ALL DRAWINGS AND WRITTEN MATERIAL APPEARING HEREIN CONSTITUTE THE ORIGINAL AND UNPUBLISHED WORK OF THE ARCHITECT AND THE SAME MAY NOT BE DUPLICATED, USED OR DISCLOSED WITHOUT THE WRITTEN CONSENT OF THE ARCHITECT.

RELOCATION OF
1-36' x 40', 1-24' x 40'
PORTABLE CLASSROOM BUILDING
(PC#04-104801)

TO

GROVECENTER ELEMENTARY SCHOOL
775 N. LARK ELLEN AVE., WEST COVINA, CA 91791

FOR

COVINA-VALLEY UNIFIED SCHOOL DISTRICT
COVINA, CALIFORNIA

PROJECT TRACKING No. 64436-177

OWNER: COVINA-VALLEY UNIFIED SCHOOL DISTRICT
519 E. BADILLO STREET
COVINA, CA 91723
CONTACT : JEFF BLOEDORN
CHIEF FACILITIES OFFICER
Tel. No. : 626.974.7000
Email: jbloedorn@c-vusd.org

ARCHITECT: P-LINE CONSULTING
20803 E. VALLEY BLVD., SUITE 206
WALNUT, CA 91789
CONTACT : PEDRO NEWBERN / LENY GALLEGO
Tel. No. : 909.839.0123
Tel. No. : 714.747.7263
Email: leny@plineconsulting.com

ELECTRICAL ENGINEER: WBM & ASSOCIATES
10550 SEPULVEDA BLVD., SUITE 204
MISSION HILLS, CA 91345
Contact : KENT WETHERWAX
Tel. No. : 818.408.2345
Email: kent_wax@verizon.net

THE FOLLOWING DOCUMENTS SHALL BE ON THE JOBSITE PRIOR TO INSTALLATION OF THE UNITS:
A. IN-PLANT VERIFIED REPORT
B. LABORATORY VERIFIED REPORT
C. WELDING VERIFIED REPORT
THE SITE INSPECTOR SHALL VERIFY THE ABOVE DOCUMENTS AND SERIAL NUMBERS ARE APPLICABLE TO EACH UNIT PRIOR TO INSTALLATION OF THE UNIT(S)

NOTIFY ARCHITECT AND THE DIVISION OF THE STATE ARCHITECT FIELD ENGINEER IF ANY DISCREPANCIES OCCUR.

IN-PLANT INSPECTOR AND MANUFACTURER SHALL FOLLOW THE REQUIREMENTS OF DSA IR16-1.13 AND INCLUDE THE FOLLOWING INFORMATION ON ID TAG SHOP FABRICATED RELOCATABLE STRUCTURES:
1. THE DSA APPLICATION NUMBR AND CBC EDITION UNDER WHICH THE BUILDING CONSTRUCTION WAS AUTHORIZED
2. THE MANUFACTURER OR BUILDING'S NAME
3. THE SERIAL NUMBER
4. THE DESIGN CLIMATE ZONE
5. THE DESIGN LIVE LOADS FOR THE ROOF AND FLOOR
6. THE DESIGN WIND SPEED AND EXPOSURE CATEGORY
7. THE SEISMIC DESIGN PARAMETERS Ss.

GENERAL NOTES

1. A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE SCHOOL BOARD SHALL CONDUCT ALL THE REQUIRED TEST AND INSPECTION FOR THE PROJECT.

2. A DSA CERTIFIED PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT SHALL PROVIDE CONTINUOUS INSPECTION FOR THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE (PART 1, TITLE 24, CCR.)

3. A DSA INSPECTOR WITH CLASS 3 CERTIFICATION IS REQUIRED FOR THIS PROJECT.

4. CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY ADDENDA OR CONSTRUCTION CHANGE DIRECTIVE (CCD) APPROVED BY THE DIVISION OF THE STATE ARCHITECT, AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, CCR

5. ALL TEST AND INSPECTIONS SHALL CONFORM TO THE LATEST EDITION OF CALIFORNIA CODE OF REGULATIONS, TITLE 24 AND C.B.C, 1705.

6. ALL WORK SHALL COMFORM TO TITLE 24, 2016 CALIFORNIA CODE OF REGULATIONS (CCR).

7. AN INSPECTOR WHO IS SPECIALLY QUALIFIED IN MECHANICAL AND ELECTRICAL WORK WILL BE REQUIRED FOR THIS PROJECT.

8. CONSTRUCTION DOCUMENTS ARE DIAGRAMATIC. DO NOT SCALE DIMENSIONS OFF THE DRAWINGS. FIELD VERIFY ALL DIMENSIONS.

9. ALL SALVAGEABLE MATERIALS AND EQUIPMENT TO BE REMOVED SHALL REMAIN THE SOLE PROPERTY OF THE OWNER. THE CONTRACTOR SHALL CONSULT WITH THE OWNER CONCERNING STORAGE DISPOSAL OF SUCH EQUIPMENT. OWNER HAS FULL SALVAGE RIGHTS. ALL REMOVED MATERIALS OTHER THAN THE ITEMS TO BE SALVAGED, OR REUSED SHALL BECOMES CONTRACTOR'S PROPERTY AND SHALL BE REMOVED FROM THE SITE.

10. THE CONTRACTOR SHALL THOROUGHLY CLEAN AND SECURE THE AREA OF CONSTRUCTION AFTER EACH DAY OF WORK.

11. SHUT DOWN OF EXISTING ELECTRICAL SYSTEMS OR PORTIONS THEREOF SHALL BE COORDINATED WITH THE OWNER.

12. IN THE EVENT OF A CONFLICT BETWEEN DRAWINGS AND SPECIFICATION SECTION IF ANY, OR BETWEEN THE SPECIFICATIONS AND THE DRAWINGS, BID THE NOR EXPENSIVE OR MORE ELABORATE METHOD DESCRIBED OR SHOWN. SHOULD THE APPROVAL, DISTRICT IN ITS SOLE DISCRETION AFTER BID APPROVAL, DESIRE TO UTILIZE THE SIMPLER OR LESS ELABORATE METHOD, AN APPROPRIATE CREDIT WILL BE NEGOTIATED BETWEEN THE DISTRICT AND THE CONTRACTOR.

EXISTING CONDITIONS

ALL INFORMATION SHOWN ON THE PLANS RELATIVE TO EXISTING CONDITIONS IS GIVEN AS THE BEST PRESENT KNOWLEDGE FROM PLANS SUPPLIED BY THE OWNER, BUT WITHOUT GUARANTEE OF ACCURACY.

WHERE ACTUAL CONDITIONS ARE NOT IN ACCORDANCE WITH THE INFORMATION PRESENTED, THE ARCHITECT SHALL BE NOTIFIED IMMEDIATELY. NO MODIFICATIONS OF THE PLANS FOR NEW CONSTRUCTION SHALL BE MADE WITHOUT THE WRITTEN APPROVAL OF THE ARCHITECT.

DEMOLITION

ALL DEMOLITION SHALL BE CARRIED ON IN SUCH A WAY AS NOT TO DAMAGE EXISTING ELEMENTS, WHICH ARE TO BE IN THE FINISHED STRUCTURE.

ALL ELEMENTS OF THE STRUCTURE, WHICH ARE TO REMAIN, AND WHICH ARE DAMAGED DURING DEMOLITION WORK SHALL BE REPLACED AT NO ADDITIONAL COST. EXISTING ELEMENTS SHALL BE PROTECTED TO THE FULLEST EXTENT POSSIBLE, IN ORDER TO MITIGATE DAMAGE.

ALTERATION, REHABILITATION OR RECONSTRUCTION PROJECT NOTES:
THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE ALTERATION, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CCR. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CCR, A CONSTRUCTION CHANGE DOCUMENT (CCD), OR A SEPARATE SET OF PLANS AND SPECIFICATIONS DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK. (SECTION 4-317(c), PART 1, TITLE 24, CCR)

APPLICABLE CODES

ALL WORK PERTAINING TO AND ALL MATERIALS SUPPLIED FOR EXECUTING AND COMPLETING THIS CONTRACT SHALL COMPLY WITH THE PROVISIONS SPECIFIED IN THE CONTRACT DOCUMENTS AND WITH ALL THE APPLICABLE LAWS, REGULATIONS AND ORDINANCES GOVERNING WORK INCLUDING, BUT NOT NECESSARILY LIMITED TO THOSE OF:

2016 BUILDING STANDARDS ADMINISTRATIVE CODE, PART 1, TITLE 24 C.C.R.
2016 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R.
(2015 INTERNATIONAL BUILDING CODE VOLUMES 1-2 AND 2016 CALIFORNIA AMENDMENTS)
2016 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R.
(2014 NATIONAL ELECTRICAL CODE AND 2016 CALIFORNIA AMENDMENTS)
2016 CALIFORNIA MECHANICAL CODE (CMC) PART 4, TITLE 24 C.C.R.
(2015 UNIFORM MECHANICAL CODE AND 2016 CALIFORNIA AMENDMENTS)
2016 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 C.C.R.
(2015 UNIFORM PLUMBING CODE AND 2016 CALIFORNIA AMENDMENTS)
2016 CALIFORNIA ENERGY CODE, PART 6, TITLE 24 C.C.R. CALIFORNIA ENERGY CODE, PART 6, TITLE 24 C.C.R. OR 2016 CALIFORNIA FIRE CODE, PART 9, TITLE 24 C.C.R.
(2015 INTERNATIONAL FIRE CODE AND 2016 CALIFORNIA AMENDMENTS)
2016 GREEN CALIFORNIA BUILDING STANDARDS, CALGREEN CODE, TITLE 24, PART 11 2016 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	2016 EDITION
NFPA 14	STANDPIPE SYSTEMS (CA AMENDED)	2013 EDITION
NFPA 17	DRY CHEMICAL EXTINGUISHING SYSTEMS	2013 EDITION
NFPA 17A	WET CHEMICAL SYSTEMS	2013 EDITION
NFPA 20	STATIONARY PUMPS	2016 EDITION
NFPA 22	WATER TANKS	2013 EDITION
NFPA 24	PRIVATE FIRE MAINS (CA AMENDED)	2016 EDITION
NFPA 72	NATIONAL FIRE ALARM CODE (CA AMENDED)	2016 EDITION
	(NOTE: SEE UL STANDARD 1971 FOR VISUAL DEVICES)	
NFPA 80	FIRE DOOR AND OTHER OPENING PROTECTIVES	2016 EDITION
NFPA 253	CRITICAL RADIANT FLUX OF FLOOR COVERING SYSTEMS	2015 EDITION
NFPA 2001	CLEAN AGENT FIRE EXTINGUISHING SYSTEMS	2015 EDITION

REFERENCE CODE SECTION FOR NFPA STANDARDS - 2016 CBC (SFM) CHAPTER 35

FIRE PROTECTION DURING CONSTRUCTION

FIRE SAFETY SHALL BE MAINTAINED OPERATIONAL AT ALL TIMES DURING CONSTRUCTION, ALTERATION OR DEMOLITION PER CFC 2016, CHAPTER 33

SYMBOLS

- 1 | 1 | D1 — REFERENCE KEY NOTES
- A / 1 — COLUMN LINE
- 3 — REVISION CLOUD AROUND REVISION OPTIONAL
- MATCH LINE, SHADED PORTION IS THE SIDE CONSIDERED
- WORK POINT, CONTROL POINT, OR DATUM POINT
- 450.00 — SPOT ELEVATION NEW
- (450.00) — SPOT ELEVATION EXISTING
- 5 / S1.5 — BUILDING ELEVATION, ELEVATION IDENTIFICATION, SHEET WHERE ELEVATION IS DRAWN
- 4 / S1.4 — BUILDING SECTION, SECTION IDENTIFICATION, SHEET WHERE SECTION IS DRAWN
- 3 / S1.3 — DETAIL SECTION REFERENCE, DETAIL IDENTIFICATION, SHEET WHERE DETAIL IS DRAWN
- D / A / S-1 — ELEVATION OF WALL OR FRAME, SHEET WHERE DETAIL IS DRAWN
- 1 / A1.1 — DETAIL REFERENCE, DETAIL IDENTIFICATION, SHEET WHERE DETAIL IS DRAWN
- SLOPE
- EARTH LAYER
- SURFACE - STEPPED

ABBREVIATIONS

&	AND	GALV.	GALVANIZED
@	AT	G.B.	GRAB BAR
℄	CENTERLINE		
⌀	DIAMETER OR ROUND	ACS	ACCESSIBLE
#	POUND OR NUMBER	HGT./HT.	HEIGHT
ABV.	ABOVE		
ACCES.	ACCESSIBLE	MFR.	MANUFACTURER
A.D.	AREA DRAIN	MH.	MANHOLE
ADJ.	ADJUSTIBLE	MIN.	MINIMUM
A.F.F.	ABOVE FINISH FLOOR	MISC.	MISCELLANEOUS
AGGR.	AGGREGATE		
ASPH.	ASPHALT	(N)	NEW
BD.	BOARD	N.I.C.	NOT IN CONTRACT
BLDG.	BUILDING	NO. or #	NUMBER
BOT.	BOTTOM	NOM.	NOMINAL
C.B.	CATCH BASIN	N.T.S.	NOT TO SCALE
CEM.	CEMENT	O.A.	OVERALLL
C.J.	CONTROL JOINT	O.C.	ON CENTER
CLKG.	CAULKING	O.D.	OUTSIDE DIAMETER
CLR.	CLEAR	O/C	OUTSIDE DIAMETER
C.L. FENCE	CHAIN LINK FENCE	PL.	PLATE
COL.	COLUMN	REF./RE. REFR.	REFERENCE / REFER TO
CONC.	CONCRETE	REIN./REINF.	REINFORCED (ING)
CONN.	CONNECTION	REQ.	REQUIRED
CONST.	CONSTRUCTION	R.O.	ROUGH OPENING
CONT.	CONTINUOUS	RWD.	REDWOOD
CTR.	CENTER	S.	SOUTH
DET.	DETAIL	SECT.	SECTION
D.F.	DRINKING FOUNTAIN	SHT.	SHEET
DIA.	DIAMETER	SIM.	SIMILAR
DIM.	DIMENSION	SPEC.	SPECIFICATION
DN.	DOWN	SQ.	SQUARE
DWG.	DRAWING	STD.	STANDARD
(E)	EXISTING	STR./STRUCTL.	STRUCTURAL
EA.	EACH	SYM.	SYMMETRICAL
E.J.	EXPANSION JOINT		
EL.	ELEVATION	T.C.	TOP OF CURB
E.P.	ELECTRICAL PANELBOARD	THK.	THICK
EQ.	EQUAL	T.O.S.	TOP OF STEEL
EQPT.	EQUIPMENT	T.P.	TOP OF PAVEMENT
EXIST.(E)	EXISTING	TYP.	TYPICAL
EXPAN.	EXPANSION	U.N.O./U.O.N.	UNLESS OTHERWISE NOTED
EXT.	EXTERIOR	VERT.	VERTICAL
F.D.	FLOOR DRAIN	W.	WEST
FDN.	FOUNDATION	WD.	WOOD
F.F.	FINISH FLR., FINISH FACE	W/O	WITHOUT
FIN.	FINISH (ED)	WP.	WATERPROOF
FLR.	FLOOR	W.R.	WATER RESISTANT
F.O.C.	FACE OF CONCRETE		
FT.	FOOT OR FEET		
FTG.	FOOTING		
FURR.	FURRING		

SHEET INDEX

DWG. NO.		ARCHITECTURAL
1	G1	COVER SHEET, BLDG. DATA, SHEET INDEX
2	A0	FIRE TRUCK LANE, TYPICAL NOTES
3	A1	SITE PLAN, PATH OF TRAVEL, TYPICAL NOTES
4	C1	ENLARGED SITE PLAN, TYPICAL NOTES
5	C1.1	TYPICAL DETAILS
6	C1.2	36'x40' ENLARGED PLAN, TYPICAL DETAILS
7	C2	FOUNDATION PLAN, TYPICAL DETAILS
8	C3	WASTE AND WATER LINES, TYPICAL DETAILS
9	C3.1	SEWAGE EJECTOR PUMP DETAILS AND SPECIFICATIONS
10	C3.2	SEWAGE EJECTOR PUMP DETAILS AND SPECIFICATIONS
DWG. NO.		ELECTRICAL
11	E1	ELECT. GEN. NOTES, CODES, SYMBOL LIST & MISC. SCHEDULES
12	E2	ELECTRICAL SITE PLAN
13	E3	POWER & SIGNAL PLAN, PANEL SCHEDULES & DETAILS
14	E4	SINGLE LINE DIAGRAM AND DETAILS
15	E5	FIRE ALARM PLAN, RISER, SCHEDULE AND DETAILS
16	E6	FIRE ALARM NOTES, SYMBOL LISTS AND CALCULATIONS

STATEMENT OF GENERAL CONFORMANCE

FOR ARCHITECTS/ENGINEERS WHO UTILIZE PLANS, INCLUDING BUT NOT LIMITED TO SHOP DRAWINGS, PREPARED BY OTHER LICENSED DESIGN PROFESSIONALS AND/OR CONSULTANTS

(APPLICATION NO. _____ FILE NO. 19-25)

THESE DRAWINGS LISTED BELOW HAS BEEN PREPARED BY OTHER PROFESSIONALS OR CONSULTANTS WHO ARE LICENSED AND/OR AUTHORIZED TO PREPARE SUCH DRAWINGS IN THIS STATE. IT HAS BEEN EXAMINED BY ME FOR:

1) DESIGN INTENT AND APPEARS TO MEET THE APPROPRIATE REQUIREMENTS OF TITLE 24, CALIFORNIA CODE OF REGULATIONS AND THE PROJECT SPECIFICATIONS PREPARED BY ME, AND,
2) COORDINATION WITH MY PLANS AND SPECIFICATIONS AND IS ACCEPTABLE FOR INCORPORATION INTO THE CONSTRUCTION OF THIS PROJECT.

THE STATEMENT OF GENERAL CONFORMANCE "SHALL NOT BE CONSTRUED AS RELIEVING ME OF MY RIGHTS, DUTIES, AND RESPONSIBILITIES, UNDER SECTIONS 17302 AND 81138 OF THE EDUCATIONAL CODE AND SECTION 4-336, 4-341 AND 4-344" OF TILE 24, PART 1, (TITLE 24, PART 1, SECTION 4-317(b))

SIGNATURE OF THE ARCHITECT/ENGINEER

W. PEDRO NEWBERN, AIA	C-22914	3/31/19
NAME, TITLE, AFFILIATION	LICENSE NUMBER	EXPIRATION DATE

SHEET INDEX. CONT.

24' x 40' PORTABLE BUILDING: PC A#04-104801

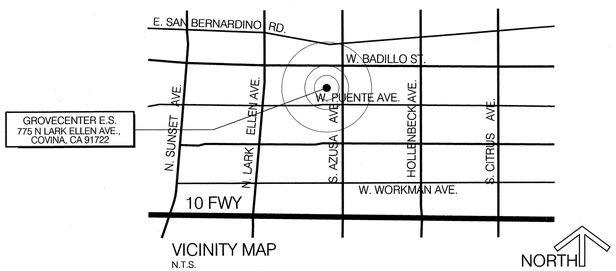
17	A0.01	COVER SHEET
18	A1.01	FLOOR PLAN
19	A2.03	REFLECTED CEILING PLAN
20	E1.03	ELECTRICAL PLAN
21	F1.01	FOUNDATION PLAN
		36' x 40' PORTABLE BUILDING: PC A#04-104801
22	A0.01	COVER SHEET
23	A1.02	FLOOR PLAN
24	A2.03	REFLECTED CEILING PLAN
25	A2.04	REFLECTED CEILING DETAILS
26	A3.02	ROOF PLAN: 26 MONO PITCH
27	A3.03	ROOF DETAILS: 26 GA
28	A4.02	EXTERIOR ELEVATIONS: 26 GA MONO PITCH
30	A6.01	SCHEDULES
31	F1.01	FOUNDATION PLAN: WOOD/50, 50+20, 100 PSF
32	F1.21	FOUNDATION PLAN: WOOD/50, 50+20, 100 PSF
33	S1.01	ROOF FRAMING PLAN: WOOD FLOOR

PROJECT SCOPE OF WORK

RELOCATION OF EXISTING (1)-24x40 CLASSROOM BUILDING AND (2)-36x40 CLASSROOM BUILDING WITH RESTROOM, INCLUDING RELOCATION OF EXISTING PLAYGROUND EQUIPMENT TO INCLUDE SITE WORK.

FIRE MARSHALL NOTE:
THE PROVISIONS OF THE CBC AND CFC CHAPTER 33 SHALL BE ENFORCED ON THIS PROJECT

SHEET INDEX CONT.
* 25 A5.01 INTERIOR ELEVATIONS
** 34 S2.02 ROOF FRAMING PLANS
35 S3.02 STRUCTURAL FRAMING
36 S4.01 WALL FRAMING
37 S4.02 WALL FRAMING DETAILS
38 P1.01 PLUMBING PLANS



VICINITY MAP
N.T.S.

DSA SUBMITTAL DATE: 9.26.2017

P-LINE CONSULTING
20803 e. valley blvd., ste. 206
walnut, ca 91789
c: 714.747.7263
f: 909.839.0123
e: leny@plineconsulting.com
Leny F. Gallego
Principal

LICENSED ARCHITECT W. PEDRO NEWBERN C-22914 EXP. 3/31/19 RENEWAL DATE STATE OF CALIFORNIA

CONSULTANT

D.S.A. STAMP
DSA FILE NO. 19-25
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APPL. 03- 118460
ACCESS FLS 60 GR TP
DATE SEP 27 2017

THE ILLUSTRATIONS INDICATED ON THIS SHEET ARE TO REPRESENT THE ARCHITECTURAL DESIGN CONCEPT OF THE PROJECT ONLY. THE DIMENSIONS OF THE BUILDING, THE ELECTRICAL ELEMENTS, AND THE TYPE OF STRUCTURAL, MECHANICAL, AND/OR ELECTRICAL SYSTEMS REPRESENTED DO NOT NECESSARILY PROVIDE THE FULL DESCRIPTION OF THE WORK REQUIRED FOR THE PERFORMANCE OF ALL ACTIVITIES TO COMPLETE THE INSTALLATION. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL MATERIALS AND LABOR REQUIRED FOR THE PROPER EXECUTION OF THE CONTRACT DOCUMENTS CONSISTENT WITH ALL APPLICABLE CODES AND ACCEPTABLE CONSTRUCTION PRACTICES.

Revision(s)	Date
No. Remarks	

Project Title:
RELOCATION OF
1-36' x 40', 1-24' x 40'
PORTABLE CLASSROOM BUILDING
(PC A#04-104801)

To:
GROVECENTER
ELEMENTARY SCHOOL

Owner:
COVINA-VALLEY
UNIFIED SCHOOL DISTRICT

Project Address:
775 N. LARK ELLEN AVE.
WEST COVINA, CA 91791
T.626.974.4400

Project Tracking No.
64436-177

Project No.
CVUSD_GES81517

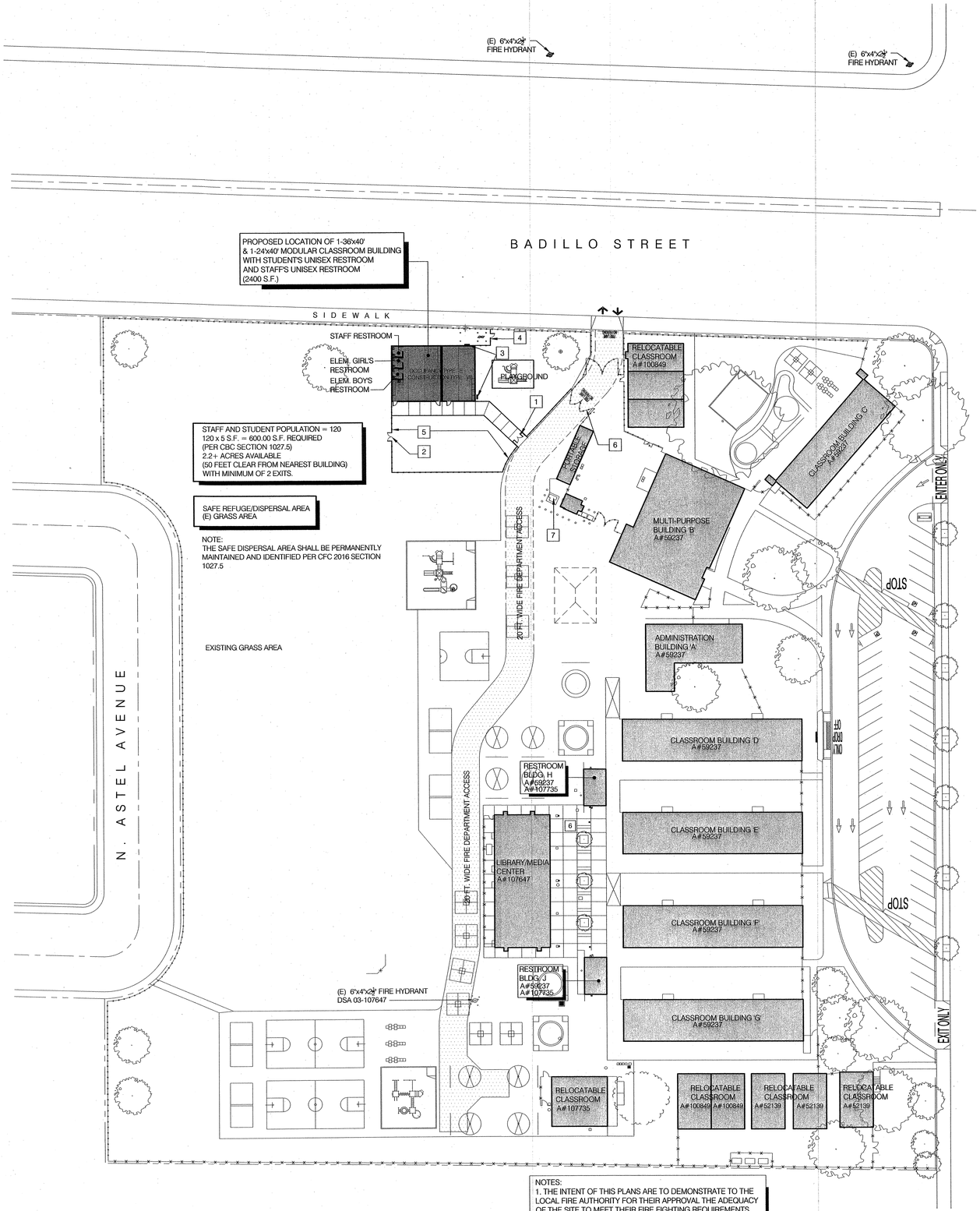
Sheet Title
COVER SHEET

Designed:
Drawn:
Checked:
Plot Date: 9.26.2017
Filename: covina

Drawing No.
G1
Sheet No. of

RELOCATION OF PORTABLE CLASSROOM BUILDING

ALL DRAWINGS AND WRITTEN MATERIAL APPEARING HEREIN CONSTITUTE THE ORIGINAL AND UNPUBLISHED WORK OF THE ARCHITECT AND THE SAME MAY NOT BE DUPLICATED, USED OR DISCLOSED WITHOUT THE WRITTEN CONSENT OF THE ARCHITECT.



NOTES:
1. THE INTENT OF THIS PLANS ARE TO DEMONSTRATE TO THE LOCAL FIRE AUTHORITY FOR THEIR APPROVAL THE ADEQUACY OF THE SITE TO MEET THEIR FIRE FIGHTING REQUIREMENTS.

2. THIS ENTIRE SHEET IS FOR FIRE DEPARTMENT TRUCK LANE LAYOUT. DO NOT REFERENCE FOR CONSTRUCTION.

8 SITE PLAN
SCALE: 1" = 40'

NORTH

DSA 810

LOCAL FIRE AUTHORITY REVIEW

To facilitate the Division of the State Architect's (DSA) approval of the Fire/Life Safety portion of a project, DSA requires Local Fire Authority (LFA) review of certain elements as identified in this form. Use of this form is mandatory for projects that add square footage to a campus or if any item on this form is relevant to the project. For additional information, see DSA 810 Instructions and DSA Policy 09-01.

