STRUCTURAL STEEL		Mfr. Certified Mill Test Reports	X	X	X	X	X		
		Shop Fabrication	X	X	X	X	X		
		Inspection of Welds - Shop	X	X	X	X	X		
		Inspection of Welds - Field See **Note 3**			X	X	X	X	X
		Sample and Test all Unidentified Structural Steel and Steel Deck	X	X	X	X	X		
		Examine seam welds of structural tubes and pipes	X	X	X	X	X		
GROUNDING		Electrical grounding			X	X	X	X	X
SHOT PINS		Ceiling wire hangers	X	X	X	X	X		
EXPANSION ANCHORS		See **Note 4**				X	X		X
EPOXY ANCHORS		See **Note 4**				X	X		X
INSPECTOR CLASS (minimum requirements)			RBIP or Class 1		In Plant: RBIP or Class 1 Site: Class 4			Class 4	
SELECTION OF THE PROJECT INSPECTOR AND TESTING AGENCY			By the Owner and approved by DSA, A/E of Record and Structural Engineer		By the School District and approved by DSA, A/E of Record and Structural Engineer				
COST OF THE PROJECT INSPECTOR (CA Admin Code 4-333(b) AND TESTING AGENCY (CA Admin Code 4-335)			By the Owner		By the School District				
COPIES OF THE REPORT TO:			DSA (Original) I.O.R./ P.I Manufacturer Arch/SE noted on DSA-1			Architect School District I.O.R./ P.I	Structural Engineer DSA (Original) Manufacturer		

ITEMS IN RED FONT COLOR ARE USER NOTES AND INDICATE ITEMS THAT NEED TO BE VERIFIED FOR EACH SPECIFIC PC.
THE NOTES IN RED ABOVE AND BELOW ARE TO BE REMOVED PRIOR TO PLACING THE GUIDELINE ON THE DRAWINGS

Note 1:
Verify that Either Condition a or b are met:
a) Concrete Plant complies fully with ASTM C94, Section 8 and 9, and has a current certification indicating the plant has automatic batching and recording capabilities from the National Ready Mixed Concrete Association
b) Compressive strength: 3500 psi Specified - 2500 psi Design
Requirements c thru f are met:
c) Inspector to check first batching at start of work and furnish mix proportions to licensed weighmaster
d) Licensed Weighmaster to positively identify materials as to quantity and certify each load by a ticket
e) Tickets transmitted to Inspector of Record
f) Submit Weighmaster Affidavit

Note 2: Air Content Test as required based on site location (for cold weather conditions)
Note 3: Required where the details of the PC specify a Welding
Note 4: Required where the details of the PC specify the use of this type of anchor

BUILDING DATA	
OCCUPANCY	E OR B, OR A CATEGORY I & II WITH OCCUPANT LOAD LESS THAN 300.
TYPE OF CONSTRUCTION	VB
WIND LOAD	V= 85 MPH K_{zt} = 1.00 EXPOSURE = C λ = 1.21 I = 1.00
FLOOR LIVE LOAD	50 LBS.
ROOF LIVE LOAD	20 LBS/SQ FT
FIRE SPRINKLER SYSTEM WEIGHT (PSF)	1.5
ALLOWABLE SOIL PRESSURE (PSF)	1,000 FOR WOOD
FLOOD HAZARD AREA	NO
BUILDING AREA	480 SQ FT
CLIMATE ZONES	1–16
MODULES	MOMENT–RESISTANT
SYSTEM	12' x 40' MODULES
FOUNDATION TYPE	CONCRETE / WOOD
SEISMIC	S_S = 1.5 S_{D1} = 0.000 T = 0.190 S_1 = 0.000 I = 1.00 Site Class = D F_a = 1.0 R = 3.50 Seismic design F_v = 0.0 Ω_0 = 3.00 category = D S_{DS} = 1.000 C_d = 3.000

APPLICABLE CODES

PARTIAL LIST OF APPLICABLE CODES AS OF JANUARY 1, 2008
2007 BUILDING STANDARDS ADMINISTRATIVE CODE, PART 1, TITLE 24 C.C.R.
2007 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R.
(2006 INTERNATIONAL BUILDING CODE VOLUMES 1–3 AND 2007 CALIFORNIA AMENDMENTS)
2007 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R.
(2005 NATIONAL ELECTRICAL CODE AND 2007 CALIFORNIA AMENDMENTS)
2007 CALIFORNIA MECHANICAL CODE (CMC) PART 4, TITLE 24 C.C.R.
(2006 UNIFORM MECHANICAL CODE AND 2007 CALIFORNIA AMENDMENTS)
2007 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 C.C.R.
(2006 UNIFORM PLUMBING CODE AND 2007 CALIFORNIA AMENDMENTS)
2007 CALIFORNIA ENERGY CODE, PART 6, TITLE 24 C.C.R.
2004 SAFETY CODE FOR ELEVATORS AND ESCALATORS (ASME A17.1–2004)
2007 CALIFORNIA FIRE CODE, PART 9, TITLE 24 C.C.R.
(2006 INTERNATIONAL FIRE CODE AND 2007 CALIFORNIA AMENDMENTS)
2007 CALIFORNIA EXISTING BUILDING CODE, PART 10, TITLE 24 C.C.R.
(2006 INTERNATIONAL EXISTING BUILDING CODE AND 2007 CALIFORNIA AMENDMENTS)
2007 CALIFORNIA "GREEN" BUILDING REQUIREMENTS, PART 11, TITLE 24 C.C.R. (PENDING ADOPTION)
2007 CALIFORNIA REFERENCED STANDARDS, PART 12, TITLE 24 C.C.R.
TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS.
PARTIAL LIST OF APPLICABLE STANDARDS

NFPA 13	Automatic Sprinkler Systems	2002 Edition
NFPA 14	Standpipe Systems	2003 Edition
NFPA 17	Dry Chemical Extinguishing Systems	2002 Edition
NFPA 17a	Wet Chemical Systems	2002 Edition
NFPA 20	Stationary Pumps	2003 Edition
NFPA 24	Private Fire Mains	2002 Edition
NFPA 72	National Fire Alarm Code (California Amended) (Note See UL, Standard 1971 for "Visual Devices")	2002 Edition
NFPA 253	Critical Radiant Flux of Floor Covering Systems	2006 Edition
NFPA 2001	Clean Agent Fire Extinguishing Systems	2004 Edition
ASME 17.1	Elevator Standard	2004 Edition

Reference code sections for applicable Standards – 2007 CBC Chapter 35 and 2007 CFC Chapter 45.

GENERAL NOTES

1. PC BUILDING EXITING IS BASED ON THE USE OR OCCUPANCY AND WILL BE REVIEWED AS SITE SPECIFIC.
2. PC BUILDING LOCATED IN FIRE HAZARD SEVERITY ZONES PER WILDLAND URBAN INTERFACE FIRE AREAS (WUI) SHALL CONFORM TO CBC CHAPTER 7A.
3. SITE USE SPECIFIC REQUIREMENT FOR AUTOMATIC SPRINKLER SYSTEM MIGHT BE REQUIRED BUT NOT INCLUDED IN THIS PC APPROVAL.

DRAWING INDEX

BASED ON PC# 02–109808

REVISIONS		
NO	DATE	DESCRIPTION
1		
2		
3		
4		

DATE: 01/14/10
SCALE: NOTED
DRAWN BY: RS
SERIAL NO.:

CUSTOMER:
BAKERSFIELD SCHOOL DISTRICT
MUNSEY ELEMENTARY SCHOOL

12'X40' RELOCATABLE BUILDING
COVER SHEET

American Modular Systems Inc.
787 Spreckels Ave, Manteca, CA 95336
(209)825-1921 Fax (209)825-7018
americanmodular.com

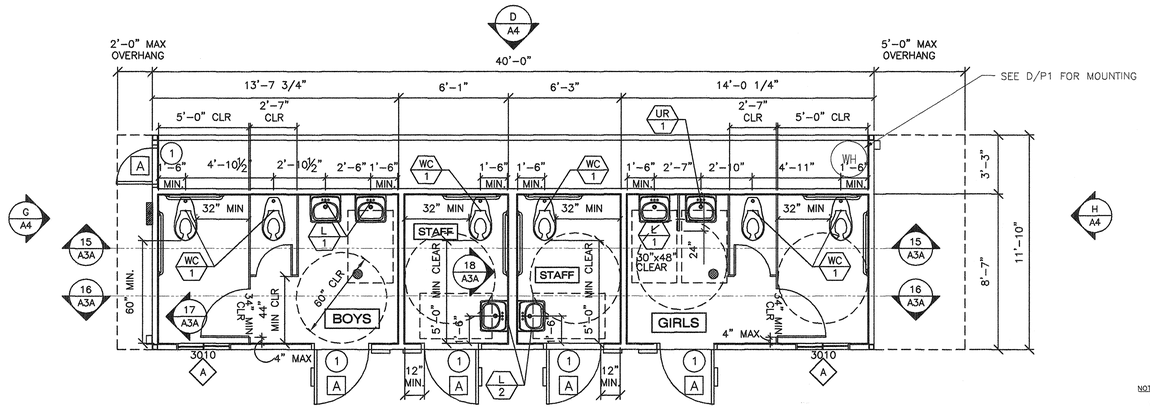
APPROVALS:

LICENSED ARCHITECT RAMON PATRICK SHANNON No. C12631 Ren. 2-31-11 STATE OF CALIFORNIA

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
03-112985
AC. 4 FLS. SS
DATE 2/10/10

PROJECT No.

T-S



NOTES:

1. CLOSER END CAPS ON FRONT AND REAR OF ROOF DECK. NO EXPOSED RIBS.
2. SOLID PLYWOOD DECK WITH FELT UNDERLAYMENT AT ALL STANDING SEAM METAL ROOFS.
3. CLOSED EAVES. NO EXPOSED ROOF-FRAMING.

3 / A1 RESTROOM FLOOR PLAN
1/4"=1'-0" OPTION #3

- SHEET NOTES -

1. 3'-0" x 1'-0" WINDOW
2. ROOM I.D SIGNAGE PER DETAIL 2 & 7/AD (BY OWNER)
3. RESTROOM I.D SIGNAGE PER DETAIL 1 & 6/AD (BY OWNER)
4. FIRE EXTINGUISHER TOP OF BRACKET @ +48" A.F.F.
5. EXIT TACTILE SIGN PER DETAIL 10/AD (BY OWNER)
6. HVAC UNIT (LOCATION MAY VARY)
7. ELECTRICAL PANEL (LOCATION MAY VARY)
8. DOWNSPOUT (QUANITY & LOCATION MAY VARY)
9. FLOOR DRAIN (LOCATION MAY VARY) TYP.
10. FLOOR LIVE LOAD SIGN PER 1603A.3 2007 CBC
11. OPTIONAL TYPICAL RAMP REFER TO SHEET S6R FOR DETAILS
12. CLASSROOM ID & ISA PER DETAIL 5 & 9/AD

- GENERAL NOTES -

1. REFER TO SHEETS A2 & A2.1 FOR ADDITIONAL FLOOR PLAN CONFIGURATIONS
2. INTERIOR WALLS MAY OCCUR THROUGHOUT BUILDING REFER TO SHEET S5A FOR ATTACHMENTS.
3. PANIC HARDWARE IS REQUIRED TO BE INSTALLED WHEN THE CONFIGURATION OF ANY ROOM PROVIDES AN OCCUPANT LOAD OF 50 OR GREATER CBC 1008.1.9
4. IF OCCUPANCY LOAD EXCEEDS 50 PROVIDE A SECOND EXIT DOOR PER CBC TABLE 1015.1
5. PROVIDE OCCUPANT LOAD SIGN (BY OWNER) CAPACITY POSTING PER CBC SECTION 1004.3 TITLE 19 C.C.R. SECTION 3.3.0. THIS ROOM SHALL BE POST WITH A DURABLE SIGN NEAR THE MAIN EXIT FROM THE ROOM.

SYMBOL SCHEDULE

(#)	DOOR (REFER TO SHEET A3 FOR TYPES)
[X]	DOOR HARDWARE TYPE REFER TO DOOR HARDWARE SCHEDULE
◇A	WINDOW (REFER TO SHEET A3 FOR TYPES)

DOOR HARDWARE SCHEDULE

A	EXTERIOR DOOR LOCKSET W/ LEVER HARDWARE PROVIDED BY DISTRICT
B	EXTERIOR DOOR PANIC BAR ~~W/ PULL ON EXTERIOR~~ VON DUPRIN 22Lx230NL (WHEN REQUIRED)

Exterior Door
A) Hinges: Hager 4-1/2X4-1/2 butts, BB1279 US26D,1-1/2 pair each door with set screw in barrel and ball bearing design
C) Closer: Norton 7500DA or 8500BF series, LCN 1460 Del series or equal. (5 lbs. max. pressure) (15 lbs. max at fire doors.)
D) Weatherstripping: All exterior doors shall be weatherstripped w/ Pemko 299D, Ultra WS007, at door jambs and head or equal.
E) Threshold: Threshold shall be Pemko 271 AV 5" X 1/4" THICK aluminum with Pemko 216 AV Ultra TH042 door bottom.

BASED ON PC# 02-109808

REVISIONS

NO	DATE	DESCRIPTION
1		
2		
3		
4		

DATE: 01/12/10
SCALE: NOTED
DRAWN BY: RS
SERIAL NO.:

CUSTOMER:
BAKERSFIELD SCHOOL DISTRICT
MUNSEY ELEMENTARY SCHOOL

12' x 40' RELOCATABLE BUILDING
TYPICAL FLOOR PLANS

American Modular Systems Inc.
787 Spreckels Ave. Manteca, CA 95336
(209)825-1921 Fax (209)825-7016
americanmodular.com

APPROVALS:

LICENSED ARCHITECT RANDALL PATRICK CAVANAGH No. C12631 Ren. 8-31-11 STATE OF CALIFORNIA

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
02-112485
AC. FLS. SS
DATE 2/10/10

PROJECT No.

A1

ROOM FINISHES SCHEDULE

ROOM NUMBER	ROOM NAME	FINISHES: FLOOR	BASE	WALLS: FRONT	REAR	RIGHT	LEFT	CEILING	CEILING HEIGHT	REMARKS
1	GIRLS RESTROOM	B	E	I	I	I	I	G	8'-6"	
2	STAFF RESTROOM	B	E	I	I	I	I	G	8'-6"	
3	STAFF RESTROOM	B	E	I	I	I	I	G	8'-6"	
4	BOYS RESTROOM	B	E	I	I	I	I	G	8'-6"	

A – CARPET PER STATE OF CALIF SPEC COMPLYING WITH GROUP 1, TYPE A OR TYPE B, CLASS 2, DENSITY 4600, DIRECT GLUE DOWN.
B – VINYL SHEET FLOORING
C – VCT. ARMSTRONG STANDARD OR EXCELON
D – TOP SET BASE. 4" BURKE
E – TOP SET BASE. 6" BRINGANTINE OR SANDOVAL
F – WALL FINISH. 1/2" VINYL TACKBOARD CLASS 1 OVER 1/2" GYP BOARD BACKING
G – 1/2" W.R. GYP BOARD. TAPE, TEXTURE, PAINTED FINISH
H – 1/2" GYP BOARD. TAPE, TEXTURE, PAINTED FINISH
I – 3/32" F.R.P. OVER 1/2" W.R. GYP BOARD
J – ACOUSTICAL LAY IN GRID CEILING PANELS (SEE SPECIFICATIONS)
K – 1/2" VINYL TACKBOARD CLASS 1 OVER 5/8" TYPE "X" GYP BOARD BACKING
L – 5/8" TYPE "X" GYP BOARD. TAPE, TEXTURE, PAINTED FINISH

DOOR SCHEDULE

DOOR NO.	FRAME OPENING SIZE	DOORS: MATERIAL	FIRE RATING	HARDWARE SET NO.	QUANTITY	FRAMES: MATERIAL	HEAD DETAIL	JAMB DETAIL	REMARKS
1	3'-0 x 7'-0"	HM		A	1	STL	5/A5	4/A5	
2	3'-0 x 7'-0"	HM		A	1	STL	5/A5	4/A5	
3	2'-0 x 7'-0"	HM		A	1	STL	5/A5	4/A5	

HM – HOLLOW METAL
AL – ALUMINUM
SST – STAINLESS STEEL
STL – STEEL FRAME. 16 ga. FULLY WELDED
WWF – WINDOW WALL FRAME
SC – SOLID CORE WOOD
HC – HOLLOW CORE WOOD

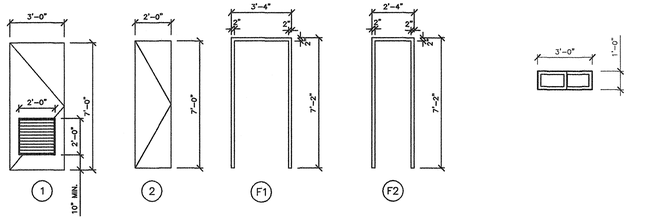
*CLASSROOMS > 1000 S.F WILL REQ PANIC HARDWARE PER CBC 1008.1.9

NOTE: REFER TO SHEETS A5A, A6A & A7A FOR HEAD & JAMB DOOR DETAILS W/ OPTIONAL EXTERIOR FINISHES

WINDOW SCHEDULE

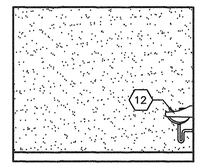
WINDOW NO.	AMT.	TYPE	WIDTH	HEIGHT	FINISH	GLASS TYPE	U-FACTOR	SHGC
1	2	SLIDER	3'-0"	1'-0"	BRONZE	OBSCURE	0.780	0.430

EXTERIOR LITE – 3/16" MINIMUM TEMPERED GLASS OR LAMINATED AS – 1 GLASS OF SOLAR GRAY GLARE REDUCING TYPE WITH A LIGHT TRANSMISSION FACTOR OF 45% MAXIMUM.

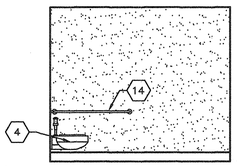


5 / A3 DOOR AND DOOR FRAME TYPES 3/8"=1'-0"

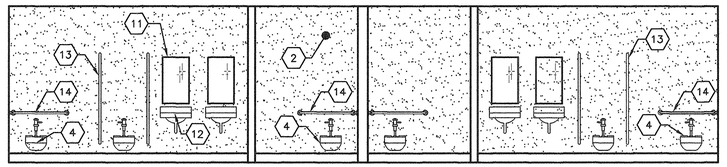
6 / A3 WINDOW TYPES 3/8"=1'-0"



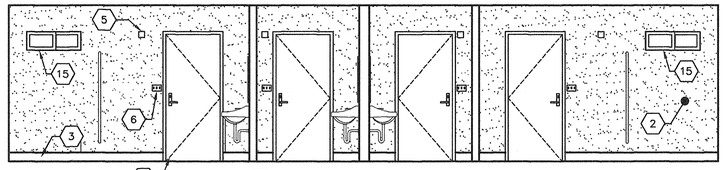
13 / A3A RESTROOM ELEVATION 1/4"=1'-0" (BOYS)



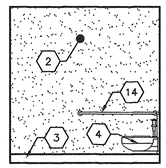
14 / A3A RESTROOM ELEVATION 1/4"=1'-0" (BOYS)



15 / A3A RESTROOM ELEVATION 1/4"=1'-0" OPTION #3

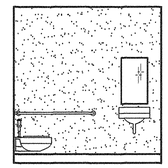


16 / A3A RESTROOM ELEVATION 1/4"=1'-0" OPTION #3



17 / A3A INTERIOR ELEVATION 1/4"=1'-0" OPTION #3

NOTE:
REFER TO SHEET AD
FOR REQUIRED HEIGHTS



18 / A3A INTERIOR ELEVATION 1/4"=1'-0" OPTION #3

- STANDARD EQUIPMENT SCHEDULE -

A. SEWER AND WATER STUB OUTS – SHALL BE LOCATED WITHIN THE ALLOWABLE AREA AS SHOWN ON FLOOR PLAN AND CONNECTIONS SHOULD BE EASILY ACCESSIBLE FOR FUTURE RELOCATION. STUB OUT HEIGHT SHOULD BE COORDINATED WITH THE MANUFACTURER.
B. PIPING – WATER, COPPER TYPE "L", 95/5 SOLDER, WASTE DRAIN AND VENT ABS.
C. TOILET TISSUE DISPENSER – BRADLEY MODEL 508–32 OR EQUAL
D. TOILET PARTITIONS – ACCURATE SOLID PLASTIC OR EQUAL
E. TOILET SEAT COVER – BOBRICK B–221 OR EQUAL

- SHEET NOTES -

1. RESTROOM CONFIGURATION MAY VARY PER BUILDING CONFIGURATION
2. INTERIOR WALLS MAY OCCUR THROUGHOUT BUILDING REFER TO SHEET S5A FOR ATTACHMENTS.
3. REFER TO SCHEDULE 15/AD FOR ACCESSIBLE HEIGHTS @ TOILETS
4. REFER TO DETAILS 16 & 17/AD FOR TOILET ANCHORAGE

- KEY NOTES -

1. TYP EXTERIOR DOOR
2. F.R.P. FIBER REINFORCED PLASTIC
2A. VINYL WRAPPED TACKABLE WALLS
3. 6" BASE
3A. 4" BASE
4. TYP. TOILET
5. HORN/STROBE J–BOX SEE ELECTRICAL SHEETS
6. LIGHT SWITCH SEE ELECTRICAL SHEETS
7. NOT USED
8. TYP GFIC OUTLET SEE ELECTRICAL SHEETS
9. WATER HEATER FOR DETAILS REFER TO SHEET 9/M2
10. TYP. URINAL
11. TYP. MIRROR
12. TYP. LAVATORY
13. TOILET PARTITION
14. GRAB BAR
15. TYP. WINDOW

NOTE: ALL INTERIOR SURFACE REQUIREMENTS PER CBC CHAPTER 11

- BUILDING FIXTURE SCHEDULE -

MARK	FIXTURE	TYPE @ KINDERGARTEN	TYPE @ ELEMENTARY	TYPE @ ADULT	REMARKS
WC 1	WATER CLOSET	WALL MOUNT TYPE AMERICAN STANDARD MODEL AFWALL 2257.103 OR EQUAL	WALL MOUNT TYPE AMERICAN STANDARD MODEL AFWALL 2257.103 OR EQUAL	WALL MOUNT TYPE AMERICAN STANDARD MODEL AFWALL 2257.103 OR EQUAL	MOUNT AS SPECIFIED IN FLOOR PLANS
WC 2	WATER CLOSET	FLOOR MOUNT TANK TYPE AMERICAN STANDARD MODEL BABY DEVORO 2315.016 OR EQUAL	FLOOR MOUNT TANK TYPE AMERICAN STANDARD MODEL COLONY 2399.010 OR EQUAL	FLOOR MOUNT TANK TYPE AMERICAN STANDARD MODEL CADET 2998.012 OR EQUAL	MOUNT AS SPECIFIED IN FLOOR PLANS
WC 3	WATER CLOSET	FLOOR MOUNT FLUSH VALVE TYPE AMERICAN STANDARD MODEL BABY DEVORO 2282.010 OR EQUAL	FLOOR MOUNT FLUSH VALVE TYPE AMERICAN STANDARD MODEL MADERA 2234.015 OR EQUAL	FLOOR MOUNT FLUSH VALVE TYPE AMERICAN STANDARD MODEL MADERA 3043.102 OR EQUAL	FLUSH VALVE ZURN MODEL Z6000 OR EQUAL. MOUNT AS SPECIFIED IN FLOOR PLANS
L 1	LAVATORY	KOHLER MODEL HUDSON #K–2861 OR EQUAL	———	———	CHICAGO SINGLE CONTROL LAVATORY FAUCET 3300–CP STAFF OR 3400–CP STUDENT IN FLOOR PLANS
L 2	LAVATORY	AMERICAN STANDARD MODEL LUCERNE 0355.012 OR EQUAL	———	———	AS SPECIFIED IN FLOOR PLANS
UR 1	URINAL	WALL MOUNT TYPE AMERICAN STANDARD MODEL ALLBROOK 6541.132 OR EQUAL	———	———	FLUSH VALVE ZURN MODEL Z6003 OR EQUAL. MOUNT AS SPECIFIED IN FLOOR PLANS
M 1	MIRROR	WALL MOUNT TYPE BRADLEY MODEL 781–1830 OR EQUAL	———	———	MOUNT AS SPECIFIED IN FLOOR PLANS
GB 1	36" GRAB BARS	WALL MOUNT TYPE CREATIVE SPECIALTIES INTERNATIONAL MODEL R7436 (1 1/4" EXPOSED SCREW 36" & 42") OR EQUAL	———	———	18 GA. 304 STAINLESS STEEL SATIN FINISH MOUNT AS SPECIFIED IN FLOOR PLANS (STRUCTURAL STRENGTH OF GRAB BARS 250# MIN.)
GB 2	42" GRAB BARS				
WH 1	WATER HEATER (WH)	RHEEMGLAS ENERGY MISER ELECTRIC WATER HEATER RHEEM POINT OF USE MODEL 81VP2S THRU 82VP30–1 OR EQUAL	———	———	AVAILABLE IN 2 1/2, 6, 10, 15, 20 AND 30 GALLON MODELS MOUNT AS SPECIFIED IN FLOOR PLANS
FLS 1	FLOOR SINK	FLORESTONE FLOOR SINK MOLDED MOP RECEPTORS MODEL MSR–2424	———	———	AMERICAN STANDARD EXPOSED YOKE WALL MOUNT UTILITY FAUCET MODEL 8344.112
ULS 1	UTILITY SINK	WALL MOUNT TYPE ELJER RADFORD SINK MODEL 241–0354	———	———	AMERICAN STANDARD EXPOSED YOKE WALL MOUNT UTILITY FAUCET MODEL 8344.112
FV 1	FLUSH VALVE	SLOAN REGAL FLOSHOMETER MODEL #111	———	———	FLOW OPTIONS: 1.6 GAL. LOW CONSUMPTION FLUSH WATER CLOSET VALVE MOUNT AS SPECIFIED IN FLOOR PLANS. HANDLE AT WIDE SIDE
FV 2	FLUSH VALVE	ZURN FLUSH VALVE MODEL EXPOSED Z6003	———	———	FLOW OPTIONS: 1.0 GAL. LOW CONSUMPTION FLUSH 3/4" URINAL VALVE MOUNT AS SPECIFIED IN FLOOR PLANS. HANDLE AT WIDE SIDE
CS 1	CLASSROOM SINK	TEKA SINGLE BOWL SINK MODEL #256–413 OR EQUAL	———	———	AS SPECIFIED IN FLOOR PLANS
CS 1	KITCHEN SINK	TEKA DOUBLE BOWL SINK MODEL #336–413 OR EQUAL	———	———	AS SPECIFIED IN FLOOR PLANS

A / A3A FIXTURE CALL OUTS

BASED ON PC# 02–109808

REVISIONS

NO	DATE	DESCRIPTION
1		
2		
3		
4		

DATE: 01/12/10
SCALE: NOTED
DRAWN BY: RS
SERIAL NO.:

CUSTOMER:
BAKERSFIELD SCHOOL DISTRICT
MUNSEY ELEMENTARY SCHOOL

12'X40' RELOCATABLE BUILDING
TYPICAL RESTROOM INTERIOR ELEVATIONS

American Modular Systems Inc.
787 Spreckels Ave. Manteca, CA 95336
(209)825-1921 Fax (209)825-7018
americanmodular.com

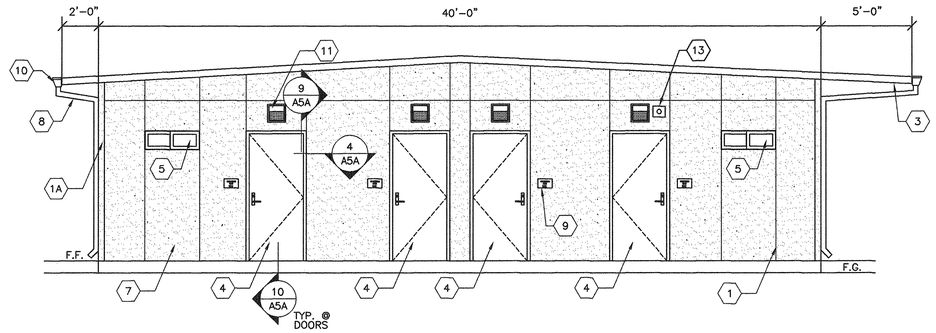
APPROVALS:

LICENSED ARCHITECT RANDALL PATRICK CAVANAUGH No. C12631 Ren. 2-31-11 STATE OF CALIFORNIA

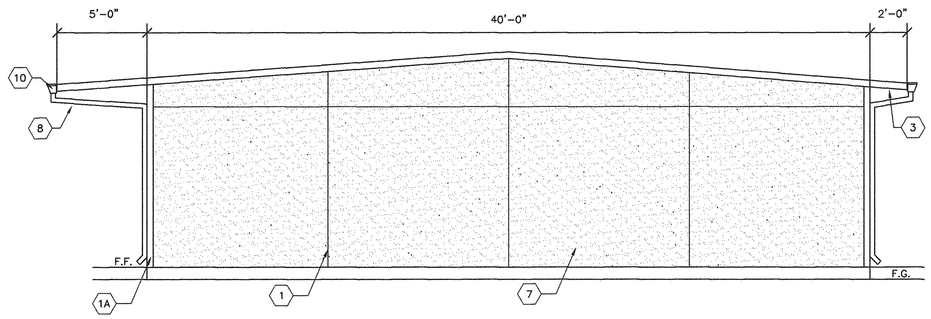
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
02-112985
AC. FLS. SS.
DATE 2/10/10

PROJECT No.

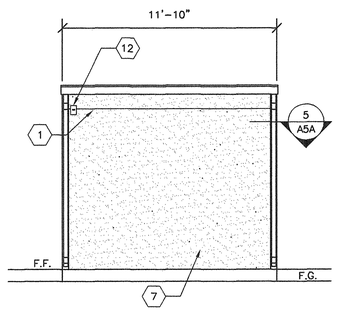
A3



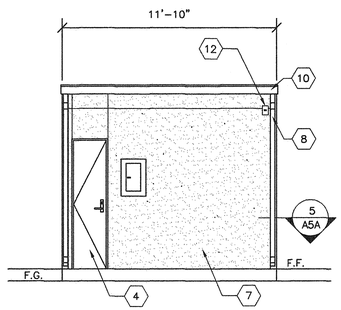
A / A5 FRONT EXTERIOR ELEVATION
1/4"=1'-0"



D / A5 REAR EXTERIOR ELEVATION
1/4"=1'-0"



G / A5 SIDE EXTERIOR ELEVATION
1/4"=1'-0"



H / A5 SIDE EXTERIOR ELEVATION
1/4"=1'-0"

- SHEET NOTES -

1. CONTROL JOINT (LOCATIONS MAY VARY)
1A. 16 GA. FLASHING TRIM @ MODLINES TYP.
2. STANDING SEAM METAL ROOFING
3. OVERHANG
4. TYPICAL EXTERIOR DOOR
5. WINDOW SEE SPEC'S
6. HVAC UNIT TYP.
7. ACRYLIC TEXTURED FINISH OVER HARDI-BOARD
8. DOWNSPOUT (QUANTITY & LOCATION MAY VARY)
9. ROOM ID SIGNAGE (NIC) TYP REFER TO DETAIL 5/AD
10. GUTTER
11. EXTERIOR LIGHT FIXTURE TYP
12. MODULAR IDENTIFICATION TAG, +90" ABOVE F.F.
13. FIRE ALARM HORN (REFER TO E1)
14. WP/G.F.C.I TYP. @ HVAC UNITS SEE ELECTRICAL SHEETS.

R. RAMP NOT SHOWN FOR RAMP DETAILS REFER TO SHEET S6R

BASED ON PC# 02-109808

REVISIONS

NO	DATE	DESCRIPTION
1		
2		
3		
4		

DATE: 01/12/10
SCALE: NOTED
DRAWN BY: RS
SERIAL NO.:

CUSTOMER:
BAKERSFIELD SCHOOL DISTRICT
MUNSEY ELEMENTARY SCHOOL

12'X40' RELOCATABLE BUILDING
TYPICAL EXTERIOR ELEVATIONS (SYNT. STUCCO OPTION)

American Modular Systems Inc.
787 Spreckels Ave. Manteca, CA 95336
(209)825-1921 Fax (209)825-7018
americanmodular.com

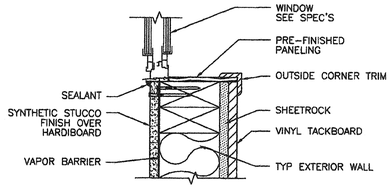
APPROVALS:

LICENSED ARCHITECT — No. C12631 Ren. 3-31-11 — STATE OF CALIFORNIA

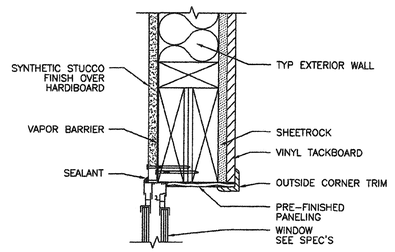
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
03-112985
AC. FLS SS
DATE 7/16/10

PROJECT No.