PROJECT INFORMATION

School District/Owner: Covina-Valley Unified School District
Project Name/School: Relocation of Portable Classroom Building from Larkellen E.S. to Grovecenter E.S.
Project Address: 775 N. Lark Ellen Avenue, Covina, CA 91722

LOCAL FIRE AUTHORITY (LFA)

LFA Agency Name: West Covina Fire Dept
LFA Reviewer Name: Cindy Miller Title: Fire Marshal
Email: MILER@WCFD.HOSTMAN.US Telephone Number: 626.939.8400
I have reviewed and responded to the applicable items for this project as listed below.
Note: *Only sign this form when it is imaged onto the site plan. A loose form is not acceptable to DSA.*
LFA Reviewer's Signature: Date: 9/19/17

Review Key: **"Y"** = Complies with LFA requirements **"N"** = Not approved (complete Section 8)
"NA" = Not applicable to the project **"NR"** = LFA elects not to review

	Description	Y	N	NA	NR
1	Where an elevator does not meet medical emergency service cab size, per the California Building Code (CBC), use of stairways for emergency rescue and patient transport is acceptable.			X	
2	Access roads, fire lane markings, pavers and gate entrances are in accordance with Title 19, California Code of Regulations and the California Fire Code, Chapter 5.	X			
3	Fire hydrant location and distribution complies with the California Fire Code (or see # 4).	X			
4	Fire hydrant location and distribution complies with NFPA 1142, "Alternate Means." If "NR" is checked, DSA can only approve on-site water storage as an alternate. The signature of the school district official is required to acknowledge the use of alternate means.	X		X	
	Signature of School District Official: _____ **Date:** _____ **Print the School District Official's Name:** _____				
5	The location(s) of the proposed post indicator valve and fire department connection meet the requirements of this jurisdiction.			X	
6	The location(s) of the detector check valve assembly meet the requirements of this jurisdiction.			X	
7	Is the project located in a hazard severity zone area? (CBC, Chapter 7A, Section 701A.) ☐ Yes ☒ No Check type if "Yes": ☐ Moderate ☐ High ☐ Very High ☐ WIFA (If one of these boxes is checked, the project design must meet the requirements of Chapter 7A.)				
8	COMMENTS (note deficiencies): * PANIC HARDWARE REQUIRED ON BOTH EXIT GATES				

DSA 810 (rev 05-12-14) DIVISION OF THE STATE ARCHITECT — DEPARTMENT OF GENERAL SERVICES — Page 1 of 1 STATE OF CALIFORNIA

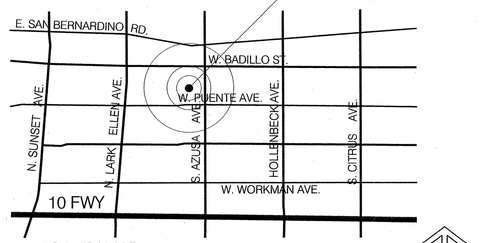
☐ LEGEND:

- EXISTING BUILDING (NOT PART OF THIS APPLICATION)
- PART OF THIS APPLICATION
- DENOTES EXISTING FIRE TRUCK LANE 20'-0" MIN. WIDE CLEAR TO SKY. DSA A#107647
- EXISTING 6'-0" HIGH C.L. FENCE/GATE
- PROPOSED ACCESSIBLE PATH OF TRAVEL
- PROPERTY LINE
- LIMIT OF WORK

REFERENCE NOTES:

1. NEW 3'-6" WIDE (PAIR) CHAIN LINK GATE WITH PANIC HARDWARE AND w/ FIRE DEPARTMENT APPROVED "KNOX' KEY BOX.
2. NEW 3'-6" WIDE (PAIR) C.L. GATE w/ FIRE DEPARTMENT APPROVED "KNOX' KEY BOX.
3. NEW BUILDING SIGN PERMANENTLY ATTACHED TO THE BUILDING.
4. NEW 6' HIGH C.L. FENCE/GATE AROUND (E) BACKFLOW FIRE PREVENTION DEVICE TO BE APPROVED BY THE FIRE DEPARTMENT INSPECTOR.
5. NEW 6'-0" HIGH C.L. FENCE, TYPICAL
6. EXISTING 20' WIDE C.L. SWING GATE w/ KNOX BOX
7. EXISTING EDISON ABOVE GROUND VAULT

GROVECENTER E.S.
775 N LARK ELLEN AVE., COVINA, CA 91722



VICINITY MAP
N.T.S.

NORTH

DSA SUBMITTAL DATE: 9.26.2017

P-LINE CONSULTING
20803 e. valley blvd., ste. 206
walnut, ca 91789
■ c: 714.747.7263
■ f: 909.839.0123
■ e: leny@plineconsulting.com
Leny F. Gallego
Principal

LICENSED ARCHITECT — PEDRO A. NIEBERN — C-22914 — EXP. 3/31/19 RENEWAL DATE — STATE OF CALIFORNIA

9/05/17

CONSULTANT

D.S.A. STAMP
DSA FILE NO. 19-25
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APPL # 03-118460
DATE SEP 27 2017

THE ILLUSTRATIONS INDICATED ON THIS SHEET ARE TO REPRESENT THE ARCHITECTURAL DESIGN CONCEPT OF THE PROJECT ONLY. THE DIMENSIONS OF THE BUILDING, THE ELECTRICAL ELEMENTS, AND THE TYPE OF STRUCTURAL, MECHANICAL, AND/OR ELECTRICAL SYSTEMS REPRESENTED DO NOT NECESSARILY PROVIDE THE FULL DESCRIPTION OF THE WORK REQUIRED FOR THE PERFORMANCE OF ALL ACTIVITIES TO COMPLETE THE INSTALLATION. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL MATERIALS AND LABOR REQUIRED FOR THE PROPER EXECUTION OF THE CONTRACT DOCUMENTS CONSISTENT WITH ALL APPLICABLE CODES AND ACCEPTABLE CONSTRUCTION PRACTICES.

Revision(s)	Date
No. Remarks	

Project Title:
RELOCATION OF PORTABLE CLASSROOM BUILDING PC A#04-104801

From:
LARK ELLEN ELEMENTARY SCHOOL
775 N. LARK ELLEN AVE., COVINA, CA 91722

To:
GROVECENTER ELEMENTARY SCHOOL

Owner:
COVINA-VALLEY UNIFIED SCHOOL DISTRICT

Project Address:
775 N. LARK ELLEN AVE.
COVINA, CA 91722
T.626.974.4400

Project Tracking No.
64436-177

Project No.
CVUSD_GES81517

Sheet Title
FIRE TUCK LANE TYPICAL NOTES

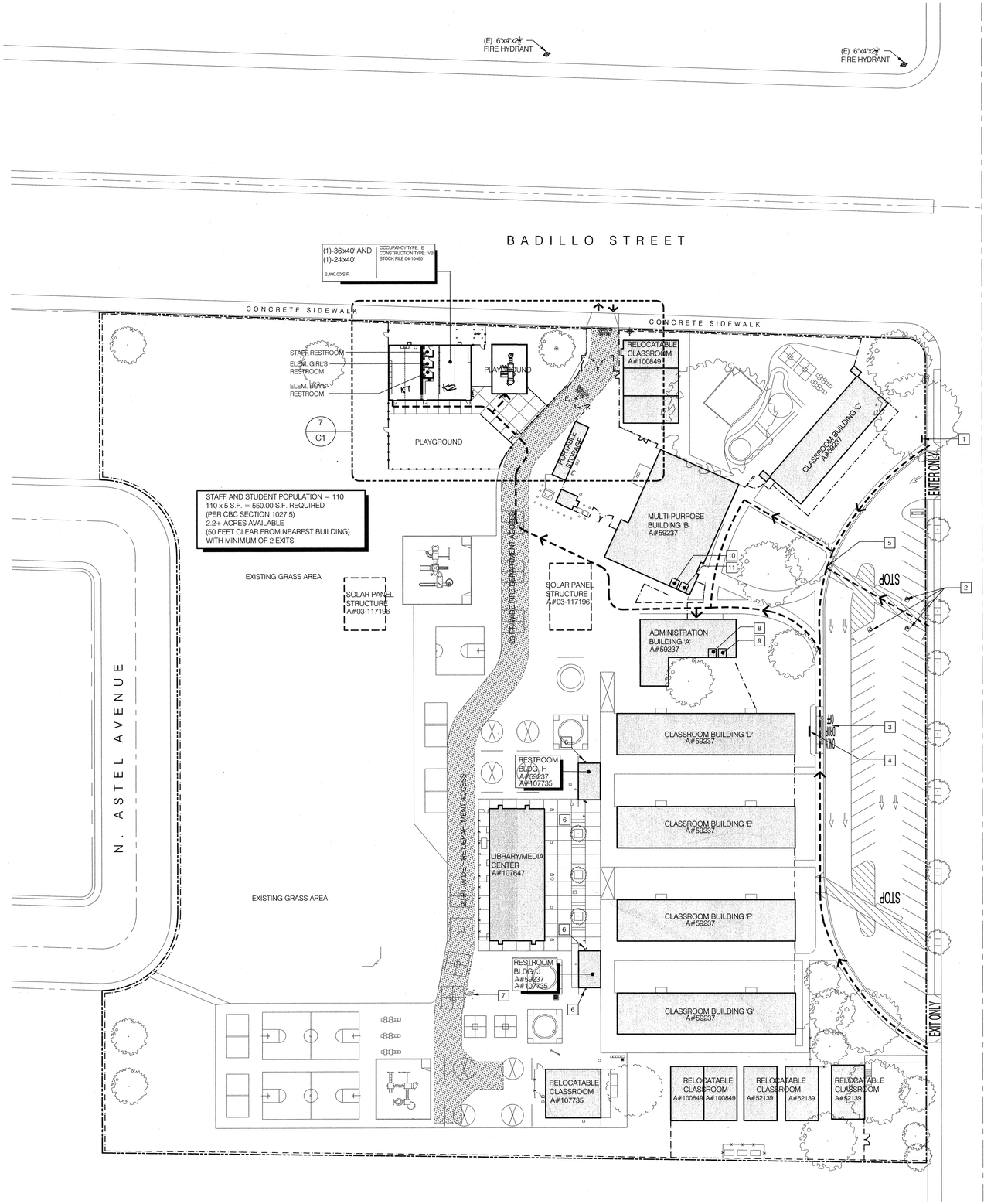
FIRE-1

Designed:
Drawn:
Checked:
Plot Date: 9.05.2017
Filename: covina

Drawing No. A0

Sheet No. of

ALL DRAWINGS AND WRITTEN MATERIAL APPEARING HEREIN CONSTITUTE THE ORIGINAL AND UNPUBLISHED WORK OF THE ARCHITECT AND THE SAME MAY NOT BE DUPLICATED, USED OR DISCLOSED WITHOUT THE WRITTEN CONSENT OF THE ARCHITECT.



REFERENCE NOTES:

NOTE: ALL NOTES ARE EXISTING UNLESS NOTED OTHERWISE.

1. EXISTING TOW-AWAY SIGN. DSA A#59237
2. EXISTING ACCESSIBLE PARKING STALL DSA A#59237. VERIFIED PER A#107735
3. EXISTING ACCESSIBLE DROP-OFF ZONE DSA A#107647
4. EXISTING ACCESSIBLE DIRECTIONAL SIGN DSA A#107647
5. EXISTING ACCESSIBLE CURB CUT RAMP DSA A#59237, VERIFIED PER DSA A#107735
6. EXISTING ACCESSIBLE HI-LO DRINKING FOUNTAIN DSA A#107735
7. EXISTING FIRE HYDRANT WITH PROTECTION PIPE BOLLARDS DSA A# 107647
8. EXISTING ACCESSIBLE MEN'S TOILET DSA A# 59237, DSA A# 107735
9. EXISTING ACCESSIBLE WOMEN'S TOILET DSA A# 59237, DSA A# 107735
10. EXISTING ACCESSIBLE MEN'S TOILET DSA A# 59237
11. EXISTING ACCESSIBLE WOMEN'S TOILET DSA A# 59237

BLDG. CODE ANALYSIS:
TYPE V-B (PC#04-104801)
GROUP E OCCUPANCY (KINDER AGE 2½ & ABOVE)

TOTAL AREA ACTUAL	2600 SF
ALLOWABLE AREA	9500 SF
BLDG. HT. ACTUAL	13 FT.
BLDG. ALLOWABLE	40 FT.
NO. OF STORIES (ACTUAL)	1
ALLOWABLE NO. OF STORY	2

ACCESSIBLE ROUTE NOTES:

THE ACCESSIBLE PATH OF TRAVEL AS INDICATED ON THE PLAN IS A BARRIER-FREE ACCESS ROUTE WITHOUT ANY ABRUPT LEVEL CHANGES EXCEEDING ½" IF BEVELED AT A 1:2 MAXIMUM SLOPE, OR VERTICAL LEVEL CHANGES NOT EXCEEDING ¼" MAXIMUM, AND AT LEAST 48" IN WIDTH. SURFACE IS STABLE, FIRM, AND SLIP RESISTANT. CROSS SLOPE DOES NOT EXCEED 2% AND SLOPE IN THE DIRECTION OF TRAVEL IS LESS THAN 5%, UNLESS OTHERWISE INDICATED. THE ACCESSIBLE PATH OF TRAVEL SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS TO 80" MINIMUM, AND PROTRUDING OBJECTS GREATER THAN A 4" PROJECTION FROM THE WALL AND ABOVE 27" AND LESS THAN 80". STRUCTURAL ENGINEER SHALL VERIFY THAT THERE ARE NO BARRIERS IN THE PATH OF TRAVEL

FOR GRATINGS LOCATED IN THE SURFACE OF ANY PEDESTRIAN WAY IN THE PATH OF TRAVEL, GRID/OPENINGS IN GRATINGS SHALL BE LIMITED TO ½" MAXIMUM CLEAR IN THE DIRECTION OF TRAVEL FLOW.

GATES WITHIN ACCESSIBLE ROUTE OF TRAVEL MUST COMPLY WITH ALL APPLICABLE DOOR REQUIREMENTS. (SEE SECTION 11B-404.2) WITH LEVER HANDLE AND KICK PLATE. PANIC HARDWARE AND EXIT SIGNS MAY BE REQUIRED. (SEE SECTION 1008.2)

DETERIORATION OR EXISTING NON-COMPLIANT CONSTRUCTION NOTES:

IF ANY CONDITION IS DISCOVERED WHICH, IF LEFT UNCORRECTED, WOULD MAKE THE BUILDING NON-COMPLIANT WITH THE REQUIREMENTS OF THE EDITION OF THE CBC IN FORCE AT THE TIME OF THE ORIGINAL CONSTRUCTION, THE CONDITION MUST BE CORRECTED IN ACCORDANCE WITH CURRENT CODE REQUIREMENTS.
A CONSTRUCTION CHANGE DOCUMENT (CCD TYPE A), OR A SEPARATE SET OF PLANS AND SPECIFICATIONS DETAILING AND SPECIFYING THE REUIRED REPAIR WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE REPAIR WORK.

"DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE STATEMENT"

THE P.O.T. IDENTIFIED IN THESE CONSTRUCTION DOCUMENTS IS COMPLIANT WITH THE CURRENT APPLICABLE CALIFORNIA BUILDING CODES ACCESSIBILITY PROVISIONS FOR PATH OF TRAVEL REQUIREMENTS FOR ALTERATIONS, ADDITIONS AND STRUCTURAL REPAIRS. AS PART OF THE DESIGN OF THIS PROJECT, THE P.O.T. WAS EXAMINED BY THIS ENGINEER AND ANY ELEMENTS, COMPONENTS OR PORTIONS OF THE P.O.T. THAT WERE DETERMINED TO BE NONCOMPLIANT 1) HAVE BEEN IDENTIFIED AND 2) THE CORRECTIVE WORK NECESSARY TO BRING THEM IN COMPLIANCE HAS BEEN INCLUDED WITHIN THE SCOPE OF WORK OF THIS PROJECTS WORK THROUGH DETAILS, DRAWINGS AND SPECIFICATIONS INCORPORATED INTO THESE CONSTRUCTION DOCUMENTS.

DURING CONSTRUCTION, IF P.O.T. ITEMS WITHIN THE SCOPE OF THE PROJECT REPRESENTED AS CODE COMPLIANT ARE FOUND TO BE NONCONFORMING BEYOND REASONABLE CONSTRUCTION TOLERANCES, THEY SHALL BE BROUGHT INTO COMPLIANCE WITH THE CBC AS A PART OF THIS PROJECT BY MEANS OF A CONSTRUCTION CHANGE DOCUMENTS.

ALTERATION NOTES

ALTERATION, REHABILITATION OR RECONSTRUCTION PROJECTS

SECTION 4-317 (c), PART 1, TITLE 24, CCR, REQUIRES THE FOLLOWING NOTES TO BE ADDED TO THE SPECIFICATIONS:

"THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE ALTERATION, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TILE 24, CALIFORNIA CODE OF REGULATIONS. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS, A CHANGE ORDER, OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT BEFORE WITH THE WORK"

EXIT CALCULATION
36x40 UNIT = 1440 SF
24x40 UNIT = 960 SF
OVERHANG 5x40 = 200 SF
2600 SF ÷ 104 > 50
2 EXITS REQUIRED

LEGEND:

- PART OF THIS APPLICATION
- EXISTING BUILDING (NOT PART OF THIS APPLICATION)
- DENOTES EXISTING FIRE TRUCK LANE 20'-0" MIN. WIDE CLEAR TO SKY. DSA A#107647
- NEW 4'-0" HIGH C.L. FENCE/GATE (U.N.O.)
- EXISTING 6'-0" HIGH C.L. FENCE/GATE
- PROPOSED ACCESSIBLE PATH OF TRAVEL
- PROPERTY LINE
- LIMIT OF WORK

FUTURE PLAYGROUND NOTES:

1. GROUND SURFACE TO COMPLY WITH CBC 2016 SECTION 11B-1008.2.6. AND ACCESSIBLE ROUTE TO COMPLY WITH 11B-1008.2 TO BE ADDRESSED BY THE DIVISION OF THE STATE ARCHITECT PRIOR TO INSTALLATION.

2. FUTURE PLAY STRUCTURE(S) TO BE REVIEWED AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT PRIOR TO INSTALLATION

PARKING LOT	TOTAL	REGULAR	ACCESSIBLE REQUIRED	ACCESSIBLE PROVIDED	ACCESS. VAN REQUIRED (INCLUDED IN REQUIRED COUNT)	ACCESS. VAN PROVIDED (INCLUDED IN REQUIRED COUNT)
PARKING SPACES	48	45	2	3	1	2
COVERED SPACES	N/A	N/A	N/A	N/A	N/A	N/A

FLOOD HAZARD ZONE NOTES:

1. FLOOD ZONE DESIGNATION: ZONE X: AREAS OF 0.2% ANNUAL CHANCE OF FLOOD, AREAS OF 1% ANNUAL CHANCE FLOOD WITH AVERAGE DEPTHS OF LESS THAN 1 FOOT WITH DRAINAGE AREAS LESS THAN 1 SQUARE MILE AND AREAS PROTECTED BY LEVEES FROM 1% ANNUAL FLOOD CHANCE FLOOD
2. FLOOD INSURANCE RATE MAP DESIGNATION (FIRM): FIRM PANEL - 06037C1700F (MODERATE TO LOW RISK)
3. EFFECTIVE DATE OF THE FIRM: 09/26/2008
4. BASE FLOOD ELEVATION (BFE): N/A (NO BFE ESTABLISHED FOR ZONE X AREAS)
5. APPLICABLE CITY OF WEST COVINA ORDINANCE SECTIONS: 9-42, 9-43, and 9-56

NORTH
4 SITE PLAN
SCALE: 1" = 40'

DSA SUBMITTAL DATE: 9.26.2017

P-LINE CONSULTING
20803 e. valley blvd., ste. 206
walnut, ca 91789
c: 714.747.7263
f: 909.839.0123
e: leny@plineconsulting.com
Leny F. Gallego
Principal

LICENSED ARCHITECT LENY FELIPE GALLEGO C-22914 EXP. 3/31/19 RENEWAL DATE STATE OF CALIFORNIA

CONSULTANT

D.S.A. STAMP
DSA FILE NO. 19-25
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APPL# 03-118460
AC 20 LO FLS 15
DATE SEP 27 2017

THE ILLUSTRATIONS INDICATED ON THIS SHEET ARE TO REPRESENT THE ARCHITECTURAL DESIGN CONCEPT OF THE PROJECT ONLY. THE DIMENSIONS OF THE BUILDING, THE ELECTRICAL ELEMENTS, AND THE TYPE OF STRUCTURAL, MECHANICAL, AND/OR ELECTRICAL SYSTEMS REPRESENTED DO NOT NECESSARILY PROVIDE THE FULL DESCRIPTION OF THE WORK REQUIRED FOR THE PERFORMANCE OF ALL ACTIVITIES TO COMPLETE THE INSTALLATION. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL MATERIALS AND LABOR REQUIRED FOR THE PROPER EXECUTION OF THE CONTRACT DOCUMENTS CONSISTENT WITH ALL APPLICABLE CODES AND ACCEPTABLE CONSTRUCTION PRACTICES.

Revision(s)		Date
No.	Remarks	

Project Title:
RELOCATION OF
1-36' x 40', 1-24' x 40'
PORTABLE CLASSROOM BUILDING
(PC A#04-104801)

To:
GROVECENTER
ELEMENTARY SCHOOL

Owner:
COVINA-VALLEY
UNIFIED SCHOOL DISTRICT

Project Address:
775 N. LARK ELLEN AVE.
WEST COVINA, CA 91791
T.626.974.4400

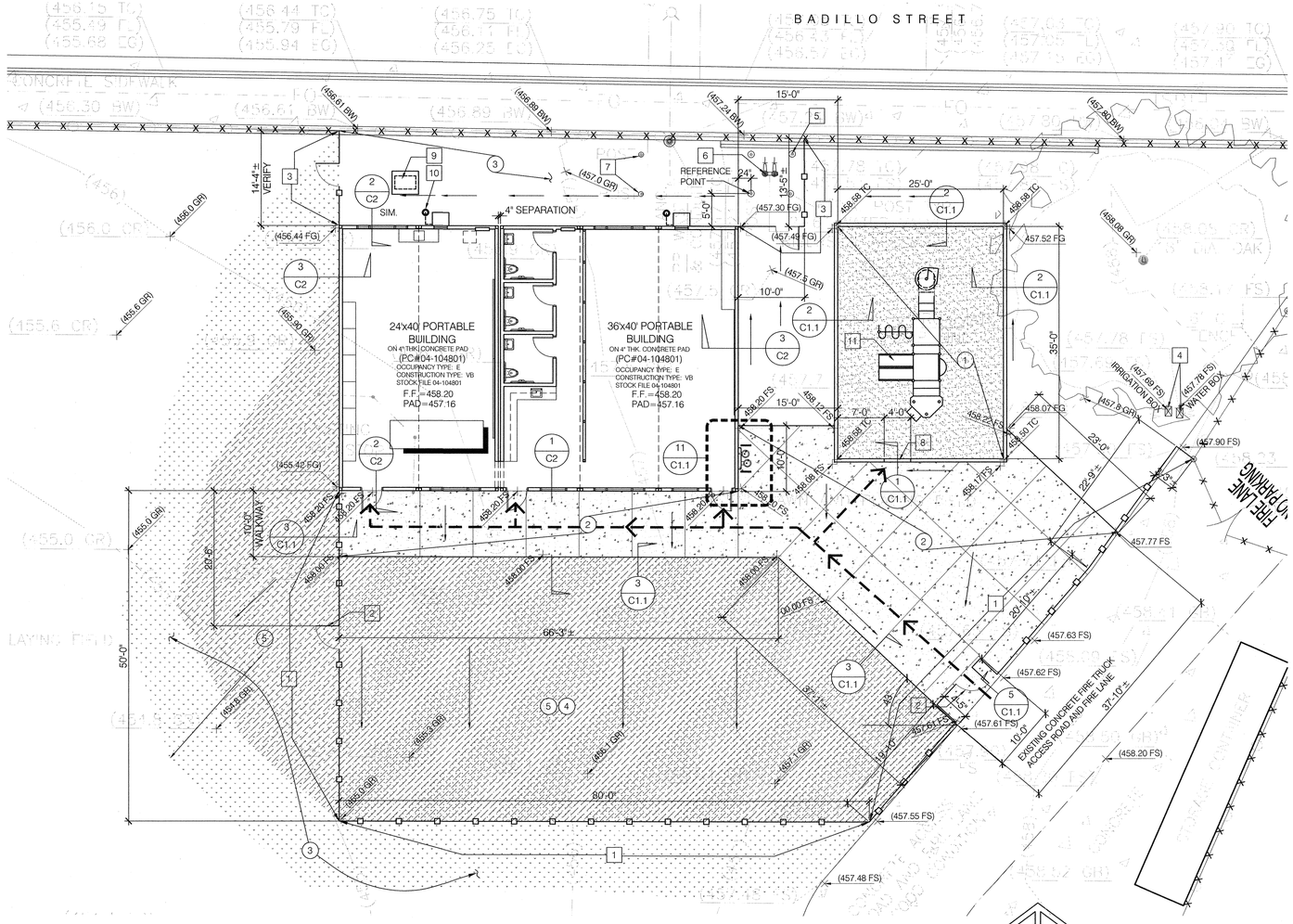
Project Tracking No.
64436-177

Project No.
CVUSD_GES81517

Sheet Title
SITE PLAN PATH OF TRAVEL
TYPICAL NOTES

Designed:
Drawn:
Checked:
Plot Date: 9.26.2017
Filename: covina
Drawing No. A1
Sheet No. of

RELOCATION OF PORTABLE CLASSROOM BUILDING



EXISTING TURF NOTE:
CONTRACTOR SHALL BE RESPONSIBLE TO RESTORE ALL DAMAGED EXISTING TURF BY PLANTING NEW SOD.

7 ENLARGED SITE PLAN

SCALE: 1" = 10'

NOTE:
NEW PAVEMENT SHALL MATCH THE GRADATION AND THICKNESS U.N.O. OF THE EXISTING PAVEMENT. SURFACE COURSE SHALL BE FLUSH w/ THE EXISTING PAVEMENT. APPLY TACK COAT TO SAW-CUT EDGE PRIOR TO PAVEMENT REPLACEMENT. SUB-GRADE SHALL BE 6" AB U.N.O., COMPACT TO 95% DENSITY.

ACCESSIBILITY NOTES:

1. PERCENT OF SLOPE SHOWN ON ARROWS ARE MAXIMUM SLOPES AND NOT INTENDED TO SUPERCEDE SLOPES DEFINED BY SPOT ELEVATIONS.
2. WITHIN THE LIMITS OF ACCESSIBLE PARKING AREA AND ACCESSIBLE DROP OFF ZONE THE SLOPE OF PAVEMENT SHALL NOT EXCEED 1.8% IN ANY DIRECTION.

SUB-GRADE NOTES:

FOLLOWING SITE DEMOLITION AND STRIPING PROCEDURES, THE SUB-GRADE SOILS IN PAVEMENT AND PORTABLE PAD AREAS SHALL BE THOROUGHLY SCARIFIED TO A MINIMUM DEPTH OF 12 INCHES BELOW THE FINISHED SUB-GRADE ELEVATION AND UNIFORMLY MOISTURE CONDITIONED TO A MOISTURE CONTENT RANGING FROM 2 TO 4 PERCENT ABOVE THE OPTIMUM MOISTURE CONTENT. DURING OR FOLLOWING MOISTURE CONDITIONING, THE SUB-GRADE SHALL BE COMPACTED TO AT LEAST
88 PERCENT COMPACTION. THE 12" CLASS II AGGREGATE BASE SHALL BE COMPACTED TO 95%.

REFERENCE NOTES: NOTE: ALL NOTES ARE "NEW" UNLESS NOTED OTHERWISE.

1. 4'-0" HIGH CHAINLINK FENCE, TYPICAL. REFER TO DETAIL 1/C1.2
2. 3'-6" WIDE x 4'-0" HIGH C.L. GATE WITH PANIC HARDWARE AND w/ FIRE DEPARTMENT APPROVED "KNOX" KEY BOX, SEE DETAIL 2/C1.2
3. 6'-0" HIGH CHAINLINK FENCE WITH 3'-6" WIDE X 6'-0" HIGH CHAIN LINK GATE, TYPICAL , REFER TO DETAIL 1/C1.2
4. EXISTING IRRIGATION VAULT. RAISE BOX OR REPLACE BOX AS REQUIRED FOR NEW FINISH GRADE ELEVATION. REPLACE (E) COVER AS REQUIRED.
5. EXISTING 6" DIA. PROTECTIVE PIPE BOLLARD, TYPICAL
6. EXISTING 6" DIA. WATER VALVE RISERS AND ASSEMBLY. PROTECT IN PLACE DURING CONSTRUCTION
7. EXISTING PROTECTIVE PIPE BOLLARD, TYPICAL
8. ACCESSIBLE ACCESS. SEE DETAIL 1/C1.1
9. ELECTRICAL TRANSFORMER HOUSEKEEPING PAD. SEE DETAIL 9/C1.1 REFER TO ELECTRICAL DRAWINGS FOR LOCATION. PROPOSED LOCATION OF CONDENSATE LINE DRYWELL, TYPICAL ON 2 LOCATIONS. SEE DETAIL 11/C2
10. LOCATION OF RELOCATED PLAYGROUND EQUIPMENT. SEE DETAIL 13 & DETAIL 14/C1.1 FOR PLAYGROUND POST MOUNTING DETAILS.

LEGEND :

1. DENOTES PLAYGROUND AREA WITH 12" THICK OF ENGINEERED WOOD FIBER BY GT IMPAX (WWW.GAMETIME.COM) 1.800.235.2440
2. DENOTES NEW 4" THK. MIN. CONCRETE PAVEMENT REINFORCED WITH #3 REBARS AT 24" O.C. EA. WAY, ON MINIMUM OF 12" LAYER OF COMPACTED SUBGRADE SOIL COMPACTED TO A MINIMUM 90% OF RELATIVE MAXIMUM DENSITY PER ASTM-D-1557 (APPROX. 2,100 S.F.)
3. DENOTES EXISTING GRASS AREA TO REMAIN. PROTECT IN PLACE DURING CONSTRUCTION.
4. DENOTES NEW TURF AREA. PROVIDE COMPLETE NEW IRRIGATION SYSTEM AND TIE-IN TO THE NEAREST IRRIGATION CONTROL BOX. COORDINATE WITH DISTRICT'S PERSONNEL FOR POINT OF CONNECTION
5. DENOTES NEW TURF AREA. PROVIDE COMPLETE NEW IRRIGATION SYSTEM AND TIE-IN TO THE NEAREST IRRIGATION CONTROL BOX. COORDINATE WITH DISTRICT'S PERSONNEL FOR POINT OF CONNECTION

DENOTES ACCESSIBLE PATH OF TRAVEL

(00.00) (E) F.S. — DENOTES (E) FINISH SURFACE ELEVATION

00.00 F.S. — DENOTES (N) FINISH SURFACE ELEVATION

FIELD VERIFICATION NOTE:

THE CONTRACTOR SHALL INCLUDE IN THE CONTRACT AMOUNT, THE COSTS INVOLVED IN VERIFYING THE EXACT LOCATIONS OF UNDERGROUND UTILITY LATERAL LINES, POINTS OF CONNECTION, EXISTING INVERT ELEVATIONS, ETC. CONTRACTOR SHALL POT-HOLE AS REQUIRED. THE DRAWINGS SHOW APPROXIMATE LOCATIONS BASED ON THE AVAILABLE INFORMATION.

☐ EXTERIOR IMPROVEMENTS:

PORTLAND CEMENT CONCRETE PAVING AND CONCRETE FINISHES:
PORTLAND CEMENT CONCRETE PAVING SHALL HAVE A MEDIUM SALTED (MEDIUM BROOM) FINISH ON ALL SURFACES SLOPED LESS THAN 6% AND SLIP RESISTANT (HEAVY BROOM FINISH) ON ALL SURFACES SLOPED GREATER THAN 6%. 2016 CBC SECTION 11B-403

☐ CONCRETE NOTES:

1. ALL CONCRETE WORK SHALL CONFORM TO ALL REQUIREMENTS OF THE 2016 C.B.C. AND THE A.C.I. 310.05 SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR "BUILDINGS".
2. SLAB AND FOUNDATION CONCRETE SHALL BE 150 P.PCPF HARDROCK, MIXED PER A.S.T.M. C-94, AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3,000 P.S.I. AT 28 DAYS.
3. THE MAXIMUM SIZE AGGREGATE IN FOUNDATION AND MASS CONCRETE WORK SHALL BE 1 INCH. THE MAXIMUM SIZE AGGREGATE IN SLABS ON GRADE, WALLS SHALL BE ¾ INCH. ALL OTHER CONCRETE SHALL BE ¾ INCH.
4. CEMENT SHALL CONFORM TO A.S.T.M. C-150, TYPE V, LOW ALKALI, AGGREGATES FOR NORMAL WEIGHT SHALL CONFORM TO A.S.T.M. C-33.

☐ TYPICAL NOTES:

1. PROTECT IN PLACE ALL EXISTING UTILITY YARD BOX, ETC. ADJUST ACCORDINGLY AS REQUIRED FOR NEW FINISH ELEVATION WHERE OCCURS

2. THE CONTRACTOR SHALL DEMOLISH ALL INTERFERING SITE PAVEMENT/OBJECTS, ITEMS, ETC. AS REQUIRED FOR IMPLEMENTING NEW DESIGN WORK EVEN NOT SPECIFICALLY CALLED FOR.

3. THE CONTRACTOR SHALL INCLUDE IN THE CONTRACT AMOUNT, THE COST INVOLVED IN REPAIRING, PATCHING AND APPLYING SEAL COATS AROUND PORTABLE BUILDING'S A.C. PAVEMENT. CONTRACTOR HAS TO WALK WITH THE PROJECT MANAGER PRIOR TO BIDDING TO VERIFY THE LIMIT OF WORK FOR PATCHING, REPAIR WORK AND SEAL COATS.

☐ DOOR HARDWARE NOTES:

MOUNTING HEIGHT OF LATCHING LEVER TYPE HARDWARE SHALL BE 34" TO 44" A.F.F. PER CBC SECTION 11B-404.2.7 PRESSURE TO OPERATE DOOR SHALL NOT EXCEED: 5LBS. (38N) FOR EXTERIOR DOORS, 5.0 LBS. (38N) FOR INTERIOR DOORS & WHEN FIRE DOORS ARE REQUIRED 5LBS (38N) MAX. OR THE MAXIMUM EFFORT TO OPERATE THE DOOR MAY BE INCREASED TO THE MINIMUM ALLOWABLE BY THE DIVISION OF STATE ARCHITECT, NOT TO EXCEED 15LBS. 966.72N). PER CBC 1010.1.3 & 11B-404.2

FUTURE PLAYGROUND NOTES:

1. GROUND SURFACES TO COMPLY WITH CBC 2016 SECTION 11B-1008.2.6 & ACCESSIBLE ROUTE TO COMPLY WITH SECTION 11B-1008.2 AND TO BE ADDRESSED BY D.S.A. PRIOR TO INSTALLATION

2. FUTURE PLAYGROUND STRUCTURE(S) TO BE REVIEWED AND APPROVED BY D.S.A. PRIOR TO INSTALLATION

LEGEND :

FG	FINISH GRADE
EG	EDGE OF GUTTER
TW	TOP OF WALL
(E), EXIST.,	EXISTING
PROP.	PROPOSED
C/L, ℄	CENTER LINE
CTR	CENTER
BC	BEGINNING OF CURB
EC	EDGE OF CURB
BVC	BEGIN VERTICAL CURB
PCR	POINT OF CURB RETURN
TRANS.	TRANSITION
MIN.	MINIMUM
MAX.	MAXIMUM
MH	MANHOLE
CB	CATCH BASIN
TC	TOP OF CURB
FL	FLOW LINE
FS	FINISH SURFACE
FG	FINISH GRADE
FF	FINISH FLOOR
P/L	PROPERTY LINE
PA	PLANTER AREA
FLB	FLOW LINE BOX
SSMH	SANITARY SEWER MANHOLE
SDMH	STORM DRAIN MANHOLE
LP	LOW POINT
INV	INVERT
TG	TOP OF GRATE
SD	STORM DRAIN
T.O.P.	TOP OF PIPE
C.O.	CLEAN OUT
DOM.	DOMESTIC
P.O.C.	POINT OF CONNECTION
ELEV	ELEVATION
GR	GRASS
EP	EDGE OF PAVEMENT

EXISTING CONDITIONS

ALL INFORMATION SHOWN ON THE PLANS RELATIVE TO EXISTING CONDITIONS IS GIVEN AS THE BEST PRESENT KNOWLEDGE FROM PLANS SUPPLIED BY THE OWNER, BUT WITHOUT GUARANTEE OF ACCURACY.

WHERE ACTUAL CONDITIONS ARE NOT IN ACCORDANCE WITH THE INFORMATION PRESENTED, THE ARCHITECT SHALL BE NOTIFIED IMMEDIATELY. NO MODIFICATIONS OF THE PLANS FOR NEW CONSTRUCTION SHALL BE MADE WITHOUT THE WRITTEN APPROVAL OF THE ARCHITECT.

EXISTING UNDERGROUND UTILITIES

THE ARCHITECT AND ENGINEERS ARE NOT RESPONSIBLE FOR THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES WHETHER SHOWN OR NOT SHOWN ON THE DRAWINGS. THE LOCATION OF ANY EXISTING UNDERGROUND UTILITIES SHOWN ON THE DRAWINGS, IF ANY, IS APPROXIMATE. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN EXCAVATING AND TRENCHING ON THE SITE. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER SHOULD ANY SUCH UNIDENTIFIED CONDITIONS BE DISCOVERED.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGES WHICH MAY RESULT FROM HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ALL EXISTING UNDERGROUND UTILITIES.

WARNING

EXCAVATE & DEMOLISH WITH EXTREME CARE!

THE ARCHITECTS AND ENGINEERS DO NOT KNOW THE LOCATIONS OF ALL EXISTING UTILITY LINES AND EQUIPMENT. ANY SUCH WORK ON THE DRAWINGS IS SCHEMATIC AND IS FOR REFERENCE ONLY. BEWARE OF LINES VISIBLE AND CONCEALED. LOCATE AND USE DISCONNECTS AS REQUIRED FOR SAFETY. DO NOT COMMENCE WITH WORK UNTIL SAFE TO DO SO, THEN PROCEEDS WITH CAUTION.

CALL BEFORE YOU DIG

Underground Service Alert of Southern California
Call: TOLL FREE
1-800 227-2600
TWO WORKING DAYS BEFORE YOU DIG

DSA SUBMITTAL DATE: 9.26.2017

ALL DRAWINGS AND WRITTEN MATERIAL APPEARING HEREIN CONSTITUTE THE ORIGINAL AND UNPUBLISHED WORK OF THE ARCHITECT AND THE SAME MAY NOT BE DUPLICATED, USED OR DISCLOSED WITHOUT THE WRITTEN CONSENT OF THE ARCHITECT.

P-LINE CONSULTING
20603 e. valley blvd., ste. 206
walnut, ca 91789
■ c: 714.747.7263
■ f: 909.839.0123
■ e: leny@plinconsulting.com
Leny F. Gallego
Principal

LICENSED ARCHITECT WALTER PEDRO LEONARDO GALLEGO C-22914 EXP. 3/31/19 RENEWAL DATE STATE OF CALIFORNIA

CONSULTANT

D.S.A. STAMP
DSA FILE NO. 19-25
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APPL. 03- 118460
AP. FLS. PL. JB
DATE SEP 27 2017

THE ILLUSTRATIONS INDICATED ON THIS SHEET ARE TO REPRESENT THE ARCHITECTURAL DESIGN CONCEPT OF THE PROJECT ONLY. THE DIMENSIONS OF THE BUILDING, THE ELECTRICAL ELEMENTS, AND THE TYPE OF STRUCTURAL, MECHANICAL, AND/OR ELECTRICAL SYSTEMS REPRESENTED DO NOT NECESSARILY PROVIDE THE FULL DESCRIPTION OF THE WORK REQUIRED FOR THE PERFORMANCE OF ALL ACTIVITIES TO COMPLETE THE INSTALLATION. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL MATERIALS AND LABOR REQUIRED FOR THE PROPER EXECUTION OF THE CONTRACT DOCUMENTS CONSISTENT WITH ALL APPLICABLE CODES AND ACCEPTABLE CONSTRUCTION PRACTICES.

Revision(s)	Date
No. Remarks	

Project Title:
RELOCATION OF
1-36' x 40', 1-24' x 40'
PORTABLE CLASSROOM BUILDING
(PC A#04-104801)

To:
GROVECENTER
ELEMENTARY SCHOOL

Owner:
COVINA-VALLEY
UNIFIED SCHOOL DISTRICT

Project Address:
775 N. LARK ELLEN AVE.
WEST COVINA, CA 91791
T.626.974.4400

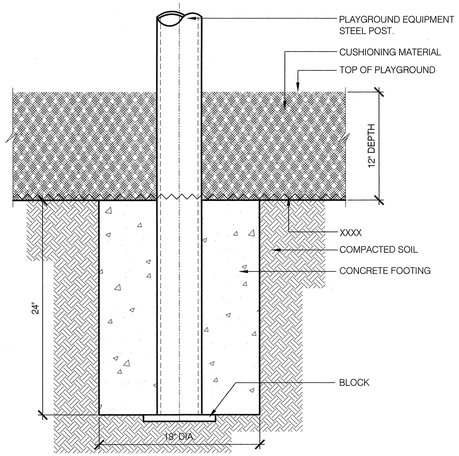
Project Tracking No.
64436-177

Project No.
CVUSD_GES81517

Sheet Title
ENLARGED SITE PLAN
TYPICAL NOTES

Designed:
Drawn:
Checked:
Plot Date: 9.26.2017
Filename: covina
Drawing No. C1
Sheet No. of

RELOCATION OF PORTABLE CLASSROOM BUILDING



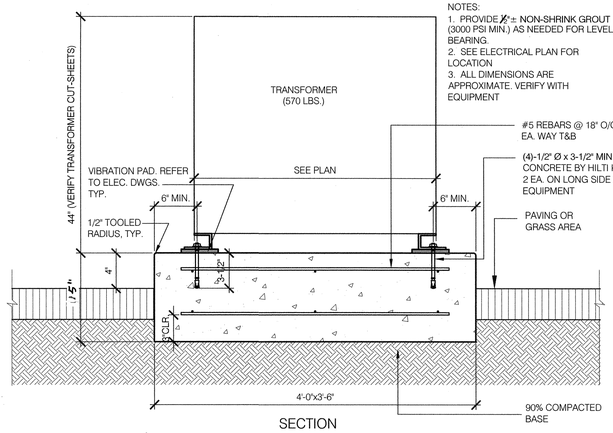
13 DECK AND COMPONENT FOOTING DETAIL

SCALE: 1-1/2"=1'-0"

FOOTING NOTES:
1. SOME EQUIPMENT LEGS MAY NOT REACH TO BOTTOM OF FOOTINGS
2. ALLOW FOR BLOCK THICKNESS BY INCREASING FOOTING DEPTH WHEN APPLICABLE
3. FOOTING LOCATIONS TO BE DETERMINED ON SITE. VERIFY PLAYGROUND CONFIGURATIONS.

14 CENTER STAGE FOOTING DETAIL

SCALE: 1-1/2"=1'-0"



NOTES:
1. PROVIDE ½"± NON-SHRINK GROUT (3000 PSI MIN.) AS NEEDED FOR LEVEL BEARING.
2. SEE ELECTRICAL PLAN FOR LOCATION
3. ALL DIMENSIONS ARE APPROXIMATE. VERIFY WITH EQUIPMENT

SECTION

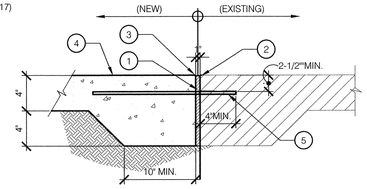
9 HOUSEKEEPING PAD DETAIL

SCALE: 1-1/2"=1'-0"

11 HI-LO D.F. WINGWALL DETAIL

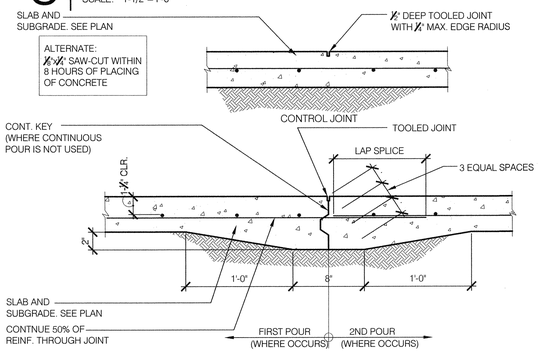
SCALE: 1" = 1'-0"

REFERENCE NOTES:
1. 1/2" THICK ASPHALT IMPREGNATED FIBER BOARD OR EQUAL
2. FILL FLUSH WITH 1/2" X 1/2" POLYURETHANE SEALANT TO MATCH CONCRETE COLOR.
3. 1/8" RADIUS, TYPICAL.
4. 4"THICK.CONCRETE SLAB U.N.O.
5. #4 DOWEL@ 16" LONG @ 16" O/C EMBED TO (E) CONC. W/ HILTI RE 500 SD (ICC-ESR-2322)



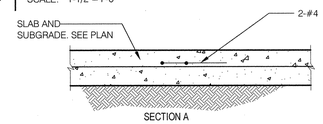
5 (N) CONCRETE TO (E) CONCRETE

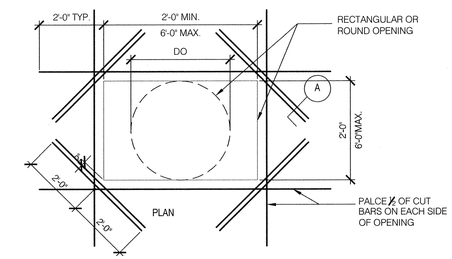
SCALE: 1-1/2"=1'-0"



6 JOINTS IN SLAB ON GRADE

SCALE: 1-1/2"=1'-0"

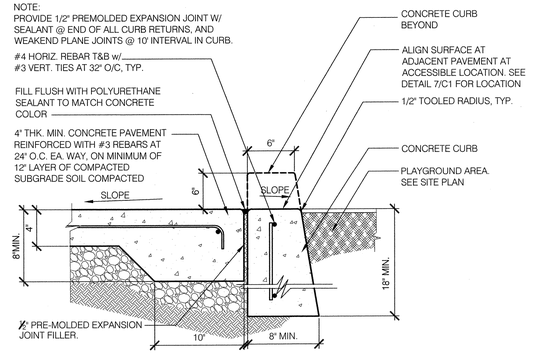




7 OPENING IN SLAB ON GRADE

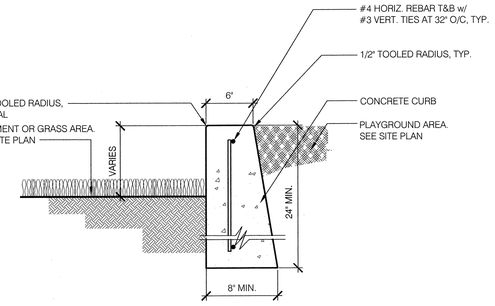
SCALE: 1-1/2"=1'-0"

NOTE:
PROVIDE 1/2" PREMOLDED EXPANSION JOINT W/ SEALANT @ END OF ALL CURB RETURNS, AND WEAKEND PLANE JOINTS @ 10' INTERVAL IN CURB.



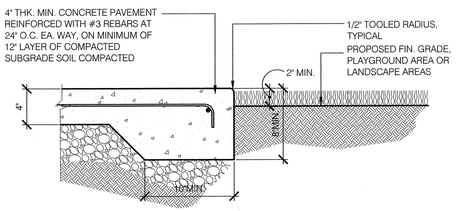
1 SECTION CONCRETE CURB

SCALE: 1-1/2"=1'-0"



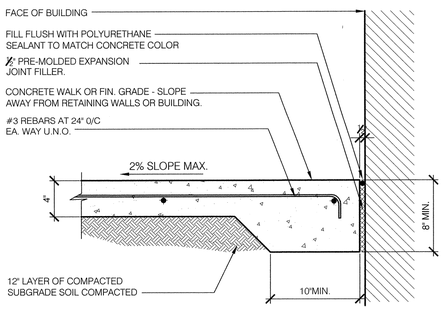
2 SECTION CONCRETE CURB

SCALE: 1-1/2"=1'-0"



3 SECTION THICKEN EDGE

SCALE: 1-1/2"=1'-0"



4 PAVEMENT AGAINST THE BUILDING

SCALE: 1-1/2"=1'-0"

DSA SUBMITTAL DATE: 9.26.2017

P-LINE CONSULTING
20803 e. valley blvd., ste. 206
walnut, ca 91789
■ c: 714.747.7263
■ f: 909.839.0123
■ e: leny@plineconsulting.com
Leny F. Gallego
Principal

LICENSED ARCHITECT LENY F. PEDRO GALLEGO C-22914 EXP. 3/31/19 RENEWAL DATE STATE OF CALIFORNIA

CONSULTANT

D.S.A. STAMP
DSA FILE NO. 19-25
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APPL. 03 118460
AC FLS SS DB
DATE SEP 27 2017

THE ILLUSTRATIONS INDICATED ON THIS SHEET ARE TO REPRESENT THE ARCHITECTURAL DESIGN CONCEPT OF THE PROJECT ONLY. THE DIMENSIONS OF THE BUILDING, THE ELECTRICAL ELEMENTS, AND THE TYPE OF STRUCTURAL, MECHANICAL, AND/OR ELECTRICAL SYSTEMS REPRESENTED DO NOT NECESSARILY PROVIDE THE FULL DESCRIPTION OF THE WORK REQUIRED FOR THE PERFORMANCE OF ALL ACTIVITIES TO COMPLETE THE INSTALLATION. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL MATERIALS AND LABOR REQUIRED FOR THE PROPER EXECUTION OF THE CONTRACT DOCUMENTS CONSISTENT WITH ALL APPLICABLE CODES AND ACCEPTABLE CONSTRUCTION PRACTICES.

Revision(s)	Date
No. Remarks	

Project Title:
RELOCATION of
1-36' x 40', 1-24' x 40'
PORTABLE CLASSROOM BUILDING
(PC A#04-104801)

To:
GROVECENTER
ELEMENTARY SCHOOL

Owner:
COVINA-VALLEY
UNIFIED SCHOOL DISTRICT

Project Address:
775 N. LARK ELLEN AVE.
WEST COVINA, CA 91791
T.626.974.4400

Project Tracking No.
64436-177

Project No.
CVUSD_GES81517

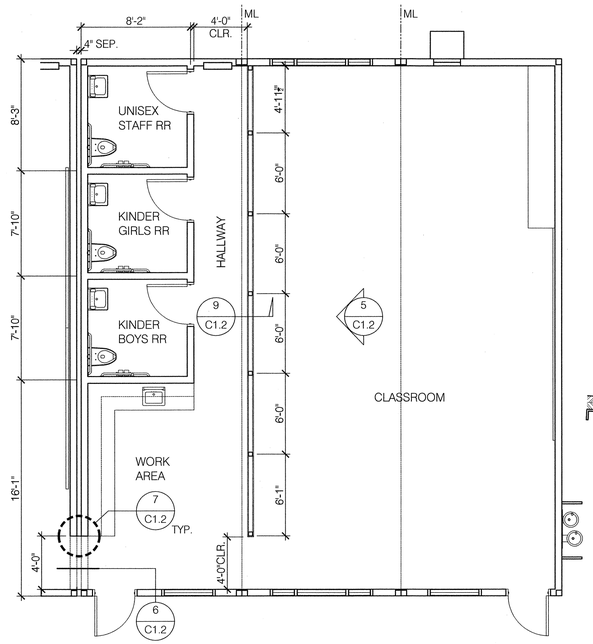
Sheet Title
TYPICAL DETAILS

Designed:
Drawn:
Checked:
Plot Date: 9.26.2017
Filename: covina

Drawing No. C1.1
Sheet No. of

RELOCATION OF PORTABLE CLASSROOM BUILDING

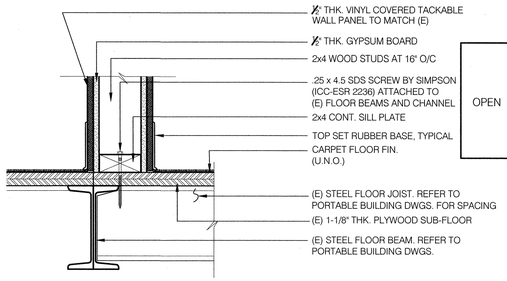
ALL DRAWINGS AND WRITTEN MATERIAL APPEARING HEREIN CONSTITUTE THE ORIGINAL AND UNPUBLISHED WORK OF THE ARCHITECT AND THE SAME MAY NOT BE DUPLICATED, USED OR DISCLOSED WITHOUT THE WRITTEN CONSENT OF THE ARCHITECT.



NORTH

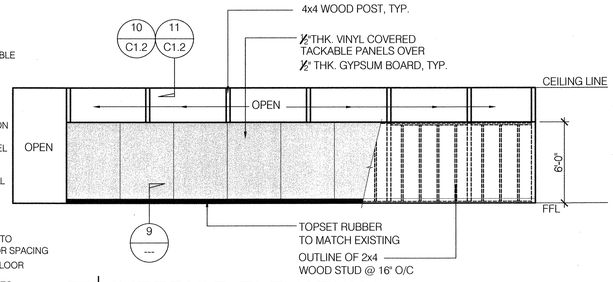
14 FLOOR PLAN 36x40 PORTABLE BLDG

SCALE: 3/16" = 1'-0"



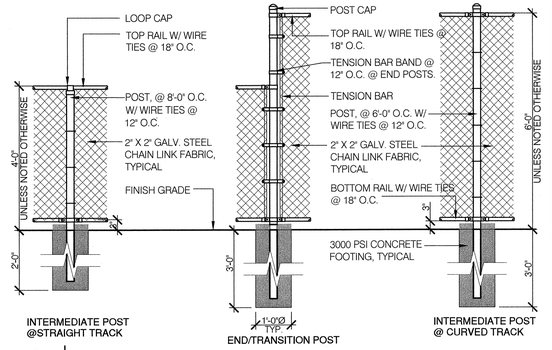
9 DETAIL AT BOT. CONN.

SCALE: 3" = 1'-0"



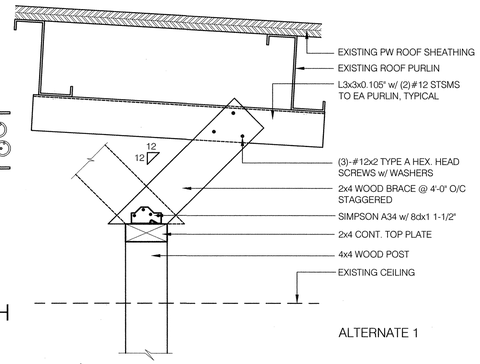
5 INTERIOR ELEVATION

SCALE: 3/16" = 1'-0"



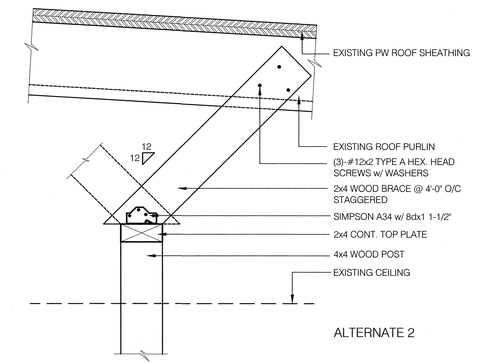
1 CHAIN LINK FENCE

SCALE: 1/2" = 1'-0"



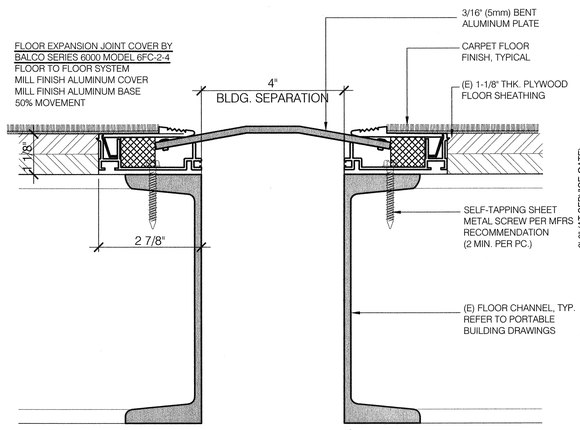
10 DETAIL AT TOP CONN.

SCALE: 3" = 1'-0"



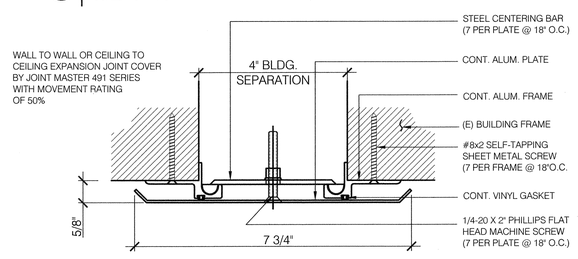
11 DETAIL AT TOP CONN.

SCALE: 3" = 1'-0"



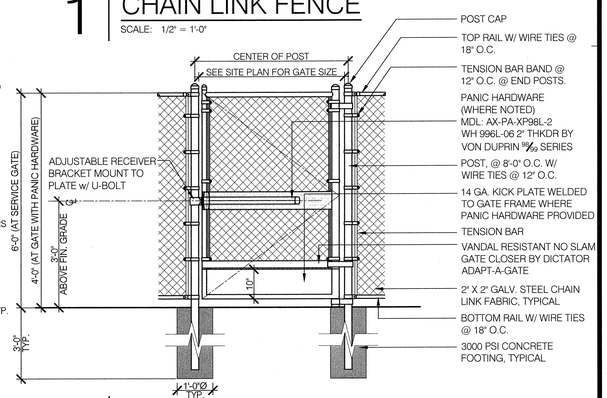
6 FLOOR SEPARATION COVER

SCALE: 6" = 1'-0"



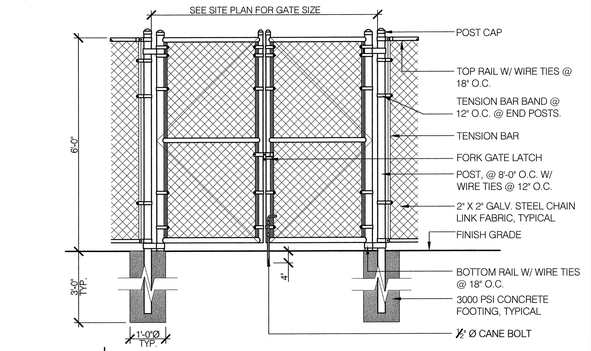
7 WALL TO WALL OR CEILING TO CEILING SEPARATION COVER

SCALE: 6" = 1'-0"



2 CHAIN LINK PEDESTRIAN GATE

SCALE: 1/2" = 1'-0"



3 CHAIN LINK DOUBLE GATE

SCALE: 1/2" = 1'-0"

ALL DRAWINGS AND WRITTEN MATERIAL APPEARING HEREIN CONSTITUTE THE ORIGINAL AND UNPUBLISHED WORK OF THE ARCHITECT AND THE SAME MAY NOT BE DUPLICATED, USED OR DISCLOSED WITHOUT THE WRITTEN CONSENT OF THE ARCHITECT.