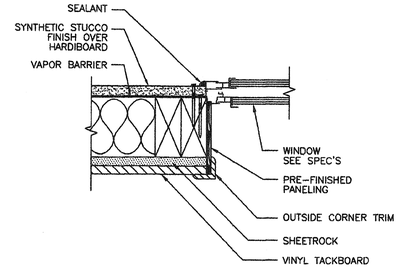
A5



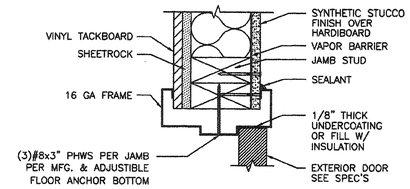
1 A5A **TYP WINDOW SILL DETAIL** 3"=1'-0"



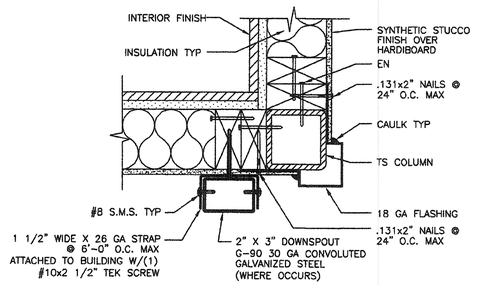
2 A5A **TYP WINDOW HEADER DETAIL** 3"=1'-0"



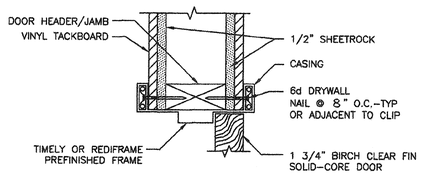
3 A5A **TYP WINDOW JAMB DETAIL** 3"=1'-0"



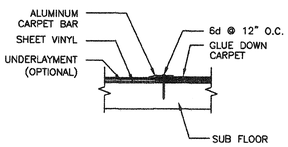
4 A5A **TYP DOOR JAMB DETAIL** 3"=1'-0"



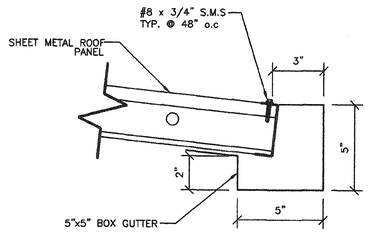
5 A5A **DOWSPOUT ATTACHMENT DETAIL** 3"=1'-0"



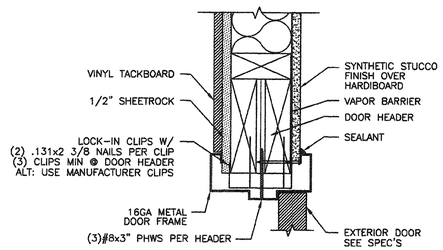
6 A5A **TYP INTERIOR DOOR HEADER DETAIL** 3"=1'-0"



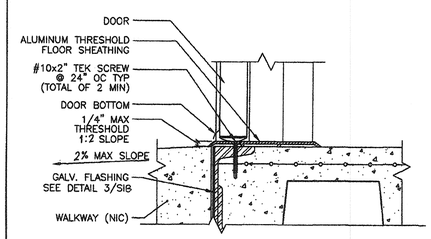
7 A5A **FLOORING DETAIL** 3"=1'-0"



8 A5A **TYP GUTTER ATTACHMENT DETAIL** 3"=1'-0"



9 A5A **TYP DOOR HEADER DETAIL** 3"=1'-0"



10 A5A **THRESHOLD DETAIL** 1 1/2"=1'-0"

REVISIONS

NO	DATE	DESCRIPTION
1		
2		
3		
4		

DATE: 2/24/09

SCALE: NOTED

DRAWN BY: DM

SERIAL NO.:

CUSTOMER:

12'X40' RELOCATABLE BUILDING
ARCHITECTURAL DETAILS (SYNT. STUCCO OPTION)

American Modular Systems Inc.
787 Synergistic Ave. Manteca, CA 95336
(209)825-1921 Fax (209)825-7018
americanmodular.com

APPROVALS:

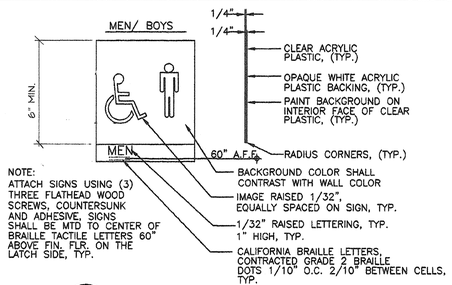
REGISTERED PROFESSIONAL ENGINEER — ANDREW PATRICK DONAHUE — No. C12631 Ren. 3-31-09 — STATE OF CALIFORNIA

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
03-112985
AC FLS SS
DATE 5/6/09

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
PC 02-109808
AC FLS SS
DATE 5/6/09

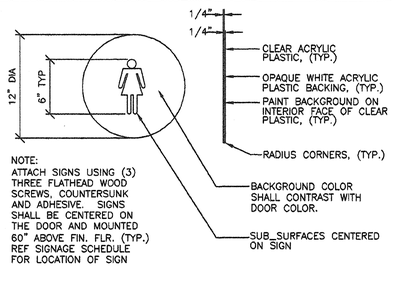
PROJECT No.

A5A



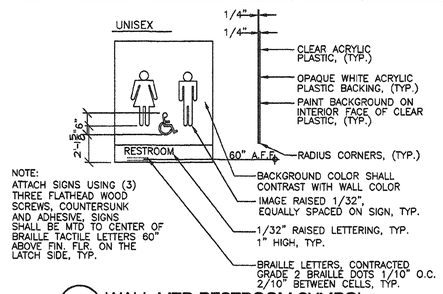
NOTE:
ATTACH SIGNS USING (3) THREE FLATHEAD WOOD SCREWS, COUNTERSUNK AND ADHESIVE. SIGNS SHALL BE MTD TO CENTER OF BRAILLE TACTILE LETTERS 60" ABOVE FIN. FLR. ON THE LATCH SIDE, TYP.

1 AD — WALL MTD RESTROOM SYMBOL
N.T.S.



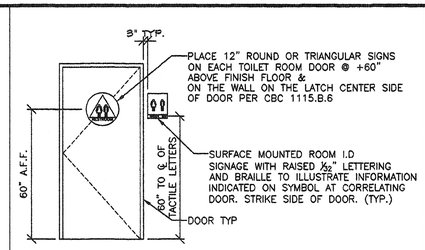
NOTE:
ATTACH SIGNS USING (3) THREE FLATHEAD WOOD SCREWS, COUNTERSUNK AND ADHESIVE. SIGNS SHALL BE CENTERED ON THE DOOR AND MOUNTED 60" ABOVE FIN. FLR. (TYP.) REF SIGNAGE SCHEDULE FOR LOCATION OF SIGN

2 AD — WOMEN'S RESTROOM SIGNAGE
N.T.S.

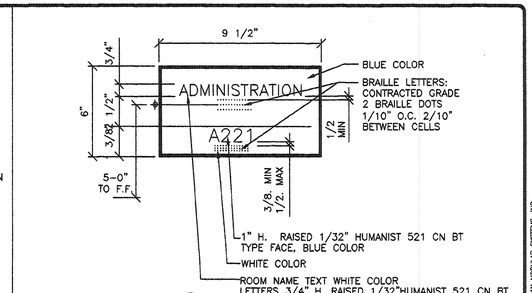


NOTE:
ATTACH SIGNS USING (3) THREE FLATHEAD WOOD SCREWS, COUNTERSUNK AND ADHESIVE. SIGNS SHALL BE MTD TO CENTER OF BRAILLE TACTILE LETTERS 60" ABOVE FIN. FLR. ON THE LATCH SIDE, TYP.

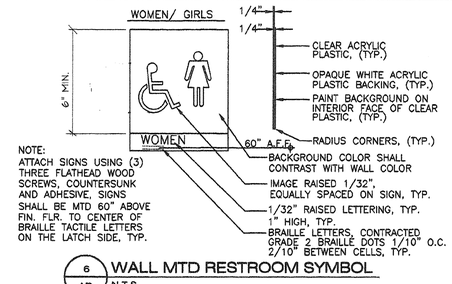
3 AD — WALL MTD RESTROOM SYMBOL
N.T.S.



4 AD — ROOM IDENTIFICATION SIGNAGE
N.T.S.

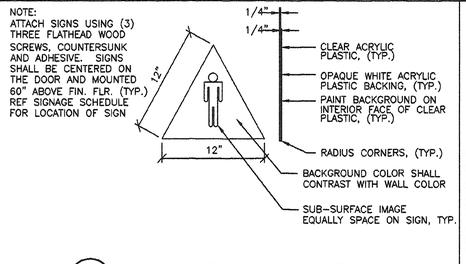


5 AD — ROOM I.D. SIGNAGE
N.T.S.



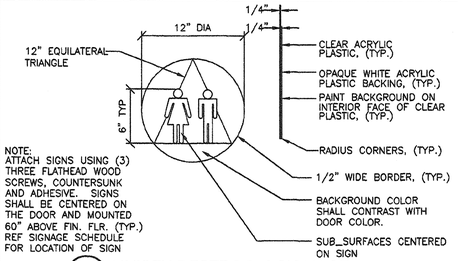
NOTE:
ATTACH SIGNS USING (3) THREE FLATHEAD WOOD SCREWS, COUNTERSUNK AND ADHESIVE. SIGNS SHALL BE MTD 60" ABOVE FIN. FLR. TO CENTER OF BRAILLE TACTILE LETTERS ON THE LATCH SIDE, TYP.

6 AD — WALL MTD RESTROOM SYMBOL
N.T.S.



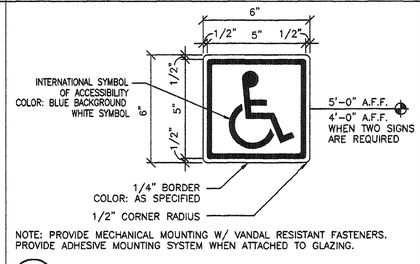
NOTE:
ATTACH SIGNS USING (3) THREE FLATHEAD WOOD SCREWS, COUNTERSUNK AND ADHESIVE. SIGNS SHALL BE CENTERED ON THE DOOR AND MOUNTED 60" ABOVE FIN. FLR. (TYP.) REF SIGNAGE SCHEDULE FOR LOCATION OF SIGN

7 AD — MEN'S RESTROOM SIGNAGE
N.T.S.



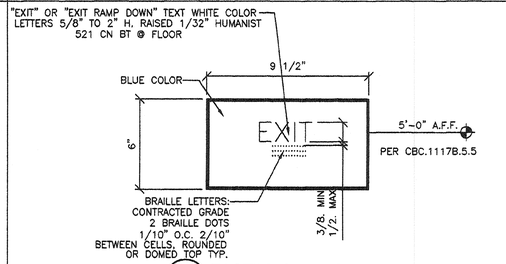
NOTE:
ATTACH SIGNS USING (3) THREE FLATHEAD WOOD SCREWS, COUNTERSUNK AND ADHESIVE. SIGNS SHALL BE CENTERED ON THE DOOR AND MOUNTED 60" ABOVE FIN. FLR. (TYP.) REF SIGNAGE SCHEDULE FOR LOCATION OF SIGN

8 AD — UNISEX RESTROOM SIGNAGE
N.T.S.



NOTE: PROVIDE MECHANICAL MOUNTING W/ VANDAL RESISTANT FASTENERS. PROVIDE ADHESIVE MOUNTING SYSTEM WHEN ATTACHED TO GLAZING.

9 AD — INTERNATIONAL SIGN OF ACCESSIBILITY
N.T.S.



10 AD — TACTILE SIGNAGE
N.T.S.

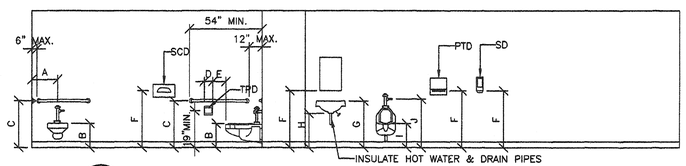
DIMENSIONS FOR ACCESSIBILITY IN TOILET FACILITIES

	FIXTURE TYPE	ADULT (AGE 12 AND OVER) DIMENSION	ELEMENTARY DIMENSION	KINDERGARTEN & PRE-SCHOOL DIMENSION	REMARKS
A	TOILET CENTERLINE FROM WALL	18"	15"	12"	FLUSH VALVE TO WIDE SIDE OF STALL TYP
B	TOILET SEAT HEIGHT (TO TOP OF SEAT)	17"–19"	15"	10"–12"	
C	GRAB BAR HEIGHT	33"	27"	20–22" ABOVE SEAT *	36" GRAB BAR @ REAR OF TOILET (250 LB CAPACITY TYP) (ALLOWED @ 36" A.F.F @ TANK TYPE TOILET) 42" GRAB BAR @ SIDE OF TOILET
D	TOILET PAPER DEPENSER IN FRONT OF TOILET (TPD)	12" MAX.	6" MAX.	6" MAX. **	12" IN FRONT OF TOILET ROLL PAPER HOLDER WITHOUT STOPS
E	NAPKIN DISPOSAL IN FRONT OF TOILET (SND)	12" MAX.	12" MAX	N/A	24" IN FRONT OF TOILET (BY OWNER)
F	DISPENSER OR MIRROR HEIGHT	40" MAX.	36" MAX.	32" MAX.	
G	LAVATORY/SINK TOP HEIGHT	34" MAX.	29" MAX.	24" MAX.	WRAP DRAIN WATER IF HOT WATER OCCURS
H	LAVATORY/SINK KNEE CLEARANCE	27" MIN.	24" MIN.	19" MIN.	
I	URINAL LIP HEIGHT	17" MAX.	15" MAX.	13" MAX.	
J	URINAL FLUSH HANDLE HEIGHT	44" MAX.	37" MAX.	32" MAX.	
K	DRINKING FOUNTAIN BUBBLER HEIGHT	36" MAX.	32" MAX.	30" MAX.	
L	DRINKING FOUNTAIN KNEE CLEARANCE	27" MIN.	24" MIN.	22" MIN.	
M	RAMP/STAIR HANDRAIL HEIGHT	34"–38"	27"	22"	

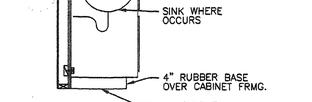
*= ABOVE SEAT
**= DEVIATES FROM CODE REQUIREMENTS AND REQUIRES A WRITTEN FINDING OF UNREASONABLE HARDSHIP
NOTE: 1. ALL ITEMS ON THIS SCHEDULE DO NOT NECESSARILY OCCUR IN THE PROJECT
2. HEIGHTS NOTED ON INTERIOR ELEVATIONS SHALL GOVERN OVER THOSE SHOWN HERE.

SCD = SEAT COVER DISPENSER	TPD = TOILET PAPER DISPENSER
PTD = PAPER TOWEL DISPENSER	SND = SANITARY NAPKIN DISPOSAL (WHERE APPLICABLE)
SD = SOAP DISPENSER	(ALL TOILET ACCESSORIES ARE N.I.C)

THIS DIAGRAM ILLUSTRATES THE SPECIFIC REQUIREMENTS OF THESE REGULATIONS AND IS INTENDED ONLY AS AN AID FOR BUILDING AND CONSTRUCTION

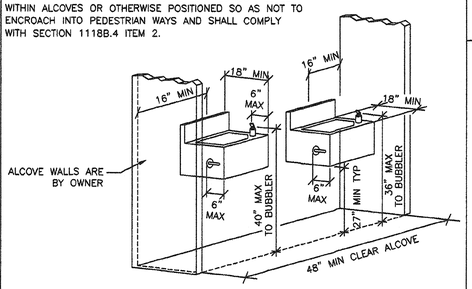


15 AD — ACCESSIBLE HEIGHTS @ TOILETS
N.T.S.

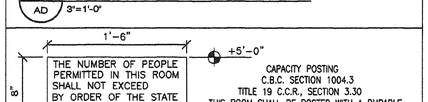


Y1 AD — CABINET BLOCKING DETAIL
1/2"=1'-0"

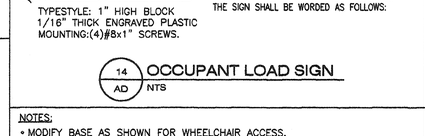
NOTE:
ALL DRINKING FOUNTAINS SHALL BE LOCATED COMPLETELY WITHIN ALCOVES OR OTHERWISE POSITIONED SO AS NOT TO ENCROACH INTO PEDESTRIAN WAYS AND SHALL COMPLY WITH SECTION 1118B.4 ITEM 2.



13 AD — DRINKING FOUNTAIN REQUIRED CLEARANCES
N.T.S.

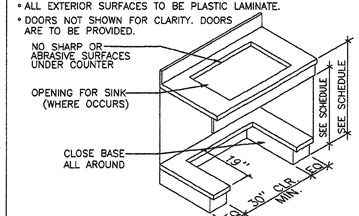


12 AD — GRAB BAR BLOCKING DETAIL
3"=1'-0"

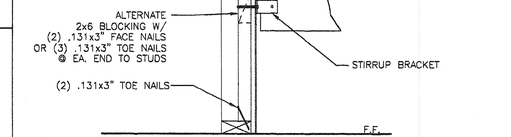


14 AD — OCCUPANT LOAD SIGN
NTS

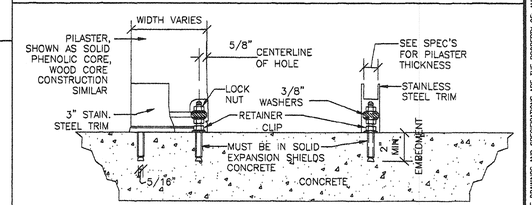
NOTES:
- MODIFY BASE AS SHOWN FOR WHEELCHAIR ACCESS.
- ALL EXTERIOR SURFACES TO BE PLASTIC LAMINATE.
- DOORS NOT SHOWN FOR CLARITY. DOORS ARE TO BE PROVIDED.



15 AD — ACCESSIBLE CABINET ELEVATION
N.T.S.



16 AD — TOILET PARTITION ANCHORAGE BLOCKING
1" = 1'-0"



DRILL HOLES FOR FLOOR ATTACHMENT 5/8" FROM EDGE OF PILASTER. TYPICAL FOR ALL LOCATIONS.
NOTE: PLACE STAINLESS STEEL TRIM ON PILASTER, SLIDE UP BEFORE SECURING PILASTER TO FLOOR ATTACHMENT.

17 AD — TOILET PARTITION FLOOR ATTACHMENT
1/2" = 1'-0"

REVISIONS		
NO	DATE	DESCRIPTION
1		
2		
3		
4		

DATE: 2/24/09
SCALE: NOTED
DRAWN BY: DM
SERIAL NO.:

CUSTOMER:

12'X40' RELOCATABLE BUILDING
ACCESSIBLE DETAILS

American Modular Systems Inc.
787 Spreckels Ave. Manteca, CA 95336
(209)825-1921 Fax (209)825-7018
americanmodular.com

APPROVALS:

REGISTERED ARCHITECT — No. C12631 Ren.5.31.07 — STATE OF CALIFORNIA

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT — 1 1 9 9 8 5 — AC FLS SS — DATE

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES — PC 02-109806 — ACCT FLS SS — DATE

PROJECT No.

AD

GENERAL NOTES AND SPECIFICATIONS

SECTION 1A GENERAL REQUIREMENTS

1. GENERAL
A. THE REQUIREMENTS OF THE GENERAL CONDITIONS OF THE AGREEMENT AND THIS GENERAL REQUIREMENT APPLY TO THE SEVERAL TRADE SECTIONS WITH THE SAME FORCE AS THOUGH FULLY REPEATED IN EACH TRADE SECTION.
B. NAME BRANDS ARE INDICATED TO ESTABLISH A STANDARD OF QUALITY. ITEMS OF EQUAL OR BETTER QUALITY MAY BE SUBSTITUTED FOR THE LISTED BRAND NAMED PRODUCTS WITH THE WRITTEN APPROVAL OF D.S.A. AND THE ARCHITECT.
C. ALL WORK SHALL COMPLY WITH THE REQUIREMENTS OF TITLES 19 AND 24 CALIFORNIA CODE OF REGULATIONS 2007 C.B.C. NO CHANGES SHALL BE MADE FROM D.S.A. APPROVED DRAWINGS OR SPECIFICATIONS WITHOUT PRIOR WRITTEN APPROVAL OF D.S.A. AND THE ARCHITECT.
2. SCOPE OF WORK
A. THE WORK CONSISTS OF MANUFACTURING OFF-SITE IN A PLANT AND INSTALLING ON-SITE,MODULAR RELOCATABLE BUILDINGS AS DEFINED HEREIN AND SHOWN AND DETAILED ON DRAWINGS.
B. ALL REQUIREMENTS OF TITLES 24 OF THE STATE OF CALIFORNIA CODE OF REGULATIONS RELATING TO INSPECTIONS AND VERIFIED REPORTS SHALL BE COMPLIED WITH AND SHALL INCLUDE:
1. GENERAL RESPONSIBLE CHARGE OF FIELD ADMINISTRATION BY THE ARCHITECT OF RECORD.
2. INSPECTION IN-PLANT DURING THE COURSE OF CONSTRUCTION BY AN INSPECTOR APPROVED BY THE DIVISION OF THE STATE ARCHITECT AND THE DISTRICT ARCHITECT. THE INSPECTOR SHALL BE RESPONSIBLE FOR AND APPROVED TO INSPECT THE GENERAL CONSTRUCTION WELDING,MECHANICAL, AND ELECTRICAL WORK. COST OF THESE INSPECTIONS SHALL BE BORNE BY THE SCHOOL DISTRICTS.
3. ON-SITE INSPECTION OF THE BUILDING INSTALLATION ELECTRICAL AND UTILITY INSTALLATION OR CONNECTIONS BY AN INSPECTOR APPROVED BY THE DIVISION OF THE STATE ARCHITECT AND THE DISTRICT ARCHITECT AND RETAINED BY THE SCHOOL DISTRICT.
4. OTHER SPECIAL TESTS OR INSPECTIONS AS MAY BE REQUIRED BY THE DIVISION OF THE STATE ARCHITECT.
5. ADDENDUMS SHALL BE SIGNED BY THE ARCHITECT & APPROVED BY D.S.A.
6. CHANGE ORDERS SHALL BE SIGNED BY THE OWNER & ARCHITECT & APPROVED BY D.S.A.
7. THE TESTING LAB SHALL BE IN THE EMPLOY OF THE OWNER.
8. ALL CONTRACTORS SHALL VERIFY ALL WORK CONDITIONS, DIMENSIONS AND DETAILS AND REPORT ANY OR ALL OMISSIONS AND DISCREPANCIES TO THE DESIGNER/OWNER IMMEDIATELY BEFORE COMMENCING WORK.
9. EACH CONTRACTOR TO BE RESPONSIBLE TO SEE THAT THEIR WORK CONFORMS TO ALL GOVERNMENTAL CODES WHETHER OR NOT SO STATED ON THE DRAWINGS.
10. ALL MATERIALS AND WORKMANSHIP TO CONFORM TO THE LATEST REQUIREMENTS OF THE GOVERNING BUILDING CODES IN EFFECT AT TIME OF DSA APPLICATION.
11. ALL MANUFACTURED ARTICLES, MATERIALS AND EQUIPMENT SHALL BE APPLIED, INSTALLED, CONNECTED AND ERECTED PER MANUFACTURER'S DIRECTIONS AND INSTRUCTIONS.
12. SHOP DRAWINGS MAY BE REQUIRED. IF SO, THEY WILL BE ACCURATELY DRAWN TO A LARGE ENOUGH SCALE TO SHOW ALL PERTINENT FEATURES OF THE ITEM AND ITS CONNECTION TO RELATED WORK.
13. THE MANUFACTURER OF BUILDING IS TO PLACE TWO PERMANENT METAL IDENTIFICATION LABEL ON EACH MODULE, MECHANICALLY FASTENED TO THE FRAME SEE "GENERAL DESIGN REQUIREMENTS", THIS PAGE.
FOR PROJECTS MANUFACTURED OFF-SITE, THE PLANT INSPECTOR IS TO INDICATE THE MANUFACTURER'S NAME AND SERIAL NUMBER OF EACH MODULE ON THE VERIFIED REPORT AND D.S.A. APP. NUMBER.
14. ALL TESTS AND INSPECTIONS REQUIRED BY DSA SHALL BE COMPLIED WITH. ALL TESTS REQ. BY FIRE AND LIFE SAFETY REGULATIONS SHALL BE BY A NATIONALY RECOGNIZED TESTING LABORATORY.

SECTION 2 FOUNDATION

1. ASSUMED ALLOWABLE SOIL BEARING: 1000 PSF FOR WOOD FOUNDATIONS, 1500 P.S.F. FOR CON CRETE FOUNDATIONS EMBEDDED 12" MIN BELOW GRADE.
2. FOOTINGS SHALL BE LOCATED ON UNDISTURBED FIRM NATURAL SOIL, APPROVED COMPACTED FILL OR ON AN APPROVED PAVED SURFACE.

NOTE: THE FOUNDATION SYSTEM PRESENTED HEREIN COMPLIES WITH INTERPRETATION OF REGULATIONS, IR 16-1, ISSUED BY DIVISION OF THE STATE ARCHITECT FOR TEMPORARY BUILDINGS. THIS FOUNDATION SYSTEM IS NON-CONVENTIONAL AND THE STRUCTURAL ENGINEER TAKES NO RESPONSIBILITY FOR ITS CONSTRUCTION OR LONGEVITY.

WORK NOT INCLUDED:

A. ALL ON-SITE OR OFF-SITE UTILITIES AND THE CONNECTION OF THEM TO THE BUILDING UNLESS INDICATED ON THE DRAWINGS.
B. ALL LEVELING, GRADING OR OTHER SITE PREPARATION EXCEPT CONCRETE OR WOOD LEVELING STRIPS WHERE REQUIRED, UNLESS OTHERWISE INDICATED ON THE DRAWINGS.
C. FIRE ALARM SYSTEM, PROGRAM BELL, PUBLIC ADDRESS SYSTEM,INTERCOM SYSTEM,TV,TELEPHONE SYSTEM UNLESS OTHERWISE INDICATED ON THE DRAWINGS, OR MODIFIED BY CHANGE ORDER.
4. WHEELS AND HITCH SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.
5. ACCESSIBILITY OF SITE
THE SCHOOL DISTRICT SHALL PROVIDE ACCESS TO THE SITE FOR THE INSTALLATION OF BUILDINGS. REMOVAL OF TREES SHRUBS,FENCING, SPRINKLERS ETC. NECESSARY FOR THE MOVE-IN OF BUILDINGS SHALL BE THE RESPONSIBILITY OF THE SCHOOL DISTRICT.

SECTION 5 STEEL

A. GENERAL – ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF AISC STANDARD SPECIFICATIONS,TITLE 24 OF CALIFORNIA CODE OF REGULATIONS AND THE AMERICAN IRON AND STEEL INSTITUTE SPECIFICATIONS FOR DESIGN OF STEEL STRUCTURAL MEMBERS. A COPY OF TITLE 24 SHALL BE KEPT AT THE JOBSITE AT ALL TIMES.
B. WELDING – ALL WELDING DONE BY SHIELDED ELECTRIC-ARC OR FLUX CORED-ARC PROCESS COMPLYING WITH REQUIREMENTS OF THE "STRUCTURAL WELDING CODE" OF THE AMERICAN WELDING SOCIETY. WELDING DONE BY OPERATORS QUALIFIED BY TESTS ACCEPTABLE TO THE DIVISION OF THE STATE ARCHITECT. WELDING INSPECTION PER TITLE 24,PART 2,CCR, SECTION 1704A.3.1 WELDING ELECTRODE SHALL BE E70XX.
ALL WELDS USED IN PRIMARY MEMBERS AND CONNECTIONS IN THE LATERAL FORCE-RESISTING SYSTEMS SHALL BE MADE WITH A FILLER METAL THAT HAS A MINIMUM CHARPY V-NOTCH TOUGHNESS OF 20FT-LBS AT ZERO DEGREES F, AS DETERMINED BY AWS CLASSIFICATION OR MANUFACTURES CERTIFICATIONS PER SECTION 2211A2.3 CBC 2007.
1. STRUCTURAL STEEL SHALL CONFORM TO A.S.T.M. A-36
2. PIPE COLUMNS SHALL COMFORM TO A.S.T.M. A-53 WITH SULFUR CONTENT NOT EXCEEDING 0.05%.
3. STEEL TUBING SHALL CONFORM TO A.S.T.M. A-500 GRADE B OR A.S.T.M. A579 GRADE 50 FOR GAUGE TUBING-TYP. U.N.O.
4. STRUCTURAL WELDS ARE DESIGNED FOR FULL ALLOWABLE STRESS UNLESS OTHERWISE NOTED.

C. ERECTION – STRUCTURAL STEEL ERECTED TRUE,STRAIGHT, PLUMB AND TO ITS DESIGNATED LOCATIONS. FIELD CONNECTIONS BOLTED OR WELDED AS INDICATED ON THE DRAWINGS.
D. NAILS,BOLTS, SCREWS AND NUTS ETC.– FOR EXTERIOR WORK SHALL BE CADMIUM PLATED OR GALVANIZED.
1. BOLTS FOR STRUCTURAL STEEL JOINTS SHALL CONFORM TO A.S.T.M. A-307 UNLESS OTHERWISE NOTED. ALL HOLES FOR MACHINE AND CARRIAGE BOLTS THROUGH STEEL TO BE DRILLED, OR TORCH PILOT HOLE AND REAM MIN. 1/16" TO BOLT SIZE. NELSON STUDS (WELDED TO STEEL) MAY BE SUBSTITUTED FOR BOLTS SAME LENGTH AND DIAMETER.
E. HANDRAILS – FABRICATED, AS DETAILED, WELDS GROUND SMOOTH.
F. SHOP PAINT
1. EXPOSED STEEL COATED WITH ONE SHOP COAT OF RED OXIDE PRIMER.
2. NON-EXPOSED STEEL COATED WITH ONE SHOP COAT OF RED OXIDE PRIMER.
3. ALL SURFACES THOROUGHLY CLEANED BY EFFECTIVE MEANS PRIOR TO APPLICATION OF SHOP COATS.
G. TESTS
1. PROVIDE MILL CERTIFICATES OR TEST ALL STEEL MEMBERS PER T-24 PART 2,CCR SECTION 2212A.1

SECTION 6A CARPENTRY

1. SCOPE OF WORK
CONTRACTOR SHALL PROVIDE ALL LABOR,MATERIALS AND SERVICES TO INSTALL CARPENTRY
2. MATERIALS
LUMBER GRADE MARKED IN ACCORDANCE WITH "STANDARD GRADING AND DRESSING RULE NO. 17" OF WEST COAST LUMBER INSPECTION BUREAU, OR "GRADING RULES FOR LUMBER,3RD EDITION OF WESTERN WOOD PRODUCTS ASSOCIATION OR W.C.L.I.B.. PLYWOOD GRADE MARKED IN ACCORDANCE WITH PRODUCT STANDARD PS 1-95 FOR SOFTWOOD PLYWOOD, OF AMERICAN PLYWOOD ASSOCIATION.
EACH SHEET SHALL BEAR THE STAMP OF APA, PITTSBURGH TESTING, OR TECO.
A. JOISTS, PLATES, STUDS-DOUGLAS FIR S4S #2 U.N.O.
NOTE: MSR 1650 E1.5 MAY BE SUBSTITUTED FOR #2 GRADE IF IT MEETS THE STRUCTURAL REQUIREMENTS FOR FLOOR AND ROOF MEMBERS.
B. H.F. HEADERS, POSTS AND TIMBERS-DOUGLAS FIR S4S #1
C. BLOCKING – DOUG FIR #3,OR HEM FIR #3,OR STD. & BET.
D. SILLS AND LUMBER & SHIM PLATES IN CONTACT WITH CONCRETE,MASONRY OR EARTH, DOUG FIR #2 PRESSURE TREATED IN ACCORDANCE WITH CBC 2304.11.2 EACH PIECE SHALL BEAR AWPB STAMP. AWPA STANDARD U1 & T1 GROUND CONTACT,D.F.#2 ABOVE GROUND.
E. MOISTURE BARRIER – KRAFT WATERPROOF BUILDING PAPER, OR 15 LB. FELT, CBC 2007 17-1 FOR KRAFT, 32-1 FOR FELT.
F. STUDS – S4S DOUG FIR #2. OR #2 HEM FIR. MAXIMUM MOISTURE CONTENT OF 19% AT TIME OF INSTALLATION.
G. FASTENERS –NAILS SHALL BE CORROSION RESISTANT PER C.B.C. 2304.9.1.1 COMMON NAILS FOR EXT. SIDING & FNDN. ONLY.
H. BUILDING TRIM – 2X RESAWN SELECT D.F.,H.F.,OR CEDAR
J. DOOR/WINDOW TRIM – 1X4 RESAWN D.F.,H.F.,OR CEDAR.
K. FRAMING CONNECTORS SHALL BE FROM SIMPSON CATALOG LATEST ED.
M. FIRE BLOCKS SHALL CONFORM TO CBC SECTION 717
N. ALL NAILS SHALL BE COMMON NAILS UNLESS OTHERWISE NOTED.
O. FOUNDATION LUMBER: ALL CUT ENDS AND HOLES IN PRESSURE TREATED LUMBER SHALL BE TREATED WITH "CUPRINOL".
3. WORKMANSHIP
A. FRAMING – SECURELY NAILED,BRIDGED AND BLOCKED TO FORM RIGID STRUCTURE. WORK CUT, FITTED AND ASSEMBELED LEVEL PLUMB AND TRUE TO LINE. TRIM IN AS LONG LENGTHS AS POSSIBLE WITH ALL STANDING TRIM IN ONE PIECE. TRIM SEALED AT ALL EDGES.
B. NAILING – IN ACCORDANCE WITH TITLE 24, CALIFORNIA BUILDING CODE, TABLE 2304.9.1
C. EXTERIOR WALLS – FACTORY FABRICATED. CAULKING PROVIDED BETWEEN PERIMETER OF WALL AND STRUCTURAL MEMBERS PROVIDING WEATHER-PROOF AND WATER-TIGHT SEAL. NECESSARY CLOSERS,SEALS, AND FLASHINGS PLACED AT TOP AND BASE SUPPORT OF PANELS AND AROUND OPENINGS.
D. NAILS INTO P.T. LUMBER TO BE HOT DIPPED GALVANIZED.

E. MACHINE APPLIED NAILING:
USE OF MACHINE NAILING IS SUBJECT TO A SATISFACTORY JOBSITE DEMONSTRATION FOR EACH PROJECT AND THE APPROVAL BY THE PROJECT ARCHITECT OR STRUCTURAL ENGINEER AND THE DIVISION OF THE STATE ARCHITECT. THE APPROVAL IS SUBJECT TO CONTINUED SATISFACTORY PERFORMANCE.
MACHINE NAILING WILL NOT BE APPROVED IN 5/16" PLYWOOD. IF NAILHEADS PENETRATE THE OUTER PLY MORE THAN WOULD BE NORMAL FOR A HAND HAMMER OR IF MINIMUM ALLOWABLE EDGE DISTANCES ARE NOT MAINTAINED THE PERFORMANCE WILL BE DEEMED UNSATISFACTORY.
F. MOISTURE BARRIER – APPLIED TO STUDS WEATHER-BOARD FASHION, HORIZONTAL
JOINTS LAPPED MIN 6" INCLUDING BUILDING CORNERS. SHEATHING APPLIED OVER MOISTURE BARRIER.
G. TRIM SEALED AT ALL EDGES. SEALANT PAINTED TO MATCH TRIM OR SIDING UNLESS TRANSPARENT TYPE.

SECTION 7B SHEET METAL

1. SCOPE OF WORK
CONTRACTOR SHALL PROVIDE ALL LABOR,MATERIALS AND SERVICES TO INSTALL INDICATED SHEET METAL.
2. MATERIALS
A. SHEET METAL – STEEL SHEETS HOT DIP GALVANIZED WITH 1.25 OZ. PER SQUARE FOOT ZINC COATING CONFORMING TO ASTM A526. MINIMUM 26 GA. UNLESS OTHERWISE NOTED ON THE DRAWINGS.
B. SOLDER – OF STAND,GRADE "A" OF EQUAL PARTSARD BRAND LEAD AND TIN ASTM B32.
C. FLUX – ZINC SATURATED MURIATIC ACID.
D. GUTTERS: 26 GA. G-90 GALV. STEEL.
DOWNSPOUTS: 2"X3" CONVOLUTED 30 GA. G-90 GALV. STEEL.
GUTTER ENDCAPS: 26 GA. G-90 GALV. STEEL.
GUTTER CLIPS: 18 GA. G-90 GALV. STEEL
3. WORKMANSHIP
SHEET METAL ACCURATELY FORMED TO DIMENSIONS AND SHAPES DETAILED WITH TRUE STRAIGHT LINES, CORNERS AND ANGLES. FLASHING INSTALLED IN LONGEST LENGTHS POSSIBLE. EXTERIOR WORK FORMED, FABRICATED AND INSTALLED SO THAT IT ADEQUATELY PROVIDES FOR EXPANSION AND CONTRACTION IN THE COMPLETED WORK AND FINISHES WATER AND WEATHER TIGHT. ALUMINUM SHALL BE SEPARATED FROM FERROUS METAL BY POLYETHYLENE TAPE OR FLOOD COAT OF ASPHALTIC PAINT.