P-LINE CONSULTING
20803 e. valley blvd., ste. 206
walnut, ca 91789
c: 714.747.7263
f: 909.839.0123
e: leny@plineconsulting.com
Leny F. Gallego
Principal

LICENSED ARCHITECT LENY FERNANDO GALLEGO No. C-22914 EXP. 3/31/19 RENEWAL DATE STATE OF CALIFORNIA

CONSULTANT

D.S.A. STAMP
DSA FILE NO. 19-25
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APPL. 03- 118460
AC FLS SS
DATE SEP 27 2017

THE ILLUSTRATIONS INDICATED ON THIS SHEET ARE TO REPRESENT THE ARCHITECTURAL DESIGN CONCEPT OF THE PROJECT ONLY. THE DIMENSIONS OF THE BUILDING, THE ELECTRICAL ELEMENTS, AND THE TYPE OF STRUCTURAL, MECHANICAL, AND/OR ELECTRICAL SYSTEMS REPRESENTED DO NOT NECESSARILY PROVIDE THE FULL DESCRIPTION OF THE WORK REQUIRED FOR THE PERFORMANCE OF ALL ACTIVITIES TO COMPLETE THE INSTALLATION. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL MATERIALS AND LABOR REQUIRED FOR THE PROPER EXECUTION OF THE CONTRACT DOCUMENTS CONSISTENT WITH ALL APPLICABLE CODES AND ACCEPTABLE CONSTRUCTION PRACTICES.

Revision(s)	Date
No. Remarks	

Project Title:
RELOCATION OF
1-36' x 40', 1-24' x 40'
PORTABLE CLASSROOM BUILDING
(PC A#04-104801)

To:
GROVECENTER
ELEMENTARY SCHOOL

Owner:
COVINA-VALLEY
UNIFIED SCHOOL DISTRICT

Project Address:
775 N. LARK ELLEN AVE.
WEST COVINA, CA 91791
T.626.974.4400

Project Tracking No.
64436-177

Project No.
CVUSD_GES81517

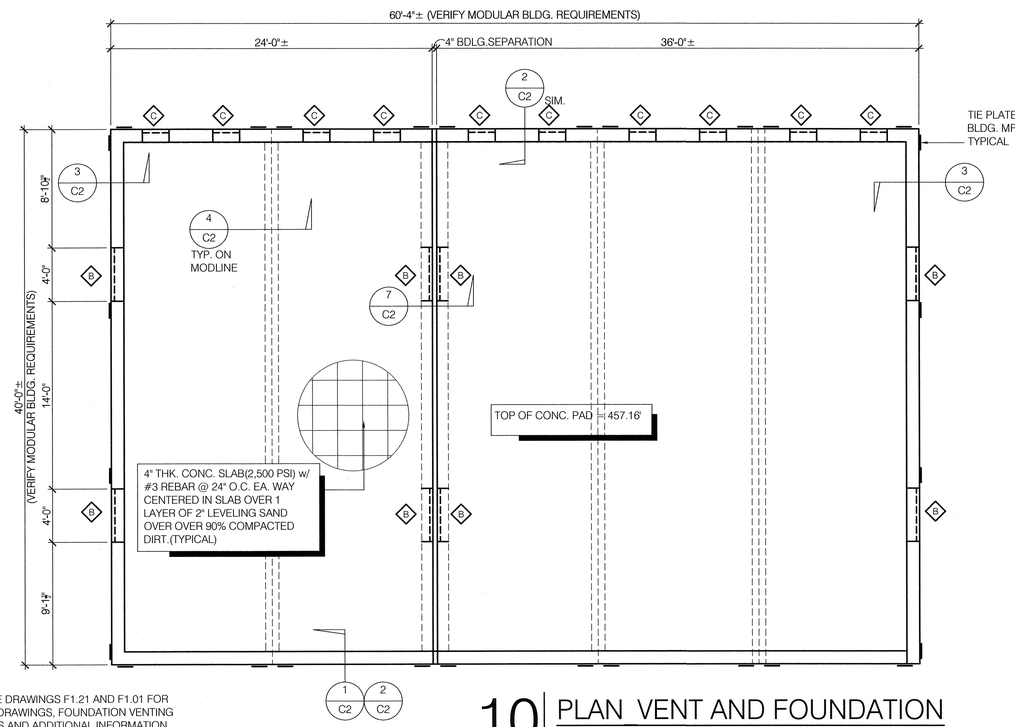
Sheet Title
36'X40' ENLARGED PLAN
TYPICAL DETAILS

Designed:
Drawn:
Checked:
Plot Date: 9.26.2017
Filename: covina

Drawing No.
C1.2
Sheet No. of

RELOCATION OF PORTABLE CLASSROOM BUILDING

DSA SUBMITTAL DATE: 9.26.2017



10 PLAN VENT AND FOUNDATION

SCALE: 3/16"-1'-0"

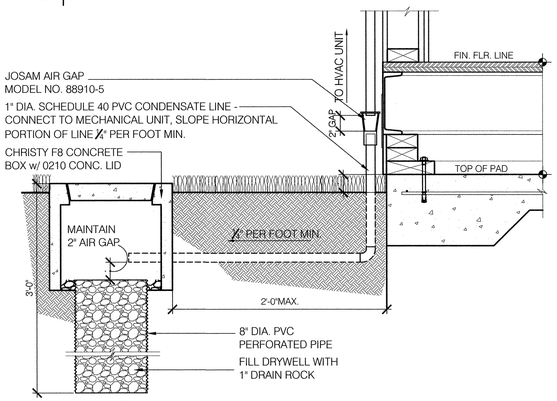
NOTE:
SEE PORTABLE DRAWINGS F1.21 AND F1.01 FOR FOUNDATION DRAWINGS, FOUNDATION VENTING CALCULATIONS AND ADDITIONAL INFORMATION.

NOTE:
1. TOP OF PADS TO BE LEVEL.
2. SITE TO BE GRADED TO PREVENT WATER PONDING AROUND THE BUILDING.
3. WOOD SILL (FOOTING) PLATES SHALL BE PRESSURE TREATED AND MAY BEAR DIRECTLY ON PAVED SURFACE. GRASS OR TURF SHALL BE CLEARED TO THE BARE SOIL UNDERNEATH THE ENTIRE AREA OF THE BUILDING.
4.SKIRT WHICH NEED NOT TO BE TREATED.
SILL RESISTANCE: THE FOUNDATION SHALL BE DESIGNED TO PREVENT SLIDING ON THE SUPPORTING SURFACE TO PREVENT SLIDING ON THE SUPPORTING SURFACE BY ATTACHING THE WOOD FOUNDATION PLATES FOR THE BUILDING SYSTEM TO THE CONCRETE PAD WITH EXPANSION ANCHORS
5. STACKED WOOD MEMBERS FOR FOUNDATION AND PRESSURE TREATED LUMBER SHALL BE NAILED WITH HOT DIPPED GALVANIZED PER ASTM A-163.
6. VENT SPACE REQUIRED = $^{2400}/_{150}$ = 16 S.F. PROVIDE VENT SPACE PER PORTABLE BUILDING DRAWINGS.

FOUNDATION VENTING CALCULATIONS

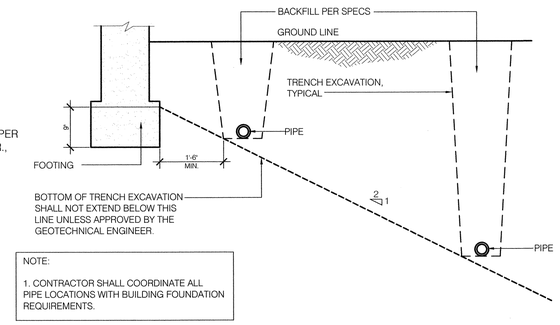
FOUNDATION VENTS: 60'X40' = 2,400 S.F./150 = 16 S.F. OF VENTING REQUIRED

VENT LEGEND	VENTING PROVIDED
B	3"x48" = 1.00 S.F. x 8 LOCATIONS = 8.00 S.F. VENTILATION AT SIDE WALL
C	3" x 24" = 0.50 S.F. x 10 LOCATIONS = 5.00 S.F. VENTILATION AT END WALL



11 CONDENSATE LINE DRYWELL DETAIL

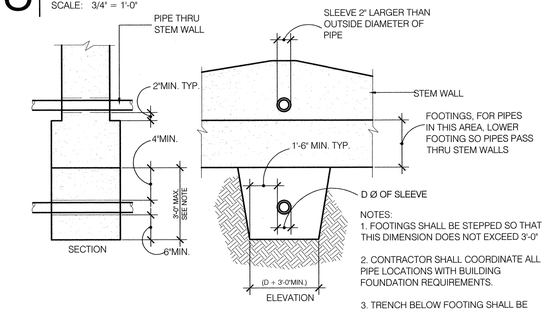
SCALE: 1-1/2" = 1'-0"



NOTE:
1. CONTRACTOR SHALL COORDINATE ALL PIPE LOCATIONS WITH BUILDING FOUNDATION REQUIREMENTS.

5 PIPES PARALLEL TO FOOTINGS

SCALE: 3/4" = 1'-0"



NOTES:
1. FOOTINGS SHALL BE STEPPED SO THAT THIS DIMENSION DOES NOT EXCEED 3'-0"

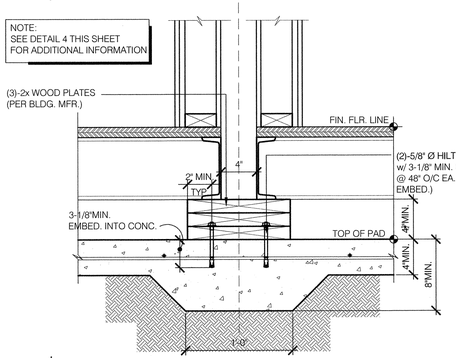
2. CONTRACTOR SHALL COORDINATE ALL PIPE LOCATIONS WITH BUILDING FOUNDATION REQUIREMENTS.

3. TRENCH BELOW FOOTING SHALL BE FILLED WITH CONCRETE BEFORE POURING FOOTING. CONCRETE FILL SHALL BE SAME WIDTH AS FOOTING AND FULL WIDTH OF PIPE TRENCH.

6 PIPES PARALLEL TO FOOTINGS

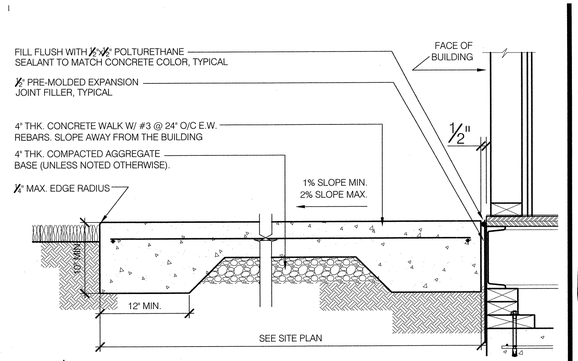
SCALE: 3/4" = 1'-0"

NOTE:
SEE DETAIL 4 THIS SHEET FOR ADDITIONAL INFORMATION



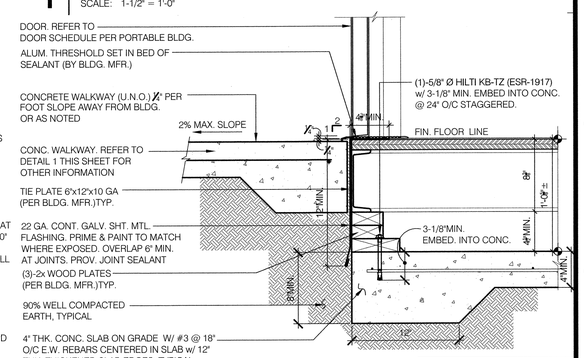
7 FOUNDATION AT BLDG. SEPARATION

SCALE: 1-1/2" = 1'-0"



1 CONCRETE WALKWAY TO BUILDING

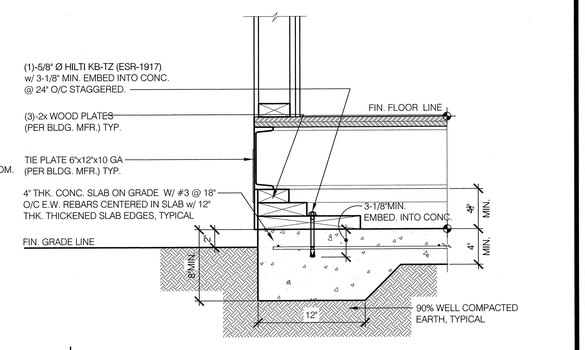
SCALE: 1-1/2" = 1'-0"



2 FOUNDATIONAT END WALL

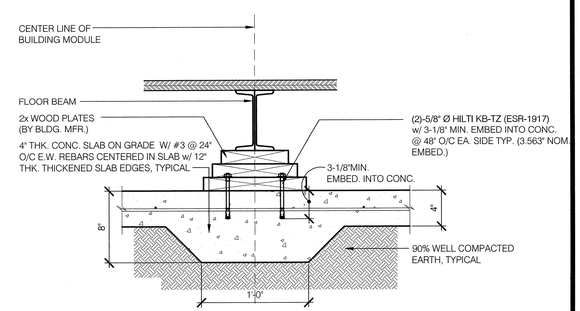
SCALE: 1-1/2" = 1'-0"

NOTE:
SEE DETAIL 9 THIS SHEET FOR ADDITIONAL INFORMATION



3 FOUNDATION AT SIDE WALL

SCALE: 1-1/2" = 1'-0"



4 FOUNDATION AT MODLINE

SCALE: 1-1/2" = 1'-0"

DSA SUBMITTAL DATE: 9.26.2017

WARNING

EXCAVATE & DEMOLISH WITH EXTREME CARE!

THE ARCHITECTS AND ENGINEERS DO NOT KNOW THE LOCATIONS OF ALL EXISTING UTILITY LINES AND EQUIPMENT. ANY SUCH WORK ON THE DRAWINGS IS SCHEMATIC AND IS FOR REFERENCE ONLY. BEWARE OF LINES VISIBLE AND CONCEALED. LOCATE AND USE DISCONNECTS AS REQUIRED FOR SAFETY. DO NOT COMMENCE WITH WORK UNTIL SAFE TO DO SO, THEN PROCEEDS WITH CAUTION.

CALL BEFORE YOU DIG

Under ground Service Alert of Southern California

Call: TOLL FREE 1-800 227-2600

TWO WORKING DAYS BEFORE YOU DIG

ALL DRAWINGS AND WRITTEN MATERIAL APPEARING HEREIN CONSTITUTE THE ORIGINAL AND UNPUBLISHED WORK OF THE ARCHITECT AND THE SAME MAY NOT BE DUPLICATED, USED OR DISCLOSED WITHOUT THE WRITTEN CONSENT OF THE ARCHITECT.

P-LINE CONSULTING
20803 e. valley blvd., ste. 206
walnut, ca 91789
■ c. 714.747.7263
■ f. 909.839.0123
■ e. leny@plineconsulting.com
Leny F. Gallego
Principal

LICENSED ARCHITECT PEDRO LENY GALLEGO C-22914 EXP. 3/31/19 RENEWAL DATE STATE OF CALIFORNIA

CONSULTANT

D.S.A. STAMP
DSA FILE NO. 19-25
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APPL. 03- 118460
AC FLS SS TB
DATE SEP 27 2017

THE ILLUSTRATIONS INDICATED ON THIS SHEET ARE TO REPRESENT THE ARCHITECTURAL DESIGN CONCEPT OF THE PROJECT ONLY. THE DIMENSIONS OF THE BUILDING, THE ELECTRICAL ELEMENTS, AND THE TYPE OF STRUCTURAL, MECHANICAL, AND/OR ELECTRICAL SYSTEMS REPRESENTED DO NOT NECESSARILY PROVIDE THE FULL DESCRIPTION OF THE WORK REQUIRED FOR THE PERFORMANCE OF ALL ACTIVITIES TO COMPLETE THE INSTALLATION. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL MATERIALS AND LABOR REQUIRED FOR THE PROPER EXECUTION OF THE CONTRACT DOCUMENTS CONSISTENT WITH ALL APPLICABLE CODES AND ACCEPTABLE CONSTRUCTION PRACTICES.

Revision(s)	Date
No. Remarks	

Project Title:
RELOCATION OF
1-36' x 40', 1-24' x 40'
PORTABLE CLASSROOM BUILDING
(PC A#04-104801)

To:
GROVECENTER
ELEMENTARY SCHOOL

Owner:
COVINA-VALLEY
UNIFIED SCHOOL DISTRICT

Project Address:
775 N. LARK ELLEN AVE.
WEST COVINA, CA 91791
T.626.974.4400

Project Tracking No.
64436-177

Project No.
CVUSD_GES81517

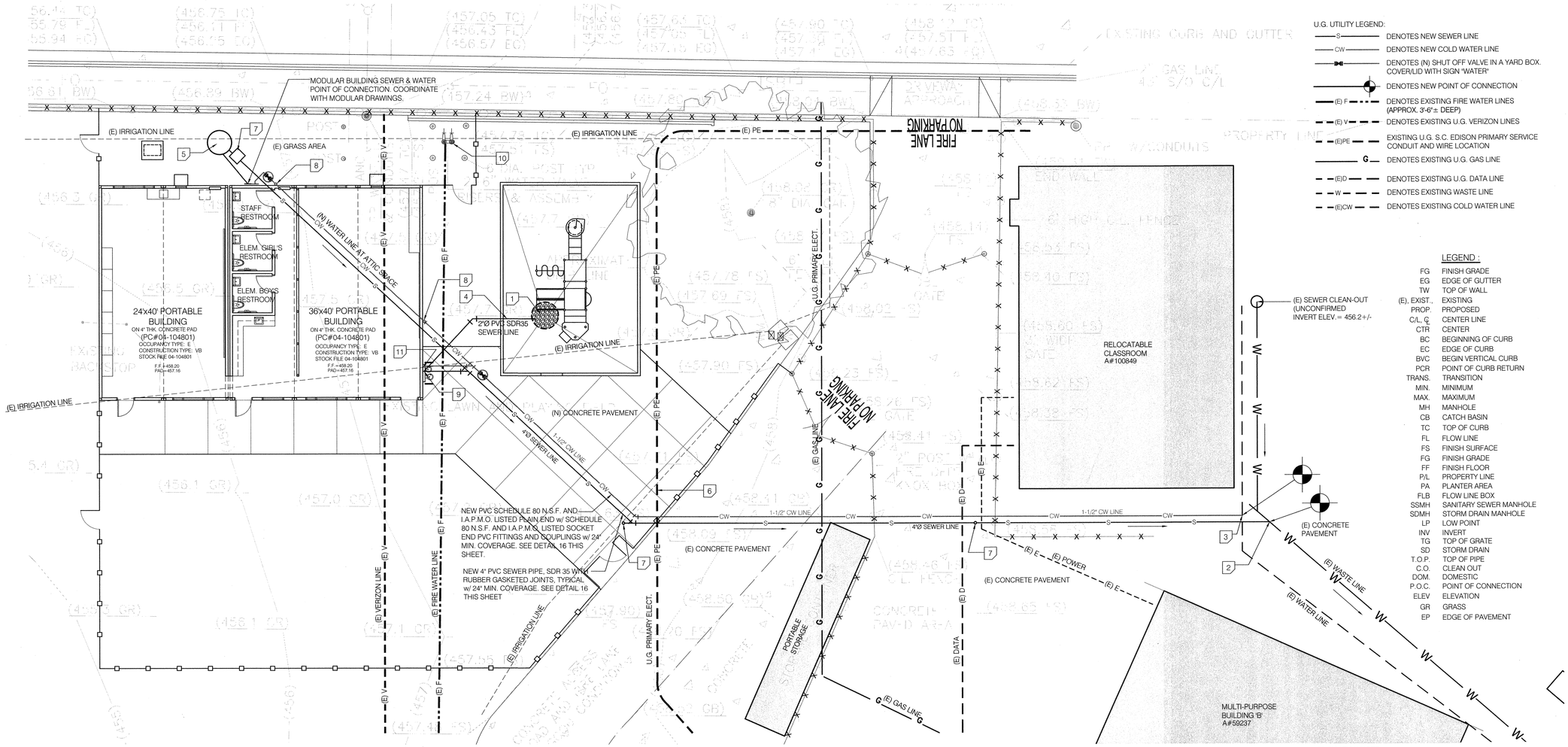
Sheet Title
FOUNDATION PLAN
TYPICAL DETAILS

Designed:
Drawn:
Checked:
Plot Date: 9.26.2017
Filename: covina

Drawing No. C2
Sheet No. of

RELOCATION OF PORTABLE CLASSROOM BUILDING

ALL DRAWINGS AND WRITTEN MATERIAL APPEARING HEREIN CONSTITUTE THE ORIGINAL AND UNPUBLISHED WORK OF THE ARCHITECT AND THE SAME MAY NOT BE DUPLICATED, USED OR DISCLOSED WITHOUT THE WRITTEN CONSENT OF THE ARCHITECT.



U.G. UTILITY LEGEND:

- S — DENOTES NEW SEWER LINE
- CW — DENOTES NEW COLD WATER LINE
- DENOTES (N) SHUT OFF VALVE IN A YARD BOX. COVER/LID WITH SIGN "WATER"
- DENOTES NEW POINT OF CONNECTION
- (E) F — DENOTES EXISTING FIRE WATER LINES (APPROX. 3'-6"± DEEP)
- (E) V — DENOTES EXISTING U.G. VERIZON LINES
- (E)PE — EXISTING U.G. S.C. EDISON PRIMARY SERVICE CONDUIT AND WIRE LOCATION
- G — DENOTES EXISTING U.G. GAS LINE
- (E)D — DENOTES EXISTING U.G. DATA LINE
- W — DENOTES EXISTING WASTE LINE
- (E)CW — DENOTES EXISTING COLD WATER LINE

LEGEND :

FG	FINISH GRADE
EG	EDGE OF GUTTER
TW	TOP OF WALL
(E), EXIST.,	EXISTING
PROP.	PROPOSED
C/L, ℄	CENTER LINE
CTR	CENTER
BC	BEGINNING OF CURB
EC	EDGE OF CURB
BVC	BEGIN VERTICAL CURB
PCR	POINT OF CURB RETURN
TRANS.	TRANSITION
MIN.	MINIMUM
MAX.	MAXIMUM
MH	MANHOLE
CB	CATCH BASIN
TC	TOP OF CURB
FL	FLOW LINE
FS	FINISH SURFACE
FG	FINISH GRADE
FF	FINISH FLOOR
P/L	PROPERTY LINE
PA	PLANTER AREA
FLB	FLOW LINE BOX
SSMH	SANITARY SEWER MANHOLE
SDMH	STORM DRAIN MANHOLE
LP	LOW POINT
INV	INVERT
TG	TOP OF GRATE
SD	STORM DRAIN
T.O.P.	TOP OF PIPE
C.O.	CLEAN OUT
DOM.	DOMESTIC
P.O.C.	POINT OF CONNECTION
ELEV	ELEVATION
GR	GRASS
EP	EDGE OF PAVEMENT

P-LINE CONSULTING
20803 e. valley blvd., ste. 206
walnut, ca 91789
■ c: 714.747.7263
■ f: 909.839.0123
■ e: leny@plineconsulting.com
Leny F. Gallego
Principal

LICENSED ARCHITECT — LENY PEDRO ALMEREN — No. C-22914 — EXP. 3/31/19 RENEWAL DATE — STATE OF CALIFORNIA

CONSULTANT

D.S.A. STAMP
DSA FILE NO. 19-25
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APPL. 03-118460
AC — FLS — SS DB
DATE SEP 27 2017

THE ILLUSTRATIONS INDICATED ON THIS SHEET ARE TO REPRESENT THE ARCHITECTURAL DESIGN CONCEPT OF THE PROJECT ONLY. THE DIMENSIONS OF THE BUILDING, THE ELECTRICAL ELEMENTS, AND THE TYPE OF STRUCTURAL, MECHANICAL, AND/OR ELECTRICAL SYSTEMS REPRESENTED DO NOT NECESSARILY PROVIDE THE FULL DESCRIPTION OF THE WORK REQUIRED FOR THE PERFORMANCE OF ALL ACTIVITIES TO COMPLETE THE INSTALLATION. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL MATERIALS AND LABOR REQUIRED FOR THE PROPER EXECUTION OF THE CONTRACT DOCUMENTS CONSISTENT WITH ALL APPLICABLE CODES AND ACCEPTABLE CONSTRUCTION PRACTICES.

Revision(s)	Date
No.	Remarks

Project Title:
RELOCATION @
1-36' x 40', 1-24' x 40'
PORTABLE CLASSROOM BUILDING
(PC A#04-104801)

To:
GROVECENTER
ELEMENTARY SCHOOL

Owner:
COVINA-VALLEY
UNIFIED SCHOOL DISTRICT

Project Address:
775 N. LARK ELLEN AVE.
WEST COVINA, CA 91791
T.626.974.4400

Project Tracking No.
64436-177

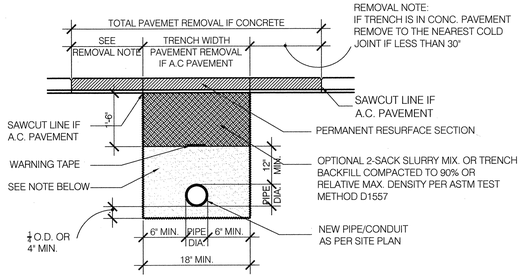
Project No.
CVUSD_GES81517

Sheet Title
WASTE AND WATER LINES
TYPICAL DETAILS

Designed:
Drawn:
Checked:
Plot Date: 9.26.2017
Filename: covina

Drawing No.
C3
Sheet No. of

RELOCATION OF PORTABLE CLASSROOM BUILDING



A. PROVIDE THE FOLLOWING BACK FILL MATERIALS IN UTILITY TRENCH:

ON-SITE, GRANULAR, LOW-EXPANSIVE FILL SOIL FREE OF VEGETATION, ORGANIC MATERIAL, DEBRIS AND OTHER DELETERIOUS MATERIAL COMPLYING WITH THE FOLLOWING CRITERIA:
1. LIMIT MAXIMUM DIMENSION OF ROCK TO 3 INCHES IN ANY DIMENSION AT ALL TIMES, UNLESS NOTED OTHERWISE SPECIFIED.
2. LIMIT MAXIMUM DIMENSION OF ROCK TO 1 INCH IN ANY DIMENSION AT ALL FILLS LOCATED IN LANDSCAPE AREAS WITHIN 12 INCHES OF SURFACE.
3. PROVIDE SOIL FILL WITH NO MORE THAN 30 PERCENT PASSING THE #200 SIEVE.
4. PROVIDE SOIL FILL WITH NO MORE 40 PERCENT BY WEIGHT MATERIAL SMALLER THAN ¼ INCH.
5. OVERSIZE ROCK: DEFINED AS MATERIAL LARGER THAN 12 INCHES IN MAX. DIMENSION.

B. PROVIDE THE FOLLOWING BEDDING MATERIALS IN UTILITY TRENCH:

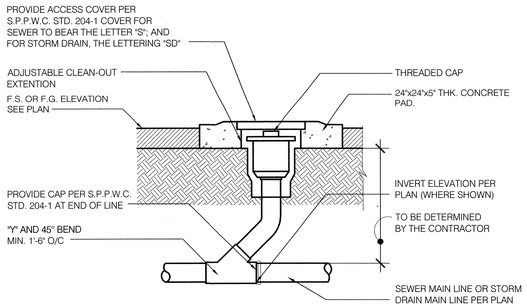
BANK SAND; FREE OF SILT, CLAY, LOAM FRIABLE OR SOLUBLE MATERIALS, OR ORGANIC MATTER: MAXIMUM PARTICLE SIZE AND VOLUME OF 12" AND 18 PERCENT RESPECTIVELY, THE MAXIMUM SAND EQUIVALENT VALUE OF CALIFORNIA TEST METHOD 217.

C. INSTALL DETECTOR TAPE FOR ALL NON-FERROUS PIPING

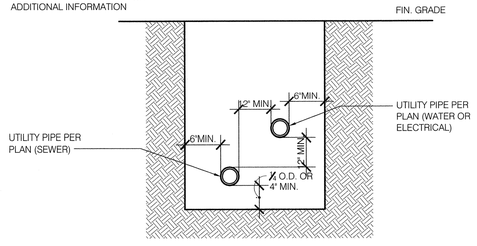
16 SINGLE UTILITY TRENCH BACKFILL
SCALE: 1/2"

WARNING
EXCAVATE & DEMOLISH WITH EXTREME CARE!
THE ARCHITECTS AND ENGINEERS DO NOT KNOW THE LOCATIONS OF ALL EXISTING UTILITY LINES AND EQUIPMENT. ANY SUCH WORK ON THE DRAWINGS IS SCHEMATIC AND IS FOR REFERENCE ONLY. BEWARE OF LINES VISIBLE AND CONCEALED. LOCATE AND USE DISCONNECTS AS REQUIRED FOR SAFETY. DO NOT COMMENCE WITH WORK UNTIL SAFE TO DO SO, THEN PROCEEDS WITH CAUTION.