SECTION 7C METAL ROOFING

1. SCOPE OF WORK
CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES TO INSTALL METAL ROOFING. TEST RESULTS SHOWING THE ROOFING SYSTEM WILL WITHSTAND THE UPLIFT OF A 85 MPH WIND SHALL BE SUBMITTED WITH THE PLANS AND SPECIFICATIONS.
2. MATERIALS
A. ROOFING – 1 1/4" INCH STANDING SEAM MIN 26-GAUGE G-90 GALV. INTERLOCKING (UNPENETRATED) SHEET STL PANELS (G90).
B. ALTERNATE: ROOFING – 3 INCH STANDING SEAM MIN 20-GAUGE G-90 GALV. INTERLOCKING (UNPENETRATED) SHEET STL PANELS (G90).
C. ROOFING: CLASS B FIRE RATING

SECTION 7J SEALANT

1. SCOPE OF WORK
CONTRACTOR SHALL PROVIDE ALL LABOR,MATERIAL AND SERVICES TO SEAL BUILDINGS.
2. MATERIALS
VULKEM SEALANT, POLYURETHANE, MANUFACTURED BY MAMECO INTERNATIONAL FOR ROOFS. "GEOCEL" SILICONIZED CAULK, GE, DUPONT, EAGLESEAL OR DAP FOR ALL OTHER APPLICATIONS, OR EQUAL.
3. WORKMANSHIP
SEALANT APPLIED TO DRY CLEAN SURFACES, WHEREVER INDICATED ON DETAILS AND AS NEEDED TO MAKE BUILDING WATERTIGHT IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.

SECTION 8 CONCRETE

1. CONCRETE CONSTRUCTION SHALL CONFORM TO ACI 318-05
2. THE MINIMUM 28 DAY STRENGTH AND TYPE OF CONCRETE SHALL BE A FOLLOW:
SLABS ON GRADE & FOUNDATIONS 2500 PSI (150 PCF)
CONCRETE OVER METAL DECK 2500 PSI (110 PCF) OR (150 PCF)
3. REINFORCING SHALL CONFORM TO ASTM A615--GRADE 40 UON.
4. CONCRETE COVERAGE SHALL BE AS FOLLOWS, UON ON DRAWINGS:
CONCRETE DEPOSITED DIRECTLY AGAINST GROUND (EXCEPT SLABS) ......3"
CONCRETE EXPOSED TO GROUND BUT PLACED IN FORMS................................2"
SLABS (ON GROUND)..POSITION IN CENTER OF SLAB
5. ALL BARS SHALL HAVE A CLASS B MINUMUM SPLICE LAP UON.
6. NOTIFY THE STRUCTURAL ENGINEER PRIOR TO PLACING CONCRETE.

SECTION 8A EXTERIOR PLASTER

LATHING AND PLASTERING MATERIALS AND ACCESSORIES SHALL BE MARKED BY THE MANUFACTURER'S DESIGNATION TO INDICATE COMPLIANCE WITH THE APPROPRIATE STANDARDS REFERENCED IN THIS SECTION AND STORED IN SUCH A MANNER TO PROTECT THEM FROM THE WEATHER. PER 2507.1

LATHING AND PLASTERING MATERIALS SHALL CONFORM TO THE STANDARDS LISTED IN TABLE 2507.2 AND CHAPTER 35 AND, WHERE REQUIRED FOR FIRE PROTECTION, SHALL ALSO CONFORM TO THE PROVISIONS OF CHAPTER 7. PER 2507.2

GYPSUM BOARD AND GYPSUM PLASTER CONSTRUCTION SHALL BE OF THE MATERIALS LISTED IN TABLES 2506.2 AND 2507.2. THESE MATERIALS SHALL BE ASSEMBLED AND INSTALLED IN COMPLIANCE WITH THE APPROPRIATE STANDARDS LISTED IN TABLES 2508.1 AND 2511.1, AND CHAPTER 35 PER 2508.1

1. GENERAL NOTES
PLASTERING WITH CEMENT PLASTER SHALL NOT BE LESS THAN THREE COATS WHEN APPLIED OVER METAL LATH OR WIRE FABRIC LATH AND SHALL NOT BE LESS THAN TWO COATS WHEN APPLIED OVER MASONRY CONCRETE OR GYPSUM BACKING AS SPECIFIED IN SECTION 2510.5

A. THE FIRST COAT SHALL BE APPLIED WITH SUFFICIENT MATERIAL AND PRESSURE TO FILL SOLIDLY ALL OPENINGS IN THE LATH. THE SURFACE SHALL BE SCORED HORIZONTALLY SUFFICIENTLY ROUGH TO PROVIDE ADEQUATE BOND TO RECEIVE THE SECOND COAT.
B. THE SECOND COAT SHALL BE BROUGHT OUT TO PROPER THICKNESS, RODDED AND FLOATED SUFFICIENTLY ROUGH TO PROVIDE ADEQUATE BOND FOR THE FINISH COAT. THE SECOND COAT SHALL HAVE NO VARIATION GREATER TO THAN 1/4 INCH (6.4 mm) IN ANY DIRECTION UNDER 5-FOOT STRAIGHT EDGE.
C. THE FINISH COATS SHALL BE APPLIED OVER BASE COATS THAT HAVE BEEN IN PLACE FOR THE TIME PERIODS SET FORTH IN ASTM C 926 THE THIRD OR FINISH COAT SHALL BE APPLIED WITH SUFFICIENT MATERIAL AND PRESSURE TO BOND TO AND TO COVER THE BROWN COAT AND SHALL BE OF SUFFICIENT THICKNESS TO CONCEAL THE BROWN COAT.

SECTION 8B HOLLOW METAL DOORS AND FRAMES

1. SCOPE OF WORK
CONTRACTOR SHALL PROVIDE ALL LABOR,MATERIALS AND SERVICES TO INSTALL HOLLOW METAL DOORS AND FRAMES.
2. MATERIALS
A. DOORS – INSULATED TYPE L FULL FLUSH, MANUFACTURED BY AMWELD MANUFACTURING COMPANY,18 GA. 1 3/4" THICK PER CS242 MIN,REINFORCE FOR HARDWARE-BOTH FACES FOR CLOSER, SOUND DEADEN INTERIOR.
B. FRAMES – 16 GA COLD ROLLED,2" FACES, CS242 MIN.3 ANCHORS PER JAMB + ADJUSTABLE FLOOR ANCHOR EACH JAMB REINFORCE FOR HARDWARE. PROVIDE STRIKE BOX,PROVIDE SOUND DEADENING: 1/8" UNDERCOATING OR INSULATING FILL.
3. WORKMANSHIP
ALL WORK FABRICATED IN SHOP TO REQUIRED PROFILES BY FORMING AND WELDING, WITH ARISES AND EDGES STRAIGHT, SHARP FIT FABRICATED ACCURATELY WITH SQUARE CORNERS, HAIRLINE JOINTS AND SURFACES FREE FROM WARP,WAVE,BUCKLE OR OTHER DEFECTS AFTER FABRICATION,DOORS AND FRAMES CLEANED THOUROUGHLY,ALL WELDS GROUND SMOOTH AND GIVEN PRIME COAT.

SECTION 9E PAINTING

1. SCOPE OF WORK
CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES TO PAINT BUILDING. ALL EXPOSED SURFACES OF BUILDING AND RAMPS SHALL BE PAINTED EXCEPT ALUMINUM WINDOW FRAMES, THRESHOLDS, AND ROOFING.
2. MATERIALS
A. FOR EXTERIOR WOOD:

REF.BRAND	DUNN EDWARDS	KELLY MOORE	SHERWIN WILLIAMS	SINCLAIR
PRIMER	42-9M	1240	Y24W20	289-N
FINISH	QD-60-XX	1240-XXX	B54WZ102	GE2-NXX

B. FOR INTERIOR TRIM

REF. BRAND	DUNN EDWARDS	KELLY MOORE	SHERWIN WILLIAMS	SINCLAIR
FINISH	W450-XX	1650-XXX	A26W11	40XX

C. FOR METAL

REF. BRAND	DUNN EDWARDS	KELLY MOORE	SHERWIN WILLIAMS	SINCLAIR
PRIMER	43-4	1710	B50NZ6	15N
FINISH	10-XX	1700-XXX	B54WZ102	GE2-NXX

3. WORKMANSHIP
ALL EXPOSED SURFACES SHALL BE PAINTED EXCEPT ALUMINUM WINDOW FRAMES AND THRESHOLDS. MATERIAL SHALL BE OF THE GRADE SPECIFIED OR EQUAL.
A. EXTERIOR – WOOD SIDING, TRIM AND SKIRTING FLAT OR SEMI-GLOSS LATEX – APPLY ONE COAT OF PRIME AND AT LEAST ONE FINISH COAT. PRIME COAT SHALL BE BRUSHED ON OR SPRAYED AND BACK BRUSHED INTO ALL GROOVES IN THE SIDING. IF NECESSARY, IN THE OPINION OF THE INSPECTOR, AN EXTRA COAT SHALL BE APPLIED TO ALL GROOVES SO THAT THE FINISH COAT WILL HAVE A UNIFORM APPEARANCE. ALLOW PRIME COAT TO DRY ACCORDING TO MANUFACTURER'S RECOMMENDATION. PRIME AND FINISH COATS SHALL BE COMPATIBLE AND MANUFACTURED BY THE SAME COMPANY.
B. INTERIOR TRIM – TRIM NOT PRECOATED SHALL BE PAINTED WITH TWO COATS OF SEMI-GLOSS LATEX OVER PRIMER.
C. INTERIOR HARDWOOD CABINETS – TWO COATS LOW LUSTER POLYURETHANE FINISH. APPLY FIRST COAT THINNED WITH ONE QUART MINERAL SPIRITS PER GALLON. APPLY SECOND COAT AS RECOMMENDED BY MANUFACTURER.
D. METAL – ALL METAL SURFACES SHALL BE PAINTED WITH TWO COATS OF ALKYD FINISH COAT OVER ZINC CHROMATE OR EQUAL RUST INHIBITING PRIMER.
E. RAMP – ONE COAT OF FERROX NON-SLIP (0.8 MIN. C.O.F.) SURFACING AS MANUFACTURED BY AMERICAN ABRASIVE METALS OR COMPARABLE. ALL PAINTS OF THE TYPE INDICATED SHALL BE LISTED ON THE STATE OF CALIFORNIA QUALIFIED PRODUCTS LIST FOR MAINTENANCE PAINTS 8010-91G-98A DATED JULY 1989. OR EQUAL.
F. SUBMIT ONE SET COLOR SAMPLES TO ARCHITECT FOR EACH PRODUCT TO ASSIST IN SELECTION.

SECTION 13F SITE ASSEMBLY

1. SCOPE OF WORK
CONTRACTOR SHALL PROVIDE ALL LABOR MATERIALS AND SERVICES TO PREPARE THE BUILDING ELEMENTS, TRANSPORT THEM FROM THE PLANT TO THE SITE AND TO COMPLETE THE ASSEMBLY AT THE SITE. THE CONDITION OF THE SITE, SUCH AS DRAINAGE AND SOIL BEARING CAPACITY, SHALL BE THE RESPONSIBILITY OF THE SCHOOL DISTRICT . UNLESS SPECIFICALLY CALLED FOR IN THE CONTRACT, STEPS, RAMPS, OR HANDRAILS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
2. ASSEMBLY OF ELEMENTS
A. IN A LOCATION ON THE SITE AS DETERMINED BY THE SCHOOL DISTRICT,(APPROVED BY DSA) THE CONTRACTOR SHALL PLACE WOOD LEVELING STRIPS OR OTHER SUITABLE SUPPORTS AS DETAILED ON THE DRAWINGS.
B. THE ELEMENTS SHALL BE BROUGHT TO THE SITE ON WHEEL ASSEMBLY AND TRANSFERRED TO THE PREPARED SITE. GREAT CARE SHALL BE TAKEN TO AVOID DAMAGE TO THE ELEMENTS BY RACKING OR BUMPING EACH OTHER.
C. CONNECTION OF THE ELEMENTS TOGETHER SHALL BE DONE ACCORDING TO INSTRUCTION ON THE DRAWINGS. FLASHINGS, TRIM AND OTHER LOOSE ITEMS SHALL BE INSTALLED PER DETAILS ON THE DRAWINGS.

SECTION 15A AIR CONDITIONING

1. SCOPE OF WORK (SEE SHEET M3 FOR HVAC SPEC. AND NOTES)
CONTRACTOR SHALL PROVIDE ALL LABOR,MATERIALS AND SERVICES TO INSTALL THE AIR CONDITIONING SYSTEM AS SHOWN ON THE DRAWINGS AND SPECIFICATIONS, INCLUDING A/C UNITS AND ACCESSORIES, REMOTE THERMOSTAT, GRILLS AND POWER WIRING COMPLETE TO LOAD CENTER. CONTRACTOR SHALL INSTRUCT OWNER'S OPERATORS ON OPERATION AND MAINTENANCE OF A/C SYSTEM.
2. EQUIPMENT
SEE NOTE ON FLOOR PLAN FOR SIZE AND TYPE.
3. WORKMANSHIP
UNITS SHALL BE INSTALLED COMPLETE AND OPERATING WITH ALL ACCESSORIES IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.

SECTION 16A ELECTRICAL

1. SCOPE OF WORK
CONTRACTOR SHALL PROVIDE ALL LABOR,MATERIALS AND SERVICES FOR ELECTRICAL INSTALLATION COMPLETE WITH ASSOCIATED EQUIPMENT AND FIXTURES, IN OPERATING CONDITION READY FOR USE. THE WORK INCLUDES: LIGHT AND POWER SYSTEMS,LIGHTING FIXTURES COMPLETE WITH LAMPS, CONNECTIONS AND DISCONNECTS TO A/C EQUIPMENT.
A. PROVIDE CONDUIT WITH PULL STRINGS AND JUNCTION BOXES FOR AUTOMATIC DETECTION FIRE ALARM SYTEM AND NOTIFICATION PER NFPA 72
2. MATERIALS
ALL NEW COMPLYING WITH REQUIREMENTS OF CALIFORNIA ELECTRIC CODE AND NATIONAL FIRE PROTECTION ASSOCIATION
A. ELECTRIC METALLIC TUBING – COUPLING AND FLEX CONDUIT GALVANIZED OR SHERARDIZED. EXTERIOR FLEX- GALV. STEEL W/ FACTORY APPLIED P.V.C. JACKET.
B. PANELBOARDS – FLUSH MOUNTED.
C. CONDUCTORS – COPPER,INSULATED FOR 600 VOLTS, TYPE THHN FOR SIZES #12 TO #6, TYPE THW FOR LARGER SIZES.MINIMUM SIZE- #14.
D. RECEPTACLES – AS NOTED. +18" A.F.F. MIN.
E. CLOCK RECEPTACLE – AS NOTED.
F. SWITCHES – AS NOTED. +48" A.F.F. MAX.
G. LIGHTING FIXTURES – AS NOTED ON THE DRAWINGS.
3. WORKMANSHIP
MATERIALS AND EQUIPMENT INSTALLED IN A SECURE,NEAT WORKMANLIKE MANNER IN ACCORDANCE WITH CODE REQUIREMENTS. PANELBOARD CARDS FILLED OUT. CONDUIT AND CABLE INSTALLED IN WALL AND CEILING SPACES. WORK PIERCING WATERPROOFED AREAS FLASHED AND SEALED TO A WATERTIGHT CONDITION.
BUILDING CONDUIT/WIRING FROM FACE OF BLDG TO SITE TERMINATION BY SITE CONTRACTOR(N.I.C.).(FLEXIBLE CONDUIT S-BEND SEALTITE)

INSPECTION

INSPECTION OF PREFABRICATED BUILDINGS IS DIVIDED INTO TWO SEPARATE FUNCTIONS.

1. IN-PLANT INSPECTION.
2. ON-SITE INSPECTION.

THE CONTRACTOR SHALL ALLOW UP TO SEVEN (7) DAYS FROM THE DATE OF PLAN APPROVAL TO OBTAIN AN IN PLANT INSPECTOR APPROVED BY D.S.A.

IN-PLANT INSPECTION AND MATERIAL TESTING SHALL BE ACCOMPLISHED UNDER THE SUPERVISION OF THE DISTRICT ARCHITECT. THE CONTRACTOR SHALL NOTIFY THE DISTRICT ARCHITECT, DSA, AND THE DESIGNATED INSPECTOR/INSPECTION AGENCY AT LEAST 48 HOURS PRIOR TO COMMENCING WORK. THE MANUFACTURER SHALL PROVIDE THE INSPECTOR WITH FULL ACCESS TO ALL PLANT OPERATIONS INVOLVING WORK UNDER THIS CONTRACT AND SHALL ADVISE THE INSPECTOR IN ADVANCE OF THE TIME AND PLACE WHEN OPERATIONS THAT THE INSPECTOR WANTS TO OBSERVE TAKE PLACE. BEFORE THE BUILDING(S) ARE REMOVED FROM THE PLANT FOR DELIVERY TO THE STORAGE FACILITY OR FROM THE STORAGE FACILITY TO THE SITE THE INSPECTOR SHALL DETERMINE THAT THEY ARE ACCEPTABLE AND ISSUE A WRITTEN RELEASE WHICH SHALL BE IN THE FORM OF A VERIFIED REPORT (FORM SSS-6). A COPY OF THE INSPECTOR'S VERIFIED REPORT SHALL ACCOMPANY EACH BUILDING TO STORAGE OR TO THE SITE. THE INSPECTOR SHALL PUT ONE COPY IN EACH BUILDING.

COORDINATION OF WORK

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAKE ALL NECESSARY ARRANGEMENTS WITH THE SCHOOL DISTRICT AUTHORIZED REPRESENTATIVE FOR ACCESS TO GROUNDS AND REMOVAL OF EQUIPMENT,IF NECESSARY.
THIS CONTACT SHALL BE MADE AT LEAST 48 HOURS PRIOR TO DELIVERY OF AY MODULE.
ON-SITE INSPECTION SHALL BE DONE BY THE SITE INSPECTOR. ALL WORK WHICH THE MANUFACTURER OR HIS SUBCONTRACTORS PERFORM AT THE SITE SHALL BE SUBJECT TO THE INSPECTION OF THE SITE INSPECTOR. THE MANUFACTURER WILL FURNISH THE SITE INSPECTOR WITH SUCH INFORMATION AS MAY BE NECESSARY TO KEEP HIM FULLY INFORMED AS TO PROGRESS OF WORK AND DATES WHEN SITE WORK WILL OCCUR. THE CONTRACTOR SHALL NOTIFY THE INSPECTION AGENCY AT LEAST 48 HOURS PRIOR TO COMMENCING WORK.

THE CONTRACTOR SHALL VERIFY THAT THE DISTRICT'S SITE IS READY TO RECEIVE THE CLASSROOM(S) PRIOR TO THE DELIVERY OF ANY CLASSROOM(S) BY VISITING EACH SITE (THIS MAY BE DONE BY THE INSPECTOR).

REVISIONS

NO	DATE	DESCRIPTION
1		
2		
3		
4		

DATE: 2/24/09
SCALE: NOTED
DRAWN BY: DM
SERIAL NO.:

CUSTOMER:

12'X40' RELOCATABLE BUILDING
GENERAL NOTES

American Modular Systems Inc.
787 Spreckels Ave. Manteca, CA 95336
(209)825-1921 Fax (209)825-7018
americanmodular.com

APPROVALS:

LICENSED ARCHITECT RANDALL PATRICK CAVANAGH No. C12631 Ren. 3.31.09 STATE OF CALIFORNIA

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT
03-112985
AC FLS SS
DATE

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES
PC 02-109808
AC FLS SS
DATE

PROJECT No.

N1

MATERIALS AND WORKMANSHIP

ALL CONTRACTORS SHALL CERTIFY THAT NO ASBESTOS–CONTAINING BUILDING MATERIALS WHICH EXCEED STATE AND FEDERAL MANDATED SAFE ASBESTOS LEVELS HAVE BEEN USED IN THE CONSTRUCTION OF RELOCATABLE FACILITIES.

ALL WORKMEN SHALL BE SKILLED AND QUALIFIED FOR THE WORK WHICH THEY PERFORM. ALL MATERIALS USED,UNLESS OTHERWISE SPECIFIED,SHALL BE NEW AND OF THE TYPES AND GRADES SPECIFIED. THE CONTRACTOR SHALL, IF REQUESTED, FURNISH EVIDENCE SATISFACTORY TO THE ARCHITECT THAT SUCH IS THE CASE.

CONTRACTOR'S CREWS ASSIGNED TO ANY WORK PERFORMED UNDER THIS CONTRACT SHALL INCLUDE ONE COMPETENT AND FULLY EXPERIENCED PERSON DESIGNATED AS THE RESPONSIBLE PERSON IN CHARGE. SUCH PERSON MUST BE IDENTIFIED BY NAME TO THE DISTRICT IN ADVANCE OF ANY WORK. UPON REQUEST, THE CONTRACTOR SHALL PROMPTLY FURNISH TO THE DISTRICT INFORMATION RELATING TO THIS EMPLOYEE'S EXPERIENCE.

WORKMANSHIP SHALL BE EQUAL OR BETTER IN QUALITY TO THAT REQUIRED BY THE CONSTRUCTION TRADES FOR A FINISHED PRODUCT. A QUALITY CONTROL SUPERVISOR, DESIGNATED BY THE MANUFACTURER, SHALL REVIEW ALL WORK IN PROGRESS AND SHALL REVIEW THE FINISHED BUILDING PRIOR TO FINAL INSPECTION TO ASSURE IT IS COMPLETE AND CORRECT. THE QUALITY CONTROL SUPERVISOR SHALL HAVE THE AUTHORITY TO HAVE MATERIALS REPLACED AND WORK REDONE IN ORDER TO CORRECT FAULTY MATERIALS OR WORKMANSHIP.

GENERAL DESIGN REQUIREMENTS:

UP TO (1) APPROXIMATELY 12' x 40' MODULES DESIGNED SO THAT TWO MODULES MAY BE JOINED TOGETHER TO FORM A COMPLETE STRUCTURE TO MAINTAIN A POSITIVE ALIGNMENT OF FLOORS, WALLS, AND ROOF AND TO PERMIT SIMPLE NON–DESTRUCTIVE DETACHMENT FOR FUTURE RELOCATION.

EACH MODULE SHALL BE PERMANENTLY IDENTIFIED WITH AN IMPRINTED (STAMPED NOT ENGRAVED) METAL IDENTIFICATION TAG 3"X1 –1/2" MINIMUM SIZE WITH THE FOLLOWING INFORMATION:

1. MANUFACTURER'S NAME AND BUILDING SERIAL NUMBER.
2. DESIGN WIND LOAD / EXPOSURE
3. DESIGN ROOF LIVE LOAD
4. DESIGN FLOOR LIVE LOAD
5. D.S.A. APPLICATION NUMBER.

2–TAGS PER MODULE ONE ON EXTERIOR AND ONE ON MODULE BEAM AT FRONT OF BUILDING ABOVE CEILING.

EACH MODULE SHALL BE CAPABLE OF RESISTING ALL VERTICAL AND LATERAL LOADS DURING TRANSPORTATION AND RELOCATION. (NORMAL INDUSTRY PRACTICE FOR BRACING MODULES DURING TRANSPORTATION AND RELOCATIONS IS ACCEPTABLE.) WHEN MODULES ARE ASSEMBLED JOINTS SHALL BE SEALED WITH REMOVABLE CLOSING STRIPS OR OTHER METHOD TO PRESENT A FINISHED APPEARANCE AND BE PERMANENTLY WATERPROOF.

EACH MODULE SHALL BE SUFFICIENTLY RIGID TO BE JACKED UP AT THE FRONT AND BACK CORNERS FOR RELOCATION WITHOUT DAMAGE OR THE MODULE SHALL HAVE LIFT LUGS AT FRONT AND BACK LOCATED AS REQUIRED SO THAT THE MODULE MAY BE JACKED UP FOR RELOCATION IN ONE PIECE WITHOUT ADDITIONAL SUPPORTS OF ANY TYPE. EVIDENCE OF EXCESSIVE BOWING DURING THE INSTALLATION OF THE MODULES WHICH, IN THE OPINION OF THE AGENCY ARCHITECT OR STRUCTURAL ENGINEER, CAUSES EXCESSIVE WORKING AT ANY JOINT OR COMPROMISES THE STRUCTURAL INTEGRITY OF THE MODULE SHALL BE SUFFICIENT REASON FOR REJECTION OF THE MODULE.

FINISH AND BASE MATERIALS AT EACH MODULE SHALL TERMINATE AT INTERIOR MODULE JOINTS IN A MANNER TO JOIN FLUSH AND TIGHT WITH SAME MATERIAL IN ADJACENT MODULE SO THE MODULE MAY BE RELOCATED WITH MINIMUM CUTTING AND PATCHING.

MARKERBOARD SPECIFICATIONS

MARKERBOARDS SHALL BE 24 ga. PORCELAIN STEEL FACING SHEET SUITABLE TO ACCEPT DRY ERASE FLET MARKERS. THE FACING SHEET SHALL BE LAMINATED TO PARTICLE BOARD SUBSTRATE WITH A MINIMUM DENSITY OF 45#/c. ft.
THE PANEL SHALL HAVE A FOIL BACKING. THE PANELS SHALL HAVE EXTRUDED ALUMINUM MOLDING AND CHALKRAIL WITH A MINIMUM OF 2–$\frac{15}{16}$" PROJECTION FROM THE FACE OF PANEL. THREE MAP HOOKS WITH CLIPS PER PANEL SHALL BE PROVIDED. ONE FLAG HOLDER, $\frac{1}{2}$" SIZE, SHALL BE PROVIDED FOR EACH CLASSROOM. EACH CLASSROOM SHALL HAVE 2 EACH 4 X 8 PANELS INSTALLED SIDE BY SIDE TO MAKE A 4 X 16 PANEL, CENTERED ON THE LONG WALLS.
REFERENCE BRANDS: CHATFIELD–CLARKE Co, Inc. SERIES 500 OR NELSON ADAMS Co. NACO SERIES 60.

NOTE:

WALL FINISH MATERIAL
FLAME SPREAD MAX = 200
SMOKE DENSITY MAX = 450
BUILDING INSULATION
FLAME SPREAD MAX = 25
SMOKE DENSITY MAX = 450

PIPE INSULATION
FLAME SPREAD MAX = 25
SMOKE DENSITY MAX = 450
DUCT INSULATION
FLAME SPREAD MAX = 25
SMOKE DENSITY MAX = 50

INTERIOR

1. FLOOR: CARPETS – CLASSROOM SHALL BE CARPETED AS INDICATED ON FLOOR PLAN WITH DIRECT GLUE DOWN TYPE PER STATE OF CALIFORNIA SPECIFICATION 7220–XXX–01, GROUP 1, TYPE A, CLASS 26. COLOR WILL BE SELECTED BY ARCHITECT AFTER AWARD OF BID. THE CARPET DENSITY SHALL BE 4600 MINIMUM. PILE YARN SHALL BE BRANDED NYLON. NO CROSS SEAMS SHALL BE ALLOWED. PILE HEIGHT 1/2" MAX
2. BASE: RESILIENT COVE BASE – BEST QUALITY, MOULDED RUBBER, 1/8" THICK, 4" HIGH, MOULDED TOP SET COVE: PROVIDE PREFORMED BASE FOR SQUARE EXTERNAL CORNERS AND PREFORMED END STOPS WHERE BASE DOES NOT ABUT. SOLID COLOR AS MANUFACTURED BY "JOHNSONITE CO.", FLEXCO, OR EQUAL. APPLY COVE TO COMPLETE PERIMETER OF CLASSROOM.
3. INTERIOR WALLS SHALL BE VINYL COVERED TACKBOARD(U.O.N.) APPLIED IN ONE CONTINUOUS LENGTH FROM FLOOR TO CEILING. THE TACKBOARD SHALL BE INDUSTRIAL INSULATION BOARD MANUFACTURED SPECIFICALLY AS A SUBSTITUTE FOR VINYL COVERED WALL PANELS. THE BOARD SHALL BE ASPHALT FREE, SHALL HAVE AN IRONED–ON COATING AND SHALL HAVE A MINIMUM DENSITY OF 18 LBS. PER FT. THE VINYL COATING SHALL BE MADE OF VIRGIN VINYL CALENDERED BASE COLOR, WEIGHING A MINIMUM OF 8 OZ. PER SQUARE YARD. THE COATING BACKING SHALL BE SHEETING OR NON–WOVEN FABRIC. THE VINYL COATING SHALL BE MECHANICALLY LAMINATED, WITH THE LONG EDGES WRAPPED, TO THE TACKBOARD. TACKBOARD SHALL BE APPLIED OVER 1/2" SHEETROCK OR PLYWOOD SHEATHING. THE VINYL WALL COVERED PANEL SHALL HAVE A CLASS III FLAME SPREAD RATING. THE PANEL SHALL BE APPROVED FOR CLASSROOM USE BY THE CALIFORNIA STATE FIRE MARSHAL. REFERENCE BRAND: VINYL COVERED TACKBOARD AS MANUFACTURED BY CHATFIELD–CLARKE OR COMPARABLE. CARE SHALL BE TAKEN IN MOUNTING THE TACKBOARD SO THAT THE TEXTURE OF ALL PANELS WILL HAVE THE SAME ORIENTATION AND COLOR MATCH.
4. CEILING: SUSPEND T–BAR SYSTEM, SEE SHEET 3 FOR DETAILS ETC. MATERIALS AND INSTALLATION PER CCR 2501.A.5 AND IR #M–3 INCLUSIVE AS APPLICABLE TO CLASSROOMS.

DOORS & WINDOWS

EXTERIOR DOORS: METAL DOORS – 3'–0"x7'–0" HOLLOW METAL DOOR CONSTRUCTION OF 1 SHEET OF 18 GA. GRADE II STEEL ASSEMBLED PER CS242 MIN AND REINFORCED WITH 20 GA. MIN. FILL DOOR SPACES WITH MINERAL WOOL OR OTHER INSULATION. (REINFORCE BOTH FACES FOR CLOSURE) PROVIDE FLUSH TOP ON DOORS. HARDWARE REINFORCEMENT SHALL BE 10 GA. MIN FOR HINGES, DOOR FRAME SHALL BE 16 GA. PRESSED STEEL FRAME ASTM A366 & C5242. HARDWARE REINFORCEMENT SHALL BE 10 GA. PLATE. FRAMES SHALL BE DESIGNED WITH INTEGRAL STOP AND TRIM. PROVIDE (3) ANCHORS PER JAMB PLUS ADJUSTABLE FLOOR ANCHOR.

EXTERIOR WINDOWS: PROVIDE ANODIZED ALUMINUM FRAME 5/8" MINIMUM DUAL PANE WINDOW UNITS, AS SHOWN ON FLOOR PLANS. THE 5/8" DIMENSION IS THE MINIMUM THICKNESS FOR THE DUAL GLAZED WINDOW PANEL CONSISTING OF TWO LIGHTS OF GLASS AND THE AIR SPACE. GLAZING MATERIAL SHALL BE:

EXTERIOR LITE – 3/16" MINIMUM TEMPERED GLASS OR LAMINATED AS – 1 GLASS OF SOLAR GRAY GLARE REDUCING TYPE WITH A LIGHT TRANSMISSION FACTOR OF 45% MAXIMUM.
INTERIOR LITE – 1/8" MINIMUM CLEAR TEMPERED.
MINIMUM AIR SPACE SHALLE BE 1/4".
SPACE – BENT OR SEALED CORNER ALUMINUM WITH DESICCANT FILL
SEALER – BUTYL PRIMARY SEAL AND POLYSULFIDE OF SILICONE SECONDARY SEAL.
CERTIFICATION – ALL GLAZING TO BE CERTIFIED IN ACCORDANCE WITH ASTM E–773, E–774.
HEADER HEIGHT SHALL BE THE SAME AS THE DOOR. ALL OPERABLE SASH SHALL HAVE ALUMINUM SCREENS. WINDOWS SHALL NOT BE MOUNTED TO THE EXTERIOR PLYWOOD SURFACE. ALL WINDOWS SHALL MEET THE AAMA GS101–88 VOLUNTARY. SPEC. FOR ALUMINUM PRIME WINDOWS AND SLIDING GLASS (ANS1), COMMERCIAL GRADE.

HARDWARE

1. EXTERIOR DOOR
   A) HINGES: HAGER 4–1/2X4–1/2 BUTTS, BB1279 US26D,1–1/2 PAIR EACH DOOR WITH SET SCREW IN BARREL AND BALL BEARING DESIGN, OR APPROVED EQUAL.
   B) EXTERIOR LOCKSET: SCHLAGE ND70PD CORBIN OR YALE OR EQUIVALENT. ALUM. FINISH. OR PANIC BARS/PULL HANDLE PANIC BAR TYPE VON DUPRIN 22L (PULL ON EXT.) OR CORBIN OR YALE OR EQUIVALENT. ALUM. FINISH. PANIC BARS ARE ONLY REQUIRED WHERE THE OCCUPANT LOAD IS 50 OR MORE.
   C) CLOSER: NORTON 8500DA OR 8500BF SERIES, LCN 1460 DEL SERIES OR EQUAL. MAXIMUM 5 LBS FOR EXTERIOR AND INTERIOR DOORS. THE MAXIMUM EFFORT FOR FIRE DOORS MAY BE INCREASED TO THE MAXIMUM ALLOWED BY THE APPROPIATE ADMINISTRATIVE AUTHORITY, NOT TO EXCEED 15 LBS. THE SWEEP PERIOD FROM AN OPEN POSITION OF 70 DEGREES SHALL BE AT LEAST 3 SECONDS TO MOVE TO A POINT 3 INCHES FROM THE LATCH, MEASURED TO THE LEADING EDGE OF THE DOOR.
   D) WEATHERSTRIPPING: ALL EXTERIOR DOORS SHALL BE WEATHERSTRIPPED WITH PEMKO 299D, ULTRA WS007, AT DOOR JAMBS AND HEAD OR EQUAL.
   E) THRESHOLD: THRESHOLD SHALL BE PEMKO 271 AV 5" ALUMINUM WITH PEMKO 216 AV ULTRA TH042 DOOR BOTTOM.
   F) DOORSTOP: QUALITY #44, OR EQUAL.
   D) INTERIOR LOCKSET: SCHLAGE LEVER HANDLE LOCKSET, AS FOLLOWS:

STUDENT TOILETS	S10A PASSAGE LATCH OR EQUAL
OFFICES	S70D CLASSROOM LOCKSET OR EQUAL
CUSTODIAL	S80A LOCKSET OR EQUAL
PUBLIC TOILETS	S40A PRIVACY LATCHSET OR EQUAL

FIRE EXTINGUISHER

1. EACH PORTABLE CLASSROOM SHALL BE EQUIPPED WITH PRESSURE TYPE FIRE EXTINGUISHERS WITH 2AIOBC UL RATING. TO BE MOUNTED ON THE INTERIOR WALL OF THE BUILDING NEAR THE DOORWAY(S) AT A MAXIMUM HEIGHT OF 4 FEET TO THE MOUNTING BRACKET AND THE BOTTOM OF FE MOUNTED 27" AFF.
   FIRE EXTINGUISHERS SHALL BE TOTALLY CHARGED AND HAVE A DIAL INDICATING THE STATE OF CHARGE.