CALL BEFORE YOU DIG
Under ground Service Alert of Southern California
Call: TOLL FREE 1-800 227-2600
TWO WORKING DAYS BEFORE YOU DIG



12 SEWER/STORM DRAIN CLEAN-OUT
SCALE: 1" = 1'-0"



8 DETAIL FOR SEPARATION OF UTILITIES PLACE IN COMMNON TRENCH
SCALE: 1" = 1'-0"

NORTH
7 WATER AND SEWER LINE
SCALE: 1" = 10'

CONTRACTOR TO VERIFY THE SITE CONDITION FOR THE INSTALLATION OF MODULAR BUILDING, NEW A.C. PAVEMENT & NEW UNDERGROUND AND OVERHEAD LINE AND CONSIDER ON HIS/HER BID INCLUDING ANY DAMAGE THAT WILL OCCUR DURING CONSTRUCTION MUST BE REPAIRED AND/OR REPLACED BY THE CONTRACTOR.

FIELD VERIFICATION NOTE:

THE CONTRACTOR SHALL INCLUDE IN THE CONTRACT AMOUNT, THE COSTS INVOLVED IN VERIFYING THE EXACT LOCATIONS OF UNDERGROUND UTILITY LATERAL LINES, POINTS OF CONNECTION, EXISTING INVERT ELEVATIONS, ETC. CONTRACTOR SHALL POT-HOLE AS REQUIRED. THE DRAWINGS SHOW APPROXIMATE LOCATIONS BASED ON THE AVAILABLE INFORMATION.

NOTE:

POTHOLE AND FIELD VERIFY THE EXACT LOCATION OF EXISTING UTILITY FOR TIE-IN.

GENERAL NOTES:

THESE DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC, DEFECTING FUNCTION AND PLACEMENT. PROVIDE OFFSETS IN PIPING AND CHANGES IN LOCATION AS NECESSARY TO CONFORM TO STRUCTURAL AND ARCHITECTURAL; REQUIREMENTS TO AVOID OBSTRUCTION. CHANGES TO ACCOMMODATE INSTALLATION OF THIS WORK WITH OTHER WORK, IN ORDER TO MEET ARCHITECTURAL OR STRICTURE CONDITIONS, SHALL MADE WITHOUT ADDITIONAL COAST TO THE OWNER.

REFERENCE NOTES: (NOTE: ALL ITEMS ARE NEW UNLESS NOTED OTHERWISE)

1. 5'-0" DIA. x 5'-0" DEEP DRYWELL WITH ¾" MIN. CRUSHED ROCKS. COORDINATE LOCATION FOR THE PLACEMENT OF THE PLAYGROUND EQUIPMENT.
2. SEWER LINE POINT OF CONNECTION. FURNISH AND INSTALL ALL NECESSARY FITTINGS TO MAKE THE CONNECTION
3. WATER LINE POINT OF CONNECTION. FURNISH AND INSTALL ALL NECESSARY FITTINGS TO MAKE THE CONNECTION
4. ALTERNATE DRINKING FOUNTAIN WASTE LINE TO BE CONNECTED TO NEW DRYWELL (ADD ALTERNATE NO. 1)
5. LOCATION OF SEWAGE PUMP EJECTOR BY WEIL PUMP COMPANY MODEL 2436 GRINDER PUMPS w/ 2613-2 GUIDE RAIL SYSTEM, SCHEDULE 30 CAST IRON PUMPCASING, END BELL AND IMPELLER. (ADD ALTERNATE NO. 1) SEE SHEET C3.1 FOR DETAILS. REFER TO ELECTRICAL DRAWINGS FOR POWER REQUIREMENTS. CONTRACTOR TO PROVIDE ALL NECESSARY COMPONENTS FOR A WORKING SYSTEM.
6. (E) EDISON PRIMARY U.G. CONDUIT HIGH VOLTAGE FEEDING THE MAIN TRANSFORMER
7. CONCRETE VALVE BOX WITH VALVES AND COVER.
8. WATER LINE ALONG (E) MODULAR BUILDING EXTERIOR WALL GOING TO ATTIC SPACE. PROVIDE NECESSARY WALL PENETRATION CAULKING FOR A WATERTIGHT FINISH.
9. HAWS 1119 "HI-LO" WALL MOUNTED BARRIER FREE DRINKING FOUNTAIN, DUAL HEIGHT ASSEMBLY WITH HEAVY GAUGE NO. 4 SATIN FINISH RECEPTOR. VANDALPROOF BOTTOM PLATE, STRAINER w/ AUTOMATIC STREAM CONTROL, SELF-CLOSING VALVES CONTROL, ½" SCREWDRIVER STOP, COPPER TUBING w/ COMPRESSION FITTINGS, MODEL 6700.4 MOUNTING PLATE, VANDALPROOF RECEPTOR MOUNTING, 1-1/2" CAST BRASS, L.A. "P" TRAP.PROVIDE NECESSARY CONNECTION FITTINGS FOR WASTE AND WATER LINE.
10. EXISTING 6" DIA. WATER VALVE RISERS AND ASSEMBLY. PROTECT IN PLACE DURING CONSTRUCTION
11. PROVIDE HOSE BIBB UNDERNEATH THE D.F. BY ACORN MODEL # 8121 CARTRIDGE OPERATED HOSE VALVE WITH VACUUM BREAKER, LOCK SHIELD BONNET AND REMOVABLE KEY HANDLE. VALVE SHALL BE ROUGH CHROME PLATED FINISH.

DSA SUBMITTAL DATE: 9.26.2017

WEIL 2-Inch Submersible Grinder Pump 2436

Heavy duty pump for commercial and industrial applications.
Solids are reduced to a 3/8 inch diameter or less.

Pump Type	Grinder
Disch. Size	2 Inch
Disch. Type	ANSI
Mounting Style	2613 Removal

Pump
Case - Cast Iron
Impeller - Cast Iron
Rotating Cutter - 440C Stainless Steel
Rockwell 58C
Shredder Ring - 440C Stainless Steel
Rockwell 58C
Stainless Steel Hardware

Motor
Single Seal
- Carbon against Ceramic

Air-Filled Hermetically Sealed
Shaft - Stainless Steel Series 300
Motor Shell - Cast Iron
Insulation - Class F
Ball Bearings - 2 - Double Sealed
Power Cable Length - 20 ft
Three-phase motor
- 1750 RPM
- 60 Hz, 208-230 or 460 volts

Single-phase capacitor start motor
- 1750 RPM
- 60 Hz, 115 or 208-230 volts
- Automatic reset thermal and overload protection

Options
Bronze Impeller
Additional Power Cable Lengths
High Temperature Motor
Stainless Steel Lifting Cable

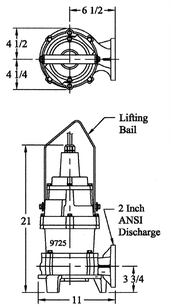
Capacities - Wet Wells

Dia or Side Inches	Gallons per Foot of Depth Round	Square
18	13	17
24	24	30
30	37	47
36	53	67
48	94	120
60	147	187
72	212	269

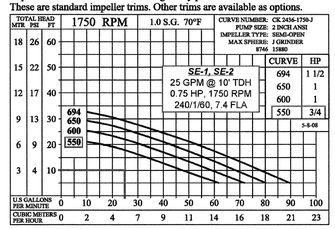
Flow - To prevent solids from settling out

Discharge Pipe Size Dia Inches	Minimum Flow GPM
1 1/2	15
2	25
3	50

Good wet well design
Maximum 10 starts per hour.
Minimum run time - 1 1/2 minutes.



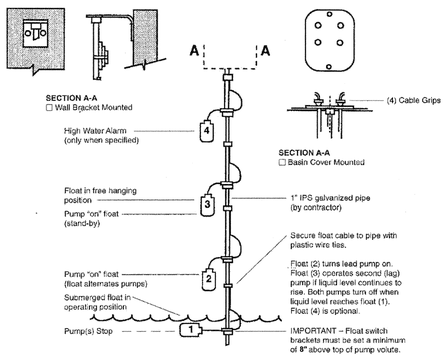
Impeller curves are Non-Overloading at any point on curve.
These are standard impeller trims. Other trims are available as options.



SN-2436-A-6 X Replaces SN-2436, Sept 1, 2012 SN-2436 JULY 1, 2015 2436

weil aquatronics
Engineered Pumps
and Hydronic Equipment

MECHANICAL FLOAT SWITCH INSTALLATION INSTRUCTIONS
DUPLEX - 4 FLOATS



In determining the correct spacing of the float switches, please follow these steps:

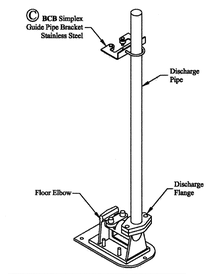
1) Set switch (4) "high water alarm" level with lowest inlet.
2) Float switch (3) "standby" should be set directly below (4), with the floats at least 90 degrees apart to prevent the lower switch from hitting the upper one as it rises with the liquid.
3) Switch (2) "pump on" should be set 3"-4" below switch (3).
4) Switch (1) "pumps stop" must be set a minimum of 8" above the top of the pump volute.
5) Check complete installation to see that none of the switches hit wall, pumps, piping or valves. This check should be made with the switches in both "on" and "off" position.

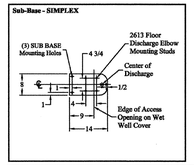
NOTE: Float switches are not to be installed evenly spaced as shown. Spacing between floats 1 and 2 determine pump run time (should be at least 2 minutes).

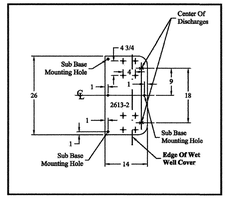
QUESTIONS? Call 1-800-74-PUMPS

WEIL 2 Inch Removal System 2613-2

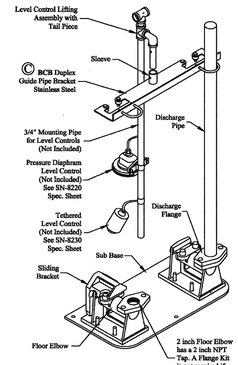
BCB - Simplex







BCB - Duplex



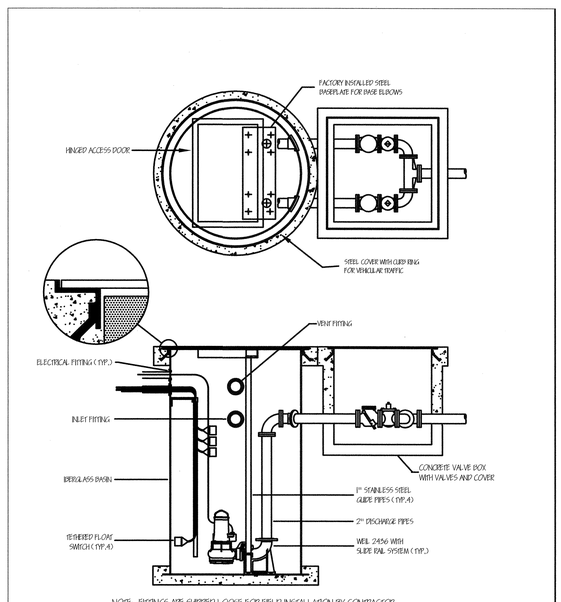
Sub Base for Duplex Installations
Steel galvanized sub base with stainless steel studs is used to locate and install the 2613 discharge floor elbows in a wet well. Mounting locations match standard Weil 8804/8815 wet well covers. Three 9/16 holes for bolting to the wet well floor. Waterproof adhesive 3M Marine 5200 could be used instead of bolting.

Order Number	Style	Stud Size	Min. Wet Well Diameter
2613K602	Simplex	1/2"	24"
2613K501	Duplex	1/2"	36"

Level Control Lifting Assembly
(Duplex BCB systems only)
Does not include level control switches or mounting pipe.
See SN-8220 and SN-8230

Order Number	
2613K801	Level Control Lifting Assembly with Tailpiece

SN-2613-2-P1-R3

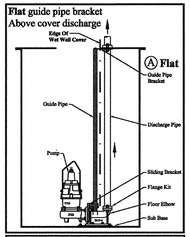


NOTE: FITTINGS ARE SHIPPED LOOSE FOR FIELD INSTALLATION BY CONTRACTOR

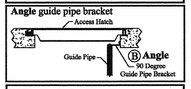
PROJECT:	weil aquatronics, Engineered Pumps and Hydronic Equipment, Phone: 800-747-8677 Fax: 818-247-0083
ITEM:	
ENGINEER:	
CONTRACTOR:	DWG.#: DR.BY: RP DATE: 5.15.12 SCALE: NTS

WEIL 2 Inch Removal System 2613-2

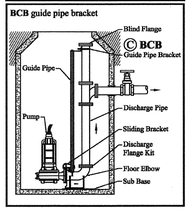
Flat guide pipe bracket
Above cover discharge



Angle guide pipe bracket



BCB guide pipe bracket



Discharge Flange Kit - For Floor Elbow
Includes - Flange, Gasket and Hardware
Weil = 2 bolt oval configuration

Order Number	Pipe Type	Flange Type
2613K102	Threaded	Weil
2613K202	Plain End	Weil

Intermediate Guide Pipe Bracket:

205.666.002	Intermediate Guide Pipe Bracket

System Includes:
- Discharge Floor Elbow - one
- Sliding Bracket - one
  - Iron or
  - Bronze for use with Explosion Proof Motors
- Guide Pipe Bracket - one
  - Ⓐ- Flat (cover mount) - bolts to wet well cover or
  - Ⓑ- Angle 90° (side mount) bolts to vertical side wall or
  - Ⓒ- BCB Bracket - mounts to discharge pipe

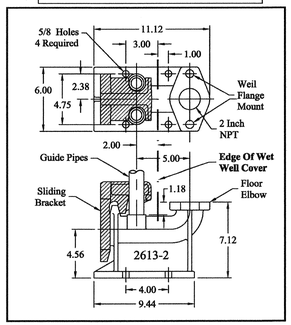
Not Included:
- Discharge Pipe, Guide Pipe - 1 inch schedule 40 & Flange Kit

Options:
- Discharge Flange Kit for Floor Elbow
- Intermediate Guide Pipe Bracket
- Sub Base for Floor Elbow
- Level Control Lifting Assembly for BCB Duplex Bracket

Removal System:

Simplex				
Order Number	Sliding Bracket	Guide Pipe Bracket	Mount Type	Weight Lbs.
2613K1021	Iron	Flat	Cover	42
2613K5013	Iron	Angle	Side	42
2613K2021	Bronze	Flat	Cover	42
2613K6032	Bronze	Angle	Side	42
2613K3021	Iron	BCB	Pipe	42
2613K4021	Bronze	BCB	Pipe	42

Duplex - BCB System				
Order Number	Sliding Bracket	Guide Pipe Bracket	Mount Type	Weight Lbs.
2613K7021	Iron	Pipe	BCB	84
2613K7031	Bronze	Pipe	BCB	84



SN-2613-2-P1-R3

MANUFACTURER:WEIL PUMP COMPANY

MODEL:2436 GRINDER PUMPS WITH 2613-2 GUIDE RAIL SYSTEM, SCH 30 CAST IRON PUMP CASING, END BELL AND IMPELLER

CAPACITY / HEAD (EA.):25 GPM / 10' TDH

MOTORS:0.75 HP / 1750 RPM, AIR-FILLED, CLASS F INSULATION, MECHANICAL SEALS, SEALED UPPER & LOWER HEAVY-DUTY BALL BEARINGS, SOLID AISI 304 STAINLESS STEEL SHAFT.

POWER SUPPLY:230/1/60 (VERIFY)

LEVEL SENSORS:FOUR WEIL 8230 UL LISTED NON-MERCURY FLOAT SWITCHES

CONTROLS:WEIL MODEL 8167, UL LISTED DUPLEX PUMP CONTROL PANEL WITH DOUBLE DOOR DEAD FRONT NEMA 4 STEEL ENCLOSURE, TEST-OFF-AUTOMATIC SELECTOR SWITCHES, ALTERNATOR, RUN LIGHTS, CONTROL POWER AND MOTOR OVERLOAD INDICATORS, STARTERS, DISCONNECT SWITCHES, RUN TIME METERS, VISUAL & AUDIBLE HIGH WATER ALARM, ALARM DOME LIGHT, REMOTE CONTACTS FOR BACS

BASIN:36" X 6'-0" DEEP FIBERGLASS, WITH STEEL MOUNTING STUDS FOR QUICK REMOVE BASE ELBOWS

COVER:AUTOMOBILE TRAFFIC WEIGHT STEEL, WITH FRAME, HINGED ACCESS OPENING, AND UPPER GUIDE RAIL BRACKETS, BITUMASTIC COATED ON BOTH SIDES, GASTIGHT (FURNISHED BY PUMP SUPPLIER)

REMARKS:CONTRACTOR SHALL PROVIDE SCHEDULE 40 STAINLESS STEEL PIPE FOR GUIDE RAILS AS SPECIFIED BY THE MANUFACTURER

2.XX DUPLEX SUBMERSIBLE PUMPS (SE-1)

A. DUPLEX SUBMERSIBLE GRINDER PUMPS
1. WEIL SERIES 2436 WITH 2613-2 QUICK REMOVE SYSTEM, OR PRE-APPROVED EQUAL.
2. PUMP CASING, END BELL AND MOTOR SHELL: SCH 30 CAST IRON.
3. IMPELLER: SEMI-OPEN TYPE, CAST IRON.
4. GRINDER ASSEMBLY:
   a. CUTTER: 17-4 PH SUPER HARD STAINLESS STEEL.
   b. SHREDDING RING: 17-4 PH SUPER HARD STAINLESS STEEL, FIELD REVERSIBLE (NO SPECIAL TOOLS SHALL BE REQUIRED).
5. MOTOR:
   c. FOUR POLE, AIR-FILLED, CLASS F INSULATION, SEALED UPPER AND LOWER HEAVY-DUTY BALL BEARINGS.
   d. MOTORS THAT DEPEND ON OIL FOR BOTH COOLING AND LUBRICATION WILL NOT BE CONSIDERED EQUAL OR ACCEPTABLE.
   e. SOLID AISI 300 SERIES STAINLESS STEEL SHAFT.

B. QUICK REMOVE GUIDE RAIL SYSTEM:
1. CAST IRON STATIONARY DISCHARGE ELBOWS AND MOVABLE DISCHARGE FITTINGS.
2. STAINLESS STEEL LIFTING CABLES AND ALL FITTINGS.

C. BASIN, COVER:
1. HEAVY-DUTY FIBERGLASS, MANUFACTURED TO NATIONAL BUREAU OF STANDARDS PS-15-69 AND ASTM-D-4097 REQUIREMENTS; SIZE AND OPENINGS PER PLANS.
2. REINFORCE FOR HIGH WATER TABLE (IF REQUIRED).
3. STAINLESS STEEL MOUNTING STUDS FOR QUICK REMOVE BASE ELBOWS.
4. AUTOMOBILE TRAFFIC WEIGHT HEAVY-DUTY STEEL COVER AND CURB FRAME, WITH HINGED ACCESS OPENING, UPPER GUIDE RAIL BRACKETS, GASTIGHT.
5. COVER AND FRAME TO BE COATED ON BOTH SIDES WITH KOPPERS BITUMASTIC (OR EQUIVALENT).

D. PILOT CONTROLS: FOUR (4) WEIL 8230 UL LISTED NON-MERCURY FLOAT SWITCHES, COMPLETE WITH SWITCH MOUNTING BRACKET.

E. CONTROL PANEL:
1. WEIL 8167, UL 508 LISTED AND LABELED.
2. NEMA 4 STEEL, DOUBLE DOOR DEAD FRONT ENCLOSURE, WITH PADLOCKING HASP.
3. LIGHTS, HOUR METER, SWITCHES, AND TEST BUTTONS MOUNTED ON INNER PANEL DOOR.
4. ONE LOCKABLE PANEL DISCONNECT; THROUGH-THE-DOOR WITH DOOR INTERLOCK ON INNER DOOR.
5. ELECTRIC ALTERNATOR, INDUSTRIAL DUTY CONTACTORS, LOCKABLE PUMP DISCONNECTS.
6. AMBIENT COMPENSATED BI-METALLIC (CLASS 10) MOTOR OVERLOAD CIRCUIT PROTECTORS.
7. CONTROL TRANSFORMER WITH FUSED PRIMARY AND FUSED SECONDARY.
8. TOA (TEST- OFF-AUTOMATIC) SWITCHES WITH SPRING RETURN TO OFF FROM TEST.
9. PUMP RUN, CONTROL POWER, HIGH WATER, AND OVERLOAD LIGHTS RATED FOR 100,000 HOURS.
10. NON-RESETTING PUMP RUN TIME METERS.
11. PUMP RUN STATUS AND TWO ISOLATED ALARM CONTACTS FOR REMOTE ANNUNCIATION.
12. HIGH WATER ALARM SYSTEM:
   a. HWA TEST-AUTO-SILENCE SWITCH WITH SPRING RETURN FROM TEST AND SILENCE POSITION, 95DB PIEZO BUZZER, MOUNTED ON DOOR.
   b. TWO ISOLATED CONTACTS FOR REMOTE MONITORING.
   c. ALARM CIRCUIT MAY BE FIELD MODIFIED TO USE SEPARATE 115-VOLT AC EXTERNAL POWER SOURCE.
13. ALARM DOME LIGHT - LEXAN, RED FLASHING ON TOP OF ENCLOSURE. LIGHT INDICATES A MOTOR OVERLOAD OR HIGH WATER ALARM CONDITION. LIGHT REMAINS ON UNTIL CONDITION IS CORRECTED.

F. GATE AND SWING CHECK VALVES FOR EACH PUMP SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR.
1. GATE VALVES:
   a. GATE VALVES SHALL BE DOUBLE DISC, PARALLEL SEAT VALVES MEETING OR EXCEEDING ALL REQUIREMENTS OF AWWA C-500 SPECIFICATIONS.
   b. VALVES SHALL HAVE CLEAR WATERWAY EQUAL TO THE FULL NOMINAL DIAMETER OF THE VALVE.
2. CHECK VALVES:
   a. CHECK VALVES SHALL BE ALL IRON BODY, BRONZE MOUNTED, FULL OPENING SWING TYPE.
   b. VALVE DISC SHALL SWING COMPLETELY CLEAR OF THE WATERWAY WHEN VALVE IS FULL OPEN, PERMITTING A "FULL FLOW" THRU THE VALVE EQUAL TO THE NOMINAL PIPE DIAMETER.
   c. VALVES SHALL COMPLY WITH AWWA STANDARD C-508 LATEST REVISION.

G. INSTALLATION:
1. CONTRACTOR TO DELIVER BASIN, FRAME AND COVER FOR INSTALLATION BY THE CONCRETE TRADES PER MANUFACTURER'S INSTRUCTIONS; NO PORTION OF BASIN SHALL CONTACT FRAME OR COVER.
2. BASIN TO BE CLEANED THOROUGHLY, WITH ALL WATER AND DEBRIS REMOVED PRIOR TO INSTALLING PUMPS.
3. MOUNTING: PUMP DISCHARGE ELBOWS SHALL BE MOUNTED ON BASIN FLOOR, AND GUIDE RAIL PIPES INSTALLED AS RECOMMENDED BY MANUFACTURER.
4. DISCHARGE PIPING SHALL EXTEND THROUGH SIDE OF BASIN, AND CONNECT TO VALVES AS SHOWN ON PLANS.
5. COORDINATE LOCATION AND WIRING OF PUMPS, FLOAT SWITCHES, AND CONTROL PANEL WITH ELECTRICIAN.
6. ELECTRICAL CONTRACTOR TO PROVIDE SEPARATE CONDUIT FOR POWER CABLES. ALL CONDUIT AND FITTINGS TO BE WATERTIGHT; SEALING CONDULETS TO BE INSTALLED AT ALL CONTROL PANEL PENETRATIONS.
7. MANUFACTURER'S REPRESENTATIVE SHALL PROVIDE START-UP SERVICE AND OWNERS' INSTRUCTION.

ADD ALTERNATE No. 1

DSA SUBMITTAL DATE: 9.26.2017

ALL DRAWINGS AND WRITTEN MATERIAL APPEARING HEREIN CONSTITUTE THE ORIGINAL AND UNPUBLISHED WORK OF THE ARCHITECT AND THE SAME MAY NOT BE DUPLICATED, USED OR DISCLOSED WITHOUT THE WRITTEN CONSENT OF THE ARCHITECT.

P-LINE CONSULTING
20803 e. valley blvd., ste. 206
walnut, ca 91789
c: 714.747.7263
f: 909.839.0123
e: leroy@plineconsulting.com
Leroy F. Gallego
Principal

LICENSED ARCHITECT LEROY PEDRO GALLEGO C-22914 EXP. 3/31/19 RENEWAL DATE STATE OF CALIFORNIA

CONSULTANT

D.S.A. STAMP
DSA FILE NO. 19-25
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APPL. 03- 118460
AC YS ELS SS TB
DATE SEP 27 2017

THE ILLUSTRATIONS INDICATED ON THIS SHEET ARE TO REPRESENT THE ARCHITECTURAL DESIGN CONCEPT OF THE PROJECT ONLY. THE DIMENSIONS OF THE BUILDING, THE ELECTRICAL ELEMENTS, AND THE TYPE OF STRUCTURAL, MECHANICAL, AND/OR ELECTRICAL SYSTEMS REPRESENTED DO NOT NECESSARILY PROVIDE THE FULL DESCRIPTION OF THE WORK REQUIRED FOR THE PERFORMANCE OF ALL ACTIVITIES TO COMPLETE THE INSTALLATION. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL MATERIALS AND LABOR REQUIRED FOR THE PROPER EXECUTION OF THE CONTRACT DOCUMENTS CONSISTENT WITH ALL APPLICABLE CODES AND ACCEPTABLE CONSTRUCTION PRACTICES.

Revision(s)	Date
No. Remarks	

Project Title:
RELOCATION of
1-36' x 40', 1-24' x 40'
PORTABLE CLASSROOM BUILDING
(PC A#04-104801)

To:
GROVECENTER
ELEMENTARY SCHOOL

Owner:
COVINA-VALLEY
UNIFIED SCHOOL DISTRICT

Project Address:
775 N. LARK ELLEN AVE.
WEST COVINA, CA 91791
T.626.974.4400

Project Tracking No.
64436-177

Project No.
CVUSD_GES81517

Sheet Title
SEWAGE PUMP TYP. DETAILS & SPECIFICATIONS

Designed:
Drawn:
Checked:
Plot Date: 9.26.2017
Filename: covina
Drawing No. C3.1
Sheet No. of

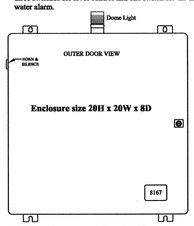
RELOCATION OF PORTABLE CLASSROOM BUILDING

ALL DRAWINGS AND WRITTEN MATERIAL APPEARING HEREIN CONSTITUTE THE ORIGINAL AND UNPUBLISHED WORK OF THE ARCHITECT AND THE SAME MAY NOT BE DUPLICATED, USED OR DISCLOSED WITHOUT THE WRITTEN CONSENT OF THE ARCHITECT.

WEIL Duplex Alternating Pump Control Panel 8167 Duplex

Type 4 Double Door Dead Front Enclosure

- The 8167 Duplex Panel controls two pumps. It is a deluxe full featured panel that includes a high water alarm system, alternator, and a lockable through-the-door disconnect on inner door.
- Type 4 enclosure for indoor or outdoor use. Provides a degree of protection against falling rain, splashing water, and hose-directed water; undamaged by the formation of ice on the enclosure.
- Exceeds Type 1, 3R and 12 requirements.
- Panel can be operated on 50 or 60 Hertz power.
- Select level controls
  - 8213 Lever
  - 8220 Pressure Diaphragm
  - 8230 Tethered
- Requires one 8213 lever or four 8220 or 8230 level switches - three switches for level control and one switch for the high water alarm.



Control Panel Selection Guide
- Determine Phase and Voltage
- Determine maximum run current in amps required by the pump motor.

Panel Includes
- U/L Listed Label
- LED Lights, hour meter, switches, and test buttons are mounted on inner door.
- One lockable panel disconnect; through-the-door with door interlock on inner door. The mechanical interlock prevents the door from being opened when the disconnect is in the ON position. Lock is not provided.
- Padlocking hasp - on outer door, padlock not included.
- Two lockable pump disconnects, on motor overload protector. Lock is not provided.
- Electric Alternator has a 3 position selector switch; that locksthe pumps. in Auto, Pump 1-2 or Pump 2-1 sequencing.
- Two contactors-Industrial duty.
- Two Overloads - one per pump. Ambient compensated bi-metalic (Class 10) motor overload circuit protector. Instantaneous magnetic for short circuit protection. Single-phase ptotection for three-phase motors. Field adjustable within the amp range.
- Control transformer with fused primary and secondary on all three-phase and single-phase 208 and 230-volt. Single-phase 115-volt has a fused control circuit.
- Pump run switches - one per pump. Three position TOA (test-off-automatic) with spring return to off from test.
- Green lights (2) indicates power to pump motors.
- White light indicates control power on.
- Red overload lights (2) indicates motor overload condition and pump is off. Light remains on and pump remains off until reset.
- Hour meters (2). Non resetting meter indicates total pump run time.
- General alarm fault and pump run status isolated contacts.
- High Water Alarm System Type 4x. Hold finger over hole of horn for 1-2 seconds and remove to silence horn (95 dB).
  - Red HWA light and alarm test button on inner door.
  - Two isolated contacts for remote monitoring and/or to use as a connection to a phone dialer.
- Alarm LED Dome Light - Lexan, red flashing on top of enclosure. Light indicates a general fault condition; overload & high water. Light remains on until condition is corrected.
- Control Terminal board, numbered and wired.
- Layout and schematic CAD diagrams are provided. Installer connections at terminal board are clearly marked.

Motor Protrector Amp Range	Order Number: Single-Phase 115 Volts	Single-phase 208 or 230 Volts	Three-Phase 208, 230,460 Volts	Approx. Weight Lbs.
1.0 - 1.6	8167-L-016	8167-D-016	8167-T-016	73
1.6 - 2.5	8167-L-025	8167-D-025	8167-T-025	73
2.5 - 4.0	8167-L-040	8167-D-040	8167-T-040	73
4.0 - 6.3	8167-L-063	8167-D-063	8167-T-063	73
6.3 - 10.0	8167-L-100	8167-D-100	8167-T-100	73
10.0 - 16.0	8167-L-160	8167-D-160	8167-T-160	73
16.0 - 20.0	8167-L-200	8167-D-200	8167-T-200	75
20.0 - 25.0	8167-L-250	8167-D-250	8167-T-250	75
*25.0 - 32.0	8167-L-320	8167-D-32.0	8167-T-32.0	88
*32.0 - 40.0	8167-L-40.0	8167-D-40.0	8167-T-40.0	88
*40.0 - 50.0	8167-L-50.0	8167-D-50.0	8167-T-50.0	98

*Includes 2nd disconnect and larger enclosure

How to Order: Specify the Order Number, System Phase and Voltage, and Pump Motor HP.
F.O.B. Cedarburg (Milwaukee), Wisconsin

SN-8167-P-2

R Replaces SN-8167, June 1, 2014 D-35 SN-8167 MARCH 1, 2017 8167

WEIL WI 8/1/2017 10:22 AM H8167-T11 Schematic 3 Phase Duplex Panel .dwg

PANEL NAME
PLATE INCLUDES:
-System Voltage
-Motor Amp Range
-MAX Panel Amps
-Phase & HZ.
-Enclosure Type

H4 208V-4H3 230V-4H2

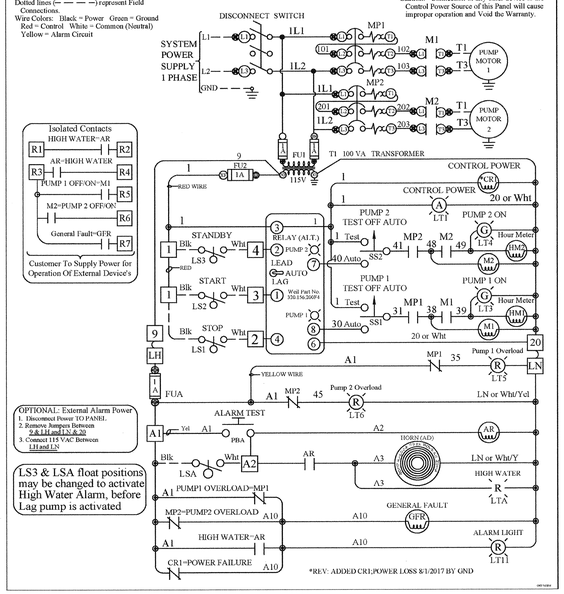
Control Transformer Is Connected For Proper Line Voltage At Factory

When changing panel voltage Connect This Wire To Appropriate Line Voltage Terminal

Installer to Supply Branch Circuit Protection in accordance with NEC and local codes.
Fuses (LP-J or Equivalent) for Branch Circuit Protection 1.2 5 X full load amps of both motors Plus 1 Amp for Control Power

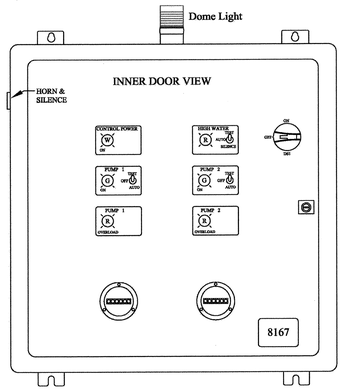
Wires are Individually Numbered.
M1 & M2 = Motor Contactors
MP1 & MP2 = Motor Circuit Protectors
SS1 & SS2 = Spring Return Test To Off
PBA = Alarm Test
= Componenet Coil
= Numbers on Terminal Blocks (TB1 or TB2).
= Numbers on Components.
= Normally Open Contact on Components.
= Normally Closed Contact on Components.
Caution: Connection of any other device to the Control Power Source of this Panel will cause improper operation and Void the Warranty.

Dotted lines (– – – –) represent Field Connections.
Wire Colors: Black = Power Green = Ground
Red = Control White = Common (Neutral)
Yellow = Alarm Circuit



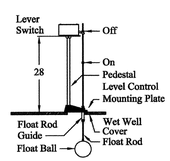
WEIL Duplex Alternating Pump Control Panel 8167 Duplex

Type 4 Double Door Dead Front Enclosure

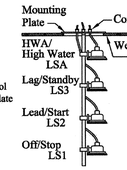


Use any of the three level controls with duplex control panel.

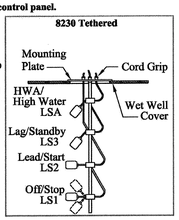
8213 Lever



8220 Pressure Diaphragm



8230 Tethered



8167 MARCH 1, 2017 SN-8167-3

SN-8167-P-3

WEIL CEDA 8/1/2017 10:23 AM H8167-D11 Layout 1-208-230-V Duplex Panel .dwg

PANEL NAME
PLATE INCLUDES:
-System Voltage
-Motor Amp Range
-MAX Panel Amps
-Phase & HZ.
-Enclosure Type

H4 208V-4H3 230V-4H2

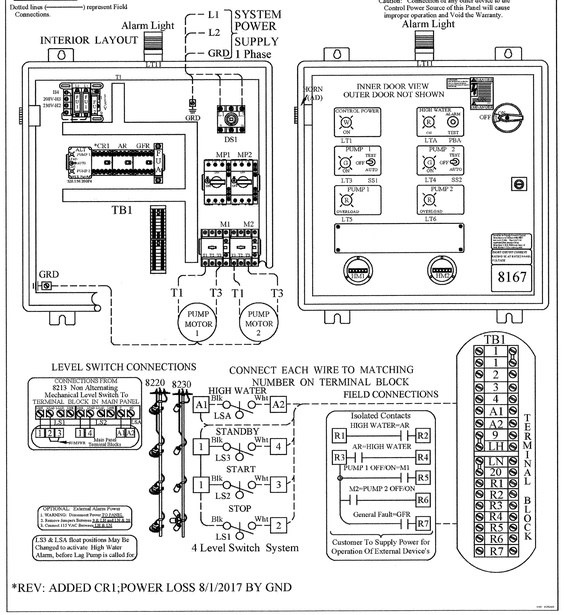
When Changing Panel Voltage, Connect This Wire To Appropriate Voltage Terminal

Control Transformer Is Connected For Proper Line Voltage At Factory

Installer to Supply Branch Circuit Protection in accordance with NEC and local codes.
Fuses (LP-J or Equivalent) for Branch Circuit Protection 1.2 5 X full load amps of both motors Plus 1 Amp for Control Power
Wire Colors: Black = Power Green = Ground
Red = Control White = Common (Neutral)
Yellow = Alarm Circuit

Wires are Individually Numbered.
M1 & M2 = Motor Contactors
MP1 & MP2 = Motor Circuit Protectors
SS1 & SS2 = Spring Return Test To Off
PBA = Alarm Test
= Componenet Coil
= Numbers on Terminal Blocks (TB1 or TB2).
= Numbers on Components.
= Normally Open Contact on Components.
= Normally Closed Contact on Components.
Caution: Connection of any other device to the Control Power Source of this Panel will cause improper operation and Void the Warranty.

Dotted lines (– – – –) represent Field Connections.



*REV: ADDED CR1;POWER LOSS 8/1/2017 BY GND

ADD ALTERNATE No. 1

DSA SUBMITTAL DATE: 9.26.2017

P-LINE CONSULTING
20803 e. valley blvd., ste. 206
walnut, ca 91789
c: 714.747.7263
f: 909.839.0123
e: leny@plineconsulting.com
Leny F. Gallego
Principal

LICENSED ARCHITECT LENY FRANCISCO PEDRO GALLEGO No. C-22914 EXP. 3/31/19 RENEWAL DATE STATE OF CALIFORNIA

CONSULTANT

D.S.A. STAMP
DSA FILE NO. 19-25
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APPL. 03- 118460
AC ERS 2 comp 12
DATE SEP 27 2017

THE ILLUSTRATIONS INDICATED ON THIS SHEET ARE TO REPRESENT THE ARCHITECTURAL DESIGN CONCEPT OF THE PROJECT ONLY. THE DIMENSIONS OF THE BUILDING, THE ELECTRICAL ELEMENTS, AND THE TYPE OF STRUCTURAL, MECHANICAL, AND/OR ELECTRICAL SYSTEMS REPRESENTED DO NOT NECESSARILY PROVIDE THE FULL DESCRIPTION OF THE WORK REQUIRED FOR THE PERFORMANCE OF ALL ACTIVITIES TO COMPLETE THE INSTALLATION. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL MATERIALS AND LABOR REQUIRED FOR THE PROPER EXECUTION OF THE CONTRACT DOCUMENTS CONSISTENT WITH ALL APPLICABLE CODES AND ACCEPTABLE CONSTRUCTION PRACTICES.

Revision(s) Date

No. Remarks

Project Title:
RELOCATION OF
1 (36' x 40', 1 x 40')
PORTABLE CLASSROOM BUILDING
(PC A#04-104801)

To:
GROVECENTER
ELEMENTARY SCHOOL

Owner:
COVINA-VALLEY
UNIFIED SCHOOL DISTRICT

Project Address:
775 N. LARK ELLEN AVE.
WEST COVINA, CA 91791
T.626.974.4400

Project Tracking No.
64436-177

Project No.
CVUSD_GES81517

Sheet Title
SEWAGE PUMP TYP. DETAILS & SPECIFICATIONS

Designed:
Drawn:
Checked:
Plot Date: 9.26.2017
Filename: covina

Drawing No. C3.2

Sheet No. of

RELOCATION OF PORTABLE CLASSROOM BUILDING

APPLICABLE CODES

LIST OF 2016 CALIFORNIA CODE OF REGULATIONS (C.C.R.):

APPLICABLE CODES AS OF JANUARY 1, 2017

PART 1 2016 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE, TITLE 24 C.C.R.

PART 2 2016 CALIFORNIA BUILDING CODE, TITLE 24 C.C.R. (2015 INTERNATIONAL BUILDING CODE OF THE INTERNATIONAL CODE COUNCIL, WITH CALIFORNIA AMENDMENTS)

PART 3 2016 CALIFORNIA ELECTRICAL CODE, TITLE 24 C.C.R. (2015 NATIONAL ELECTRICAL CODE OF THE NATIONAL FIRE PROTECTION ASSOCIATION, NFPA)

PART 4 2016 CALIFORNIA MECHANICAL CODE, TITLE 24 C.C.R. (2015UNIFORM MECHANICAL CODE OF THE INTERNATIONAL ASSOCIATION OF PLUMBING AND MECHANICAL OFFICALS, IAPMO)

PART 5 2016 CALIFORNIA PLUMBING CODE, TITLE 24 C.C.R. (2015 UNIFORM PLUMBING CODE OF THE INTERNATIONAL ASSOCIATION OF PLUMBING AND MECHANICAL OFFICIALS, IAPMO)

PART 6 2016 CALIFORNIA ENERGY CODE, TITLE 24 C.C.R.

PART 8 2016 CALIFORNIA HISTORICAL BUILDING CODE, TITLE 24 C.C.R.

PART 9 2016 CALIFORNIA FIRE CODE, TITLE 24 C.C.R. (2015 INTERNATIONAL FIRE CODE OF THE INTERNATIONAL CODE COUNCIL)

PART 10 2016 CALIFORNIA EXISTING BUILDING CODE, TITLE 24 C.C.R (2015 INTERNATIONAL EXISTING BUILDING CODE OF THE INTERNATIONAL CODE COUNCIL, WITH AMENDMENTS)

PART 11 2016 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN CODE), TITLE 24 C.C.R.

PART 12 2016 CALIFORNIA REFERENCED STANDARDS CODE, TITLE 24 C.C.R.

PARTIAL LIST OF APPLICABLE STANDARDS

2016 CALIFORNIA BUILDING CODE (FOR SFM) REFERENCED STANDARDS CHAPTER 35

NFPA 13	AUTOMATIC SPRINKLER SYSTEMS (CALIFORNIA AMENDED)	2016 EDITION
NFPA 14	STANDPIPE SYSTEMS (CALIFORNIA AMENDED)	2016 EDITION
NFPA 17	DRY CHEMICAL EXTINGUISHING SYSTEMS	2016 EDITION
NFPA 17A	WET CHEMICAL EXTINGUISHING SYSTEMS	2016 EDITION
NFPA 20	STATIONARY PUMPS	2016 EDITION
NFPA 24	PRIVATE FIRE SERVICE MAINS (CALIFORNIA AMENDED)	2016 EDITION
NFPA 72	NATIONAL FIRE ALARM CODE (CALIFORNIA AMENDED) (NOTE: SEE UL STANDARD 1971 FOR "VISUAL DEVICES")	2016 EDITION
NFPA 2001	CLEAN AGENT FIRE EXTINGUISHING SYSTEMS	2015 EDITION

SYMBOLS LIST

———	CONDUIT CONCEALED IN WALL OR CEILING, SIZE AS NOTED.
- - - - -	CONDUIT BELOW FLOOR OR GRADE OR IN SLAB, SIZE AS NOTED.
——–——–	CONDUIT EXPOSED, SIZE AS NOTED.
A-1,3,5	DENOTES HOMERUN TO PANELBOARD "A" CIRCUITS 1,3,5.
A	PANELBOARD AND PANELBOARD DESIGNATION.
75KVA	POWER TRANSFORMER AND KVA RATING. SEE SINGLE LINE DIAGRAM FOR VOLTAGE AND GROUNDING.
	CIRCUIT BREAKER.
	DISCONNECT SWITCH AND FUSE
A	FEEDER DESIGNATION TAG, SEE SINGLE LINE DIAGRAM FOR CONDUIT WIRE SIZES.
	DISCONNECT SWITCH. SIZE AS NOTED.
E	EXISTING CONDUIT & WIRE TO REMAIN.
	CONDUIT UP
	CONDUIT DOWN
	GROUND CONDUIT AND WIRE. SIZE PER SINGLE LINE DIAGRAM.
J	JUNCTION BOX IN ACCESSIBLE CEILING SPACE.
J	JUNCTION BOX WALL MOUNTED.
	TELEPHONE OUTLET, WIRING AND DEVICES BY DISTRICT'S SIGNAL CONTRACTOR.
S (E)	EXISTING WALL MOUNTED SPEAKER WITH BACKBOX.
(E)	EXISTING WALL MOUNTED CLOCK WITH BACKBOX.

ABBREVIATIONS

A.F.F.	ABOVE FINISH FLOOR.	GRD.	GROUND
BLDG.	BUILDING	MT	MOUNT
C.	CONDUIT	(N)	NEW
CB	CIRCUIT BREAKER	N.T.S.	NOT TO SCALE
CO	CONDUIT ONLY WITH PULL WIRE.	PB	PULLBOX
(E)	EXISTING	TYP.	TYPICAL
EC	ELECTRICAL CONTRACTOR	UG	UNDERGROUND
EMT	ELECTRICAL METALLIC TUBING	U.O.N.	UNLESS OTHERWISE NOTED
GRC	GALVANIZED RIGID CONDUIT	V.D.	VOLTAGE DROP
		W.P.	WEATHERPROOF
		(X)	DISCONNECT AND REMOVE

ELECTRICAL GENERAL NOTES

GENERAL

ALL ELECTRICAL WORK SHALL CONFORM TO ALL REQUIREMENTS OF THE 2016 CALIFORNIA ELECTRICAL CODE, AND AUTHORITIES HAVING JURISDICTION.

ALL EQUIPMENT SHALL BE NEW AND U.L. APPROVED.

ELECTRICAL DRAWINGS ARE DIAGRAMMATIC. SIZE AND LOCATION OF EQUIPMENT AND WIRING ARE SHOWN TO SCALE WHERE POSSIBLE, BUT MAY BE DISTORTED FOR CLARITY ON THE DRAWINGS. FINAL LOCATIONS OF OUTLETS AND EQUIPMENT SHALL BE SHOWN IN ENLARGED DETAILS OR AS APPROVED BY THE ARCHITECT OR HIS REPRESENTATIVE. IT IS NOT WITHIN THE SCOPE OF DRAWINGS TO SHOW ALL THE NECESSARY BENDS, OFFSETS, PULLBOXES AND OBSTRUCTIONS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INSTALL HIS WORK TO CONFORM TO THE STRUCTURE, MAINTAIN HEAD-ROOM AND KEEP OPENINGS AND PASSAGEWAYS CLEAR. REFER TO THE ARCHITECTURAL DRAWINGS FOR DIMENSIONS.

THE CONTRACTOR SHALL CAREFULLY EXAMINE THE SITE AND SHALL COMPARE THE DRAWINGS WITH EXISTING ELECTRICAL INSTALLATIONS, AND SHALL THOROUGHLY FAMILIARIZE HIMSELF WITH ALL EXISTING CONDITIONS WITHIN THE SCOPE OF HIS WORK. BY THE ACT OF SUBMITTING A BID, THE CONTRACTOR WILL HAVE DEEMED TO HAVE MADE SUCH EXAMINATION AND TO HAVE ACCEPTED SUCH CONDITIONS AND TO HAVE MADE ALLOWANCE THEREFORE IN PREPARING HIS BID.

CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH ALL TRADES AND ELECTRICAL REFERENCES ON ARCHITECTURAL DRAWINGS.

VERIFY LOCATIONS OF ALL ELECTRICAL EQUIPMENT WITH ARCHITECTURAL DRAWINGS AND INTERIOR DETAILS AND FINISHES. IN CENTERING OUTLETS AND LOCATING BOXES AND OUTLETS, ALLOW FOR OVERHEAD PIPES, DUCTS, AND MECHANICAL EQUIPMENT, VARIATIONS IN FIREPROOFING AND PLASTERING, WINDOW AND DOOR TRIM, PANELING, HUNG CEILINGS AND THE LIKE, AND CORRECT ANY INACCURACY RESULTING FROM FAILURE TO DO SO WITHOUT EXPENSE TO OWNER.

FURNISH AND INSTALL WIRING FOR EQUIPMENT FURNISHED BY OTHERS, AS SHOWN ON DRAWINGS. COORDINATE WITH OTHER TRADES OR DETAILS FOR INSTALLATION. THE TERM "WIRING", AS USED HEREIN, INCLUDES FURNISHING AND INSTALLING CONDUIT, WIRE JUNCTION BOXES, DISCONNECTS AND MAKING CONNECTIONS. CHECK ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR EQUIPMENT TO BE INSTALLED BY OTHERS. BE RESPONSIBLE FOR PROPER WIRING AND NECESSARY ELECTRICAL ADJUSTMENTS TO EQUIPMENT TO CONFORM TO SPECIFIED REQUIREMENTS OF THE EQUIPMENT.

SECURE AND PAY ALL PERMITS AND FEES NECESSARY FOR EXECUTION AND COMPLETION OF ELECTRICAL WORK.

THE CONTRACTOR SHALL DO ALL CUTTING AND PATCHING OF THE EXISTING CONSTRUCTION WORK WHICH MAY BE REQUIRED FOR THE PROPER INSTALLATION OF THE ELECTRICAL WORK. ALL PATCHING SHALL BE OF THE SAME MATERIALS, WORKMANSHIP, AND FINISH AND SHALL ACCURATELY MATCH ALL SURROUNDING WORK.

EXPOSED CONDUITS SHALL BE PAINTED TO MATCH THE SURFACES ADJACENT TO INSTALLATION.

AFTER COMPLETION OF WORK UNDER THIS SECTION, CLEAN UP RESULTANT DEBRIS FROM THIS WORK AND REMOVE FROM THE SITE.

SALVAGED MATERIALS REMOVED FROM BUILDINGS SHALL BE REMOVED FROM THE PROJECT SITE AS REQUIRED BY THE OWNER.

MAINTAIN RECORD DRAWINGS ON THE JOB THAT ACCURATELY REFLECT CURRENT AS-BUILT STATUS OF THE PROJECT. UPON COMPLETION OF WORK PROVIDE THE OWNER WITH ONE SET OF REPRODUCIBLES THAT REFLECT THE AS-BUILTCONDITIONS.

THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PATCHING AS REQUIRED TO PERFORM THEIR WORK. ATTENTION IS CALLED TO THE FACT THAT THESE MAY BE EXISTING UNDERGROUND UTILITY LINES, THE ELECTRICAL CONTRACTOR SHALL USE CAUTION WHEN TRENCHING FOR HIS WORK. THE ELECTRICAL CONTRACTOR SHALL MAKE ALL REPAIRS OF DAMAGES CAUSED BY THEIR WORK.

JUNCTION AND PULL BOXES

JUNCTION AND PULL BOXES, IN ADDITION TO THOSE INDICATED, SHALL ONLY BE USED IN COMPLIANCE WITH CODES, RECOGNIZED STANDARDS, AND THE CONTRACT DOCUMENTS.

INTERIOR AND NON-WEATHERPROOF BOXES SHALL BE CONSTRUCTED OF BLUE OR GALVANIZED STEEL WITH AMPLE LAPS, SPOT WELDED, AND SHALL BE RIGID UNDER TORSION AND DEFLECTING FORCES. BOXES SHALL BE FURNISHED WITH AUXILIARY ANGLE IRON FRAMING WHERE NECESSARY TO ENSURE RIGIDITY.

COVERS SHALL BE FASTENED TO BOX WITH A SUFFICIENT NUMBER OF BRASS MACHINE SCREWS TO ENSURE CONTINUOUS CONTACT ALL AROUND. FLUSH TYPE BOXES SHALL BE DRILLED AND TAPPED FOR COVER SCREWS IF BOXES ARE NOT INSTALLED PLUMB. SURFACES OF PULL AND JUNCTION BOXES AND COVERS SHALL BE LABELED IN BLACK MARKER INK DESIGNATING THE SYSTEM, PANELBOARD AND CIRCUIT DESIGNATION

CONTAINED IN THE BOX. IN EXPOSED WORK, SUCH DESIGNATION SHALL BE PLACED ON THE INSIDE OF THE PULLBOX AND/OR JUNCTION BOX COVER.

WEATHERPROOF NEMA 3R PULL AND JUNCTION BOXES SHALL CONFORM TO FOREGOING FOR INTERIOR BOXES WITH FOLLOWING MODIFICATIONS:

A. COVER OF FLUSH MOUNTING BOXES SHALL BE FURNISHED WITH A WEATHER-TIGHT GASKET CEMENTED TO, AND TRIMMED EVEN WITH, THE COVER ALL AROUND.

B. SURFACE OR SEMI-FLUSH MOUNTING PULL AND JUNCTION BOXES SHALL BE UL LISTED AS RAIN-TIGHT AND SHALL BE FURNISHED COMPLETE WITH THREADED CONDUIT HUBS.

C. EXPOSED PORTIONS OF BOXES SHALL BE GALVANIZED AND FINISHED WITH ONE PRIME COAT AND ONE COAT OF BAKED-ON GRAY ENAMEL, UNLESS ALREADY FURNISHED WITH FACTORY BAKED-ON FINISH.

JUNCTION AND PULL BOXES SHALL BE RIGIDLY FASTENED TO THE STRUCTURE AND SHALL NOT DEPEND ON CONDUITS FOR SUPPORT.

JUNCTION AND PULL BOXES: LOCATE GENERALLY NOT EXPOSED IN FINISHED SPACE. WHERE NECESSARY, RE-ROUTE RACEWAY OR MAKE OTHER ARRANGEMENTS FOR CONCEALMENT. PROVIDE AND COORDINATE LOCATIONS WITH OTHER TRADES. COVERS OF JUNCTION AND PULL BOXES SHALL BE ACCESSIBLE. FOR EMPTY RACEWAY RUNS PROVIDE PULL BOXES EVERY 100 FEET AND AS INDICATED. COORDINATE LOCATIONS WITH OTHER TRADES.

RACEWAYS

METALLIC CONDUIT AND TUBING SHALL BE MANUFACTURED UNDER SUPERVISION OF UL, FACTORY INSPECTION AND LABEL SERVICE PROGRAM. EACH 10-FOOT LENGTH OF CONDUIT AND TUBING SHALL BEAR UL LABEL AND MANUFACTURER'S NAME.

RACEWAYS (CONTINUED)

RIGID METALLIC CONDUIT (GRC) SHALL BE RIGID STEEL, HEAVY WALL, MILD STEEL, ZINC-COATED WITH AN INSIDE AND OUTSIDE PROTECTIVE COATING MANUFACTURED IN ACCORDANCE WITH ANSI C 80.1. COUPLINGS, ELBOWS, BENDS AND OTHER FITTINGS SHALL BE SAME MATERIALS AND FINISH AS THE RIGID METALLIC CONDUIT. FITTINGS, CONNECTORS, AND COUPLINGS SHALL BE THREADED TYPE, MANUFACTURED IN ACCORDANCE WITH ANSI C 80.1 AND UL 6.

UNDERGROUND NON-METALLIC CONDUIT SHALL BE RIGID PVC ELECTRICAL CONDUIT EXTRUDED TO SCHEDULE 40 DIMENSIONS OF TYPE II. GRADE 1 HIGH IMPACT, POLYVINYL CHLORIDE, SWEEPS, COUPLINGS, REDUCERS AND TERMINATING FITTINGS SHALL BE LISTED UNDER THE UL RE-EXAMINATION SERVICE, AND SHALL BEAR THE MANUFACTURER'S LISTED MARKING.

PULL WIRES: INSTALL 1/8 INCH POLYPROPYLENE CORDS IN EMPTY CONDUITS AND EMPTY UNDERGROUND SERVICE CONDUITS.

WITHIN BUILDINGS, EMT MAY BE INSTALLED INSTEAD OF RIGID METALLIC CONDUIT WHERE PERMITTED BY ORDINANCE. EMT SHALL NOT BE INSTALLED IN CONCRETE, UNDERGROUND, OUTDOOR, BELOW 6 FEET ABOVE FINISHED SURFACE, WHERE SUBJECT TO DAMAGE, OR IN RUNS LONGER THAN 100 FEET.

UNDERGROUND FEEDER DISTRIBUTION CONDUITS FOR SYSTEMS MAY BE NON-METALLIC SCHEDILE 40 CONDUIT INSTEAD OF RIGID CONDUIT EXCEPT WHERE OTHERWISE SPECIFIED OR INDICATED.

INTERIOR BRANCH CIRCUIT WIRING SHALL BE RUN IN ELECTRIC METALLIC TUBING (EMT). THE EMT SHALL BE OF MILLED STEEL TUBING. STEEL COMPRESSION WITH INSULATED THROAT TYPE CONNECTORS AND COUPLINGS SHALL BE USED FOR ALL EMT CONNECTIONS. SEALTITE FLEXIBLE CONDUIT FOR VIBRATING EQUIPMENT (MOTORS, TRANSFORMERS, ETC.).

CUT CONDUIT END SQUARE, REAM SMOOTH. PAINT MALE THREADS OF FIELD THREADED RACEWAYS WITH GRAPHITE BASE PIPE COMPOUND. DRAW UP TIGHT WITH RACEWAY COUPLINGS.

PASS RACEWAYS OVER WATER, STEAM OR OTHER PIPING WHEN PULL BOXES ARE NOT REQUIRED. NO RACEWAY WITHIN 3" OF STEAM OR HOT WATER PIPES, OR APPLIANCES, EXCEPT CROSSINGS WHERE RACEWAY SHALL BE AT LEAST 1" FROM PIPE COVER.

RUN ALL RACEWAYS PARALLEL AND/OR PERPENDICULAR TO BUILDING WALLS. HORIZONTAL OR CROSS RUNS IN FULL HEIGHT PARTITIONS AND WALLS NOT PERMITTED.

RUN ALL CONDUIT CONCEALED IN FINISHED AREAS, UNLESS INDICATED ON THE DRAWINGS.

INDICATE, USING MARKING PEN, PANELBOARD AND CIRCUIT DESIGNATIONS ON ALL CONDUIT HOMERUNS AND JUNCTION BOXES.

CONDUCTORS

ALL CONDUCTOR SIZES SHOWN ARE FOR COPPER WITH 600V., TYPE THHN-THWN INSULATION. INSULATION RATED 75 ºNLESS UNLESS OTHERWISE NOTED. MINIMUM CONDUCTOR SIZE: #12 A.W.G. ALL #8 AWG WIRE AND LARGER SHALL BE STRANDED. ALL #10 AWG WIRE AND SMALLER SHALL BE SOLID.

TYPE THHN/THWN INSULATION SHALL BE USED FOR ALL BRANCH CIRCUIT WIRING. THE AMPACITIES OF THHN/THWN WIRE SHALL BE BASED ON THE ALLOWABLE AMPACITIES OF THW WIRE. FEEDER CABLES INSULATION AS APPROVED.

FACTORY COLOR CODING FOR WIRE AND CABLE SHALL BE AS FOLLOWS: 120/208V - BLACK, RED, BLUE, WHITE, FOR PHASES A, B, C AND NEUTRAL, RESPECTIVELY. 277/480V - BROWN, ORANGE, YELLOW, GREY FOR PHASES A, B, C AND NEUTRAL RESPECTIVELY.