ACCESSIBILITY STANDARDS

2007 CALIFORNIA BUILDING CODE (PART 2, TITLE 24, CCR)
SEC. 1103B.1 BUILDING ACCESSIBILITY, GENERAL.
THE 2007 CBC REQUIRES THAT BUILDINGS EXCEEDING 10,000 SQUARE FEET ON ANY FLOOR MUST HAVE AN ACCESSIBLE MEANS OF VERTICAL ACCESS VIA RAMP, ELEVATOR, OR LIFT WITHIN 200 FEET OF TRAVEL OF EACH STAIR AND EACH STAIR AND EACH ESCALATOR.
TABLE 1115B–1 SUGGESTED DIMENSIONS FOR CHILDREN'S USE.
THE 2007 CBC REQUIRES A 27" MINIMUM DIMENSION FOR LAVATORY/SINK KNEE CLEARANCE, WHICH IS THE DISTANCE FROM THE FINISH FLOOR TO THE UNDERSIDE OF THE LAVATORY/SINK.
SECTION 1115B.3.1 ACCESSIBLE WATER CLOSET COMPARTMENT.
THE 2007 CBC REQUIRES AN ACCESSIBLE TOILET STALL TO HAVE A MINIMUM WIDTH OF 60" AND SHALL BE EQUIPPED WITH A DOOR THAT HAS AN AUTOMATIC–CLOSING DEVICE, AND SHALL HAVE A CLEAR, UNOBSTRUCTED OPENING WIDTH OF 32 INCHES WHEN LOCATED AT THE END AND 34 INCHES WHEN LOCATED AT THE SIDE WITH THE DOOR POSITIONED AT AN ANGLE OF 90 DEGREES FROM ITS CLOSED POSITION.
THE INSIDE AND OUTSIDE OF THE COMPARTMENT DOOR SHALL BE EQIPPED WITH A LOOP OR U–SHAPED HANDLE IMMEDIATELY BELOW THE LATCH. THE LATCH SHALL BE FLIP–OVER STYLE, SLIDING OR OTHER HARDWARE NOT REQUIRING THE USER TO GRASP OR TWIST. EXCEPT FOR DOOR–OPENING WIDTHS AND DOOR SWINGS, A CLEAR, UNOBSTRUCTED ACCESS OF NOT LESS THAN 44 INCHES SHALL BE PROVIDED TO THE WATER CLOSET COMPARTMENTS DESIGNED FOR USE BY PERSONS WITH DISABILITIES.
SECTION 1115B.4.4.4. WATER CONTROLS
THE 2007 CBC REQUIRES THAT THE FORCE TO OPERATE A WATER CONTROL (VALVE) FOR AN ACCESSIBLE SHOWER SHALL NOT EXCEED 5LBS. MAXIMUM FORCE (PULL).
SECTION 1117B.5 SIGNS AND IDENTIFICATION (ALSO REFER TO SECTIONS 1115B.6, 1116B, 1007.6.5 1007.7, 1008.1.8.6, 1011.3, 1020.1.5 & 1020.1.6.1–5
THE 2007 CBC MAKES SEVERAL GENERAL DESIGN CHANGES AND CLARIFICATIONS TO SIGNAGE.
*ALL GROUND FLOOR EXIT DOOR SHALL HAVE TACTILE EXIT SIGNAGE.
*AT STAIRS, EACH FLOOR SHALL RECEIVE TACTILE "STAIR LEVEL" SIGNAGE IN ADDITION TO SPECIAL TACTILE AT THE EXIT DISCHARGE LEVEL.
*EACH EXIT DOOR THAT LEADS TO A GRADE LEVEL EXIT BY MEANS OF A STAIRWAY SHALL HAVE TACTILE EXIT SIGNAGE.
*EACH EXIT ACCESS DOOR TO A CORRIDOR OR HALLWAY THAT IS REQUIRED TO HAVE A VISUAL EXIT SIGN SHALL BE IDENTIFIED BY TACTILE EXIT SIGNAGE.
SECTION 1129B ACCESSIBLE PARKING REQUIRED.
THE 2001 CBC REQUIRES THE WORDS "NO PARKING", IN 12" HEIGHT WHITE LETTERS, TO BE PAINTED ON THE PAVEMENT WITHIN ALL PARKING SPACE ACCESS AISLES. VAN PARKING ACCESS AISLES SHALL BE PLACED ON THE PASSENGER SIDE OF THE VEHICLE. RAMPS MAY NOT ENCROACH INTO ANY REQUIRED ACCESS AISLE. PARKING SPACE ACCESS AISLES SHALL NOT EXCEED 2% SLOPE IN ANY DIRECTION.*
*EXISTING SITES:
AT EXISTING SITES, ANY RAMP WHICH EXCEEDS A 2% SLOPE
ACCESS AISLES FOR ACCESSIBLE PARKING SPACES PER CBCS SECTION 1129B, MAY REQUIRED REMOVAL AND REDESIGN PER THE PATH OF TRAVEL (POT) PROVISIONS OF CBCS SECTION 1134B, IN ORDER TO APPROVE THE BUILDING PLACEMENT.
SECTION 1133B.2.5 CLOSER EFFORT TO OPERATE DOORS.
THE 2007 CBC REQUIRES THAT THE EFFORT TO OPEN AN EXTERIOR DOOR SHALL NOT EXCEED 5 POUNDS (PULL).
THE 2007 CBC REQUIRES THAT THE SWEEP PERIOD OF ACCESSIBLE DOORS SHALL BE 3 SECONDS MAXIMUM, BASED ON AN OPEN DOOR POSITION OF 70 DEGREES (FROM CLOSED), TO A DOOR POSITION OF 3" FROM THE LATCH.
SECTIONS 1133B.2.4.5 & 1133B.2.5.3 RECESSED DOORS.
THE 2007 CBC REQUIRES THAT DOORS RECESSED 8" OR MORE SHALL HAVE STRIKE EDGE CLEARANCES IN ACCORDANCE WITH FIGURE 11B–33 (A).
SECTION 1133B.4.2.4 HANDRAIL ORIENTATION.
THE 2007 CBC SPECIFIES THAT AT LEAST ONE HANDRAIL SHALL BE PARALLEL TO THE DIRECTION OF THE STAIR RUN, AND PERPENDICULAR TO THE EDGE OF THE STAIR NOSING.
SECTION 1133B.5.2 RAMP WIDTH:
MINIMUM 48" CLEAR AT OCCUPANT LOAD 300 OR LESS, 60" CLEAR AT OCCUPANT LOAD MORE THAN 300.
RADIUS MINIMUM OF 0.125"
THE 2001 CBC REQUIRES THAT SIGN EDGES LESS THAN 80" ABOVE THE FINISHED FLOOR MUST CONTAIN ROUNDED OR EASED RADIUS MINIMUM OF 0.125"
THE PROJECT PLANS OR SPECIFICATIONS SHALL INDICATE THE REQUIREMENT THAT THE MANUFACTURER SHALL PROVIDE A WRITTEN FIVE–YEAR PRODUCT WARRANTY, IN ACCORDANCE WITH THE BULLETIN.

1. ALL GALVANIZED STUDS AND JOISTS SHALL BE FORMED FROM STEEL THAT CORRESPONDS TO THE MINIMUM REQUIREMENTS OF THE 2001 AISI/COS/ANSI.
2. ALL GALVANIZED STUDS, JOISTS, TRACK, BRIDGING AND ACCESSORIES SHALL BE FORMED FROM STEEL HAVING A GALVANIZED COATING MEETING THE REQUIREMENTS OF ASTM A 653
3. GALVANIZED FRAMING PRODUCTS SHALL BE COATED IN ACCORDANCE WITH REQUIREMENTS OF ASTM A 653.
   PRODUCTS WILL BE FURNISHED WITH A G–60 OR EQUIVALENT COATING IF SPECIFIED AND ORDERED TO BE IN CONFORMANCE WITH ASTM C–955 OTHERWISE, G–40 OR EQUIVALENT COATING WILL BE PROVIDED.

1. SECTION PROPERTIES SHALL BE DERIVED IN ACCORDANCE WITH AISI " SPECIFICATION FOR DESIGN OF COLD–FORMED STEEL STRUCTURAL MEMBERS, LATEST EDITION."
2. METAL DECKING IS TO BE ATTACHED TO THE STRUCTURAL FRAME IN CONFORMANCE WITH AWS D1.1 AND D1.3 "SPECIFICATION FOR WELDING SHEET STEEL IN STRUCTURES."
3. ASTM REFERENCE NUMBERS:
   A) ASTM A653, STEEL SHEET, ZINC–COATED (GALVANIZED) OR ZINC–IRON ALLOY–COATED (GALVANNEALED) BY THE HOT–DIP PROCESS STRUCTURAL (PHYSICAL) QUALITY.
4. STEEL DECK INSTITUTE (SDI)–METAL FLOOR DECK PROFILES SHALL BE IN CONFORMANCE WITH SDI STANDARDS.
5. METAL FLOOR DECK TO BE ASC STEEL DECK
   1. B–36, 18 GAUGE
      1 1/2" DEEP X 36" WIDE
   2. N–24, 18 GAUGE
      3" DEEP X 24" WIDE
6. DECK UNITS ARE TO BE FABRICATED FROM SHEET STEEL CONFORMING TO ASTM A653, Fy=38 KSI WITH A GALVANIZED COATING, G–60 OR G–90.

REVISIONS

NO	DATE	DESCRIPTION
1		
2		
3		
4		

DATE: 2/24/09
SCALE: NOTED
DRAWN BY: DM
SERIAL NO.:

CUSTOMER:

12'X40' RELOCATABLE BUILDING
GENERAL NOTES

American Modular Systems Inc.
787 Spreckels Ave. Manteca, CA 95336
(209)825-1921 Fax (209)825-7018
americanmodular.com

APPROVALS:

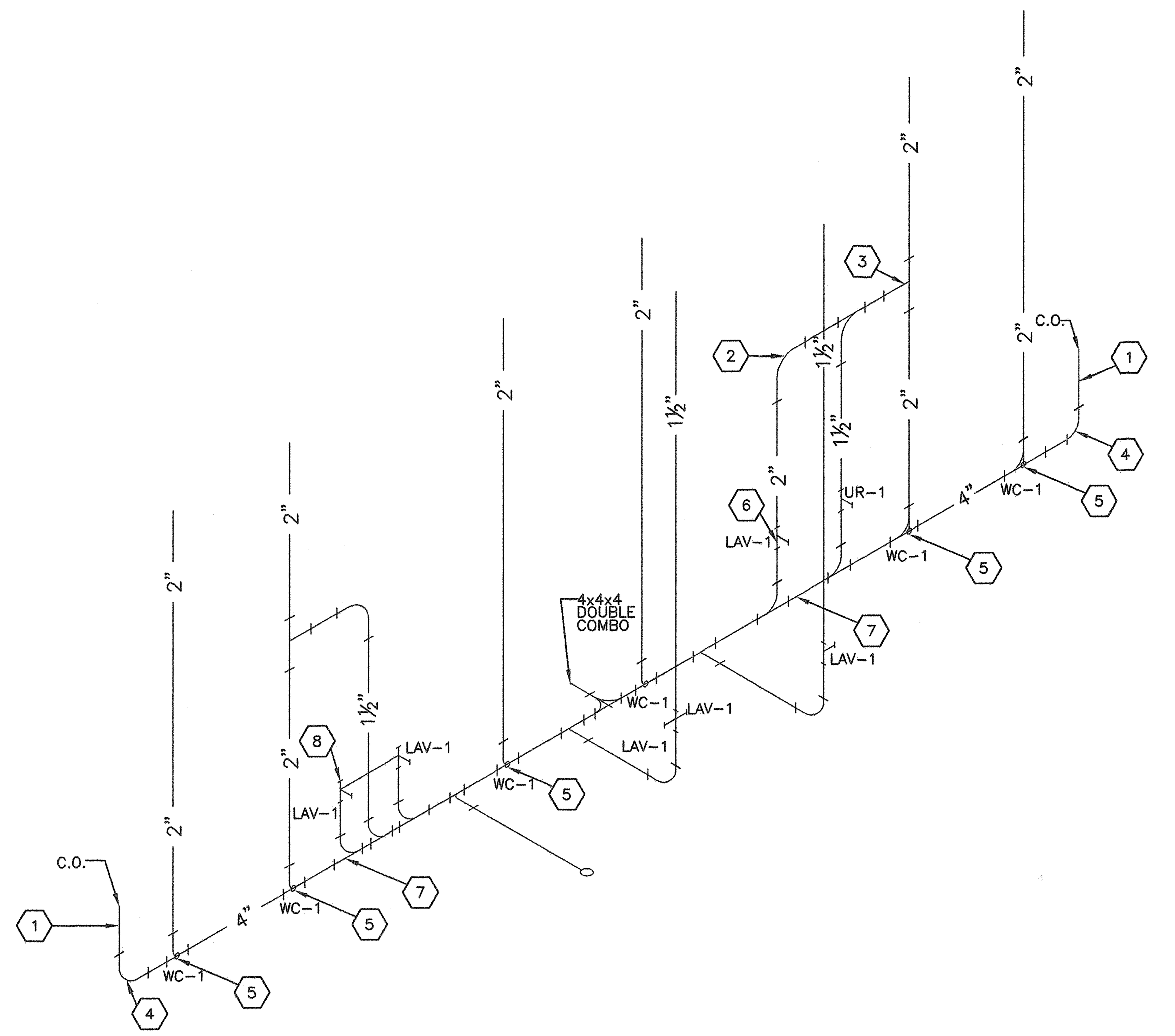
LICENSED ARCHITECT RANDALL PATRICK CAVANAGH No. C12631 Ren. 3-31-09 STATE OF CALIFORNIA

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

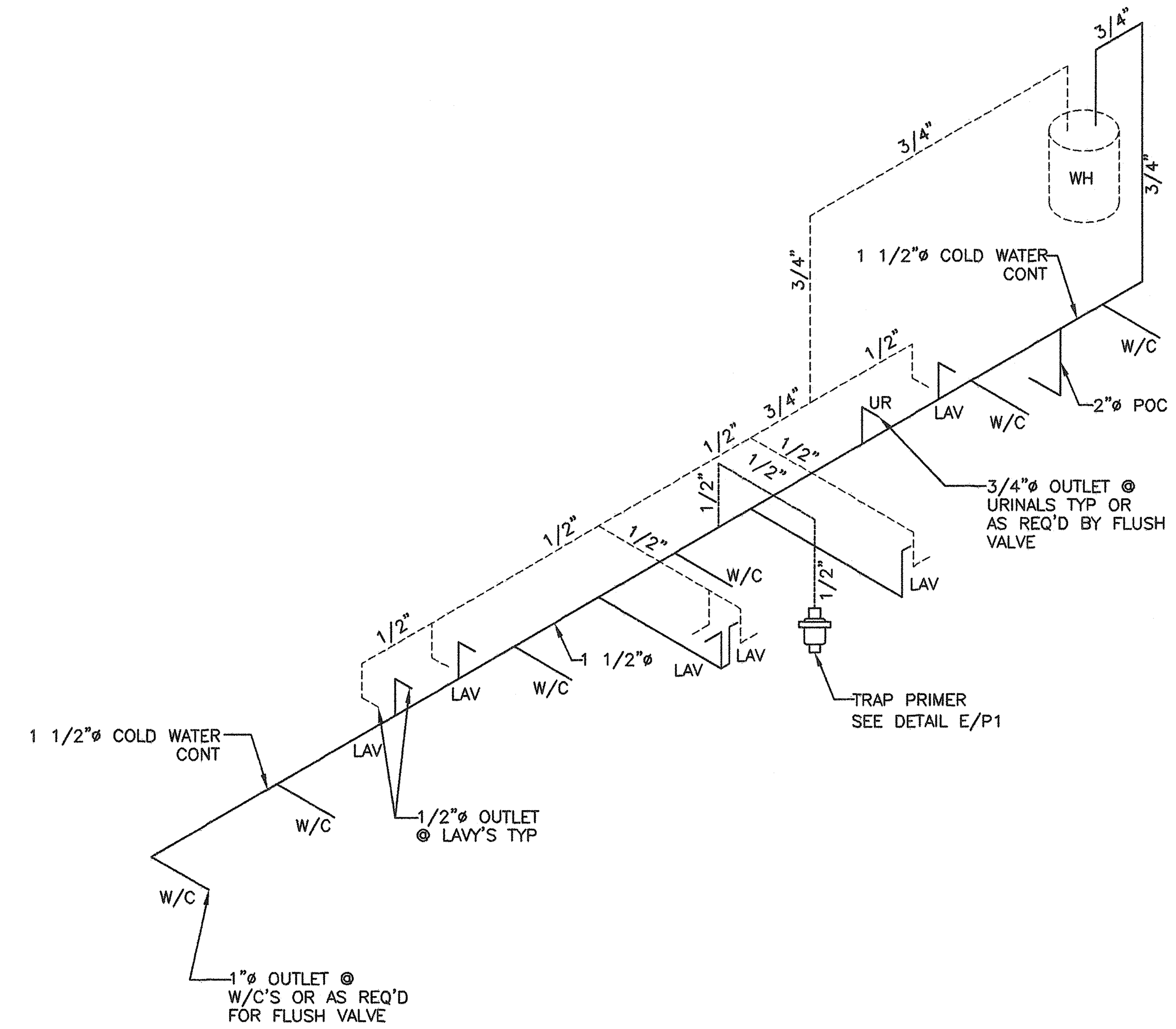
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
PC 02-109808
AC FLS SS
DATE 4/1/09

PROJECT No.

N2



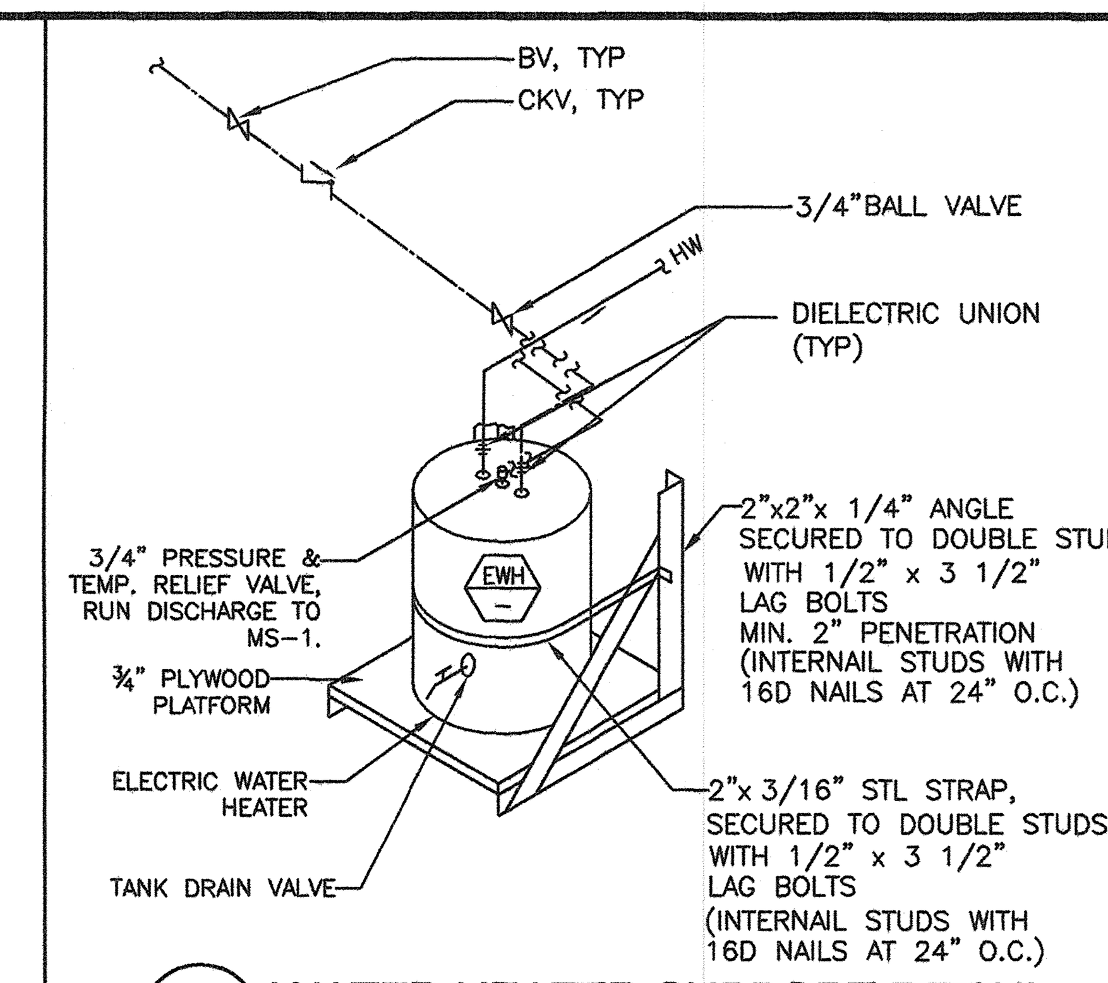
3C
P1
WASTE ISOMETRIC
NO SCALE



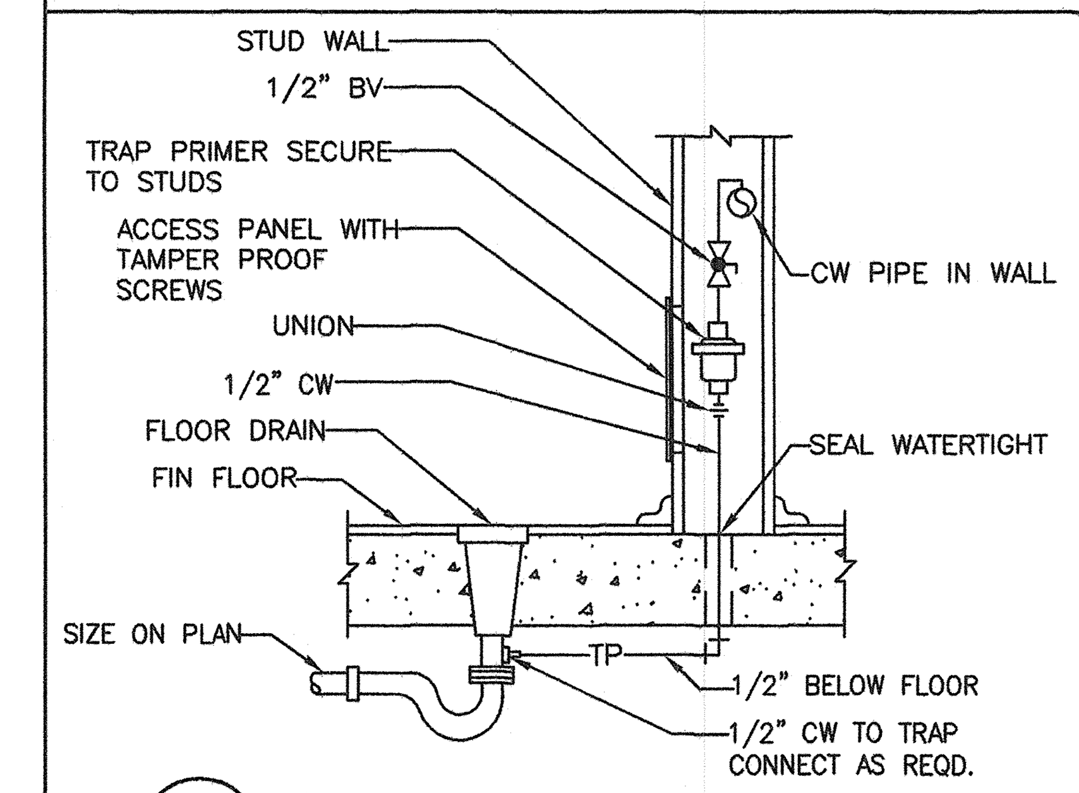
3B
P1
WATER SUPPLY ISOMETRIC
NO SCALE

3A
P1
RESTROOM OPTION #3
NO SCALE

——————— COLD WATER
- - - - - - - - - HOT WATER

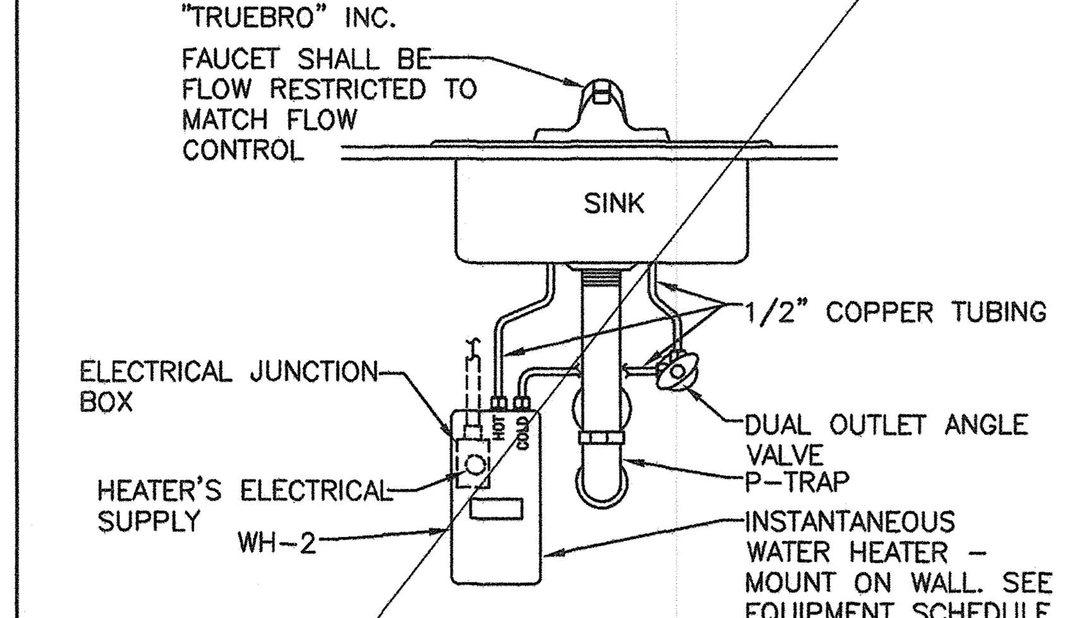


D
P1
WATER HEATER SUPPORT DETAIL
N.T.S



E
P1
TRAP PRIMER DETAIL
N.T.S

NOTE:
INSULATE HOT WATER SUPPLY AND DRAIN PIPING AT ACCESSIBLE LAVATORIES WITH HAND-LAV GUARD KITS AS MANUFACTURED BY "TRUEBRO" INC.



F
P1
INSTANT WATER HEATER DETAIL
N.T.S

SHEET NOTES

1. DWV PIPING SHALL BE ABS PLASTIC
2. COLD WATER SUPPLY SHALL BE TYPE L COPPER
3. DWV PIPING:

MIN SLOPE 1/4" PER FOOT
MAY SLOPE 4" CI @ 1/8" PER FOOT
VENTS SHALL TERMINATE NOT LESS THAN 10 FEET FROM OR AT LEAST 3 FT. ABOVE ANY WINDOW, DOOR, AIR INTAKE OR VENT SHAFT, NOR LESS THAN 3FT. IN EVERY DIRECTION FROM ANY LOT LINE; ALLEY AND STREET EXCEPTED; EXTEND 6" ABOVE THE ROOF

BASED ON PC# 02-109808

REVISIONS		
NO	DATE	DESCRIPTION
1		
2		
3		
4		

DATE: 01/19/10
SCALE: NOTED
DRAWN BY: MP
SERIAL NO.:

CUSTOMER:
BAKERSFIELD SCHOOL DISTRICT
MUNSEY ELEMENTARY SCHOOL

12 x 40 RELOCATABLE BUILDING
ISOMETRIC PLANS & DETAILS

AMS
American Modular Systems Inc.
787 Spreckels Ave. Manteca, CA 95336
(209)825-1921 Fax (209)825-7018
americanmodular.com

APPROVALS:

LICENSED ARCHITECT
RANDALL PATRICK CAVANAGH
No. C12631
Ren. 3.31.11
STATE OF CALIFORNIA

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
03-112985
AC FLS SS
DATE 2/10/10

PROJECT No.

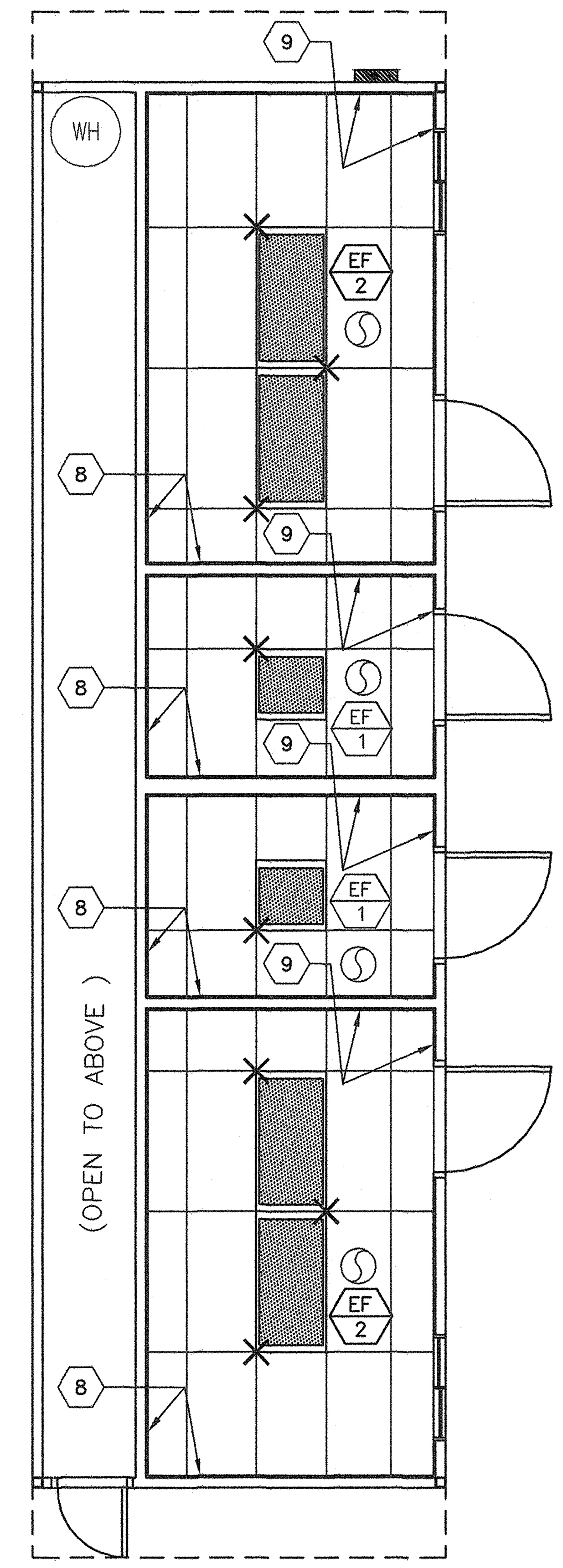
P1

EXHAUST FAN

MARK	DESCRIPTION	CFM	WATTS	S.P.	VOLT/PH	
EF 1	EXHAUST FAN	110	1050	.10"	115-1ø	NUTONE 672 CEILING MOUNTED 180W INPUT
EF 2	EXHAUST FAN	200	1050	.10"	115-1ø	CEILING MOUNTED 180W INPUT

BUILDING PLUMBING STANDARDS:

1. TOILETS SHALL BE KOHLER-KINGSTON #K-4330. FLUSH VALVES FOR TOILETS SHALL BE SLOAN-REGAL FLUSHOMETER #111. MOUNTING BRACKET BY J.R SMITH. SEATS SHALL BE BEMIS #1955C.
2. TOILETS MAY BE ALSO BE AMERICAN STANDARD AFWALL #2257.103. MOUNTING BRACKET BY J.R. SMITH #0600. FLUSH VALVES FOR TOILETS SHALL BE SLOAN-REGAL FLUSHOMETER #111. SEATS SHALL BE BEMIS #1955C.
3. LAVATORIES SHALL BE CAST IRON PORCELAIN FINISHED KOHLER-HUDSON #K-2861. STAFF LAVATORIES SHALL BE CHICAGO 3300-CP FAUCETS. STUDENT LAVATORIES SHALL BE CHICAGO 3400-CP FAUCETS. P-TRAP MAY BE DEARBORN BRASS COMPANY #704 ASSEMBLY OR EQUAL 17 GA . P-TRAP. COMPRESSION STOPS MAY BE BRASSCRAFT #OCR 19 CS OR EQUAL. PROVIDE STAINLESS STEEL BRAIDED CONNECTORS AT LEAST 16" LONG. MOUNTING BRACKETS SHALL BE J.R. SMITH #0800.



3/M1 TYPICAL REFLECTED CEILING PLAN
1/4"=1'-0" OPTION #3

- SHEET NOTES -

1. WALL HUNG HVAC UNIT
2. THERMOSTAT @ +60" SEALED
3. MAIN RUNNER TYP
4. CROSS RUNNER TYP
5. INTERIOR LIGHT FIXTURE REFER TO SHEET SHEET E1 FOR SPEC'S
6. CEILING HEIGHT @ 8'-6" NOM
7. SPLAY WIRE SEE 4/M2 FOR DETAILS
8. FIXED CEILING END
9. FREE CEILING END
10. CENTER SECTION THAT CROSSES MODULE LINE TO BE FIELD INSTALLED
11. NOT USED
12. CONCEALED SUPPLY AIR DUCT ABOVE T-BAR CEILING
13. TYPICAL 4-WAY SUPPLY AIR REGISTER LOCATION AND SIZE MAY VARY PER CEILING LAYOUT AND BUILDING SIZE

NOTE:
WHERE TWO OR MORE HVAC UNITS SERVE A COMMON SPACE, UNITS SHALL BE EQUIPED WITH DUCT SMOKE DETECTOR FOR AUTO SHUTDOWN. INTERCONNECT WITH FIRE ALARM SYSTEM

AUTOMATIC SHUT-OFF IS NOT REQUIRED WHEN ALL OCCUPIED ROOMS SERVED BY THE AIR HANDLING EQUIPMENT HAVE DIRECT ACCESS TO THE EXTERIOR AND THE TRAVEL DISTANCE DO NOT EXCEEDS 100 FT. PER CMC 609 EXEPTION #2

BASED ON PC# 02-109808

REVISIONS

NO	DATE	DESCRIPTION
1		
2		
3		
4		

DATE: 01/13/10
SCALE: NOTED
DRAWN BY: RS
SERIAL NO.:

CUSTOMER:
BAKERSFIELD SCHOOL DISTRICT
MUNSEY ELEMENTARY SCHOOL

12'X40' RELOCATABLE BUILDING
TYPICAL CEILING PLAN & NOTES

AMS
American Modular Systems Inc.
787 Spreckels Ave. Manteca, CA 95336
(209)825-1921 Fax (209)825-7018
americanmodular.com

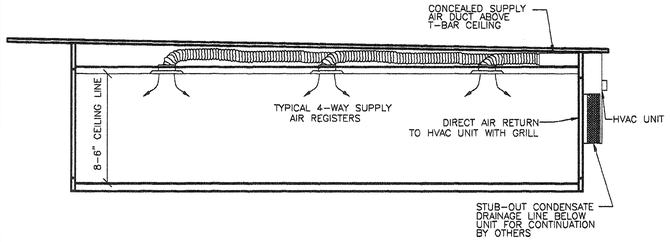
APPROVALS:

LICENSED ARCHITECT RANDALL PATRICK KAVANAGH No. C12631 Ren. 3-31-11 STATE OF CALIFORNIA

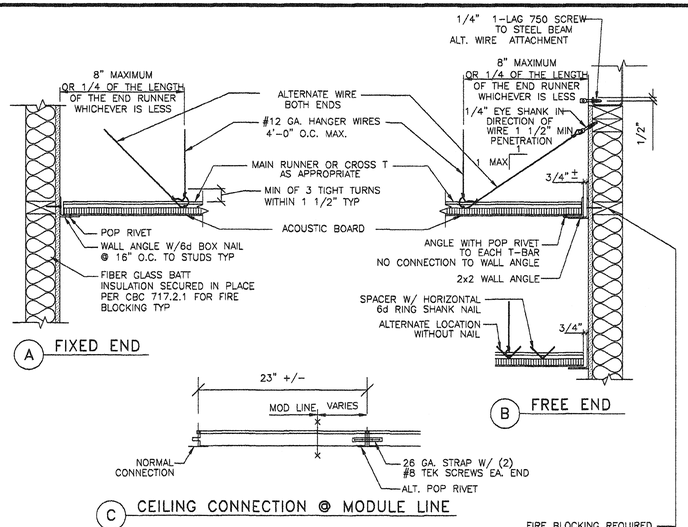
IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES
03-112985
AC ___ FLS ___ SS ___
DATE 2/10/10

PROJECT No.

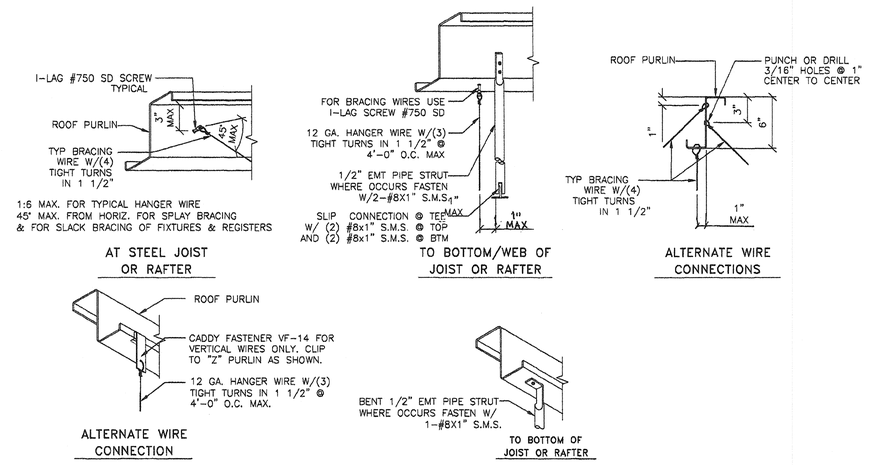
M1



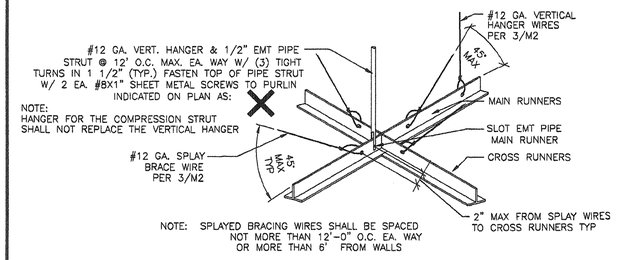
1 M2 **TYPICAL MECHANICAL DETAIL SECTION** 3/16"=1'-0"



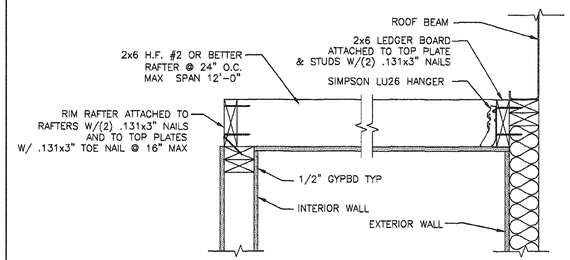
2 M2 **CEILING ATTACHMENTS DETAILS** 1 1/2"=1'-0"



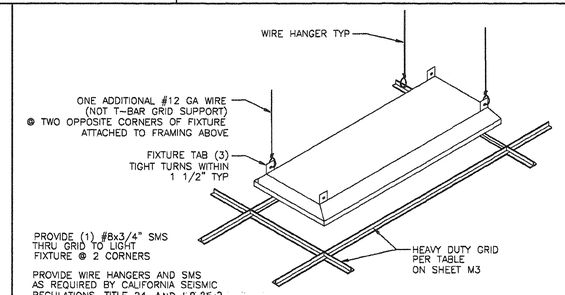
3 M2 **CONNECTION TO PURLINS DETAILS** 1 1/2"=1'-0"



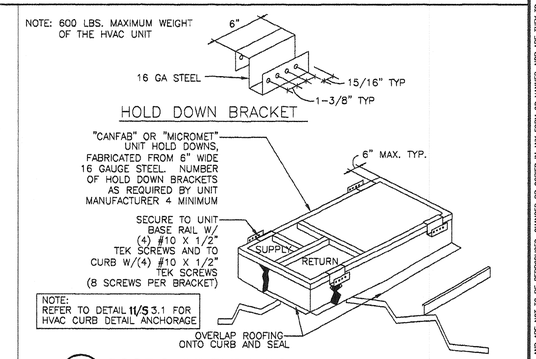
4 M2 **SPLAY WIRE DETAIL** 1 1/2"=1'-0"



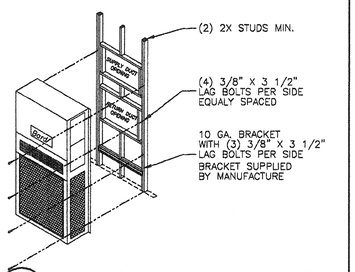
5 M2 **GYPBOARD CEILING DETAIL** 1 1/2"=1'-0" OPTIONAL



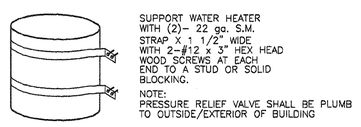
6 M2 **LIGHT FIXTURE ATTACHMENT DETAIL** 3/4"=1'-0"



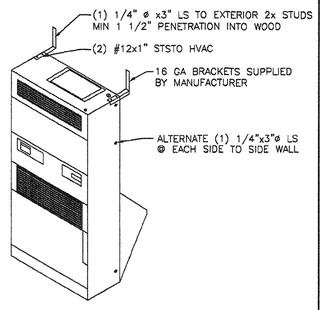
7 M2 **ROOF CURB ELEVATION** N.T.S. OPTIONAL



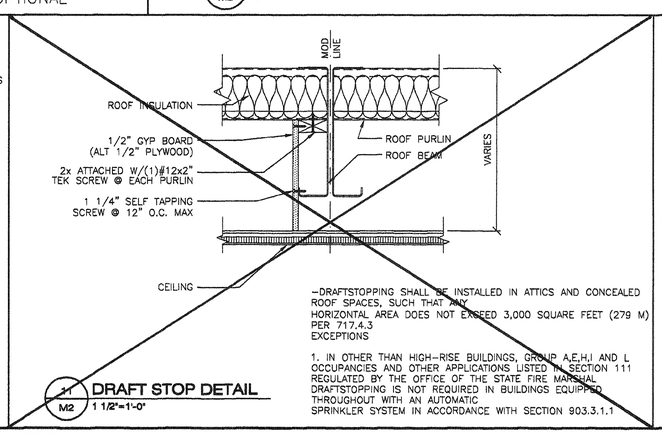
8 M2 **WALL MOUNT HVAC ANCHORAGE** N.T.S.



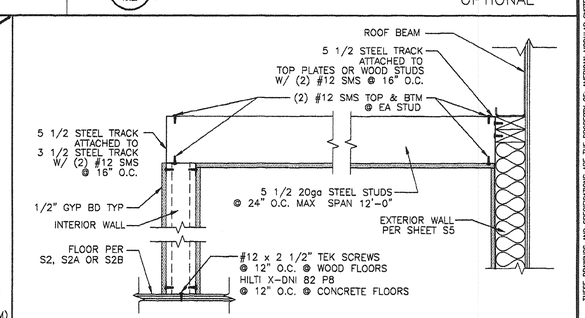
9 M2 **WATER HEATER SUPPORT DETAIL** NTS (FLOOR MOUNTED)



10 M2 **INTERIOR HVAC ANCHORAGE** N.T.S.



11 M2 **DRAFT STOP DETAIL** 1 1/2"=1'-0"



12 M2 **GYPBOARD CEILING DETAIL W/ STEEL STUDS** 1 1/2"=1'-0" OPTIONAL

REVISIONS		
NO	DATE	DESCRIPTION
1		
2		
3		
4		

DATE: 2/24/09
SCALE: NOTED
DRAWN BY: DM
SERIAL NO.:

CUSTOMER:

12'X40' RELOCATABLE BUILDING
MECHANICAL BUILDING SECTION & CEILING DETAILS

American Modular Systems Inc.
787 Spreckels Ave. Manteca, CA 95336
(209)825-1921 Fax (209)825-7016
americanmodular.com

APPROVALS:

REGISTERED MECHANICAL ENGINEER SAMUEL PATRICK CHAMBERS No. C12831 Rem.3.31.10 STATE OF CALIFORNIA

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT
DATE 2 MAR 09

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES
PC 02-109808
DATE 4/1/09

PROJECT No.

M2

METAL SUSPENSION SYSTEMS FOR LAY IN PANEL CEILING

1. 12 GA. (MIN) HANGER WIRES MAY BE USED FOR UP TO AND INCLUDING 4'-0" x 4'-0 GRID SPACING, ALONG MAIN RUNNER. SPLICES WILL NOT BE PERMITTED IN ANY HANGER WIRES UNLESS SPECIFICALLY APPROVED BY DSA.
2. PROVIDE 12 GA HANGER WIRES WITHIN 8" OF THE ENDS OF ALL MAIN AND CROSS RUNNERS OR AT 1/4 OF THE LENGTH OF THE END TEE, WHICHEVER IS LESS AT THE PERIMETER OF THE CEILING AREA.
3. PROVIDE TRAPEZE OR OTHER SUPPLEMENTARY SUPPORT MEMBERS AT OBSTRUCTIONS TO MAINTAIN HANGER SPACING. PROVIDE ADDITIONAL HANGERS, STRUTS OR BRACES AS REQUIRED AT ALL CEILING BREAKS, SOFFITS OR DISCONTINUOUS AREA. HANGER WIRES THAT ARE MORE THAN 1 IN 6 OUT OF PLUMB ARE TO HAVE COUNTERBRACED WIRES.
4. CEILING GRID MEMBERS MAY BE ATTACHED TO NOT MORE THAN 2 ADJACENT WALLS. CEILING GRID MEMBERS SHOULD BE AT LEAST 1/2 INCH FREE OF OTHER WALLS. IF WALLS RUN DIAGONALLY TO CEILING GRID SYSTEM RUNNERS, ONE END OF MAIN AND CROSS RUNNERS SHOULD BE FREE AND A MINIMUM OF 1/2 INCH CLEAR OF WALL.
5. AT THE PERIMETER OF THE CEILING AREA WHERE MAIN OR CROSS RUNNERS ARE NOT CONNECTED TO THE ADJACENT WALL, PROVIDE INTERCONNECTION BETWEEN THE RUNNERS AT THE FREE END TO PREVENT LATERAL SPREADING. A METAL STRUT OR A 16 GA WIRE WITH A POSITIVE MECHANICAL CONNECTION TO THE RUNNERS MAY BE USED. WHERE THE PERPENDICULAR DISTANCE FROM THE WALL TO THE FIRST PARALLEL RUNNERS IS 12" OR LESS, THIS INTERLOCK IS NOT REQUIRED.
6. PROVIDE SETS OF 4–#12 GA. SPLAYED BRACING WIRES ORIENTED 90 DEGREES FROM EACH OTHER AT THE FOLLOWING SPACING:
   (A) FOR SCHOOL BUILDINGS, PLACE SETS OF SPLAY WIRES AT A SPACING NOT MORE THAN 12 FEET BY 12 FEET ON CENTER.
   (B) PROVIDE SPLAY WIRES AT LOCATIONS NOT MORE THAN 1/2 THE ABOVE SPACING FROM EACH PERIMETER WALL OR AT THE EDGE OF VERTICAL CEILING OFFSETS

   THE SLOPE OF THESE WIRES SHOULD NOT EXCEED 45 DEGREES FROM THE PLANE OF THE CEILING AND SHOULD BE TAUT WITHOUT CAUSING THE CEILING TO LIFT. SPLICES IN BRACING WIRES ARE NOT PERMITTED WITHOUT SPECIAL DSA APPROVAL.
7. FASTEN HANGER WIRES WITH NOT LESS THAN 3 TIGHT TURNS. FASTEN SPLAY WIRES WITH 4 TIGHT TURNS. MAKE ALL TIGHT TURNS WITHIN A DISTANCE OF 1 1/2 INCHES. HANGER OR BRACING WIRE ANCHORS TO THE STRUCTURE SHOULD BE INSTALLED IN SUCH A MANNER THAT THE DIRECTION OF THE WIRE ALIGNS AS CLOSELY AS POSSIBLE WITH THE DIRECTION OF THE FORCES ACTING ON THE WIRE.
8. SEPARATE ALL CEILING HANGING AND BRACING WIRES AT LEAST 6 INCHES FROM ALL UNBRACED DUCTS, PIPES, CONDUIT ETC.,
9. ATTACH ALL LIGHT FIXTURES AND AIR TERMINALS TO THE CEILING GRID RUNNERS WITH SCREWS OR APPROVED FASTENERS AS REQUIRED TO RESIST A HORIZONTAL FORCE EQUAL TO THE FIXTURES.
10. FLUSH OR RECESSED LIGHT FIXTURES AND AIR TERMINALS WEIGHING LESS THAN 56 POUNDS MAY BE SUPPORTED DIRECTLY ON THE RUNNERS OF A HEAVY DUTY GRID SYSTEM BUT, IN ADDITION, THEY MUST HAVE A MINIMUM OF 2–#12 GA. SLACK SAFETY WIRES ATTACHED AT DIAGONAL CORNERS AND ANCHORED TO THE STRUCTURE ABOVE.
11. CLASSIFICATION OF CEILING GRID:
    CLASSIFICATION OF CEILING GRID IS "HEAVY DUTY" CHICAGO METALLIC, OR DONN(USG) PER ASTM C635
    MANUFACTURER'S CATALOG NUMBER – MAIN RUNNER HEAVY DUTY MAIN TEE OR EQUAL #200–01 OR DX26.
    MANUFACTURER'S CATALOG NUMBER – CROSS RUNNER CHICAGO METALLIC 1214–01 OR DONN DX 416 CROSS TEES.
    MANUFACTURER'S CATALOG NUMBER OF DETAIL FOR RUNNER SPLICE N/A.
    ACOUSTICAL PANELS SHALL BE 5/8" MINIMUM THICK, MINERAL FIBERBOARD OR VINYL–FACED FIBERGLASS LAY–IN PANELS SQUARE EDGE ASTM FLAME SPREAD CLASS T, 24" X 48" MODULAR SIZE, LIGHT REFLECTION 75% MINIMUM, NOISE REDUCTION COEFFICIENT OF 0.65 MINIMUM. MAXIMUM SMOKE DENSITY NOT TO EXCEED 450.

TABLE A HEAVY DUTY GRID COMPONENTS

MANUFACTURER	MAIN TEE	H.D. 4' CROSS TEE	H.D. 2' CROSS TEE
DONN/USG	DX–26	DX–424	DX–216
ARMSTRONG	7301	7341	7323
CHICAGO MET.	200–01	1204–01	1226–01
NOTE: ALL GRID COMPONENTS SHALL BE BY SAME MANUFACTURER			

HVAC CFM CHART

MODEL NUMBER	DESCRIPTION	MAX. CFM	UNIT WEIGHT LBS.
WH421–A	3 1/2 TON HEAT PUMP	1400	530
WH482–A	4 TON HEAT PUMP	1550	560
WH602–A	5 TON HEAT PUMP	1700	560

GENERAL NOTES

HEATING VENTILATING AND AIR CONDITIONING (HVAC)

1. HEAT PUMP: SINGLE PACKAGE WALL MOUNTED AIR TO AIR ELECTRIC HEAT PUMP UNIT SHALL BE RATED IN ACCORDANCE WITH ARI STANDARD 240–77.
   REFERENCE
   BRANDS: BARD WH421–AXXXXXXX
   BARD WH482–AXXXXXXX
   BARD WH602–AXXXXXXX

   MAXIMUM AC SIZE FOR THIS BUILDING WILL BE A 5–TON UNIT

   ALL UNITS SHALL BE 230/208 VOLT, 1 PHASE SYSTEM, UL TESTED & APPROVED OR COMPARABLE AND MEET CURRENT ENERGY STANDARDS.
   A.) THE SYSTEM SHALL MAINTAIN AN AUTOMATICALLY CONTROLLED INDOOR CLASSROOM TEMPERATURE OF 78 DEGREES
   F. WHEN THE OUTDOOR DRY BULB TEMPERATURE VARIES BETWEEN 100 DEGREES F. IN THE SUMMER
   B.) THE SYSTEM MUST MAINTAIN THE ABOVE TEMPERATURE WHEN THE DAMPER IS ADJUSTED TO USE APPROXIMATELY ONE THIRD FRESH AIR.
2. DUCTWORK.
   A.) CONSTRUCT ALL DUCTWORK OF GALVANIZED SHEET METAL IN ACCORDANCE WITH C.M.C., ASHRAE GUIDE EQUIPMENT VOLUME AND SMACNA LOW VELOCITY DUCT CONSTRUCTION MANUAL LATEST EDITIONS. ALL DUCTWORK SHALL BE INSULATED WITH 1" THICK FIBERGLASS DUCT WRAP WITH VAPOR BARRIER. PROVIDE 1" DUCT ATTENUATION AT ALL DUCTWORK WITHIN 2'–0" OF HVAC UNIT.
   B.) NON–METALLIC DUCTWORK OPTION: IN ACCESSIBLE CONCEALED PORTIONS OF DUCT SYSTEM RIGID 1" FIBERGLASS OR INSULATED FLEX–DUCT WITH VAPOR BARRIER MAY BE SUBSTITUTED FOR SHEET METAL DUCTWORK. ALL DUCTWORK WITHIN 2'–0" OF THE HVAC UNIT AND ALL INTERFACE CONNECTIONS SHALL BE METAL. DUCTWORK AND REINFORCEMENT SHALL BE DESIGNED FOR 2" STATIC PRESSURE.
   REFERENCE BRANDS: OWENS–CORNING FIBERGLASS DUCTTBOARD, 1" THICK, AND MICRO–AIRE, TYPE 475.
   NON–METALLIC DUCTWORK SHALL CONFORM TO NFPA 90–A AND SMACNA CLASS 1 RATING.
3. AIR DUCT INSULATION AND LININGS SHALL COMPLY WITH FLAME SPREAD LESS THAN OR EQUAL TO 25, SMOKE GENERATION LESS THAN OR EQUAL TO 50.
4. SUPPLY AIR DIFFUSERS SHALL BE 675 CFM MAX. 12" ROUND. 1" FIBERGLASS OR FLEXDUCT
   DUCTWORK SPECIFICALLY DESIGNED TO PROVIDE AIR THERMAL COOLING SYSTEMS. 24"X8"X1" MICRO–AIRE TYPE #475 OWENS–CORNING, KNAUF, CERTAINTEED, OR EQUAL AND 90– B: UL #131 TEST, CLASS 1 RATING WITH "SMACNA".
5. REGISTERS AND DIFFUSERS: PROVIDE THREE (MIN) 4–WAY THROW AIR DIFFUSERS AS MANUFACTURED CARNES, TITUS, HART AND COOLEY, METALAIRE, SHOEMAKER, BARBER–COLEMAN OR KRUEGER COMMERCIAL GRADE GRILLS AND REGISTERS
6. AIR CONDITIONING CONTROLS.
   THERMOSTAT: PROVIDE ELECTRONIC PROGRAMMABLE THERMOSTAT. THERMOSTAT SHALL HAVE THE FOLLOWING FUNCTIONS.
   A.) 5 AND 2 WEEKDAY/WEEKEND PROGRAMMING WITH 4 SEPARATE TIME/TEMPERATURE SETTING FOR 24–HOUR PERIOD.
   B.) KEY BOARD LOCKOUT SWITCH.
   C.) PROGRAMMABLE DISPLAY.
   D.) 2–HOUR OVERRIDE MINIMUM.
   E.) STATUS INDICATED LED'S.
   F.) BATTERY BACK–UP.
   PROVIDE LOCKING CLEAR THERMOSTAT COVER WITH THERMOSTAT COVER WITH ACCESS HOLE FOR PROGRAM OVERRIDE. WHITE RODERS IF92–371. MOUNT @ +60" w/COVER (SEALED–SETTING ADJUSTMENTS CAN BE DONE BY SERVICE PERSONNEL ONLY.) +48" UNSEALED.
7. THERMAL INSULATION
   A.) ROOF INSULATION: R–19 UNFACED.
   B.) WALLS INSULATION: R–13 KRAFT FACED.
   C.) FLOORS INSULATION: CONCRETE FLOOR
   FLAME SPREAD AND SMOKE DEVELOPMENT SHALL CONFORM TO CALIFORNIA BUILDING CODE SEC. 719.
8. FACTORY–MADE AIR DUCTS. FACTORY–MADE AIR DUCTS SHALL BE APPROVED FOR THE USE INTENDED OR SHALL CONFORM TO THE REQUIREMENTS OF U.M.C. STANDARD NO. 6–1. EACH PORTION OF A FACTORY–MADE AIR DUCT SYSTEM SHALL BE IDENTIFIED BY THE MANUFACTURER WITH A LABEL OR OTHER SUITABLE IDENTIFICATION INDICATING COMPLIANCEWITH U.M.C. STANDARD NO. 6–1 AND ITS CLASS DESIGNATION. THESE DUCTS SHALL BE LISTED AND SHALL BE INSTALLED IN ACCORDANCE WITH THE TERMS OF THEIR LISTING AND THE REQUIREMENTS OF UMC STD. 6–1.

   DUCT SUPPORT
   FLEX DUCT TO BE SUPPORTED WITH 1–1/2" WIDE X 26 GA. GALV. STRAP @ MAX 6'–0" O.C. ATTACH TO RAFTER W/2 #8 SMS @ EACH END.
   SUPPLY AIR PLENUM TO BE SUPPORTED WITH 1–1/2" WIDE X 26 GA. GALV. STRAPS MIN. 2 PER PLENUM.
   SUPPLY AIR BOX AND DIFFUSERS TO BE SUPPORTED WITH (2) 12 GA. HANGER WIRES TO BOX @ OPPOSITE CORNERS.
   SUPPLY AIR BOX AND DIFFUSERS TO BE BRACED WITH (2) 12 GA. SLACK WIRES TO BOX @ OPPOSITE CORNERS. ATTACH SUPPLY AIR DIFFUSERS TO CEILING GRID TO RESIST A LATERAL LOAD EQUAL TO THE WEIGHT OF THE DIFFUSER AND SUPPLY AIR BOX W/2 #8 SMS.
9. FIREBLOCKING:
   SHALL BE PROVIDED IN THE FOLLOWING LOCATION
10. IN CONCEALED SPACES OF STUD WALLS AND PARTITIONS, INCLUDING FURRED SPACES, AT THE CEILING AND FLOOR LEVELS AND AT 10–FOOT (3048mm) INTERVALS BOTH VERTICAL AND HORIZONTAL. SEE CBC SECTION 717.2

INSULATION SCHEDULE

ZONE	WALL	ROOFS	FLOORS
1–14 & 16	R –13	R –19	R –13
15	R –13	R –30	R –13

REVISIONS

NO	DATE	DESCRIPTION
1		
2		
3		
4		

DATE: 2/24/08
SCALE: NOTED
DRAWN BY: DM
SERIAL NO.:

CUSTOMER:

12'X40' RELOCATABLE BUILDING
CEILING & MECHANICAL NOTES

American Modular Systems Inc.
787 Sprackels Ave. Manteca, CA 95336
(209)825-1921 Fax (209)826-7016
americanmodular.com

APPROVALS:

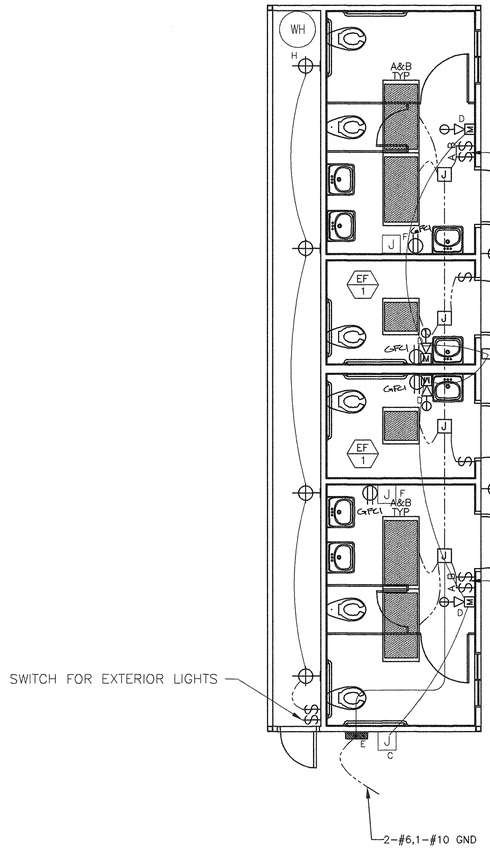
REGISTERED MECHANICAL ENGINEER No. C12631 Ren. 3-31-07 STATE OF CALIFORNIA

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT 03-1-13985 AC FLS SS DATE

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES PC 02-109808 AC FLS SS DATE 9/19/07

PROJECT No.
PC

M3



3 / E1 TYPICAL ELECTRICAL PLAN
1/4"=1'-0"

B. EXTERIOR 4 SQ. J-BOX (FIRE ALARM HORN) INSTALL AT +90" FROM FINISFED FLOOR.
C. J-BOX ONLY (FIRE ALARM TIE-IN) INSTALL 4" SQ. BOX, 2 GANG RING WITH 1" CONDUIT TO ABOVE CEILING. TIE TO 3/4" CONDUIT AS SHOWN ON PLAN FOR FIRE ALARM DEVIECES.
D. 4" SQ. J-BOX (FIRE ALARM HORN/STROBE).
E. ELECTRICAL SERVICE TIE-IN LOCATION.
F. 4" J-BOX MOUNTED AT +36" TO CENTER WITH 230 V. POWER FOR DISTRICT SUPPLIED HAND DRYERS.
G. EXTERIOR ENERGY SAVING LIGHT FIXTURE. STANDARD LIGHT SWITCH LOCATED IN PLUMBING CHASE. IDENTIFIY SWITCH AS SUCH.
H. 6 GALLON 120V ELECTRIC WATER HEATER. MOUNT ON WALL AS HIGH AS POSSIBLE WITH dsa APPROVED PLATFORM AND SAFTEY STRAP.

STANDARD ELECTRICAL SYMBOLS

- EXIT LIGHT WHERE TWO OR MORE EXITS ARE REQUIRED
- INCANDESCENT WALL MOUNTED INTERIOR LIGHT FIXTURE
- DUPLEX WALL CONVENIENCE OUTLETS @ +18" TO CENTER LINE ABOVE F.F. AND 12'-0" MAX TYP U.O.N.
- FOURPLEX WALL OUTLET @ +18" TO CENTER LINE U.O.N..
- W.P.GFCI — WEATHER PROOF GROUND FAULT CIRCUIT INTERRUPT OUTLET
- GFCI — GROUND FAULT CIRCUIT INTERRUPT OUTLET
- $ — SINGLE POLE LIGHT SWITHCES @ +48", HUBBELL PREMIUM, BRYANT HEAVY DUTY, OR LEVITON SPECIFICATIONS GRADE.
- J — ELECTRICAL CROSSOVER J-BOXES ABOVE T-BAR CEILING #1-4"X1", #22 4"X2"
- CLOCK/SPEAKER COMBO @ +90"
- a — SWITCH SUBSCRIPTS - a=DEVICE CONTROLLED.
- JUNCTION BOX - SIZE AND TYPE AS REQUIRED.
- S — SPEAKER- OUTLET ONLY - 4" SQ. BOX W/ SINGLE DEVICE RING AND COVER +84"
- DATA/COMMUNICATION OUTLET ONLY- 4" SQ. BOX W/ SINGLE DEVICE RING AND COVER +18" U.O.N. AND A 3/4" CONDUIT STUB CEILING SPACE.
- INTERCOM TELEPHONE- OUTLET ONLY- 4" SQ. BOX W/ SINGLE DEVICE RING AND COVER +48" U.O.N.
- M — MOTION SENSOR OUTLET STUB-UP -PROVIDE (1)4" SQ. BOX W/ SINGLE DEVICE RING AND COVER AND ONE 3/4" CONDUIT STUB TO ABOVE CEILING (DEVICES BY OTHERS)
- S — SECURITY/INTRUSSION KEY PAD - OUTLET ONLY- 4" SQ. BOX W/ SINGLE DEVICE RING AND COVER @ +48" AND ONE 3/4" CONDUIT STUB ABOVE CEILING
- DC — DOOR CONTACT - PROVIDE (1) EMPTY 1/2"ø EMT THROUGH DOOR HEADER STUB ABOVE CEILING
- CATV — CATV OUTLET STUB-UP -PROVIDE (1)4" SQ. BOX W/ SINGLE DEVICE RING AND COVER AND(1) 3/4"ø CONDUIT TO ABOVE CEILING (DEVICES BY OTHERS)
- F — FIRE ALARM PULL STATION - OUTLET ONLY, 4" SQ. BOX W/ SINGLE DEVICE RING AND COVER +48". (DEVICE N.I.C.)
- FIRE ALARM HORN - OUTLET ONLY - 4" SQ. SINGLE GANG J-BOX WITH BLANK WEATHERPROOF COVER @ +90" MIN (DEVICE N.I.C.)
- FIRE ALARM VISUAL ALARM- OUTLET ONLY - 4" SQ. BOX W/ SINGLE DEVICE RING AND COVER +80". A.F.F. BUT NO GREATER THAN +96". IF CEILING MOUNTED PER NFPA72 TABLE 6-4.4.1(b).
- M — MINI HORN BOX W/ SINGLE DEVICE RING AND COVER @ +80"A.F.F. BUT NO GREATER THAN +96". STUB TO ATTIC
- T — THERMOSTAT @ +60" SEALED, +48" A.F.F UNSEALED
- ULTRASONIC OCCUPANCY SENSOR
- ELECTRICAL PANEL

NOTE:
AT ANY SPACE REQUIRING 2 OR MORE EXITS PROVIDE EXIT SIGNS (CBC 1011) AND EMERENCY EXIT ILLUMINATION (CBC 1006)

NOTE:
THE PROJECT ARCHITECT SHALL BE RESPONSIBLE FOR THE PLACEMENT OF HEAT, SMOKE DETECTORS AND PULL STATIONS WHEN THE SITE SPECIFIC PROJECT IS REQUIRED TO MEET THE PROVISIONS OF SB 575 & CBC 907.2.3

SYMBOL	DESCRIPTION	WATTS	MANUFACTURER
	2'X4' FLOURESCENT DROP IN FIXTURE, ACRYLIC PRISMATIC LENS. T-8 ELECTRONIC BALLASTS (3)32 WATT TUBES, WT. 27 LBS.	SP41 32 W	CRESCENT 24GP40HFSA1158YF2 OR LITHONIA 2GT440A12120ESPWS1846LPESCW
	FLOURESCENT SURFACE MOUNTED EXTERIOR LIGHT WITH IMPACT RESISTANT ENCLOSURE. .125 THICK CLEAR PRISMATIC ONE PIECE LENS W/ NEOPRENE GASKET & POSIGRIP STAINLESS STEEL SCREWS. (PROVIDE EMERGENCY BATTERY BACK-UP WHERE TWO OR MORE EXITS OCCUR.)	(2) 7W TT 2700 K	ENERTRON 7026B-L OR EQUAL

- GENERAL NOTES -

1. - F.A. : STUB-UP ALL FIRE ALARM JUNCTION BOXES TO ACCESSIBLE ATTIC SPACE WITH 1/2" MIN. GALV. THIN WALL TUBING (EMT).
   DO NOT CONNECT FIRE ALARM CONDUIT WITH ANY OTHER ELECTRICAL CONDUIT
2. - IF OPTIONAL DOOR OCCURS A PULL STATION J-BOX AND EXIT SIGN ARE REQUIRED. PULL STATIONS ARE REQUIRED @ EVERY EXIT
3. - STUB OUT LOCATIONS FOR ELECTRICAL PANEL, FIRE ALARM, AND DATA BOXES SHOWN ARE DIAGRAMITICAL ONLY EXACT LOCATIONS MAY VARY +/- SEVERAL FEET. PLEASE CONTACT AMERICAN MODULAR SYSTEMS FOR EXACT LOCATIONS. POINT OF CONNECTION WILL BE AT FACE OF BUILDING.
4. - SEE TYPICAL CLASSROOM LAYOUT FOR LOCATIONS OF ALL DEVICES. FIXTURE MOUNTING SHALL COMPLY WITH CALIFORNIA SEISMIC REGULATIONS.
5. - THE LIGHTS FOR EACH ROOM OVER 250' SQ FT SHALL BE CONTROLLED BY ULTRASONIC OCCUPANCY SENSOR. WATT STOPPER W-500A, W-1000A,OR W-2000A (OR EQUAL) BASED ON THE ROOM SIZE IN CONJUCTION WITH BI-LEVEL SWITCHING.

BASED ON PC# 02-109808

REVISIONS

NO	DATE	DESCRIPTION
1		
2		
3		
4		

DATE: 01/14/10
SCALE: NOTED
DRAWN BY: RS
SERIAL NO.:

CUSTOMER:
BAKERSFIELD SCHOOL DISTRICT
MUNSEY ELEMENTARY SCHOOL

12'X40' RELOCATABLE BUILDING
TYPICAL ELECTRICAL PLAN & NOTES

American Modular Systems Inc.
787 Spreckels Ave. Manteca, CA 95336
(209)825-1921 Fax (209)825-7018
americanmodular.com

APPROVALS:

LICENSED ARCHITECT RANDALL PATRICK CANAVAN No. C12631 Rem. 2-28-11 STATE OF CALIFORNIA

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
03-112985
AC, FLS, SS
DATE 2/10/10

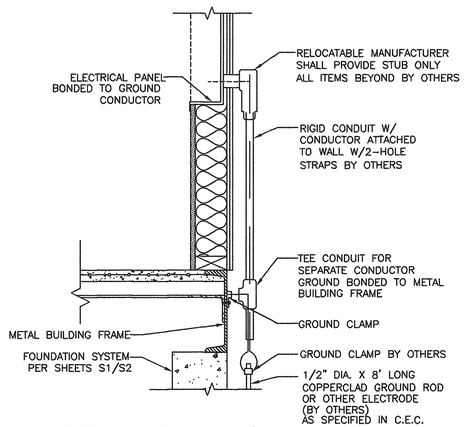
PROJECT No.

E1

VOLTS: 120/240 SINGLE PHASE			PANEL "A"						FEED: EXTERIOR LB		
MAIN: 60 AMP MAIN BKR.			LOCATION: INTERIOR						MOUNTING: FLUSH		
LOAD	WATTS A	WATTS B	BRK. AMP	P	CTR	A	B	CTR	P	BRK. AMP	WATTS A	WATTS B	LOAD
RECEPTS	1440		20	1	1			2	2	30	3216		WATER HEATER
EXIT LIGHT / EXTERIOR LIGHTS		300	20	1	3			4		30		3216	WATER HEATER
INTERIOR LIGHTS	1440		20	1	5			6					
F.A.C.P		*			7			8					
					9			10					
					11			12					
					13			14					
					15			16					
PHASE WATTAGE	2880	300			17			18			3216	3216	PHASE WATTAGE
TOTAL WATTS "A" LEG = 6096			TOTAL WATTS A+B= 9612						TOTAL WATTS "B" LEG = 3516				
TOTAL WATTS = 9612			40 AMPS			120/240V			SINGLE PHASE				60 AMP BUS.