GROUND WIRES SHALL BE GREEN.

WIRE COLOR CODING: WHERE COLOR-CODED CABLE IS NOT AVAILABLE, CERTIFY IN WRITING AND REQUEST PERMISSION FOR OVERLAP COLOR TAPING CONDUCTORS (MINIMUM LENGTH 6') IN ACCESSIBLE LOCATIONS. COLOR CODING, ONCE SELECTED, MUST BE USED CONSISTENTLY FOR THE ENTIRE PROJECT.

LEAVE WIRE SUFFICIENTLY LONG TO PERMIT MAKING FINAL CONNECTIONS. IN RACEWAY OVER 10 FEET IN WHICH WIRING IS NOT INSTALLED, FURNISH FISH WIRE.

PULL NO THERMOPLASTIC WIRES AT TEMPERATURES LOWER THAN 32 F (0 C). PROVIDE CABLE SUPPORTS FOR WIRE IN RISER CONDUIT AS REQUIRED BY CODE.

LIGHTING AND POWER WIRING FOR CIRCUITS LESS THAN 100 FEET SHALL BE #12 AWG, UNLESS NOTED. WIRE SIZES SHALL BE #10 FOR CIRCUITS GREATER THAN 100 FEET. NOT MORE THAN (3) LIGHTING OR CONVENIENCE OUTLET CIRCUITS IN ONE CONDUIT UNLESS OTHERWISE NOTED.

ALL WIRES SHALL BE IDENTIFIED BY CIRCUIT NUMBERS IN ALL CABINETS, BOXES, WIRING TROUGH, OTHER ENCLOSURES, AT ALL SPLICES, TERMINATION POINTS, ETC.

DISTRIBUTION EQUIPMENT

ALL PANEL BOARDS SHALL BE ENCLOSED TYPE, FLUSH OR SURFACE MOUNTED AS REQUIRED, IN STEEL CABINETS CODE GAUGE, WITH STEEL TRIM CONCEALED HINGES, DOORS AND FLUSH TYPE LOCKS, ALL KEYED ALIKE, MANUFACTURED BY GE, SQUARE-D, CUTLER HAMMER OR EQUAL.

PANEL BOARDS SHALL BE EQUIPPED WITH BOLT-ON MOLDED CASE CIRCUIT BREAKERS OF THE TYPE, NUMBER OF POLES, TRIP SIZES, AS SHOWN IN DRAWINGS AND INTERRUPTING CAPACITY AS PER BUILDING REQUIREMENTS.

CABINETS SHALL BE OF SUFFICIENT SIZE TO ALLOW A GUTTER SPACE OF AT LEAST 6" ON SIDES, TOP AND BOTTOM.

BACK BOXES SHALL BE CONSTRUCTED OF CODE GAUGE SHEET STEEL. GALVANIZED TRIMS SHALL BE PRIMED FOR FINISH PAINTING BY OTHERS.

DOORS AND TRIM SHALL EACH BE IN ONE PIECE SO DESIGNATED THAT DOORS WILL OPEN 180 DEGREES. DOORS SHALL BE FASTENED TO TRIMS WITH SEMI-CONCEALED, 5 KNUCKLE STEEL WITH NON-FERROUS PINS. TRIMS SHALL BE FASTENED TO BACK BOXES BY SCREWS.

A CIRCUIT DIRECTORY WITH METAL FRAME AND GLASSINE PAGE SHALL BE PROVIDED ON THE INSIDE OF THE DOOR. UPON COMPLETION OF THE PROJECT, THE DIRECTORY SHALL BE TYPEWRITTEN, INDICATING THE SERVICE CONTROLLED BY EACH CIRCUIT FOR NEW AND EXISTING PANELS.

INTERRUPTING CAPACITY OF NEW CIRCUIT BREAKERS SHALL BE EQUAL TO OR GREATER THAN AVAILABLE SHORT-CIRCUIT CURRENT.

INSIDE OF THE DOOR. UPON COMPLETION OF THE PROJECT, THE PANEL DIRECTORY SHALL BE TYPEWRITTEN, INDICATING THE SERVICE CONTROLLED BY EACH CIRCUIT FOR NEW AND EXISTING PANELS.

CLEAN, VACUUM, AND TIGHTEN ALL CONNECTORS AND CONNECTIONS IN EXISTING ELECTRICAL EQUIPMENT RE-USED.

SEAL EXISTING PANEL KNOCK-OUTS NOT RE-USED.

DISTRIBUTION EQUIPMENT (CONTINUED)

WHERE CIRCUIT BREAKERS ARE INDICATED TO BE PROVIDED IN EXISTING PANEL BOARDS, CIRCUIT BREAKER SHALL MATCH EXISTING PANEL BOARD MANUFACTURER, CIRCUIT BREAKER STYLE AND PANEL BOARD INTERRUPTING RATING.

DISCONNECT SWITCHES SHALL BE QMQB FUSED OR NON-FUSED (AS NOTED OR AS REQUIRED) NEMA HEAVY DUTY EXTERNALLY OPERATED WHERE NOT FURNISHED WITH STARTING EQUIPMENT AND AT ALL OTHER POINTS REQUIRED BY CODE. FUSES SHALL BE "BUSSMAN" OR "GOULD" CURRENT LIMITING TYPE, MINIMUM 100,000 AIC. CIRCUIT BREAKER MINIMUM 10,000 AIC FOR 120/208V SYSTEM AND MINIMUM 14,000 AIC UNLESS OTHERWISE INDICATED.

PROVIDE NAMEPLATES FOR ALL ELECTRICAL EQUIPMENT. NAMEPLATES TO BE ENGRAVED THREE LAYER LAMINATED PLASTIC, WHITE LETTERS ON BLACK BACKGROUND FOR EQUIPMENT 250 VOLTS AND UNDER, AND WHITE LETTERS ON RED BACKGROUND FOR EQUIPMENT OVER 250 VOLTS.

TRANSFORMERS

PREMIUM EFFICIENCY TRANSFORMERS WITH INTERNAL LOSSES AT 35 PERCENT LOADING REDUCED BY 30 PERCENT WHEN USING TEMPERATURE AND MATERIAL CORRECTION FACTOR TO 75 DEGREES C PER NEMA STANDARD TP1

LOAD MIX: TRANSFORMER SHALL BE UL 1561 LISTED TO FEED A MIX OF EQUIPMENT LOAD PROFILES SUCH AS COMPUTER WITHOUT DETRACTING OR SIGNIFICANT DEGRADATION OF EFFICIENCY.

TRANSFORMERS SHALL BE SELF-COOLED TYPE WITH 220 DEGREES C. INSULATION AND A MAXIMUM TEMPERATURE RISE OF 130 DEGREES C. UNDER CONTINUOUS FULL LOAD CONDITIONS WITH AN AMBIENT OF 40 DEGREES C.

TRANSFORMERS SHALL BE FURNISHED WITH FOUR 2.50 PERCENT (TWO ABOVE AND TWO BELOW NORMAL VOLTAGE) TAPS. WINDINGS SHALL BE OF FIRE-RESISTANT TYPE, DESIGNED FOR NATURAL CONVECTION COOLING THROUGH NORMAL AIR CIRCULATION.

CORE MOUNTING FRAMES AND ENCLOSURES SHALL BE OF WELDED AND BOLTED CONSTRUCTION WITH SUFFICIENT MECHANICAL STRENGTH AND RIGIDITY TO WITHSTAND SHIPPING, INSTALLATION, AND SHORT CIRCUIT STRESSES.

ENCLOSURE COVER PLATES SHALL BE SHEET STEEL, CAPTIVE BOLTED TO ENCLOSURE FRAMEWORK. ENCLOSURE SHALL PROVIDE SUITABLE VENTILATING OPENINGS WITH RODENT-PROOF SCREENS. TRANSFORMERS INSTALLED OUTDOORS SHALL BE PROVIDED WITH WEATHERPROOF NEMA 3R ENCLOSURE AND WEATHER PROOF KIT.

EQUIPMENT SHOWN ON DRAWINGS TO SCALE IS APPROXIMATE ONLY AND BASED UPON A GENERAL CLASS OF EQUIPMENT SPECIFIED. THE CONTRACTOR SHALL VERIFY DIMENSIONS AND CLEARANCES PRIOR TO COMMENCEMENT OF WORK.

GROUNDING

GROUND ALL CONDUITS, CABINETS, MOTORS, PANELS, AND OTHER EXPOSED NON-CURRENT CARRYING METAL PARTS OF ELECTRICAL EQUIPMENT IN ACCORDANCE WITH ALL PROVISIONS OF THE NATIONAL ELECTRICAL CODE, OR LOCAL CODES THAT MAY APPLY.

PROVIDE INSULATED GROUNDING CONDUCTORS IN ALL CONDUITS. GROUND WIRE TO BE SIZED IN ACCORDANCE WITH N.E.C. ARTICLE 250-122.

SITE INSPECTOR IS TO WITNESS AND VERIFY GROUNDING TESTS.

ELECTRICAL IDENTIFICATION

PROVIDE WIRE MARKERS ON EACH CONDUCTOR IN PANELBOARD GUTTERS, PULL BOXES, OUTLET AND JUNCTION BOXES, AND AT LOAD CONNECTION. IDENTIFY WITH BRANCH CIRCUIT OR FEEDER NUMBER FOR POWER AND LIGHTING CIRCUITS, AND WITH CONTROL WIRE NUMBER AS INDICATED ON EQUIPMENT MANUFACTURER'S SHOP DRAWINGS FOR CONTROL WIRING.

PROVIDE IDENTIFICATION PLATES FOR THE FOLLOWING UNLESS OTHERWISE SPECIFIED, FOR SWITCHBOARDS, UNIT SUBSTATIONS, MOTOR CONTROL CENTERS, CONTROL PANELS, PUSH-BUTTON STATIONS, TIME SWITCHES, CONTACTORS, MOTOR STARTERS, MOTOR SWITCHES, PANELBOARDS, AND TERMINAL CABINETS.

IDENTIFICATION PLATES SHALL BE OF PLASTIC STOCK AND SHALL ADEQUATELY DESCRIBE FUNCTION, VOLTAGE AND PHASE OF IDENTIFIED EQUIPMENT. WHERE IDENTIFICATION PLATES ARE DETAILED OR DESCRIBED ON DRAWINGS, INSCRIPTION AND SIZE OF LETTERS SHALL BE AS INDICATED. FOR LIGHTING AND POWER PANELS, IDENTIFICATION PLATES SHALL INDICATE PANEL DESIGNATION, VOLTAGE, AND PHASE OF PANEL. FOR TERMINAL CABINETS, IDENTIFICATION PLATES SHALL INDICATE SYSTEM CONTAINED IN TERMINAL CABINET.

DENTIFICATION PLATES SHALL BE BLACK-AND-WHITE NAMEPLATE STOCK OF BAKELITE WITH CHARACTERS CUT THROUGH BLACK EXPOSING WHITE. PLATES SHALL BE FURNISHED WITH BEVELED EDGES AND SHALL BE SECURELY FASTENED IN PLACE WITH NO. 4 PHILLIPS-HEAD, CADMIUM-PLATED STEEL, SELF-TAPPING SCREWS. CHARACTERS SHALL BE 3/16 INCH HIGH, UNLESS OTHERWISE INDICATED

SUPPORTS

SECURE ALL SUPPORTS TO BUILDING STRUCTURE AS REQUIRED. DO NOT SUPPORT FROM CEILING HANGERS. SUPPORT HORIZONTAL RUNS OF METALLIC RACEWAYS NOT MORE THAN 10 FEET APART. SUPPORT RACEWAY RISERS AT EACH FLOOR LEVEL. RUN EXPOSED RACEWAYS PARALLEL WITH OR AT RIGHT ANGLES TO WALL.

SUPPORT PANEL, JUNCTION AND PULL BOXES INDEPENDENTLY TO BUILDING STRUCTURE WITH NO WEIGHT BEARING ON RACEWAY.

ALL ANCHORS, FASTENERS, CLAMPS, ETC., SHALL BE MADE OF STEEL AND SHALL NOT CONTAIN ANY LEAD, WOOD, PLASTIC, ETC.

SLEEVES

PROVIDE WATERPROOF SLEEVES, AS APPROVED FOR ROOF, FLOOR AND WALL PENETRATIONS. ALL PENETRATIONS THROUGH FIRE RATED WALLS, FLOORS OR PARTITIONS SHALL BE SEALED TO PREVENT THE SPREAD OF SMOKE AND FIRE THROUGH THEM. THE FIRE RATING OF THE PENETRATION SEAL SHALL BE AT LEAST THAT OF THE FLOOR OR WALL INTO WHICH IT IS INSTALLED BY ARTICLE #300-21 OF THE CALIFORNIA ELECTRICAL CODE.

THE FOAM SEALANT SHALL MEET ALL OF THE FIRE TEST AND HOUSE STREAM TEST REQUIREMENTS OF ASTM E-119-73 AND SHALL BE U.L. CLASSIFIED AS A WALL OPENING PROTECTIVE DEVICE, AS MANUFACTURED BY CHASE TECHNOLOGY CORPORATION.

TEST AND GUARANTEES

UPON COMPLETION OF ALL ELECTRICAL WORK, CONTRACTOR SHALL TEST FOR GROUNDS AND SHORTS, TO INSURE PROPER OPERATION OF ELECTRICAL EQUIPMENT. REPAIR OR REPLACE FAULTY EQUIPMENT AT NO ADDITIONAL COST TO THE OWNER.

GUARANTEE FOR ONE YEAR AFTER FINAL ACCEPTANCE BY OWNER OF ALL WORKMANSHIP AND MATERIALS FURNISHED.

SUBMITTALS

MANUFACTURER'S CUTS AND SHOP DRAWINGS OF THE FOLLOWING APPARATUS, GIVING FULL DESCRIPTION AND OTHER PERTINENT FACTS, SHALL BE SUBMITTED TO THE ARCHITECT AND THE CONSULTING ENGINEER. THEIR APPROVAL SHALL BE SECURED BEFORE APPARATUS IN QUESTION IS ORDERED, BUILT OR INSTALLED.

1. DISTRIBUTION EQUIPMENT (PANELS, DISCONNECTS, CIRCUIT BREAKERS, ETC.).
2. FIRE ALARM EQUIPMENT, DEVICES, CSFM SHEETS, PLANS, RISERS AND CALCULATIONS.

ELECTRICAL CONTRACTOR SHALL SUBMIT "AS-BUILT" RECORD DRAWINGS (SIZE 1/8" = 1'-0") AND LOAD BALANCING REPORT FOR BUILDING FILES AT COMPLETION OF PROJECT. QUANTITIES AND TYPES OF SUBMITTALS AS REQUESTED.

END OF SPECIFICATION

DSA SUBMITTAL DATE: 9.26.2017

ALL DRAWINGS AND WRITTEN MATERIAL APPEARING HEREIN CONSTITUTE THE ORIGINAL AND UNPUBLISHED WORK OF THE ARCHITECT AND THE SAME MAY NOT BE DUPLICATED, USED OR DISCLOSED WITHOUT THE WRITTEN CONSENT OF THE ARCHITECT.

P-LINE CONSULTING
20803 e. valley blvd., ste. 206
walnut, ca 91789
■ c: 714.747.7263
■ f: 909.839.0123
■ e: leny@plineconsulting.com
Leny F. Gallego
Principal

LICENSED ARCHITECT LENY FRANCISCO PEDRO GALLEGO No. C-22914 EXP. 3/31/19 RENEWAL DATE STATE OF CALIFORNIA

CONSULTANT

WBM & Associates
Consulting Electrical Engineers
2060-D E. Avenida De Los Arboles #109
Thousand Oaks, CA 91362
TEL (805) 368-1096

REGISTERED PROFESSIONAL ENGINEER MICHAEL R. BURNETT MURRAY BURNETT No. E17424 Exp. 9/30/17 ELECTRICAL STATE OF CALIFORNIA

D.S.A. STAMP
DSA FILE NO. 19-25
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
03-118460
AC Co 19
DATE SEP 27 2017

THE ILLUSTRATIONS INDICATED ON THIS SHEET ARE TO REPRESENT THE ARCHITECTURAL DESIGN CONCEPT OF THE PROJECT ONLY. THE DIMENSIONS OF THE BUILDING, THE ELECTRICAL ELEMENTS, AND THE TYPE OF STRUCTURAL, MECHANICAL AND/OR ELECTRICAL SYSTEMS REPRESENTED DO NOT NECESSARILY PROVIDE THE FULL DESCRIPTION OF THE WORK REQUIRED FOR THE PERFORMANCE OF ALL ACTIVITIES TO COMPLETE THE INSTALLATION. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL MATERIALS AND LABOR REQUIRED FOR THE PROPER EXECUTION OF THE CONTRACT DOCUMENTS CONSISTENT WITH ALL APPLICABLE CODES AND ACCEPTABLE CONSTRUCTION PRACTICES.

Revision(s)	Date
No. Remarks	
1	
2	
3	

Project Title:
RELOCATION of
PORTABLE CLASSROOM BUILDING
PC A#04-104801

To:
GROVECENTER ES
ELEMENTARY SCHOOL

Owner:
COVINA-VALLEY
UNIFIED SCHOOL DISTRICT

Project Address:
775 N. LARK ELLEN AVE.
COVINA, CA 91722
T.626.974.4400

Project Tracking No.
64436-177

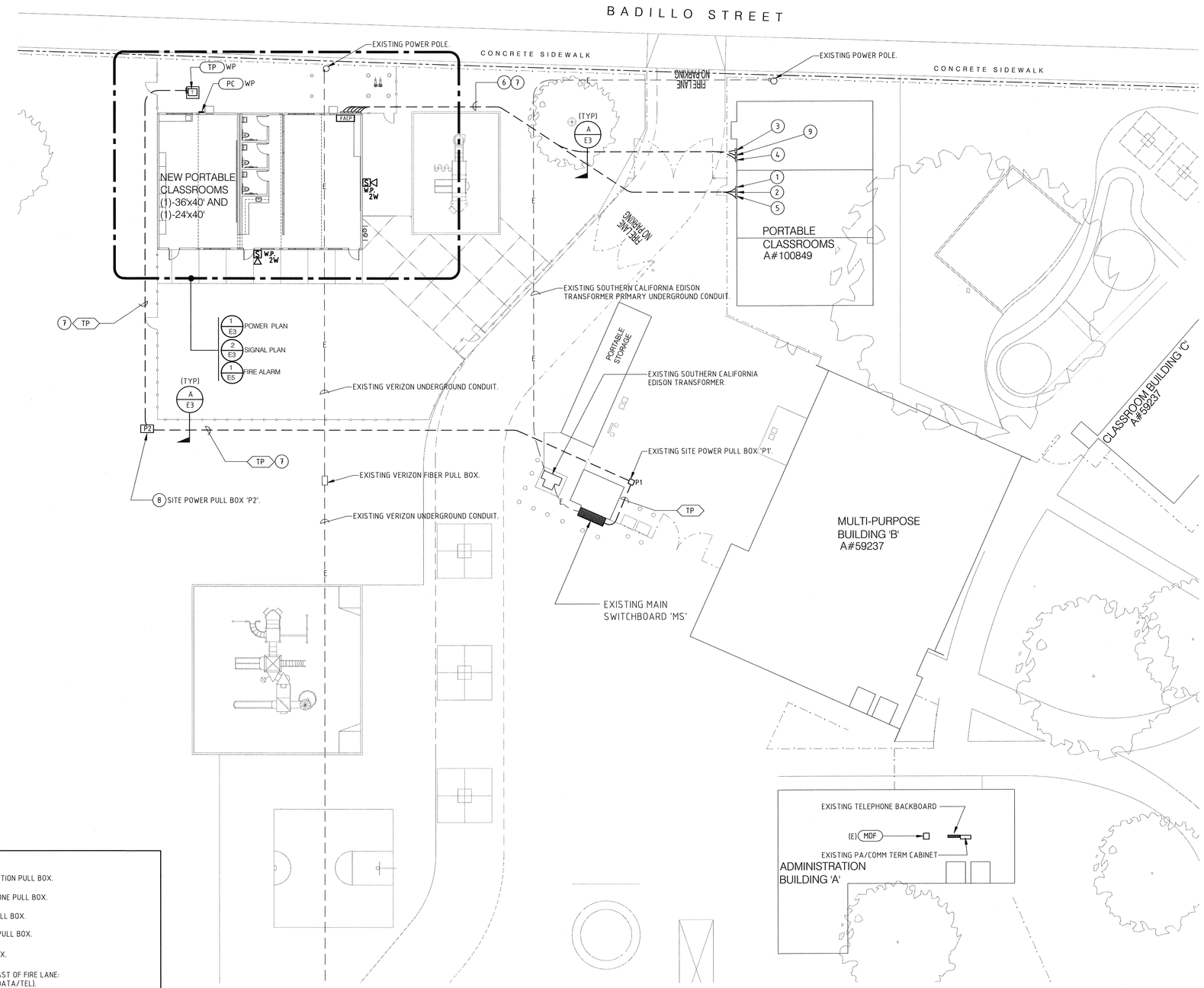
Project No.
CVUSD_GES81517

Sheet Title
ELECTRICAL GENERAL NOTES, CODES, SYMBOLS LIST AND MISC. SCHEDULES

Designed: KW
Drawn:
Checked: KW/MB
Plot Date: 9.21.17
Filename:
Drawing No. E1
Sheet No. of

RELOCATION OF PORTABLE CLASSROOM BUILDING

ALL DRAWINGS AND WRITTEN MATERIAL APPEARING HEREIN CONSTITUTE THE ORIGINAL AND UNPUBLISHED WORK OF THE ARCHITECT AND THE SAME MAY NOT BE DUPLICATED, USED OR DISCLOSED WITHOUT THE WRITTEN CONSENT OF THE ARCHITECT.



1 ELECTRICAL SITE PLAN

SCALE: 1/16"=1'-0"

REFERENCE NOTES:

1. EXISTING BUILDING MOUNTED PA/COMMUNICATION PULL BOX.
2. EXISTING BUILDING MOUNTED DATA/TELEPHONE PULL BOX.
3. EXISTING BUILDING MOUNTED FIRE ALARM PULL BOX.
4. EXISTING BUILDING MOUNTED TV/SECURITY PULL BOX.
5. EXISTING BUILDING MOUNTED CLOCK PULL BOX.
6. TO SIGNAL BOXES ON PORTABLE BUILDING EAST OF FIRE LANE:
   (1) 2"C. FIBER AND 4TEL CABLES TO ADMIN (DATA/TEL).
   (1) 1"C. (2) 3PAIR SPEAKER/COMM CABLES TO MATCH EXISTING TO ADMIN (PA/COMM) + (2) TEL LINES TO MAIN TEL BACKBOARD IN ADMIN.
   (1) 1"C.. (TV/SEC).
   (1) 1"C.-4#12. (CLOCK)
   (1) 1"C. (FIRE ALARM)
   (1) 1"C. (SPARE)
7. SAW CUT AND TRENCH TO ACCOMMODATE NEW UNDERGROUND CONDUITS.
8. FURNISH AND INSTALL PRECAST CONCRETE PULL BOX 17"X30"X24" DEEP WITH STEEL BOLT-DOWN TRAFFIC COVER MARKED "POWER". INSTALL ON 12" OF CRUSHED ROCK. BROOKS PRODUCTS #66-PB BODY, 66-12" EXTENSION AND 66-PB STEEL COVER.
9. EXISTING BUILDING MOUNTED SPARE PULL BOX.

Call: TOLL FREE

of Southern California

TWO WORKING DAYS BEFORE YOU DIG

NOTES:
ALL EQUIPMENT, DEVICES, CONDUIT AND WIRE INDICATED SHALL BE NEW UNLESS IDENTIFIED AS EXISTING OR (E).

INSTALL CONDUITS MIN. 24" UNDERGROUND ENCASE WITH TWO SACK SLURRY. REFER TO DETAIL 'A', SHEET E3.

TRACE AND IDENTIFY EXISTING SITE POWER, SIGNAL AND SOLAR CITY UNDERGROUND UTILITIES PRIOR TO COMMENCING TRENCHING.

WARNING

EXCAVATE & DEMOLISH WITH EXTREME CARE!

THE ARCHITECTS AND ENGINEERS DO NOT KNOW THE LOCATIONS OF ALL EXISTING UTILITY LINES AND EQUIPMENT. ANY SUCH WORK ON THE DRAWINGS IS SCHEMATIC AND IS FOR REFERENCE ONLY. BEWARE OF LINES VISIBLE AND CONCEALED. LOCATE AND USE DISCONNECTS AS REQUIRED FOR SAFETY. DO NOT COMMENCE WITH WORK UNTIL SAFE TO DO SO, THEN PROCEEDS WITH CAUTION.

DSA SUBMITTAL DATE: 9.26.2017

P-LINE CONSULTING
20803 e. valley blvd., ste. 206
walnut, ca 91789
■ c. 714.747.7263
■ f. 909.839.0123
■ e. lenyplineconsulting.com
Leny F. Gallego
Principal

LICENSED ARCHITECT WALTER PEDRO WARNERN C-22914 EXP. 3/31/19 RENEWAL DATE STATE OF CALIFORNIA

CONSULTANT

WBM & Associates
Consulting Electrical Engineers
2060-D E. Avenida De Los Arboles #109
Thousand Oaks, CA 91362
TEL (805) 368-1096

REGISTERED PROFESSIONAL ENGINEER MURRAY BLITZ E12424 Exp. 9/30/17 ELECTRICAL STATE OF CALIFORNIA

D.S.A. STAMP

DSA FILE NO. 19-25
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT

03-118460
AC FLS 20 SS TB
DATE SEP 27 2017

THE ILLUSTRATIONS INDICATED ON THIS SHEET ARE TO REPRESENT THE ARCHITECTURAL DESIGN CONCEPT OF THE PROJECT ONLY. THE DIMENSIONS OF THE BUILDING, THE ELECTRICAL ELEMENTS, AND THE TYPE OF STRUCTURAL, MECHANICAL, AND/OR ELECTRICAL SYSTEMS REPRESENTED DO NOT NECESSARILY PROVIDE THE FULL DESCRIPTION OF THE WORK REQUIRED FOR THE PERFORMANCE OF ALL ACTIVITIES TO COMPLETE THE INSTALLATION. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL MATERIALS AND LABOR REQUIRED FOR THE PROPER EXECUTION OF THE CONTRACT DOCUMENTS CONSISTENT WITH ALL APPLICABLE CODES AND ACCEPTABLE CONSTRUCTION PRACTICES.