FEEDERS: 3-#2 & 1-#8 CU. TO BE RUN BY THE DISTRICT EITHER UNDERGROUND OR OVERHEAD, SEE SITE ELEC. PLAN.

NOTE:
FIRE ALARM DEDICATED CIRCUIT SHALL BE INDENTIFIED WITH A RED MARKED DISCONNECT WITH LOCK-ON CAPABILITY NFPA 72 4.4.1.4.2.1



SIZE OF CONDUCTORS SHALL COMPLY W/CEC.
BOND SEPARATE CONDUCTORS FROM GROUND ROD TO ELECTRICAL PANEL & METAL BUILDING FRAME (CEC).
IN ADDITION TO THE DETAIL SHOWN ABOVE, BOND THE ELECTRICAL GROUND TO METAL WATER PIPE EMBEDDED AT LEAST 10' INTO THE SOIL IF AVAILABLE (CEC).
ELECTRICAL BOND MODULES TOGETHER W/#8 CU @ MODLINE. BY MANUFACTURER. CHECK RESISTANCE TO GROUND. IF RESISTANCE EXCEEDS 25 OHMS, INSTALL ADDITIONAL GROUND RODS (CEC) AS REQUIRED. GROUNDING DETAIL PER DSA IR E-1.
INSPECTOR TO WITNESS GROUNDING TEST.

1/E2 GROUNDING DETAIL
1 1/2"=1'-0"

BASED ON PC# 02-109808

- GENERAL NOTES -

FIRE ALARM SYSTEM

1. THE FIRE ALARM SYSTEM SHALL CONFORM TO THE CALIFORNIA ELECTRICAL CODE,& CA. FIRE CODE.
2. INSTALLATION OF THE FIRE ALARM SYSTEM SHALL NOT BE STARTED UNTIL DETAILED PLANS AND SPECIFICATIONS, INCLUDING CALIFORNIA STATE FIRE MARSHAL LISTINGS FOR EACH COMPONENT OF THE SYSTEM HAVE BEEN APPROVED BY DSA.
3. UPON COMPLETION OF THE INSTALLATION OF THE FIRE ALARM SYSTEM, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF THE ENFORCING AGENCY.
4. JUCTION BOXES- GALVINIZED SHEET METAL, SQUARE OR RECTANGULAR WITH BLANK COVERS. LOCATE ONE BOX AT REAR OF BUILDING NEAR MAIN ELECTRICAL PANEL AT +18" ABOVE FINISH FLOOR FOR FUTURE CONNECTION.
5. COVERS- INSTALL GASKETED, METAL, WATERPROOF, FINISH COVERS AT EXTERIOR LOCATIONS. INSTALL FINISH COVERS AT INTERIOR LOCATIONS.
6. THE AUTOMATIC ALARM SYSTEM SHALL BE INSTALL, TESTED, AND MAINTAINED IN ACCORDANCE WITH THE STATE FIRE MARSHAL REGULATIONS (CBC 907.2.3) AND THE 2002 EDITION OF NFPA 72.
7. THE LOCATION OF AUTOMATIC DETECTORS, MANUAL STATIONS AND OTHER FIRE ALARM EQUIPMENT AND DEVICES, AS SHOWN ON PLAN, ARE FOR REFERENCE ONLY AND DO NOT CONTITUTE SHOP DRAWINGS WICH ARE REQUIRED FOR REVIEW AND APPROVAL.
8. ALARM-INDICATING DEVICES OF A FIRE ALARM SYSTEM INTENDED TO ALERT ALL OCCUPANTS SHALL CAUSE A LEVEL OF AUDIBILITY OF NOT LESS THAN 15 dBA ABOVE THE AVERAGE AMBIENT NOISE LEVELS OR 5dBA ABOVE THE MAXIMUM SOUND LEVEL HAVING A DURATION OF 60 SECONDS WHICH-EVER IS GREATER, MEASURED 5' ABOVE THE FLOOR. AMBIENT NOISE LEVELS MEANS THE LEVEL WICH CAN NORMALLY BE EXPECTED WHEN THE FACILITY, BUILDING, ROOM, OR AREA IS FUCTIONING UNDER NORMAL OPERATING OR WORKING CONDITIONS (NFPA 72, SEC. 7.4.2)
9. THE ALARM SYSTEM SHALL ACTIVATE A MEANS OF WARNING THE HEARING IMPAIRED. FLASHING VISUAL WARNINGS SHALL HAVE A FLASH RATE NOT EXCEEDING TWO FLASHES PER SECOND (2 HZ) NOR BE LESS THAN ONE FLASH EVERY SECOND (1 HZ). STROBE SIGNALING DEVICES FOR THE HEARING IMPAIRED SHALL BE STATE FIRE MARSHAL APPROVED AND LISTED (NFPA 72, SEC. 7.5)
10. AUTOMATIC FIRE ALARM SYSTEM SHALL TRANSMIT THE ALARM, SUPERVISORY AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION AS REQUIRED BY NFPA 72 AS AMENDED BY STATE FIRE MARSHAL. THE SUPERVISING STATION SHALL BE LISTED AS EITHER UUFX OR UUJS BY UNDERWRITERS LABORATORY OR SHALL MEET THE REQUIREMENTS OF FACTORY MUTUAL RESEARCH APPROVAL STANDARD 3011. SUPERVISION OF SYSTEM AND LEASED TELEPHONE LINES SHALL BY ARRAGED BY OWNER.
    IF TESTING RESULTS DETERMINE FIRE ALARM AUDIBILITY DOES NOT MEET 10db OVER AMBIENT NOISE LEVELS, ADDITIONAL FIRE ALARM SIGNALING DEVICES MAY BE REQUIRED BY TYHE ENFORCING AGENCY PER [CBC].

GENERAL NOTES

1. GROUNDING ELECTRODE CONDUCTOR SIZED PER CEC.
2. PROVIDE BONDS TO BLDG. STEEL & PANEL (#8 CU)
3. PANEL TO LISTED FOR USE AS SERVICE EQUIPMENT.

FIXTURE NOTES:

1. ALL FLUORESCENT LIGHT FIXTURES SHALL HAVE ENERGY SAVING LAMPS AND BALLASTS.
2. LUMINATES/BALLASTS SHALL BE CERTIFIED PER CALIFORNIA BUILDING CODE, TITLE 24.
3. FLUORESCENT LIGHT FIXTURE TYPE "A" SHALL BE CONTROLLED TO PROVIDE TWO LEVELS OF LIGHTING. SWITCH (SA) SHALL CONTROL THE TWO OUTER LAMPS AND SWITCH (SB) SHALL CONTROL THE TWO INNER LAMPS.

ELECTRICAL
1. ELECTRICAL SERVICE DROP AND CONNECTIONS SUPPLIED BY OTHERS.
2. MANUFACTURER TO PROVIDE STUB-OUT FROM BACK OF ELECTRICAL PANEL THROUGH THE EXTERIOR WALL OR TO BELOW FLOOR FOR RECEIVING EITHER UNDERGROUND OR OVERHEAD SERVICE & FITTING FOR GROUNDING CABLE.
3. ELECTRICAL PANEL BOARD SHALL BE RECESS MOUNTED INSIDE THE BUILDING. SIZED TO ACCOMMODATE ALL CONNECTED LOADS INCLUDING SPACES AS SHOWN. OVERCURRENT PROTECTIVE DEVICES IN THE PANEL BOARDS HAVE ADEQUATE SHORT CIRCUIT INTERRUPTING CAPACITY. ALL BUSES INCLUDING BUS SHALL BE COPPER OR ALUMINUM.
4. 2X4 FLOURESCENT FIXTURES SHALL BE STEEL FRAME, LENS SHALL BE HINGED AND LOCKED IN PLACE BY TWO LOCKING DEVICES. THE LENS DIFFUSERS SHALL BE KHS, INC. #KSH-12, CAROLITE, INC. #C-12 OR PLASKOLITE, INC. #PL21A. MINIMUM LENS THICKNESS SHALL BE .125 INCH.
5. FLOURESCENT BALLAST SHALL BE ENERGY SAVER WHILE MAINTAINING FULL LIGHT OUTPUT, CLASS "P" EQUIPPED WITH THERMAL PROTECTORS, GUARANTEED AGAINST FAILURE FOR (2) YEARS AND BE REPLACED FROM INSIDE THE FIXTURE.
6. CLOCK - 12" DIAL CLOCK ON CLOCK OUTLET.
   A) CLOCK SHALL BE GENERAL ELECTRIC MODEL 2912 129V 60 CYCLE
   B) CLOCK OUTLET SHALL BE BRYANT #2828 OR EQUAL WITH SEPERABLE HANGING CLIP & APP'D RECEPT.

THE H.V.A.C. UNIT FEEDER CIRCUIT - PANEL CIRCUIT BREAKER, FEEDER WIRE, UNIT DISCONNECT AND FUSES (WHERE USED) - IS TO BE COORDINATED WITH THE NAME PLATE DATA AT THE TIME OF MANUFACTURE. H.V.A.C. UNITS HAVING KVA RATINGS LARGER THAN THAT INDICATED ON THIS PANEL SCHEDULE WILL NOT BE ALLOWED TO BE INSTALLED ON THIS BUILDING. IF 60 DEGREES C. WIRE IS TO BE USED IN THIS INSTALLATION, CALCULATIONS DEMONSTRATING AMPACITY BE PROVIDED ON THE DRAWING.

REVISIONS

NO	DATE	DESCRIPTION
1		
2		
3		
4		

DATE: 01/14/10
SCALE: NOTED
DRAWN BY: RS
SERIAL NO.:

CUSTOMER:
BAKERSFIELD SCHOOL DISTRICT
MUNSEY ELEMENTARY SCHOOL

12'X40' RELOCATABLE BUILDINGS
ELECTRICAL NOTES & DETAILS

American Modular Systems Inc.
787 Spreckels Ave. Manteca, CA 95336
(209)825-1921 Fax (209)825-7018
americanmodular.com

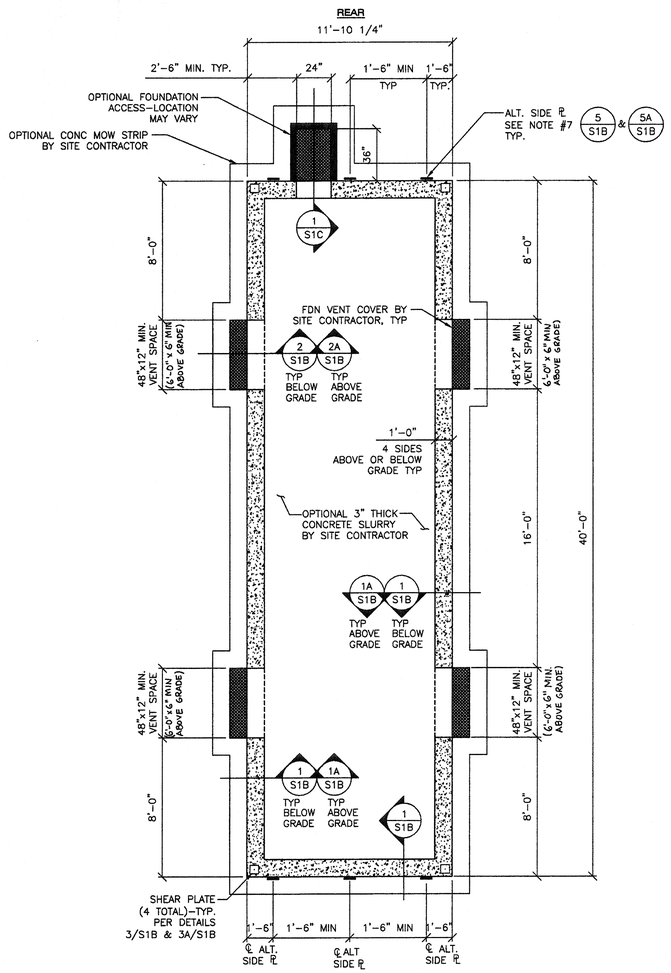
APPROVALS:

LICENSED ARCHITECT PATRICK O'BRANAGH No. C12631 Ren. 8-31-11 STATE OF CALIFORNIA

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
03-112485
AC. FLS. SS
DATE 12/10/10

PROJECT No.
PC

E2

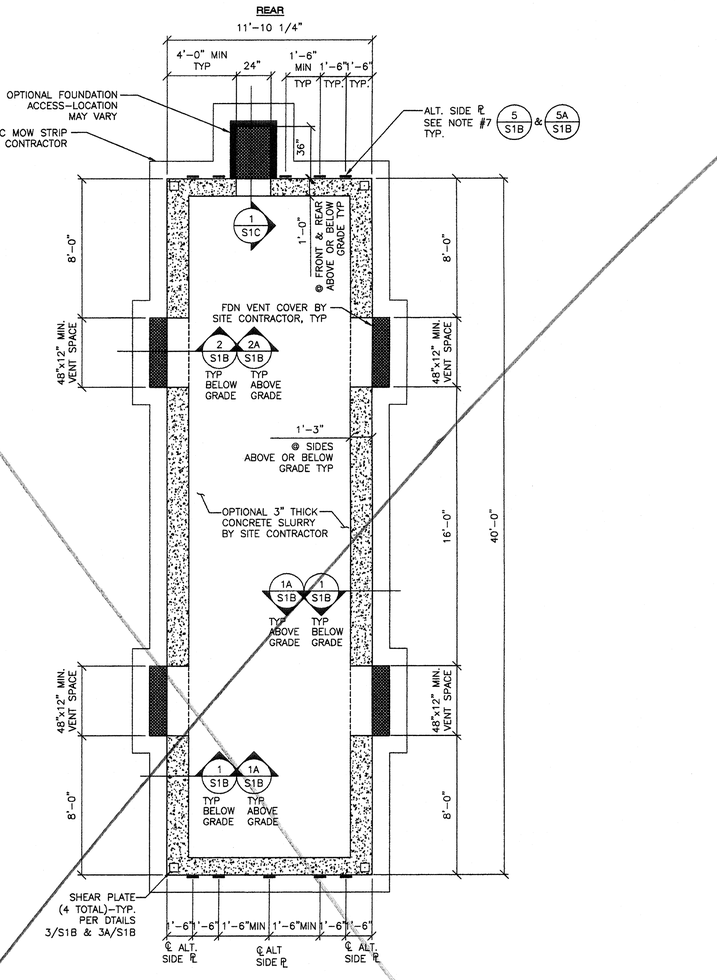


A FOUNDATION PLAN (ABOVE/BELOW GRADE)

S1A 1/4"=1'-0" (50 PSF FLOOR LIVE LOAD PLUS 15 PSF PARTITION LOAD)

NOTES:

1. DO NOT INSTALL BUILDING IN AREAS OF WATER FLOW LINES.
2. ULTIMATE 28-DAY CONCRETE COMPRESSIVE STRENGTH SHALL BE 2500 PSI MIN. PROPORTIONED PER TITLE 24, PART 2, SECTION 1905A.3 OR 1905A.4
3. THE REINFORCING BARS MUST BE TESTED PER TITLE 24, PART 2, SECTION 1916A.2 IF CONCRETE WITH A COMPRESSIVE STRENGTH OF 3500 PSI IS SPECIFIED THEN THE TESTING OF THE REINFORCING BARS MAY BE WAIVED PER SECTION 1916A.4. THE CEMENT SHALL BE CERTIFIED PER SECTION 1916A.1
4. REINFORCING STEEL 40,000 PSI MINIMUM, PER ASTM A615
5. MINIMUM SOIL BEARING CAPACITY 1500 PSF.
6. DESIGN SOIL BEARING CAPACITY 1500 PSF.
7. ALTERNATE SIDE PLATES MUST COMPLETELY REPLACE TYPICAL SHEAR PLATES ALONG ANY ONE 40'WALL. COMBINATION OF TYPICAL SHEAR PLATES AND SIDE PLATES ALONG ANY ONE 40' WALL LINE IS NOT PERMITTED.
8. MINIMUM BUILDING SEPARATION IS 6".



B FOUNDATION PLAN (ABOVE/BELOW GRADE)

S1A 1/4"=1'-0" (CONCRETE 125 PSF FLOOR LIVE LOAD)

NOTES:

1. DO NOT INSTALL BUILDING IN AREAS OF WATER FLOW LINES.
2. ULTIMATE 28-DAY CONCRETE COMPRESSIVE STRENGTH SHALL BE 2500 PSI MIN. PROPORTIONED PER TITLE 24, PART 2, SECTION 1905A.3 OR 1905A.4
3. THE REINFORCING BARS MUST BE TESTED PER TITLE 24, PART 2, SECTION 1916A.2 IF CONCRETE WITH A COMPRESSIVE STRENGTH OF 3500 PSI IS SPECIFIED THEN THE TESTING OF THE REINFORCING BARS MAY BE WAIVED PER SECTION 1916A.4. THE CEMENT SHALL BE CERTIFIED PER SECTION 1916A.1
4. REINFORCING STEEL 40,000 PSI MINIMUM, PER ASTM A615
5. MINIMUM SOIL BEARING CAPACITY 1500 PSF.
6. DESIGN SOIL BEARING CAPACITY 1500 PSF.
7. ALTERNATE SIDE PLATES MUST COMPLETELY REPLACE TYPICAL SHEAR PLATES ALONG ANY ONE 40'WALL. COMBINATION OF TYPICAL SHEAR PLATES AND SIDE PLATES ALONG ANY ONE 40' WALL LINE IS NOT PERMITTED.
8. MINIMUM BUILDING SEPARATION IS 6".

REVISIONS

NO	DATE	DESCRIPTION
1		
2		
3		
4		

DATE: 02/21/08

SCALE: NOTED

DRAWN BY: RL

SERIAL NO.:

CUSTOMER:

12' x 40' RELOCATABLE BUILDINGS
CONCRETE FOUNDATION PLAN
50 PSF LIVE LOAD+15 P.S.F & 125 PSF

American Modular Systems Inc.
787 Spreckels Ave. Manteca, CA 95336
(209)825-1921 Fax (209)825-7018
americanmodular.com

APPROVALS:

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

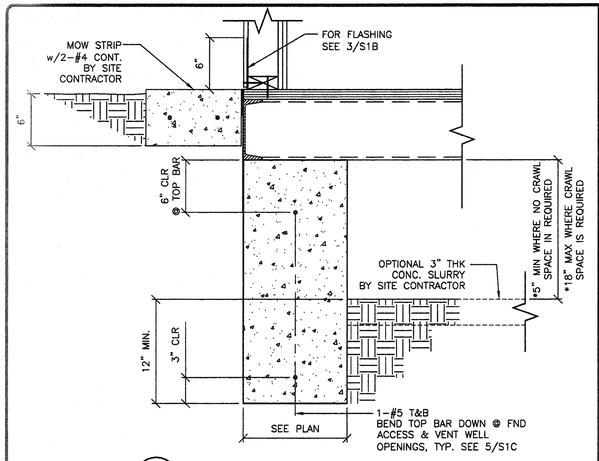
REGISTERED PROFESSIONAL ENGINEER — Kenneth A. Luttrell No. 1418 EXP. 3-31-11 Structural Engineer — STATE OF CALIFORNIA

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT
C8-112985
AC. FLS. SS
DATE 2/11/08

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES
PC 02-109808
AC. FLS. SS
DATE 4/1/09

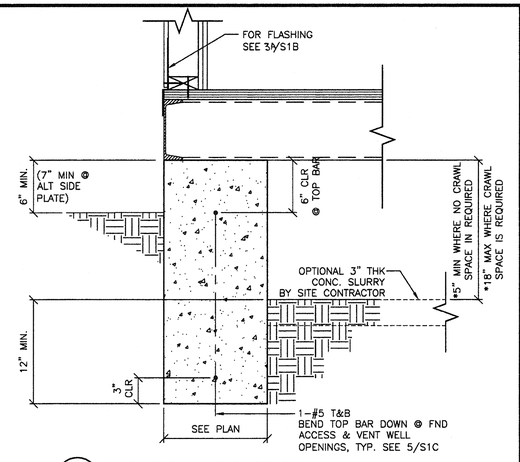
PROJECT No.

S1A



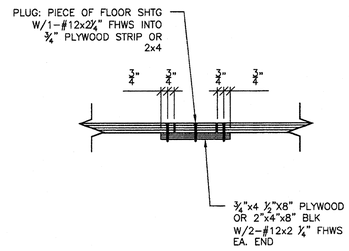
1 S1B **BELOW GRADE SECTION**
1 1/2"=1'-0"

* COORDINATE WITH AMS PRIOR TO EXCAVATE

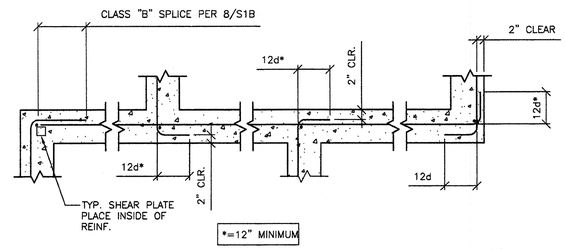


1A S1B **ABOVE GRADE SECTION**
1 1/2"=1'-0"

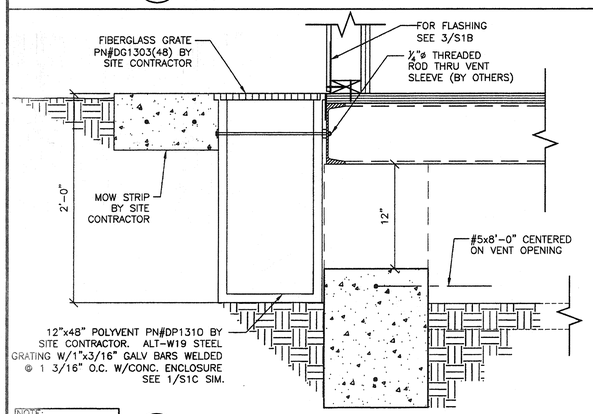
* COORDINATE WITH AMS PRIOR TO EXCAVATE



4 S1B **FILLER ACCESS HOLE DETAIL**
1 1/2"=1'-0"

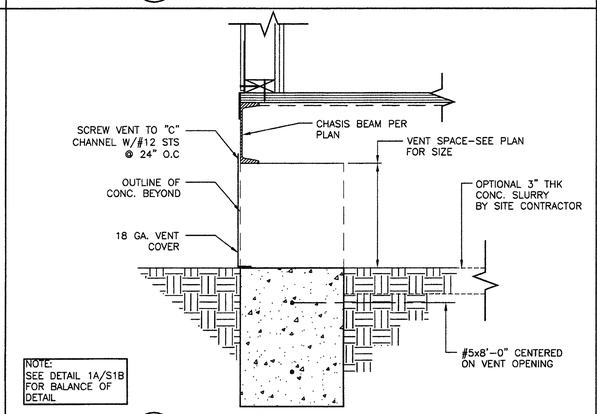


6 S1B **TYP. WALL & FTG. REINF. SPLICES**
NOT TO SCALE



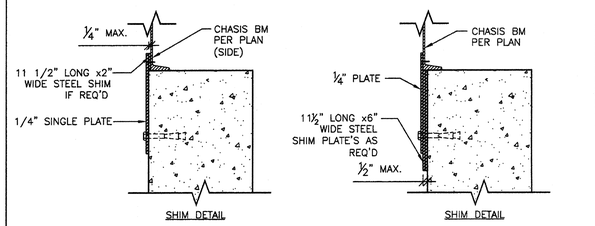
NOTE: SEE DETAIL 1/S1B FOR BALANCE OF DETAIL

2 S1B **BELOW GRADE SECTION/VENT DETAIL**
1 1/2"=1'-0"

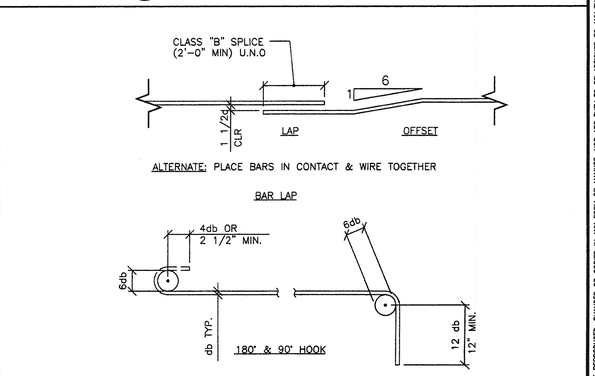


NOTE: SEE DETAIL 1A/S1B FOR BALANCE OF DETAIL

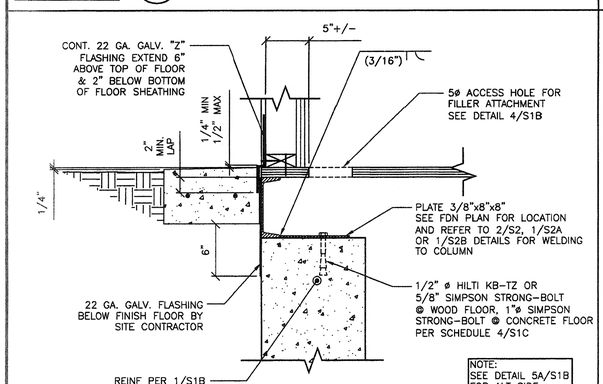
2A S1B **ABOVE GRADE SECTION/VENT DETAIL**
1 1/2"=1'-0"



5 S1B **ALTERNATE SIDE PLATE SHIM DETAIL**
1 1/2"=1'-0"



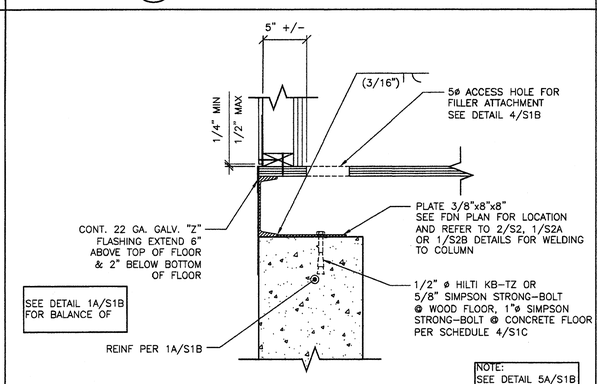
7 S1B **TYPICAL REINFORCING BENDS**
NOT TO SCALE



NOTE: SEE DETAIL 5A/S1B FOR ALT SIDE PLATE CONN.

NOTE: SEE DETAIL 1/S1B FOR BALANCE OF DETAIL

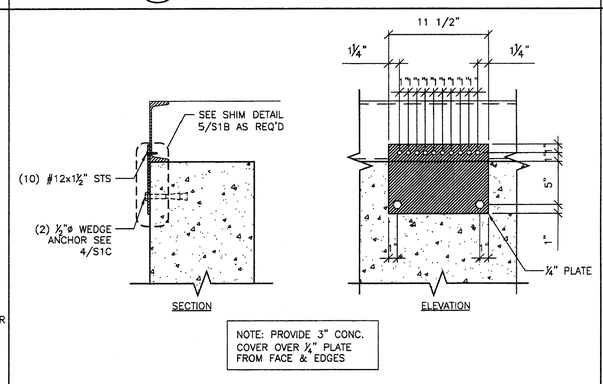
3 S1B **BELOW GRADE SECTION/PLATE ATTACHMENT**
1 1/2"=1'-0"



SEE DETAIL 1A/S1B FOR BALANCE OF

NOTE: SEE DETAIL 5A/S1B FOR ALT SIDE PLATE CONN.

3A S1B **ABOVE GRADE SECTION/PLATE ATTACHMENT**
1 1/2"=1'-0"



NOTE: PROVIDE 3" CONC. COVER OVER ¼" PLATE FROM FACE & EDGES

5A S1B **ALTERNATE SIDE PLATE DETAIL**
1 1/2"=1'-0"

REVISIONS

NO	DATE	DESCRIPTION
1		
2		
3		
4		

DATE: 02/21/08

SCALE: NOTED

DRAWN BY: DM

SERIAL NO.:

CUSTOMER:

12' x 40' RELOCATABLE BUILDINGS
CONCRETE FOUNDATION DETAILS

American Modular Systems Inc.
787 Sprockels Ave. Manteca, CA 95336
(209)825-1921 Fax (209)825-7018
americanmodular.com

APPROVALS:

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

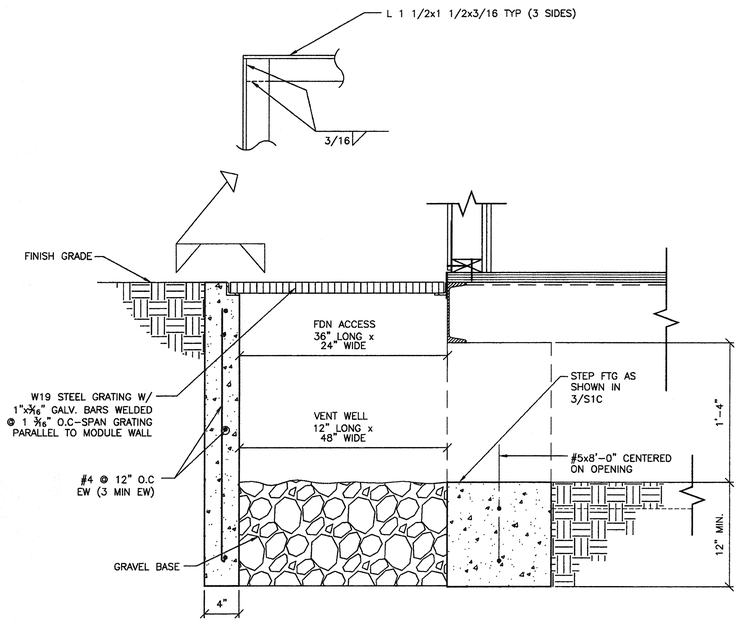
REGISTERED PROFESSIONAL ENGINEER — Kenneth A. Luttrell No. 1418 EXP. 3-31-11 Structural Engineer — STATE OF CALIFORNIA

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT
63-112985
AC. X FLS. SS. N/L
DATE 2/10/08

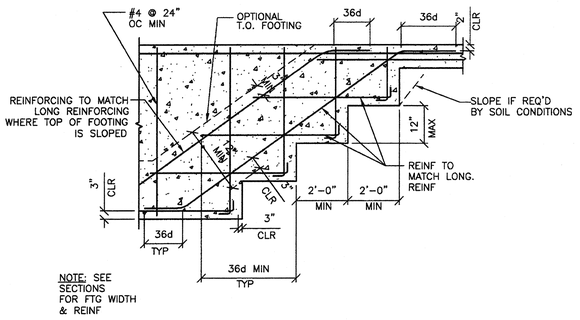
IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES
PC 02–109808
AC. FLS. SS. X
DATE 4/1/08

PROJECT No.

S1B



1 / S1C **OPTIONAL FOUNDATION ACCESS/VENT WELL**
1 1/2"=1'-0"



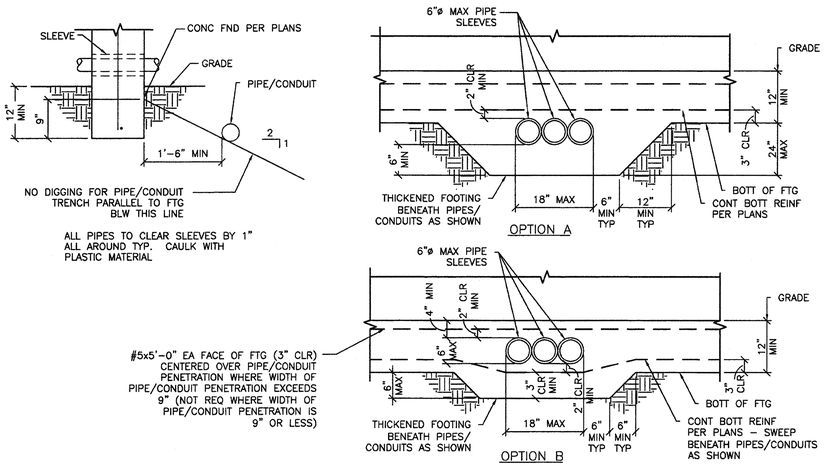
3 / S1C **TYPICAL STEPPED FOOTING**
N.T.S.

ANCHOR TYPE	HILTI KWIK KB-TZ ICC ESR-1917			SIMPSON STRONG-BOLT ICC ESR-1771			
ANCHOR SIZE (IN)	1/2"ø	5/8"ø	3/4"ø	1/2"ø	5/8"ø	3/4"ø	1"ø
MIN EMBED (IN)	4"	4 3/4"	5 3/4"	3 7/8"	5 1/8"	5 3/4"	5 1/4"
TENSION TEST LBS (SINGLE BOLT)	5121#	8040#	7917#	3826#	6732#	5454#	3550#
TENSION TEST LBS (DOUBLE BOLT)	5121#	6174#	5889#	3826#	5102#	4122#	N/A
INSTALLATION TORQUE (FT-LB)	40	60	110	50	85	180	230

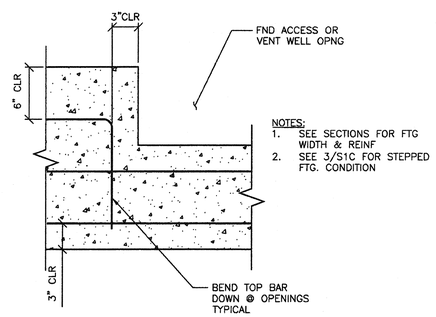
1. TENSION TEST- 2 x ALLOWABLE TENSION LOAD PER DSA IR 19-1.
2. NORMAL WEIGHT CONCRETE WITH f'c= 2500 PSI TO COMPLY WITH 1916A.4 FOR MATERIAL TEST WAIVER.
3. MINIMUM EDGE DISTANCE REQUIRED 6"

4 / S1C **ANCHOR BOLT SCHEDULE**
N.T.S.

NOTES:
1. AS AN OPTION TO INDIVIDUAL PIPE SLEEVES THE FOOTING MAY BE BLOCKED OUT FOR MULTIPLE PIPES (8" HIGH x 18" WIDE MAX @ OPTION "A", 6" HIGH x 18" WIDE MAX OPTION "B") PROVIDE 1" MIN CLEARANCE ALL AROUND BTWN PIPES/CONDUITS & BLOCKOUT/SLEEVES & FILL W/ CAULK.
2. CONCRETE SHALL BE WELL CONSOLIDATED AROUND & UNDER PIPES, CONDUITS, SLEEVES, BLOCKOUTS TO PREVENT CONCRETE VOIDS.
3. PROVIDE 2" CLEAR MIN BETWEEN BLOCKOUT/SLEEVES AND REINFORCEMENT.
4. WHERE TOP OF PIPES/CONDUITS ARE 12" OR MORE BELOW THE BOTTOM OF THE FOOTING, THICKENED FOOTING AROUND PIPES/CONDUITS IS NOT REQUIRED. BACKFILL & COMPACT TO 95% OVER PIPES/CONDUITS PRIOR TO PLACING FOOTING.



2 / S1C **PIPE SLEEVE DETAIL**
1 1/2"=1'-0"



5 / S1C **VENT/ACCESS VENT OPENING DETAIL**
1 1/2"=1'-0"

REVISIONS		
NO	DATE	DESCRIPTION
1		
2		
3		
4		

DATE: 02/21/08
SCALE: NOTED
DRAWN BY: DM
SERIAL NO.:

CUSTOMER:

12' x 40' RELOCATABLE BUILDINGS
CONCRETE FOUNDATION DETAILS

American Modular Systems Inc.
787 Spreckels Ave. Manteca, CA 95336
(209)825-1921 Fax (209)825-7018
americanmodular.com

APPROVALS:

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

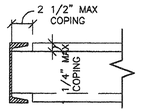
REGISTERED PROFESSIONAL ENGINEER
Kenneth A. Luttrell
No. 1418
EXP. 3-31-11
Structural Engineer
STATE OF CALIFORNIA

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
03-112985
AC. X FLS SS
DATE 2/10/09

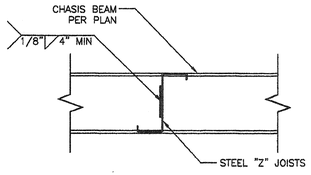
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT,
OFFICE OF REGULATION SERVICES
PC 02-109608
AC. FLS SS X
DATE 4/1/09

PROJECT No.

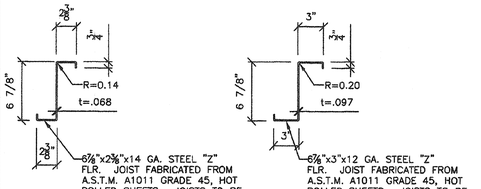
S1C



TYP FLOOR JOIST COPING



1 / S2 TYP. Z-JOIST ATTACHMENT TO BEAM
1 1/2"=1'-0"



14 GA. JOIST

Z SECTION PROPERTIES

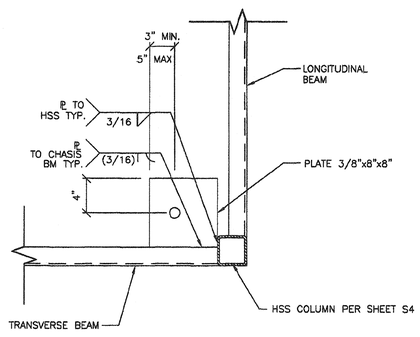
A=0.89 IN.^{2}
Sx=1.85 IN.^{3}
Ix=6.37 IN.^{4}

12 GA. JOIST

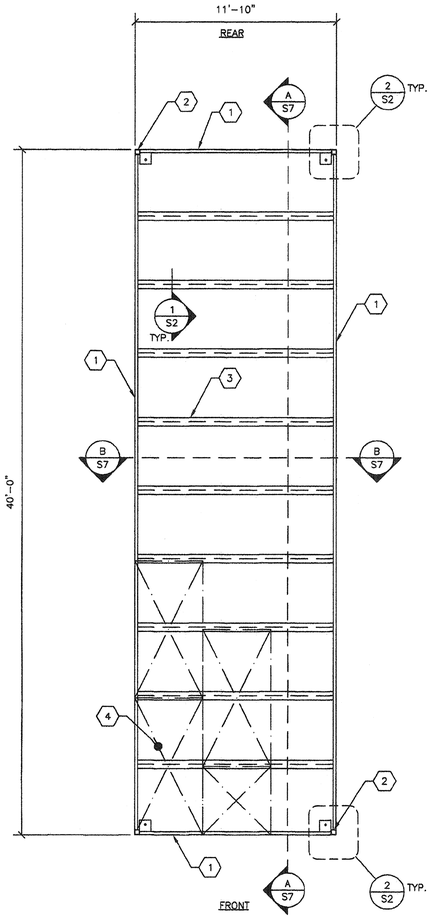
Z SECTION PROPERTIES

A=1.38 IN.^{2}
Sx=2.97 IN.^{3}
Ix=10.20 IN.^{4}

1A / S2 TYP. Z-JOISTS
1 1/2"=1'-0"



2 / S2 TYP. FL. BEAM CONNECTION
1 1/2"=1'-0"



A / S2 TYPICAL FLOOR FRAMING PLAN
1/4"=1'-0"
PLYWOOD FLOOR

- KEY NOTES -

1. C 7x9.8 FLOOR BEAM FOR 50 PSF+15 PSF
   ALTERNATE C10x15.3
   C 9x13.4 FOR 125 PSF
2. HSS COLUMN PER SHHET S4
3. FLOOR JOIST PER SCHEDULE (SEE 1A/S2)

FLOOR JOIST SCHEDULE		
LIVE LOAD PSF	SPACING	
	14 GA. JOIST	12 GA. JOIST
50 + 15	24" O.C.	48" O.C.
125	——	24" O.C.

4. 1 1/8" T&G PLYWOOD FLOOR SHT'G
   STURDI-I-FLOOR 48" O.C SPAN RATING EXP. 1
   COMFORMING TO PS 1-95
   OPTION: UNI-FLOOR BY PITTSBURGH
   TESTING LAB CONFORMING TO PS 1-95.
   STAGGER SHEETS 48" O.C AS SHOWN W/
   FACE GRAIN NORMAL TO FLOOR JOISTS.
   FASTENING: BOUNDARY OF EA. MODULE:
   #12x2 1/4" WOOD TEK @ CHANNEL @ 6" O.C
   PANEL EDGES: ET&F 0.144"6x2" MIN.
   POWER DRIVEN PINS @ 6"O.C
   FIELD: ET&F 0.144#x2" MIN. POWER
   DRIVEN PINS @ 10" O.C.

   NOTE: SEE ICC ER-4144 FOR ET&F
   BRAND PNEUMATIC PINS.

- GENERAL NOTES -

1. THE MATERIAL THICKNESS OF STRUCTURAL MEMBER, IN THEIR END-USE, SHALL MEET OR EXCEED THE MINIMUM BASE METAL THICKNESS SPECIFIED IN THE TABLE OR IN THE PLAN. THE MATERIAL GAGE DESIGNATION IN THE PLAN SHALL BE USED AS REFERENCE ONLY.

REVISIONS		
NO	DATE	DESCRIPTION
1		
2		
3		
4		

DATE: 02/21/08
SCALE: NOTED
DRAWN BY: DM
SERIAL NO.:

CUSTOMER:

12' x 40' RELOCATABLE BUILDINGS
FLOOR FRAMING PLAN & DETAILS (PLYWOOD OPTION)

American Modular Systems Inc.
787 Sprekels Ave. Manteca, CA 95336
(209)825-1921 Fax (209)825-7018
americanmodular.com

APPROVALS:

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

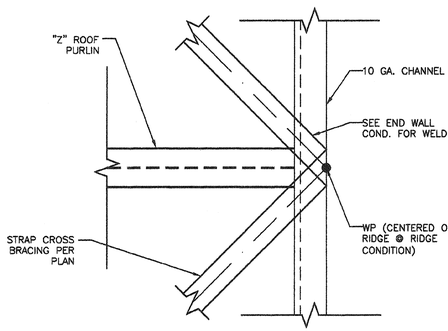
REGISTERED PROFESSIONAL ENGINEER
Kenneth A. Luttrell
No. 1418
EXP. 3-31-11
Structural Engineer
STATE OF CALIFORNIA

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
63-112985
AC. FLS SS
DATE 2/10/10

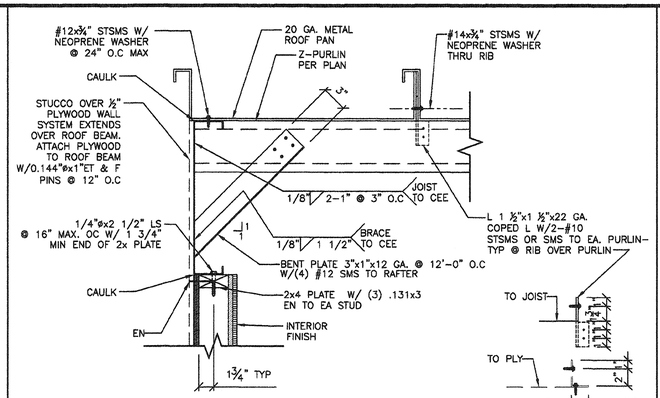
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
PC 02-109808
AC. FLS SS
DATE 5/1/09

PROJECT No.

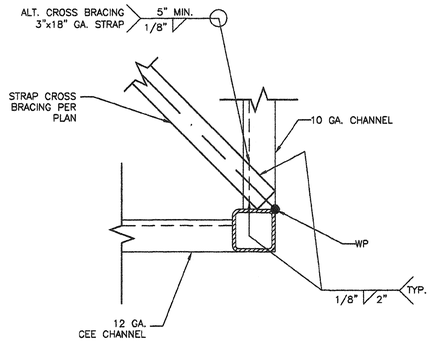
S2



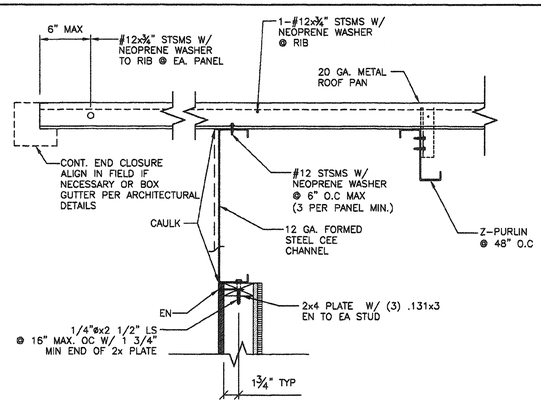
1 S3 TYP. CROSS BRACING DETAILS
1 1/2"=1'-0" @ ROOF CHANNEL



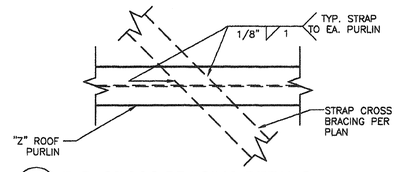
4 S3 SIDE WALL TO ROOF BEAM DETAIL
1 1/2"=1'-0"



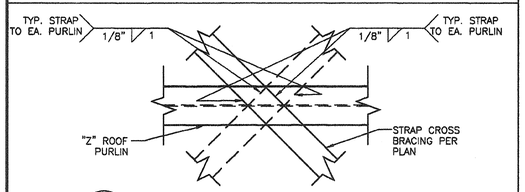
2 S3 TYP. CROSS BRACING DETAILS
1 1/2"=1'-0" @ END CHANNEL



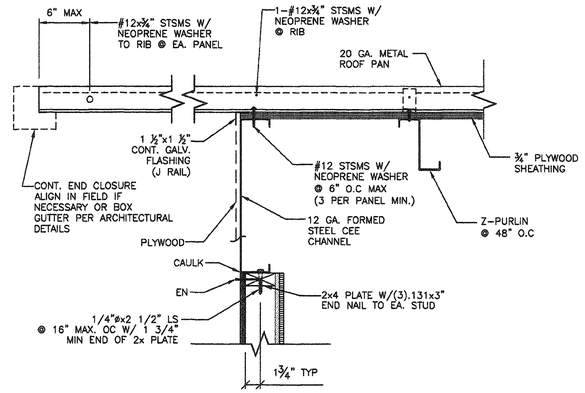
5 S3 5'-0" OVERHANG DETAIL
1 1/2"=1'-0"



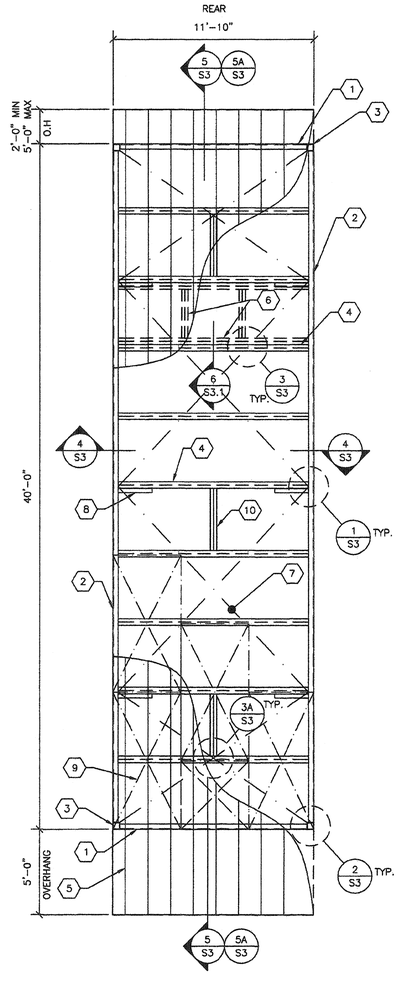
3 S3 TYP. CROSS BRACING DETAILS
1 1/2"=1'-0" @ ROOF PURLIN



3A S3 TYP. CROSS BRACING DETAILS
1 1/2"=1'-0" @ ROOF PURLIN



5A S3 OVERHANG DETAIL
1 1/2"=1'-0"



A S3 TYPICAL ROOF FRAMING LAYOUT
1/4"=1'-0" (MONO/DUAL PITCH-OPEN SOFFIT)

- KEY NOTES -

1. 12 GA. TRANSVERSE BEAM PER 10/S3.1
2. LONGITUDINAL ROOF CHANNEL TYP. PER 9/S3.1
3. HSS COLUMN PER SHEET S4
4. 'Z' FORMED ROOF PURLINS PER 8/S3.1 @ 48" O.C. MAX
5. 20 GA. ROOF PAN
   ALTERNATE 26 GA. ROOF PAN W/ROOF PLYWOOD & ENCLOSED SOFFIT OVERHANG OPTIONS ONLY. SEE SHEET S3A FOR DETAILS
6. PROVIDE DOUBLE 6" PURLINS W/6" PURLIN BLKG PER 6/S3.1 @ OPTIONAL 600# HVAC.
   (10'-0" MAX FROM END OF BLDG TO CENTER OF UNIT)
7. 2"x16 GA. STRAP CROSS BRACING GRADE 50
   ALT. CROSS BRACING 3"x18 GA. GRADE 50
8. 3x1x12 GA. BENT PLATE BRACE @ EA. STRAP TO BM CONN. & @ 12'-0" OC MAX
   SEE 4/S3 FOR DETAILS
   PROVIDE PURLIN BLKG @ EACH BRACE PER (10) BELOW
9. ALTERNATE TO CROSS BRACING:
   3/4" APA RATED L-P OSB SHEATHING OR 3/4" PLYWOOD (ALL SHEATHING SHALL BE EITHER T&G OR EDGE CLIP)
   COMPLY WITH DSA PA-062,
   CD EXPOSURE-1 48/24 SPAN INDEX,
   FACE GRAIN NORMAL TO ROOF PURLINS
   ALL BOUNDARY, EDGE & FIELD ATTACHMENTS SHALL BE 1" MIN. FROM EDGE OF PLYWOOD & EDGE OF STEEL SUPPORTING MEMBER.
   REFER TO SCHEDULE BELOW FOR FASTENING.
10. PURLIN BLOCKING WELD TO ROOF PURLINS PER DETAIL 6/S3.1
    BLOCKING IS ONLY REQUIRED AT PURLINS WITH DIAGONAL BRACING PER (8) ABOVE

FASTENING SCHEDULE				
NAILING	0.144 PINS SPACING		# 10 SMS SPACING	
	TYPICAL	WITHIN 3' OF BUILDING CORNERS	TYPICAL	WITHIN 3' OF BUILDING CORNERS
BOUNDARY	6" O.C.	6" O.C.	6" O.C.	6" O.C.
EDGE	6" O.C.	6" O.C.	6" O.C.	6" O.C.
FIELD	12" O.C	6" O.C	12" O.C	12" O.C

ET & F 0.144 PINS PER ICC ESR #4144

- GENERAL NOTES -

1. THE MATERIAL THICKNESS OF STRUCTURAL MEMBER, IN THEIR END-USE, SHALL MEET OR EXCEED THE MINIMUM BASE METAL THICKNESS SPECIFIED IN THE TABLE OR IN THE PLAN. THE MATERIAL GAGE DESIGNATION IN THE PLAN SHALL BE USED AS REFERENCE ONLY.
2. SEE SHEET S5 FOR TYP. SIDE WALL FRAMING.
3. SEE SHEET S5 FOR TYP. END WALL FRAMING.
4. ALL FASTENERS THRU METAL ROOF PANEL SHALL BE INSTALLED w/NEOPRENE WASHERS.

REVISIONS

NO	DATE	DESCRIPTION
1		
2		
3		
4		

DATE: 02/25/08
SCALE: NOTED
DRAWN BY: DM
SERIAL NO.:

CUSTOMER:

12' x 40' RELOCATABLE BUILDINGS
ROOF FRAMING PLAN & DETAILS (OPEN SOFFIT OPTION)

American Modular Systems Inc.
787 Sprockels Ave. Manteca, CA 95336
(209)825-1921 Fax (209)825-7018
americanmodular.com

APPROVALS:

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

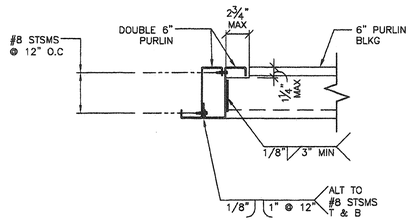
REGISTERED PROFESSIONAL ENGINEER — Kenneth A. Luttrell No. 1418 EXP. 3-31-11 Structural Engineer — STATE OF CALIFORNIA

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT
03-112985
AC. X FLS. SS
DATE 2/10/08

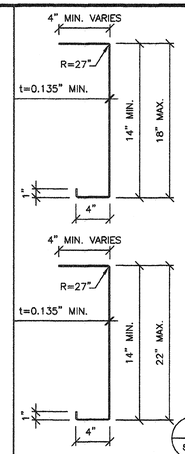
IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES
PC 02-109806
AC. FLS. SS
DATE 4/10/08

PROJECT No.

S3



6 S3.1 **BLOCKING DETAIL**
1 1/2"=1-0"



	14"	18"
A	3.14 IN^2	3.71 IN^2
Sx MIN.	12.07 IN^3	17.32 IN^3
Ix MIN.	86.94 IN^4	159.80 IN^4

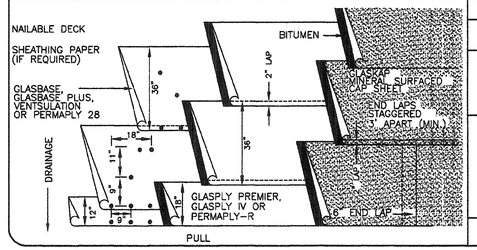
BEAM FABRICATED FROM ASTM A1011 GR50 W/RUST INHIBITIVE COATING.

	14"	22"
A	3.14 IN^2	4.28 IN^2
Sx MIN.	12.07 IN^3	23.33 IN^3
Ix MIN.	86.94 IN^4	262.35 IN^4

BEAM FABRICATED FROM ASTM A1011 GR50 W/RUST INHIBITIVE COATING.

9 S3.1 **LONGITUDINAL ROOF BEAM**
1 1/2"=1-0"

THREE PLY MINERAL SURFACED FIBER GLASS BUILT-UP ROOF



MATERIALS PER 100 SQ. FT. OF ROOF AREA

SHEATHING PAPER:
WOOD BOARD DECKS ONLY.....1 LAYER

FELTS:

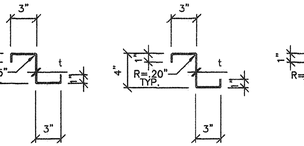
GLASBASE, GLASBASE PLUS, PERMAPLY 28 OR VENTSULATION FELT.....1 PLY
GLASPLY PREMIER, PERMAPLY-R OR GLASPLY IV.....1 PLY
GLASKAP, MINERAL SURFACED CAP SHEET.....1 PLY

BITUMEN (INTERPLY):

INCLINE PER FOOT	ASPHALT	NOMINAL WEIGHT
UP TO 1"	170°F, TYPE II, FLAT	46 LBS.
1" TO 3"	190°F, TYPE III, STEEP	46 LBS.
3" TO 6"	220°F, TYPE IV, SPECIAL STEEP	46 LBS.
0 TO 6"	PERMAMOP	46 LBS.

APPROXIMATE INSTALLED WEIGHT: 141-215 LBS.
ROOFING CLASS: A

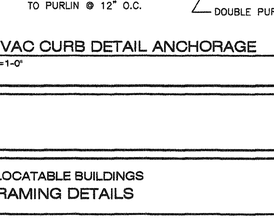
12 S3.1 **THREE PLY MINERAL BUILT-UP ROOF**
1 1/2"=1-0"



$S_x^+(t)$ = 0.418: IN^3
$S_x^+(b)$ = 1.412: IN^3
I_x^+ = 0.968 IN^4

PAN FABRICATED FROM ASTM A1011 GRADE 36, HOT ROLLED SHEETS. PAN TO BE GIVEN A RUST INHIBITIVE COATING.

7 S3.1 **20 GA. ROOF PAN**
1 1/2"=1-0"



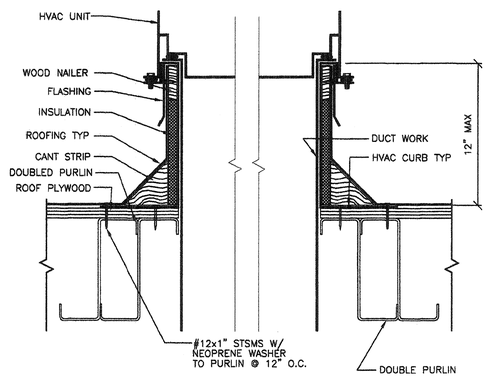
TYPICAL SECTION

C SECTION PROPERTIES
D=1'-2"
A=2.36 IN^2
Sx=9.57 IN^3
Ix=67.02 IN^4

10 S3.1 **12 GA. ROOF CHANNEL**
1 1/2"=1-0"

JOIST FABRICATED FROM ASTM A1011 GRADE 36. HOT ROLLED SHEETS. JOISTS TO BE GIVEN A RUST INHIBITIVE COATING.

8 S3.1 **Z PURLINS DETAILS AND PROPERTIES**
1 1/2"=1-0"



11 S3.1 **HVAC CURB DETAIL ANCHORAGE**
3"=1-0"

- GENERAL NOTES -

1. THE MATERIAL THICKNESS OF STRUCTURAL MEMBER, IN THEIR END-USE, SHALL MEET OR EXCEED THE MINIMUM BASE METAL THICKNESS SPECIFIED IN THE TABLE OR IN THE PLAN. THE MATERIAL GAGE DESIGNATION IN THE PLAN SHALL BE USED AS REFERENCE ONLY.

REVISIONS

NO	DATE	DESCRIPTION
1		
2		
3		
4		

DATE: 02/25/08
SCALE: NOTED
DRAWN BY: DM
SERIAL NO.:

CUSTOMER:

12' x 40' RELOCATABLE BUILDINGS
ROOF FRAMING DETAILS

American Modular Systems Inc.
787 Spreckels Ave. Manteca, CA 95336
(209)825-1921 Fax (209)825-7018
americanmodular.com

APPROVALS:

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

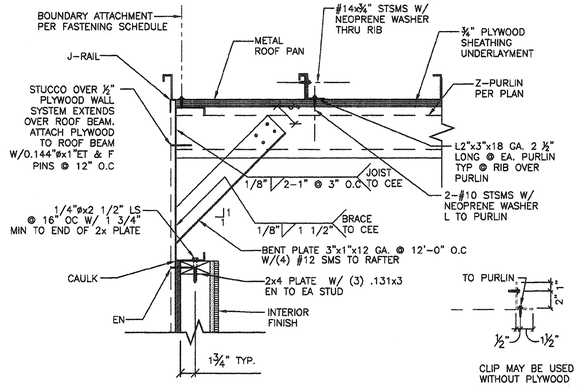
REGISTERED PROFESSIONAL ENGINEER
Kenneth A. Lutrell
No. 1418
EXP. 3-31-11
Structural Engineer
STATE OF CALIFORNIA

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

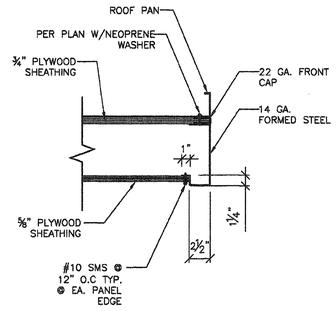
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
PC 02-109808
AC FLS SS
DATE 4/1/08

PROJECT No.

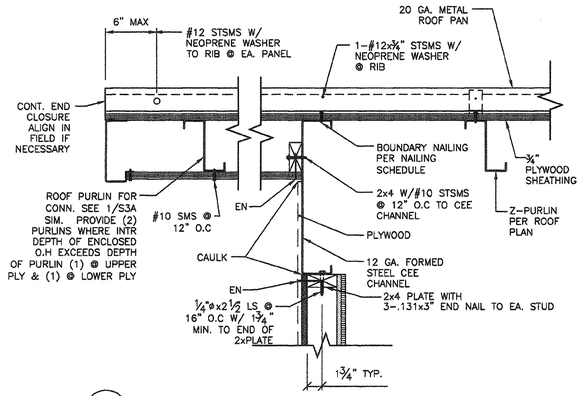
S3.1



1 S3A **DETAIL**
1 1/2"=1'-0"



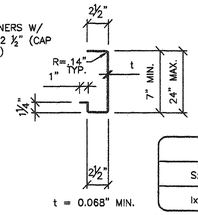
4 S3A **ENCLOSED SOFFIT DETAIL**
1 1/2"=1'-0"



2 S3A **OVERHANG DETAIL**
1 1/2"=1'-0"

NOTE:
14 GA. STL FABRICATED FROM ASTM A1011 GRADE 36 ROLLED SHEETS W/RUST INHIBITIVE PRIMER

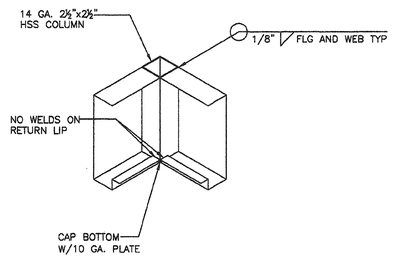
NOTE:
WELD CORNERS W/ HSS 2 ½"x2 ½" (CAP BOTT ONLY)



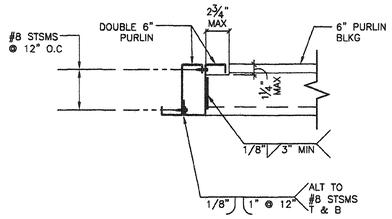
A	0.974 IN^2
Sx MIN.	1.776 IN^3
Ix MIN.	6.87 IN^4

BEAM FABRICATED FROM ASTM A1011 GR50 W/RUST INHIBITIVE COATING.

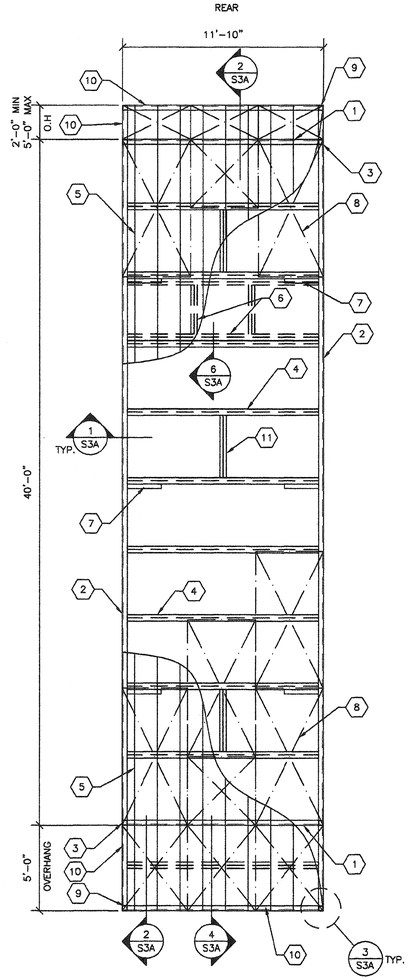
5 S3A **14 GA. FORMED STEEL CEE**
1 1/2"=1'-0"



3 S3A **OVERHANG CORNER DETAIL**
NOT TO SCALE



6 S3A **BLOCKING DETAIL**
1 1/2"=1'-0"



A S3A **TYPICAL ROOF FRAMING LAYOUT**
1/4"=1'-0"

- KEY NOTES -

1. 12 GA. TRANSVERSE BEAM PER 10/S3.1
2. LONGITUDINAL ROOF CHANNEL TYP. PER 9/S3.1
3. HSS PER SHEET S4
4. 'Z' FORMED ROOF PURLINS PER 8/S3.1 @ 48" O.C. MAX
5. 20 GA. ROOF PAN (ALT. 26 GA. ROOF PAN OVER PLYWOOD)
6. PROVIDE DOUBLE 6" PURLINS W/6" PURLIN BLKG PER 6/S3A @ OPTIONAL 600# HVAC. (10'-0" MAX FROM END OF BLDG TO CENTER OF UNIT)
7. 3"x1"x12 GA. BENT PLATE TO 10 GA. BEAM @ 12'-0" OC MAX PER 1/S3A PROVIDE PURLIN BLOCKING @ EACH BRACE PER (11) BELOW (IF CROSS BRACING IS USED THEN REFER TO PLAN 1/S3 FOR BENT PLATE LOCATIONS, AND PROVIDE CROSS BRACING AT OVERHANGS)
8. 3/4" APA RATED L-P OSB SHEATHING OR 3/4" PLYWOOD (ALL SHEATHING SHALL BE EITHER T&G OR EDGE CLIP) COMPLY WITH DSA PA-062. CD EXPOSURE-1 48/24 SPAN INDEX, FACE GRAIN NORMAL TO ROOF PURLINS ROOF SHTHG MAY BE REPLACED BY STRAP CROSS BRACING (REFER TO SHEET S3 FOR DETAILS, AND PROVIDE CROSS BRACING AT OVERHANGS) ALL BOUNDARY, EDGE & FIELD ATTACHMENTS SHALL BE 1" MIN. FROM EDGE OF PLYWOOD & EDGE OF STEEL SUPPORTING MEMBER. REFER TO SCHEDULE BELOW FOR FASTENING.
9. HSS COLUMN 14 GA. 2 ½"x2 ½" TYP. SEE 3/S3A
10. 14 GA. FORMED STEEL CEE SEE 5/S3A
11. PURLIN BLOCKING WELD TO ROOF PURLINS PER DETAIL 6/S3A BLOCKING IS ONLY REQUIRED AT PURLINS WITH DIAGONAL BRACING PER (7) ABOVE

FASTENING SCHEDULE				
NAILING	0.144 PINS SPACING		# 10 SMS SPACING	
	TYPICAL	WITHIN 3' OF BUILDING CORNERS	TYPICAL	WITHIN 3' OF BUILDING CORNERS
BOUNDARY	6" O.C.	6" O.C.	6" O.C.	6" O.C.
EDGE	6" O.C.	6" O.C.	6" O.C.	6" O.C.
FIELD	12" O.C	6" O.C	12" O.C	12" O.C

ET & F 0.144 PINS PER ICC ESR #4144

- GENERAL NOTES -

1. THE MATERIAL THICKNESS OF STRUCTURAL MEMBER, IN THEIR END-USE, SHALL MEET OR EXCEED THE MINIMUM BASE METAL THICKNESS SPECIFIED IN THE TABLE OR IN THE PLAN. THE MATERIAL GAGE DESIGNATION IN THE PLAN SHALL BE USED AS REFERENCE ONLY.
2. SEE SHEET S5 FOR TYP. SIDE WALL FRAMING.
3. SEE SHEET S5 FOR TYP. END WALL FRAMING.
4. ALL FASTENERS THRU METAL ROOF PANEL SHALL BE INSTALLED w/NEOPRENE WASHERS.

REVISIONS

NO	DATE	DESCRIPTION
1		
2		
3		
4		

DATE: 02/25/06
SCALE: NOTED
DRAWN BY: DM
SERIAL NO.:

CUSTOMER:

12' x 40' RELOCATABLE BUILDINGS
ROOF FRAMING PLAN & DETAILS (ENCLOSED SOFFIT OPTION)

American Modular Systems Inc.
787 Spreckels Ave. Manteca, CA 95336
(209)825-1921 Fax (209)825-7016
americanmodular.com

APPROVALS:

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

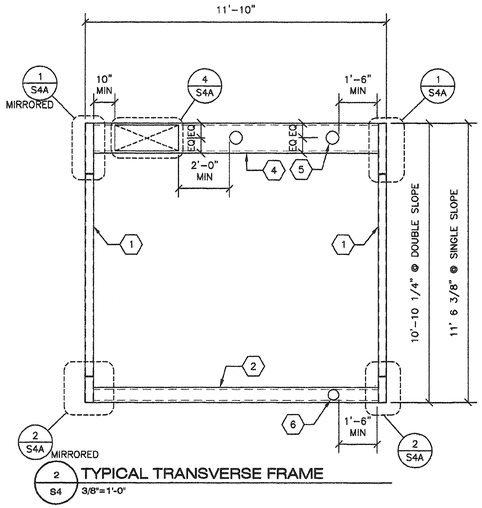
REGISTERED PROFESSIONAL ENGINEER Kenneth A. Luttrell No. 1418 EXP. 3-31-11 Structural Engineer STATE OF CALIFORNIA

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT 03-112985 AC X FLS SS/H DATE 7/10/10

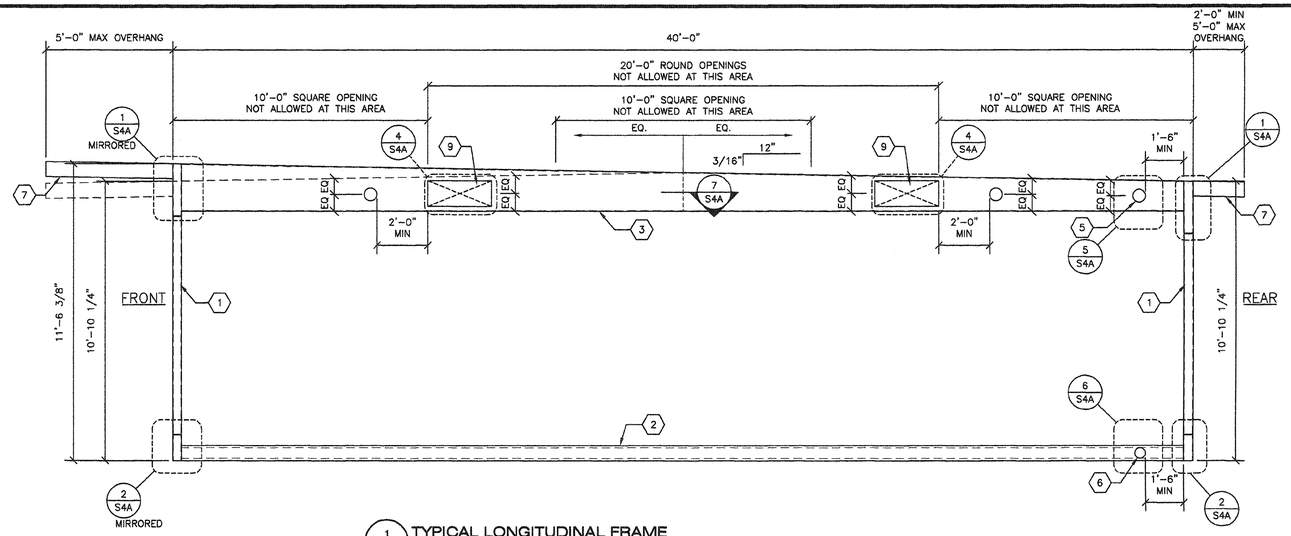
IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES PC 02-109808 AC FLS SS/H DATE 4/1/08

PROJECT No.

S3A



2 / S4 TYPICAL TRANSVERSE FRAME
3/8"=1'-0"



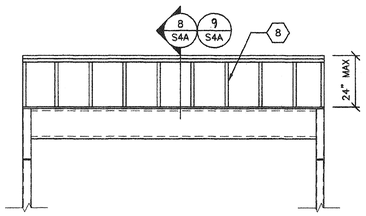
1 / S4 TYPICAL LONGITUDINAL FRAME
3/8"=1'-0"

- KEY NOTES -

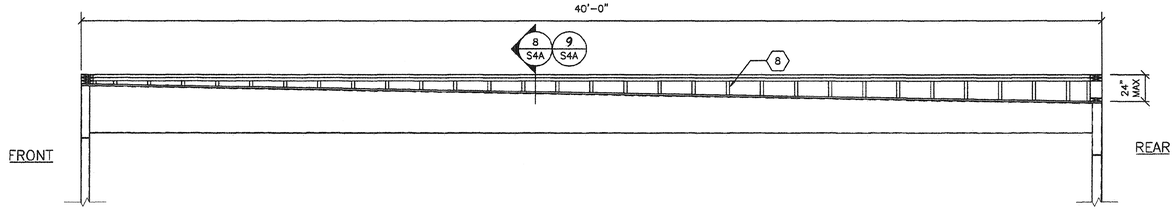
1. 4x4x5/16 HSS COLUMN
2. FLOOR BEAM PER SCHEDULE
3. 10 GA. LONGITUDINAL ROOF CHANNEL
   14"-18"-14" @ DOUBLE SLOPE
   14"-22" @ SINGLE SLOPE
4. 12 GA. TRANSVERSE ROOF CHANNEL
   14" MIN 22" MAX
5. 6" ø MAX OPENING IN WEB OF ROOF BEAM WITHOUT WEB REINFORCEMENT
   MINIMUM SPACING OF HOLES @ 48" O.C.
   HOLES MAY OCCUR @ ANY LOCATION ALONG LENGTH OF ROOF BEAM EXCEPT AS NOTED OTHERWISE ON FRAMING ELEVATION
   NOTE: IF HOLE IS 3" OR LESS THEY MAY BE SPACED AT 24"O.C. MINIMUM
6. 4" ø MAX OPENING IN WEB OF FLOOR BEAM WITHOUT WEB REINFORCEMENT
   MINIMUM SPACING OF HOLES @ 48" O.C.
   HOLES MAY OCCUR @ ANY LOCATION ALONG LENGTH OF FLOOR BEAM WITH DIRECT FOUNDATION SUPPORT BELLOW. OPENINGS ARE NOT ALLOWED WHERE BEAMS ARE SPANNING BETWEEN FOUNDATIONS OR ACROSS VENT OPENINGS.
   NOTE: IF HOLE IS 2" OR LESS THEY MAY BE SPACED AT 24" MINIMUM
7. 14 GA OUTRIGGER CHANNEL AT OPTIONAL ENCLOSED OVERHANG
   REFER TO DETAIL 1/S4A
8. 2x6 H.F. #2 OR BETTER STUDS @ 16" O.C.
9. 12"x 30" MAX OPENING ALLOWED ONLY AT EXTERIOR BEAMS WITH A WALL DIRECTLY BELOW. IF WALL BELOW IT IS REMOVED THEN A COLUMN MUST BE ADDED AT MID SPAN. REFER TO DETAIL 4/S4A FOR OPENING REINFORCEMENT

- FLOOR BEAM SCHEDULE -

SUBFLOOR TYPE	FLOOR BEAM SIZE	ALTERNATES
VIROC OR PLYWOOD	C7x9.8	C9x13.4, C10x15.3
CONCRETE	C9x13.4	C10x15.3



4 / S4 PARAPET WALL OPTION @ TRANSVERSE FRAME
3/8"=1'-0"



3 / S4 PARAPET WALL OPTION @ LONGITUDINAL FRAME
3/8"=1'-0"

REVISIONS

NO	DATE	DESCRIPTION
1		
2		
3		
4		

DATE: 02/25/08
SCALE: NOTED
DRAWN BY: DM
SERIAL NO.:

CUSTOMER:

12' x 40' RELOCATABLE BUILDINGS
TYPICAL FRAME ELEVATIONS

American Modular Systems Inc.
787 Sprockels Ave. Manteca, CA 95336
(209)825-1921 Fax (209)825-7018
americanmodular.com

APPROVALS:

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

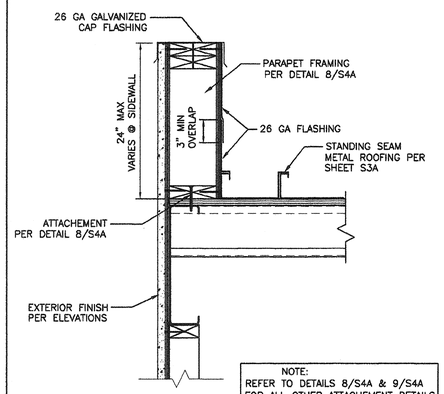
REGISTERED PROFESSIONAL ENGINEER
Kenneth A. Luttrell
No. 1418
EXP. 3-31-11
Structural Engineer
STATE OF CALIFORNIA

EXEMPTION STAMP
DIV. OF THE STATE ARCHITECT
03-112985
AC. FLS. SS
DATE 2/16/12

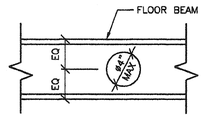
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
PC 02-109808
AC. FLS. SS 308
DATE 4/1/09

PROJECT No.

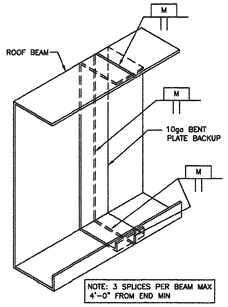
S4



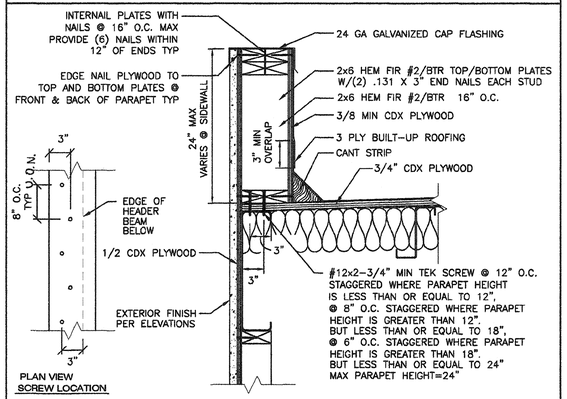
10 / S4A — PARAPET DETAIL @ REAR/SIDES
1 1/2"=1'-0" (WITH METAL ROOFING OPTION)



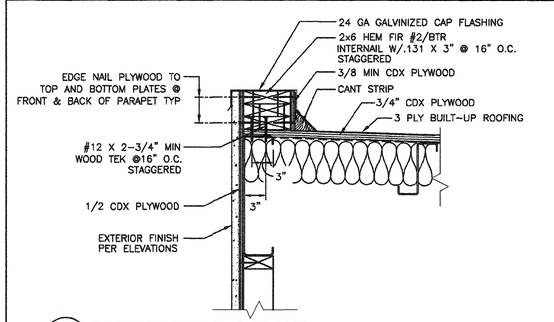
6 / S4A — OPENING @ FLOOR BEAM
1 1/2"=1'-0"



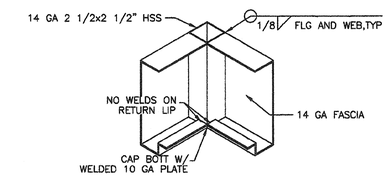
7 / S4A — TYPICAL BEAM SPLICE
N.T.S.



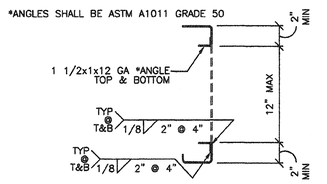
8 / S4A — PARAPET DETAIL @ REAR/SIDES
1 1/2"=1'-0"



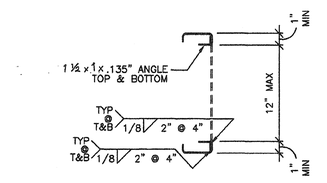
9 / S4A — PARAPET DETAIL @ FRONT
1 1/2"=1'-0"



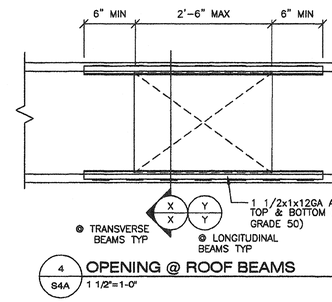
3 / S4A — OVERHANG CORNER DETAIL
NTS



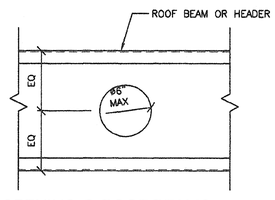
Y / Y — DETAIL @ LONGITUDINAL BEAMS



X / X — DETAIL @ TRANSVERSE BEAMS

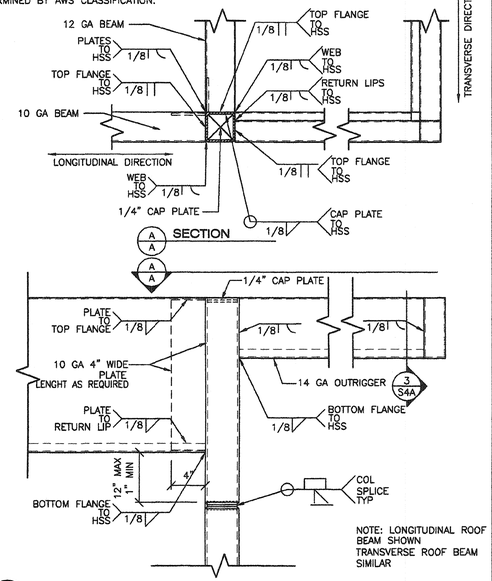


4 / S4A — OPENING @ ROOF BEAMS
1 1/2"=1'-0"

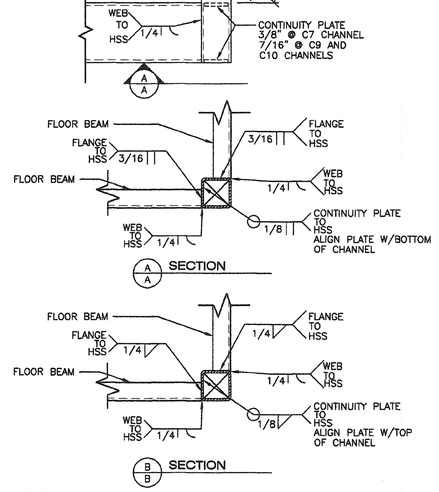


5 / S4A — OPENING @ ROOF BEAMS
1 1/2"=1'-0"

THE WELDING PROCEDURE QUALIFICATION TEST RECORD AND WELDING PRODECURE SPECIFICATION FOR THIS WELD SHALL BE PREPARED IN ACCORDANCE WITH AWS D.1-06 AND SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW AND SUBMITTAL TO THE D.S.A. TYPICAL DETAILS 1/S4A, 2/S4A AND 7/S4A.
ALL WELDS USED IN PRIMARY MEMBERS AND CONNECTIONS IN THE LATERAL FORCE-RESISTING SYSTEMS SHALL BE MADE WITH A FILLER METAL THAT HAS A MINIMUM CHARPY V-NOTCH TOUGHNESS OF 20 FT.-LBS AT ZERO DEGREES F, AS DETERMINED BY AWS CLASSIFICATION.



1 / S4A — TYPICAL ROOF CHANNEL TO HSS DETAIL
1 1/2"=1'-0"



2 / S4A — TYPICAL CORNER TO BEAM DETAIL
1 1/2"=1'-0"

REVISIONS

NO	DATE	DESCRIPTION
1		
2		
3		
4		

DATE: 02/25/08
SCALE: NOTED
DRAWN BY: DM
SERIAL NO.:

CUSTOMER:

12' x 40' RELOCATABLE BUILDINGS
FRAME CONNECTION DETAILS

American Modular Systems Inc.
787 Spreckels Ave. Manteca, CA 95336
(209)825-1921 Fax (209)825-7018
americanmodular.com

APPROVALS:

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

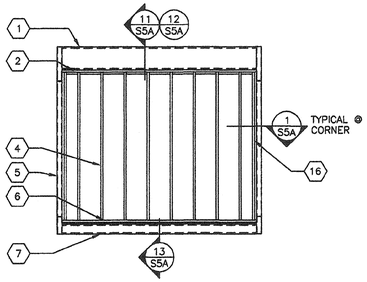
REGISTERED PROFESSIONAL ENGINEER — Kenneth A. Luttrell No. 1418 EXP. 3-31-11 Structural Engineer — STATE OF CALIFORNIA

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

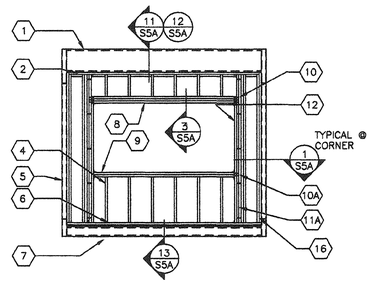
IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES
PC 02-109808
AC. FLS. SS X
DATE 4/1/07

PROJECT No.

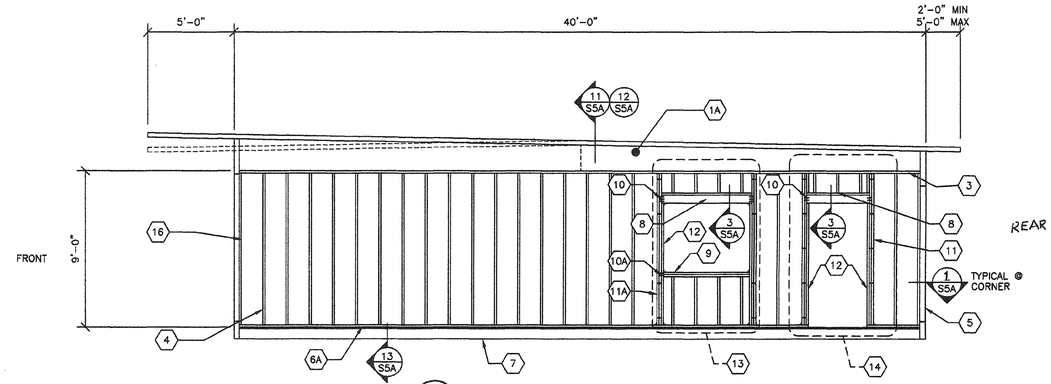
S4A



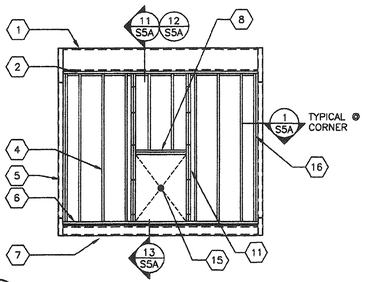
1 / S5 TYP END WALL FRAMING W/NO OPENINGS
1/4"=1-0"



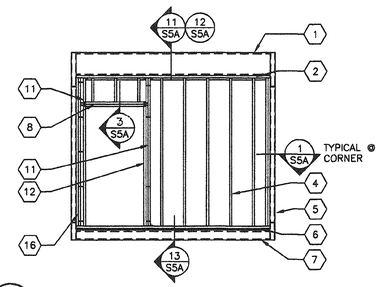
4 / S5 TYP END WALL FRAMING W/WINDOW
1/4"=1-0"



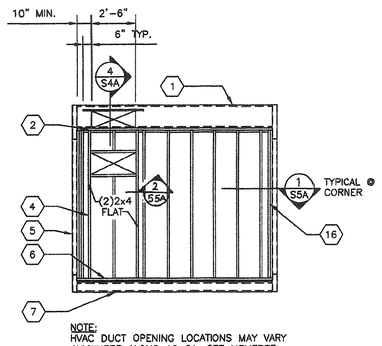
6 / S5 TYP SIDE WALL FRAMING
1/4"=1-0" (MONO/DUAL PITCH)



2 / S5 TYP END WALL FRAMING W/INDOOR HVAC UNIT
1/4"=1-0"
OPTIONAL



5 / S5 TYP END WALL FRAMING W/DOOR
1/4"=1-0"



NOTE:
HVAC DUCT OPENING LOCATIONS MAY VARY ANYWHERE ALONG 12 GA. CEE MEMEBER. (EXCEPT AS SHOWN ABOVE)
SEE SHEET 1 FOR OPENING LOCATION

3 / S5 TYP END WALL FRAMING W/WALL HUNG HVAC UNIT
1/4"=1-0"
OPTIONAL

EXTERIOR WALL FINISH/WALL STUD SCHEDULE

FINISH TYPE	FOUNDATION TYPE	WALL FINISH COMMENTS	STUD TYPE	STUD SPACING TYPICAL	STUD SPACING @ CORNERS
5/8" PLYWOOD SHEATHING 303 CONFORMING TO PS1-95. VERTICAL GROOVES @ 8" OC	WOOD OR CONCRETE	JOINT DETAIL SEE 9/S5A NAILING PER BLDG SECTIONS	HEM FIR #2	@ 16" OC	@ 16" OC
			DOUG FIR #2	@ 16" OC	@ 16" OC
3/8" HARDIBOARD WITH SYNTHETIC STUCCO 5/16" HARDI-LAP SIDING	WOOD OR CONCRETE	PER SHEETS A5, A5A, A6 & A6A	HEM FIR #2	@ 16" OC	@ 16" OC
			DOUG FIR #2	@ 16" OC	@ 16" OC
1/2" PLYWOOD SHEATHING CONFORMING TO PS1-95, APA RATED, 5 PLY 32/16, EXPOSURE 1 WITH 7/8" STUCCO	CONCRETE ONLY	NAILING PER BLDG SECTIONS	HEM FIR #2	@ 16" OC	@ 12" OC
			DOUG FIR #2	@ 16" OC	@ 16" OC

1. ALL NAILS IN EXTERIOR APPLICATIONS TO BE GALVANIZED.
2. WALL CORNERS ARE DEFINED AS A DISTANCE OF 8 FEET IN BOTH DIRECTIONS FROM EACH CORNER OF BUILDINGS WITH 2160 SQ. FT. OR GREATER AND A DISTANCE OF 3 FEET IN BOTH DIRECTIONS FROM EACH CORNER OF BUILDINGS WITH LESS THAN 2160 SQ. FT.
3. TYPICAL PLYWOOD NAILING WHERE OCCURS .131x2 1/4" GALV @ 6" O.C E.N. & 12" O.C. F.N.

- KEY NOTES -

1. ROOF HEADER
1A. ROOF BEAM
2. 2x4 PLATE NO SPLICE
3. 2x4 PLATE
4. 2x4 STUDS SPACED PER SCHEDULE TYP. W/ (3) .131x3" NAILS @ EA END
5. HSS COLUMN
6. 2x4 BOTTOM PLATE NO SPLICES
6A. 2x4 BOTTOM PLATE
7. PERIMETER FLOOR BEAM
8. (2) 2x6 W/ 2x4 FLAT HEADER ALT. (3) FLAT 2x4 HEM FIR. PER DETAIL 3/SSA
9. (2) 2x4 HEM FIR #2 WINDOW SILL PLATE (3) 2x4 HEM FIR #2 OR (2) 2x4 DOUG FIR #2 @ 8" WIDE WINDOW SILL PLATE WITH STUCCO FINISH ONLY
10. (5).131x3" END NAILS THROUGH KING STUD TYP
10A. (3) .131"X3" END NAILS THROUGH KING STUD, TYP.
11. (2) 2x4 KING STUDS W/ (2) A34 T&B TO PLATE (INTERNAL W/O.131 NAILS @ 14" OC TYP MAX.)
11A. (3) 2x4 KING STUDS W/ (2) A34 T&B TO PLATE (INTERNAL W/O.131 NAILS @ 14" OC TYP MAX.)
12. 2x4 TRIMMER
13. OPTIONAL WINDOW OPENING MAX 8'-0" WIDE (REFER TO 4/S5 FOR DETAILS AND FLOOR PLANS FOR LOCATIONS)
14. OPTIONAL DOOR OPENING (REFER TO 5/S5 FOR DETAILS AND FLOOR PLANS FOR LOCATIONS)
15. HVAC OPENINGS @ INDOOR UNIT
16. 2x NAILER

REVISIONS

NO	DATE	DESCRIPTION
1		
2		
3		
4		

DATE: 02/25/08
SCALE: NOTED
DRAWN BY: DM
SERIAL NO.:

CUSTOMER:

12' x 40' RELOCATABLE BUILDINGS
WALL FRAMING ELEVATIONS

American Modular Systems Inc.
787 Sprecklels Ave. Manteca, CA 95336
(209)825-1921 Fax (209)825-7018
americanmodular.com

APPROVALS:

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

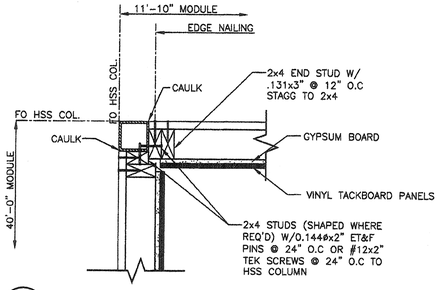
REGISTERED PROFESSIONAL ENGINEER
Kenneth A. Luttrell
No. 1418
EXP. 3-31-11
Structural Engineer
STATE OF CALIFORNIA

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
03-112985
AC. X FLS. SS
DATE 2/10/09

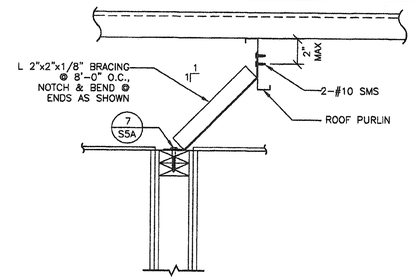
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
PC 02-109808
AC. FLS. SS
DATE 4/1/09

PROJECT No.

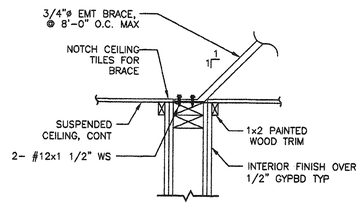
S5



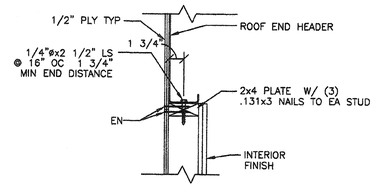
1 S5A — **WALL TO COLUMN TYP DETAIL @ CORNER**
1 1/2"=1-0"
FOR COLUMN LOCATION REFER TO ARCHITECTURAL DETAILS



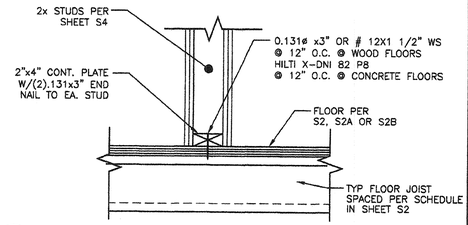
5 S5A — **TYP. INTERIOR WALL BRACING**
1 1/2"=1-0" (BRACE PERPENDICULAR TO PURLINS)



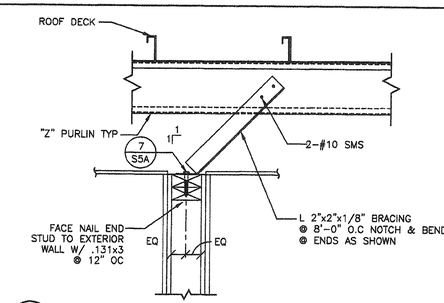
8 S5A — **ALT. INTERIOR WALL BRACING**
1 1/2"=1-0" (INTERIOR PARTITION BRACING w/EMT BRACING)



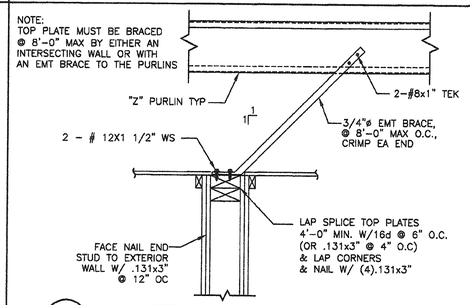
11 S5A — **END WALL TO ROOF BEAM DETAIL**
1 1/2"=1-0"



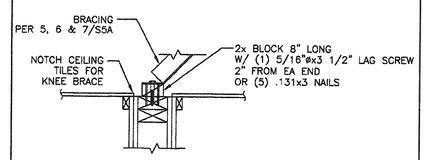
15 S5A — **TYP. INT. NON-BEARING WALL BASE ATTACHMENT**
1 1/2"=1'-0" (WALL PERPENDICULAR TO FLOOR JOISTS)



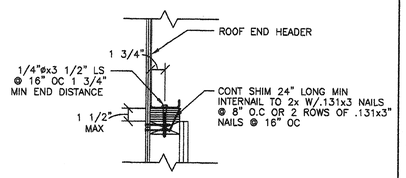
2 S5A — **WALL HUNG HVAC DETAIL ATTACHMENT**
1 1/2"=1-0"



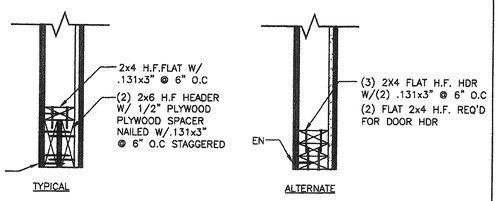
6 S5A — **ALT. INTERIOR WALL BRACING w/EMT BRACE**
1 1/2"=1-0" (BRACE PARALLEL TO PURLINS)



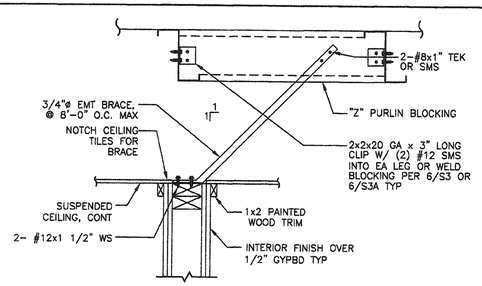
8A S5A — **ALT BLOCKING @ INT WALL BRACING**
1 1/2"=1-0"



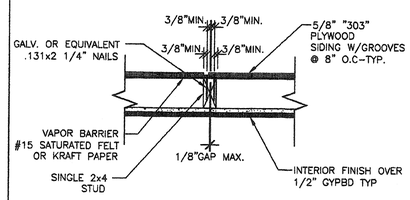
12 S5A — **END WALL TO ROOF BEAM DETAIL WITH SHIM CONDITION**
1 1/2"=1'-0"



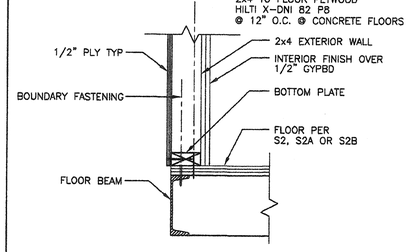
3 S5A — **WALL HEADER DETAILS AND ALTERNATE**
1 1/2"=1-0"



6A S5A — **ALT. INTERIOR WALL BRACING w/EMT BRACE**
1 1/2"=1-0" (BRACE PERPENDICULAR TO PURLINS)

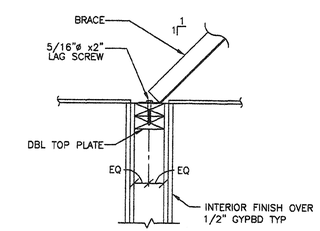


9 S5A — **TYPICAL SIDING JOINT**
1 1/2"=1-0"

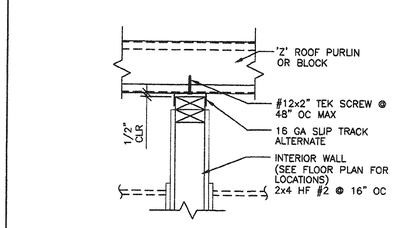


13 S5A — **EXTERIOR WALL TO FLOOR TYP DETAIL**
1 1/2"=1'-0"

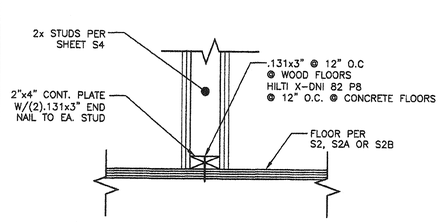
4 S5A — **TYP. INTERIOR WALL BRACING**
1 1/2"=1-0" (BRACE PARALLEL TO PURLINS)



7 S5A — **TYP. INTERIOR WALL BRACING**
1 1/2"=1-0" (INTERIOR PARTITION BRACING)



10 S5A — **ALT.INTERIOR WALL ATTACHMENT**
1 1/2"=1'-0"



14 S5A — **TYP. INT. NON-BEARING WALL BASE ATTACHMENT**
1 1/2"=1'-0" (WALL PARALLEL TO FLOOR JOISTS)

REVISIONS		
NO	DATE	DESCRIPTION
1		
2		
3		
4		

DATE: 02/25/08
SCALE: NOTED
DRAWN BY: DM
SERIAL NO.:

CUSTOMER:

12' x 40' RELOCATABLE BUILDINGS
WALL FRAMING DETAILS

American Modular Systems Inc.
787 Spreckels Ave. Manteca, CA 95336
(209)825-1921 Fax (209)825-7018
americanmodular.com

APPROVALS:

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

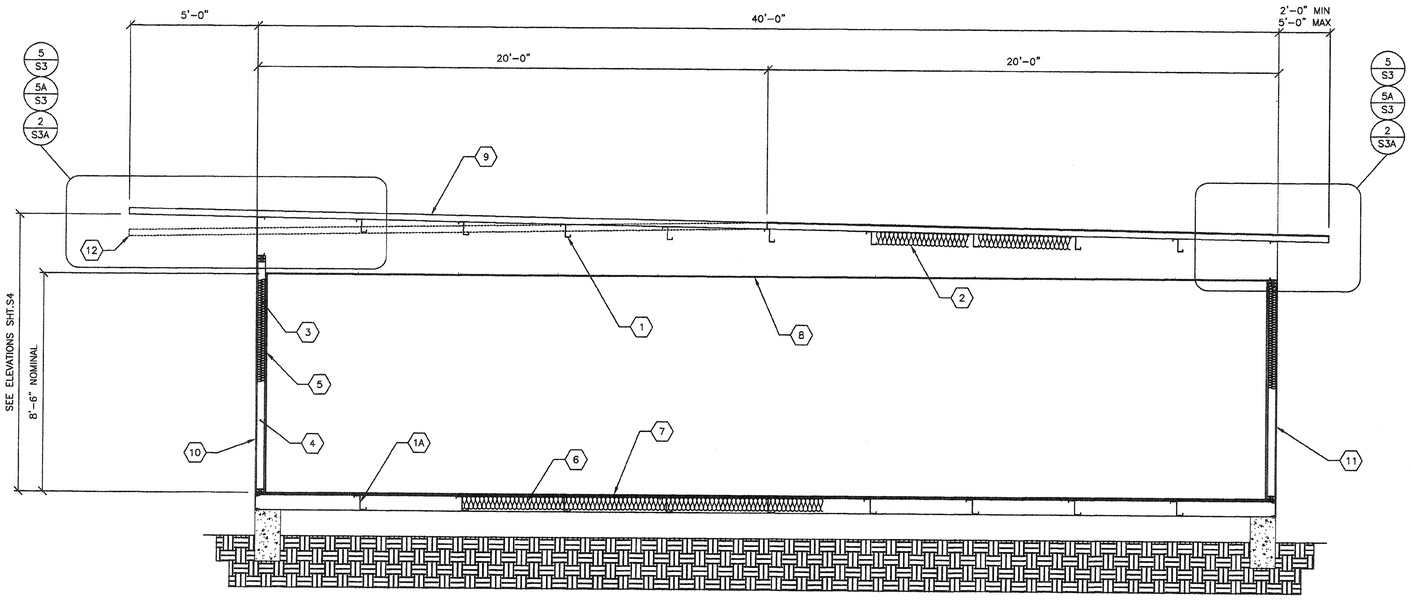
REGISTERED PROFESSIONAL ENGINEER — Kenneth A. Luttrell No. 1418 EXP. 3-31-11 Structural Engineer — STATE OF CALIFORNIA

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT
03-112985
AC. X FLS. SSML
DATE 2/10/10

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES
PC 02-109808
AC. FLS. SS
DATE 4/1/09

PROJECT No.

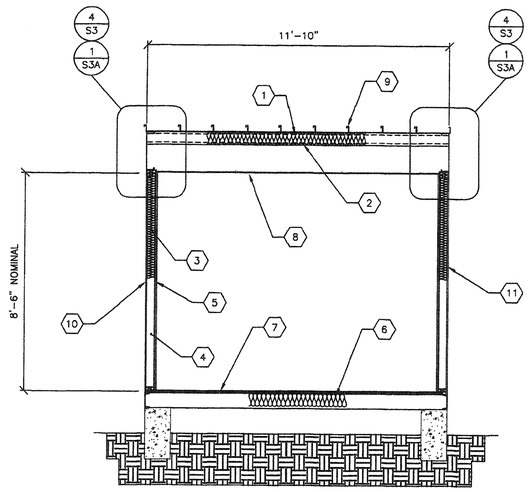
S5A



A S7 TYP. LONGITUDINAL SECTION
3/8"=1'-0" (MONO/DUAL PITCH)

- KEY NOTES -

1. "Z" PURLINS @ 48" O.C
1A. STEEL "Z" FLOOR JOISTS
2. INSULATION w/22 GA WIRE
3. INSULATION w/KRAFT PAPER
4. 2x STUDS PER ELEV, S5
5. VINYL FABRIC OVER TACKABLE BACKING PANELS
6. INSULATION w/KRAFT PAPER AND CHICKEN WIRE
7. 1 ⅛" PLYWOOD FLOOR SHEATHING FOR ALT SEE SHEET S2, S2A OR S2B
8. SUSPENDED T-BAR CEILING
9. METAL ROOF PANELS SEE ROOF FRAMING PLAN
10. TYPICAL PLYWOOD NAILING .131x2½" GALV @ 6" O.C PANEL EDGES (ALL EDGES BLOCKED).131x2¼" GALV @ 12" O.C FIELD
11. EXTERIOR WALL FINISH PER EXTERIOR ELEVATIONS
12. ALTERNATE DUAL PITCH



B S7 TYP. TRANSVERSE SECTION
3/8"=1'-0" (MONO/DUAL PITCH)

REVISIONS

NO	DATE	DESCRIPTION
1		
2		
3		
4		

DATE: 02/25/08
SCALE: NOTED
DRAWN BY: DM
SERIAL NO.:

CUSTOMER:

12' x 40' RELOCATABLE BUILDINGS
BUILDING SECTIONS

American Modular Systems Inc.
787 Spreckels Ave. Manteca, CA 95336
(209)825-1921 Fax (209)825-7018
americanmodular.com

APPROVALS:

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

REGISTERED PROFESSIONAL ENGINEER
Kenneth A. Lutrell
No. 1418
EXP. 3-31-11
Structural Engineer
STATE OF CALIFORNIA

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
13-112985
AC FLS SS
DATE 2/10/10

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
PC 02-109808
AC FLS SS
DATE 4/1/09

PROJECT No.

S7