Revision(s)	Date
No. Remarks	

Project Title:
RELOCATION OF
PORTABLE CLASSROOM BUILDING
PC A#04-104801

To:
GROVECENTER
ELEMENTARY SCHOOL

Owner:
COVINA-VALLEY
UNIFIED SCHOOL DISTRICT

Project Address:
775 N. LARK ELLEN AVE.
COVINA, CA 91722
T.626.974.4400

Project Tracking No.
64436-177

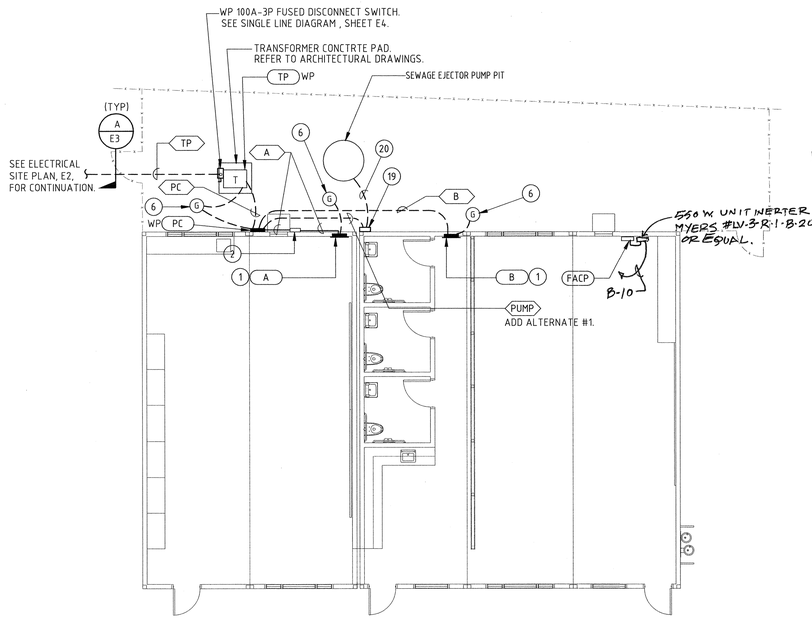
Project No.
CVUSD_GES81517

Sheet Title
ELECTRICAL SITE PLAN

Designed: KW
Drawn:
Checked: KW/MB
Plot Date: 9.21.17
Filename:

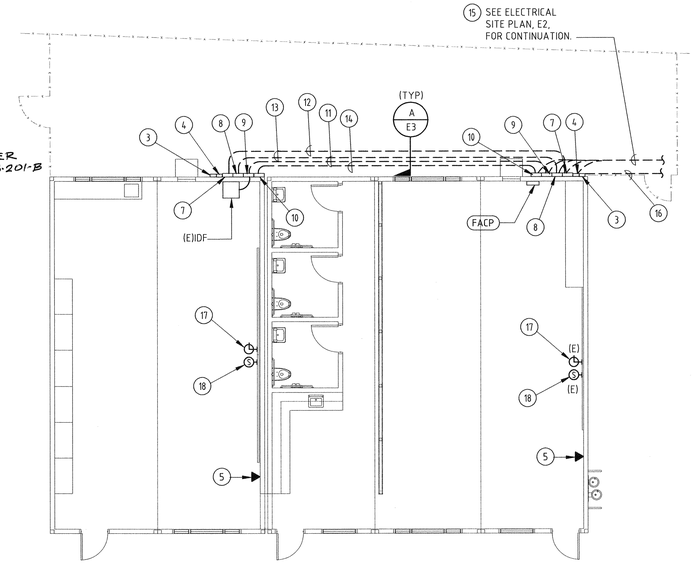
Drawing No. E2
Sheet No. of

RELOCATION OF PORTABLE CLASSROOM BUILDING



POWER PLAN

REF. | SCALE: NO SCALE | DTL. NO. 1 | NORTH

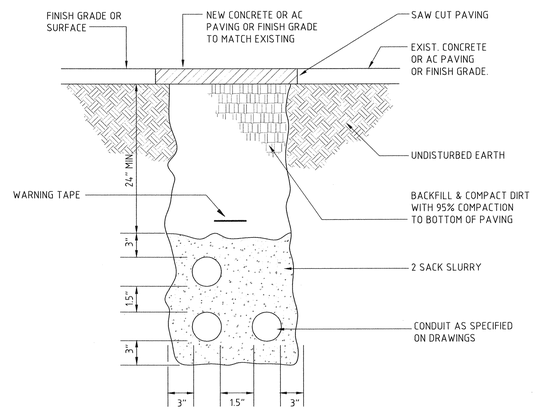


SIGNAL PLAN

REF. | SCALE: NO SCALE | DTL. NO. 2 | NORTH

REFERENCE NOTES - POWER AND SIGNAL PLANS:

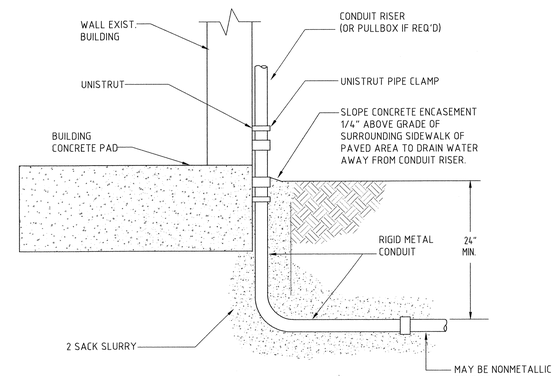
1. PANELBOARD FURNISHED WITH RELOCATABLE CLASSROOM BUILDING.
2. EXISTING BUILDING MOUNTED POWER PULL BOX.
3. EXISTING BUILDING MOUNTED FIRE ALARM PULL BOX.
4. EXISTING BUILDING MOUNTED SPARE PULL BOX.
5. PA/TELEPHONE HANSET FOR METHOD OF COMMUNICATION TO ADMINISTRATION FRONT OFFICE. CABLING AND HANDSET BY DISTRICT COMMUNICATIONS CONTRACTOR.
6. GROUND ROD BOX, SEE SINGLE LINE DIAGRAM AND DETAILS, SHEET E4, FOR GROUNDING REQUIREMENTS.
7. EXISTING BUILDING MOUNTED TV/SECURITY PULL BOX.
8. EXISTING BUILDING MOUNTED PA/COMMUNICATION PULL BOX.
9. EXISTING BUILDING MOUNTED DATA/TELEPHONE PULL BOX.
10. EXISTING BUILDING MOUNTED CLOCK PULL BOX.
11. (1) 2"C. FIBER AND (1)TEL CABLE TO ADMIN (DATA/TEL).
12. (1) 1"C.. (TV/SEC).
13. (1) 1"C. (1) 3PAIR SPEAKER/COMM CABLES TO MATCH EXISTING TO ADMIN (PA/COMM).
14. (1) 1"C.-4#12. (CLOCK)
15. TO SIGNAL BOXES ON PORTABLE BUILDING EAST OF FIRE LANE:
    (1) 2"C. FIBER AND 4TEL CABLES TO ADMIN (DATA/TEL).
    (1) 1"C. (2) 3PAIR SPEAKER/COMM CABLES TO MATCH EXISTING TO ADMIN (PA/COMM).
    (1) 1"C. (TV/SEC).
    (1) 1"C.-4#12. (CLOCK)
    (1) 1"C. (SPARE)
16. TO FIRE ALARM BOX ON PORTABLE BUILDING EAST OF FIRE LANE:
    (1) 1"C. (FIRE ALARM)
17. EXISTING CLOCK WIRED BACK TO CLOCK PULL BOX ON NORTH SIDE OF BUILDING.
18. EXISTING SPEAKER WIRED BACK TO PA/COMM PULL BOX ON NORTH SIDE OF BUILDING.
19. SEWAGE EJECTOR CONTROL PANEL, ADD ALTERNATE #1. REFER TO ARCH. DRAWINGS AND DETAILS FOR ADDITIONAL INFORMATION.
20. (2)1 -1/4"C. (1.25") FOR PUMP WIRING AND FLOAT CONTROL WIRING. PROVIDE CONDUIT SEALS IN PIT AND BELOW CONTROL PANEL. ADD ALTERNATE #1. REFER TO ARCH. DRAWINGS AND DETAILS FOR ADDITIONAL INFORMATION.



NOTE:
MAINTAIN MIN. 12" SEPARATION BETWEEN POWER AND SIGNAL CONDUITS.

UNDERGROUND CONDUIT DETAIL

REF. | SCALE: NO SCALE | DTL. NO. A



SECTION VIEW - CONDUIT RISER

REF. | SCALE: NO SCALE | DTL. NO. B

DSA SUBMITTAL DATE: 9.26.2017

ALL DRAWINGS AND WRITTEN MATERIAL APPEARING HEREIN CONSTITUTE THE ORIGINAL AND UNPUBLISHED WORK OF THE ARCHITECT AND THE SAME MAY NOT BE DUPLICATED, USED OR DISCLOSED WITHOUT THE WRITTEN CONSENT OF THE ARCHITECT.

P-LINE CONSULTING
20803 e. valley blvd., ste. 206
walnut, ca 91789
c. 714.747.7263
f. 909.839.0123
e. leny@plineconsulting.com
Leny F. Gallego
Principal

LICENSED ARCHITECT
PEDRO M. BERNABE
No. C-22914
EXP. 3/31/19
RENEWAL DATE
STATE OF CALIFORNIA

CONSULTANT

WBM & Associates
Consulting Electrical Engineers
2060-D E. Avenida De Los Arboles #109
Thousand Oaks, CA 91362
TEL (805) 368-1066

REGISTERED PROFESSIONAL ENGINEER
MURRAY BLITZ
E12424
Exp. 9/30/17
ELECTRICAL
STATE OF CALIFORNIA

D.S.A. STAMP
DSA FILE NO. 19-25
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
AC 03 | 18460 | Co | DB
DATE SEP 27 2017

THE ILLUSTRATIONS INDICATED ON THIS SHEET ARE TO REPRESENT THE ARCHITECTURAL DESIGN CONCEPT OF THE PROJECT ONLY. THE DIMENSIONS OF THE BUILDING, THE ELECTRICAL ELEMENTS, AND THE TYPE OF STRUCTURAL, MECHANICAL, AND/OR ELECTRICAL SYSTEMS REPRESENTED DO NOT NECESSARILY PROVIDE THE FULL DESCRIPTION OF THE WORK REQUIRED FOR THE PERFORMANCE OF ALL ACTIVITIES TO COMPLETE THE INSTALLATION. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL MATERIALS AND LABOR REQUIRED FOR THE PROPER EXECUTION OF THE CONTRACT DOCUMENTS CONSISTENT WITH ALL APPLICABLE CODES AND ACCEPTABLE CONSTRUCTION PRACTICES.

Revision(s)	Date
No. Remarks	

Project Title:
RELOCATION of
PORTABLE CLASSROOM BUILDING
PC A#04-104801

To:
GROVECENTER
ELEMENTARY SCHOOL

Owner:
COVINA-VALLEY
UNIFIED SCHOOL DISTRICT

Project Address:
775 N. LARK ELLEN AVE.
COVINA, CA 91722
T.626.974.4400

Project Tracking No.
64436-177

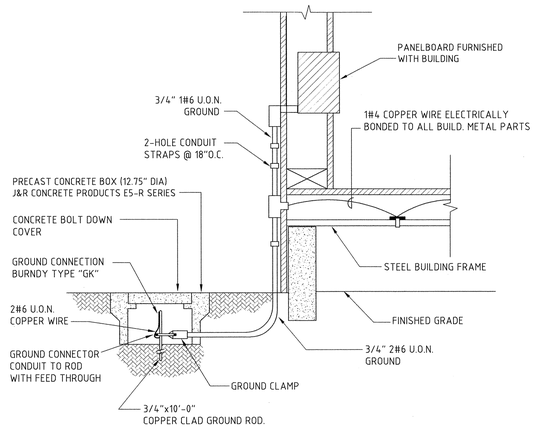
Project No.
CVUSD_GES81517

Sheet Title
POWER AND SIGNAL PLAN,
PANEL SCHEDULES
AND DETAILS

Designed: KW
Drawn:
Checked: KW/MB
Plot Date: 9.21.17
Filename:
Drawing No. E3
Sheet No. of

RELOCATION OF PORTABLE CLASSROOM BUILDING

NOTE:
PROVIDE ADDITIONAL GROUND RODS AS REQUIRED TO ACHIEVE MAX. OF 25 OHM RESISTANCE TO EARTH. SITE INSPECTOR TO WITNESS AND VERIFY GROUNDING TESTS.



SERVICE GROUND AND BOND DETAIL — A

REF. | SCALE: NO SCALE | DTL. NO.

LOAD CALCULATION - "MS"

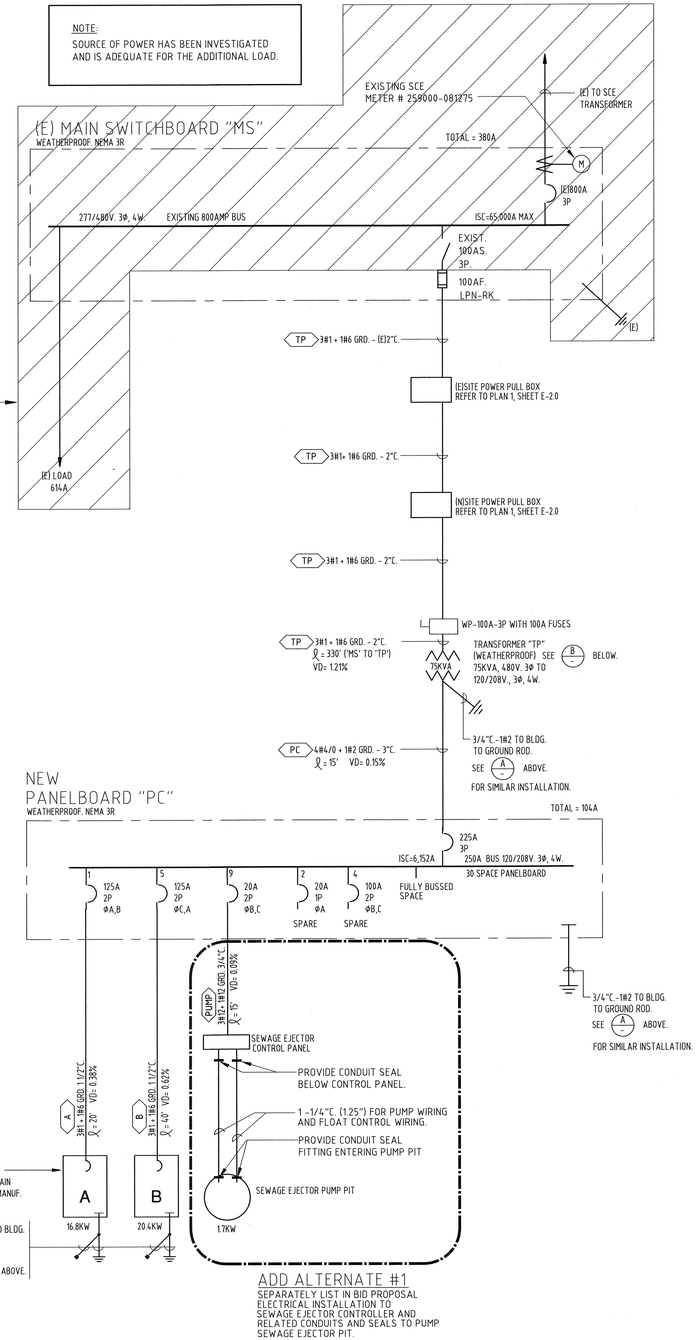
MAXIMUM PEAK DEMAND x 125% (PER CEC220-87) OCTOBER 2016	=	268.8 KW.
NEW ADDITIONAL LOAD	=	47.0 KW.
TOTAL	=	315.8 KW.
@ 277/480V/3Ø, 4W = 380 AMPS		

SINGLE LINE NOTES

1. ALL SWITCHBOARDS AND PANEL BOARDS SHALL BE CONSTRUCTED PER THE "CALIFORNIA ELECTRICAL CODE" AND AND ALL ADOPTED AMENDMENTS.
2. ALL FUSES SHALL BE MANUFACTURED BY "BUSSMAN CO." AND FURNISHED AS FOLLOWS:
   0-600AMP, MOTOR LOADS TYPE LPS-RK (600V), TYPE LPN-RK (250V)
   601-6000AMP, ALL LOADS TYPE KTU (600V).
   0-600AMP, NON-MOTORS LOADS TYPE KTS-R (600V), TYPE KTN-R (250V)
3. ALL SWITCHBOARDS SHALL HAVE WITHSTAND RATING GREATER THAN THE AVAILABLE FAULT CURRENT.
4. ALL OVERCURRENT DEVICES IN EQUIPMENT SHALL BE U.L. LISTED TO INTERRUPT THE AVAILABLE FAULT CURRENT.
5. ALL SWITCHBOARDS SHALL BE GROUNDED IN ACCORDANCE WITH THE "CALIFORNIA ELECTRICAL CODE" AND ALL ADOPTED AMENDMENTS.
6. ALL DISTRIBUTION EQUIPMENT AND SUB-PANELS SHALL BE OF THE SAME MANUFACTURER.
7. WHERE CONTACTORS OR RELAYS ARE USED FOR CONTROLLING APPLIANCES OR MOTORS, THE CONTACTS OF THE CONTROLLING DEVICES SHALL BE SUITABLE FOR HANDLING THE IN-RUSH OF THE RESPECTIVE APPLIANCES OR MOTOR.
8. DISTRIBUTION SYSTEM SHALL BE FULLY RATED FOR THE AVAILABLE FAULT CURRENT.
9. FEEDER LENGTHS ARE SHOWN FOR VOLTAGE DROP PURPOSES ONLY AND SHALL NOT BE USED FOR MATERIAL TAKE-OFF.
10. SOURCE OF POWER HAS BEEN INVESTIGATED AND IS ADEQUATE FOR THE ADDITIONAL LOAD.
11. SITE INSPECTOR TO WITNESS AND VERIFY GROUNDING TESTS.

NOTE:
SOURCE OF POWER HAS BEEN INVESTIGATED AND IS ADEQUATE FOR THE ADDITIONAL LOAD.

HATCHED AREA DENOTES EXISTING TO REMAIN.



ADD ALTERNATE #1

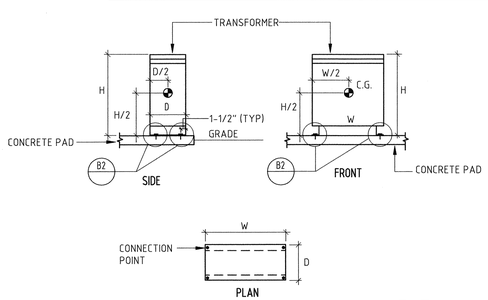
SEPARATELY LIST IN BID PROPOSAL ELECTRICAL INSTALLATION TO SEWAGE EJECTOR CONTROLLER AND RELATED CONDUITS AND SEALS TO PUMP SEWAGE EJECTOR PIT.

SINGLE LINE DIAGRAM — 1

REF. | SCALE: NO SCALE | DTL. NO.

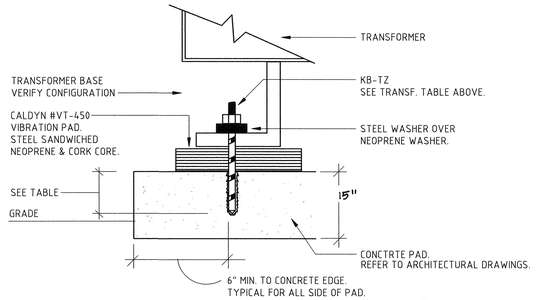
TRANSFORMER

TRANSFORMER	LOCATION	KVA RATING	WEIGHT IN POUNDS	DIMENSIONS (W, D, H)	KWIK BOLT-TZ (ICC ESR 1917)
TP	NEW RELO NORTH SIDE	75	570	31"W x 24"D x 43"H	4-1/2"Ø x 3-1/2" MINIMUM EMBEDMENT. (2) EACH LONG SIDE.



TRANSFORMER MOUNTING DETAIL — B1

REF. | SCALE: NO SCALE | DTL. NO.



TRANSFORMER MOUNTING DETAIL — B2

REF. | SCALE: NO SCALE | DTL. NO.

TRANSFORMER MOUNTING DETAILS — B

REF. | SCALE: NO SCALE | DTL. NO.

DSA SUBMITTAL DATE: 9.26.2017

ALL DRAWINGS AND WRITTEN MATERIAL APPEARING HEREIN CONSTITUTE THE ORIGINAL AND UNPUBLISHED WORK OF THE ARCHITECT AND THE SAME MAY NOT BE DUPLICATED, USED OR DISCLOSED WITHOUT THE WRITTEN CONSENT OF THE ARCHITECT.

P-LINE CONSULTING
20803 e. valley blvd., ste. 206
walnut, ca 91789
c: 714.747.7263
f: 909.839.0123
e: leny@plineconsulting.com
Leny F. Gallego
Principal

LICENSED ARCHITECT — LEONY FRANCISCO GALLEGO — C-32014 — EXP. 3/31/19 RENEWAL DATE — STATE OF CALIFORNIA

CONSULTANT

WBM & Associates
Consulting Electrical Engineers
2060-D E. Avenida De Los Arboles #109
Thousand Oaks, CA 91362
TEL (805) 368-1096

REGISTERED PROFESSIONAL ENGINEER — MURRAY BLITZ — E12424 — Exp. 9/30/17 — ELECTRICAL — STATE OF CALIFORNIA

D.S.A. STAMP
DSA FILE NO. 19-25
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
03-118460
AC AK FLS CO SS TD
DATE

THE ILLUSTRATIONS INDICATED ON THIS SHEET ARE TO REPRESENT THE ARCHITECTURAL DESIGN CONCEPT OF THE PROJECT ONLY. THE DIMENSIONS OF THE BUILDING, THE ELECTRICAL ELEMENTS, AND THE TYPE OF STRUCTURAL, MECHANICAL, AND/OR ELECTRICAL SYSTEMS REPRESENTED DO NOT NECESSARILY PROVIDE THE FULL DESCRIPTION OF THE WORK REQUIRED FOR THE PERFORMANCE OF ALL ACTIVITIES TO COMPLETE THE INSTALLATION. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL MATERIALS AND LABOR REQUIRED FOR THE PROPER EXECUTION OF THE CONTRACT DOCUMENTS CONSISTENT WITH ALL APPLICABLE CODES AND ACCEPTABLE CONSTRUCTION PRACTICES.

Revision(s) Date

No.	Remarks

Project Title:
RELOCATION of
PORTABLE CLASSROOM BUILDING
PC A#04-104801

To:
GROVECENTER
ELEMENTARY SCHOOL

Owner:
COVINA-VALLEY
UNIFIED SCHOOL DISTRICT

Project Address:
775 N. LARK ELLEN AVE.
COVINA, CA 91722
T.626.974.4400

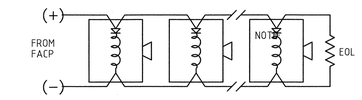
Project Tracking No.
64436-177

Project No.
CVUSD_GES81517

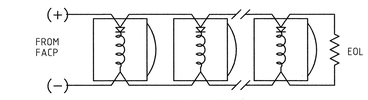
Sheet Title
SINGLE LINE DIAGRAM AND DETAILS

Designed: KW
Drawn:
Checked: KW/MB
Plot Date: 9.21.17
Filename:
Drawing No. E4
Sheet No. of

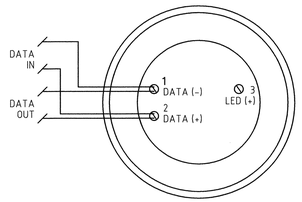
RELOCATION OF PORTABLE CLASSROOM BUILDING



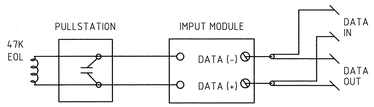
SPPEAKERS



STROBE LIGHTS



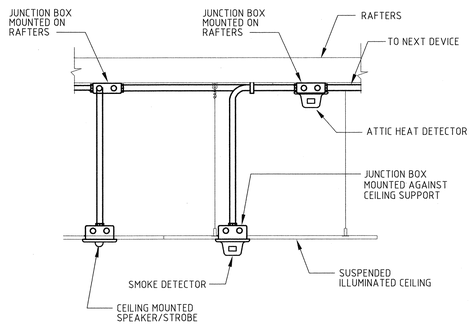
ADDRESSABLE SMOKE/HEAT DETECTOR



MANUAL PULL STATION

FIRE ALARM TYP. WIRING DIAGRAM

NO SCALE — FILE NAME — 1

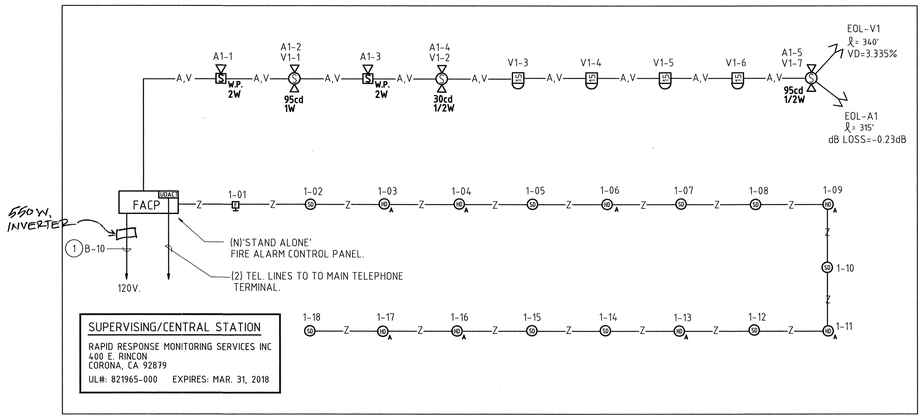


SMOKE, HEAT AND CEILING SPEAKER

NO SCALE — FILE NAME — 2

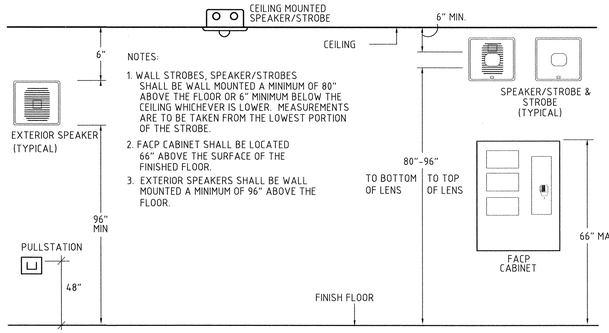
FIRE ALARM SEQUENCE OF OPERATION

ACTION \ DEVICE	MANUAL PULL STATION	AREA SMOKE DETECTOR	AREA ATTIC HEAT DETECTOR	120VAC POWER FAILURE
SOUND CONTROL PANEL TROUBLE BUZZER	ON WIRING FAULT	ON WIRING FAULT	ON WIRING FAULT	YES
ACTIVATE RELAY FOR MONITORING (ALARM OR TROUBLE)	YES	YES	YES	YES
ANNUNCIATE AT FIRE CONTROL PANEL ANNUNCIATOR (ALARM OR TROUBLE)	YES	YES	YES	YES
ACTIVATE AUDIBLE/ VISUAL ALARM SIGNAL THROUGHOUT BUILDING	YES	YES	YES	NO
AUTO-DIAL TO UL LISTED CENTRAL MONITORING STATION COMMUNICATOR INTERNAL WITH FACP	YES	YES	YES	YES



FIRE ALARM RISER DIAGRAM

REF. — SCALE: NO SCALE — 2 DTL. NO.



DEVICE MOUNTING HEIGHT

NO SCALE — FILE NAME — 3

FIRE LIFE SAFETY NOTES
COMPLETE AUTOMATIC FIRE ALARM SYSTEM SUBMITTAL

THE AUTOMATIC ALARM SYSTEM SHALL COVER ALL ROOMS AND AREAS AND UPON ACTIVATION OF AN INITIATING DEVICE ALERT ALL OCCUPANTS AND TRANSMIT THE ALARM, SUPERVISORY, AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION. (EXEMPTION: HEAT DETECTORS ARE NOT REQUIRED IN AREAS AS DEFINED IN CALIFORNIA FIRE CODE (CFC) SEC. 907.2.3.6.1

THE AUTOMATIC ALARM SYSTEM SHALL BE INSTALLED, TESTED, AND MAINTAINED IN ACCORDANCE WITH THE STATE FIRE MARSHAL'S REGULATIONS CFC 907 AND NFPA 72.

THE FIRE ALARM SYSTEM SHALL CONFORM TO CALIFORNIA ELECTRICAL CODE AND CFC SECTION 9. INSTALLATION OF THE SYSTEM SHALL NOT BEGIN UNTIL DETAILED PLANS AND SPECIFICATIONS, INCLUDING SFM LISTING NUMBER FOR EACH COMPONENTS, HAVE BEEN APPROVED BY DSA. UPON COMPLETION OF INSTALLATION, A TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF THE INSPECTOR OF RECORD.

PER CFC SECTION 907.2.3.5, FIRE ALARM SYSTEM SHALL TRANSMIT THE ALARM, SUPERVISORY & TROUBLE SIGNAL TO AN APPROVED SUPERVISING STATION.

ALL NOTIFICATION APPLIANCES WITHIN A SIGNALING ZONE SHALL BE SYNCHRONIZED. (NFPA 72, 24.4.2.9.2)

EXISTING FIRE ALARM SYSTEM SHALL REMAIN IN OPERATION DURING CONSTRUCTION, SHOULD ANY PORTION OF SYSTEM BE DISABLED DURING CONSTRUCTION, CONTRACTOR SHALL ARRANGE FOR A "FIRE WATCH" DURING CONSTRUCTION FOR THECONSTRUCTION SITE AND/OR FOR EXISTING BUILDINGS WHILE FIRE SAFETY SYSTEMS ARE ARE NON-FUNCTIONAL FOR ANY REASON AS A RESULT OF THE CONSTRUCTION PER CFC CHAPTER 14.

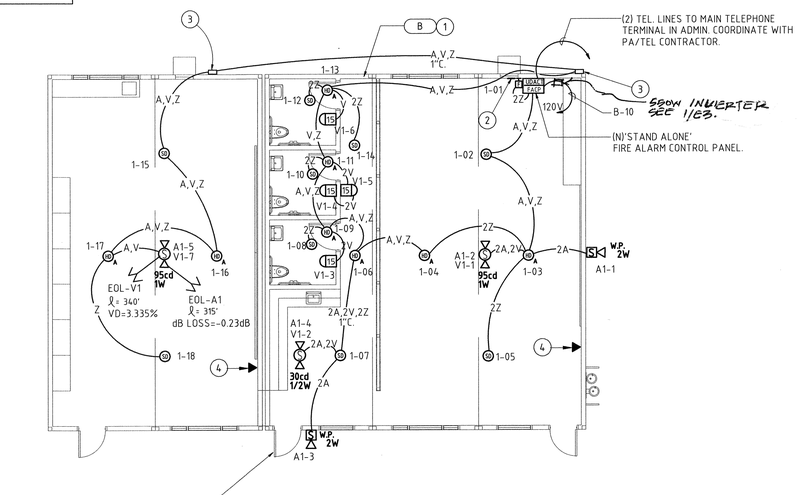
A 'STAND ALONE' AUTOMATIC FIRE ALARM SYSTEM SHALL BE INSTALLED. SEE E5 AND E6 FOR ADDITIONAL INFORMATION, SYMBOLS, DETAILS, AND CALCULATIONS.

FIRE ALARM PLAN REFERENCE NOTES:

1. PROVIDE AND CONNECT TO NEW 20A-1P CIRCUIT BREAKER IN PANEL 'B'. PROVIDE LOCK-ON DEVICE AT CIRCUIT BREAKER, LABEL CIRCUIT BREAKER "FIRE ALARM POWER SUPPLY".
2. PROVIDE A PERMANENT SIGN IS AFFIXED NEXT TO THE MICROPHONE WITH INSTRUCTIONS ON ITS PROPER USE. (NFPA 72, 24.3.2)
3. EXISTING WP 6"X6"X8"D FIRE ALARM PULL BOX.
4. PA/TELEPHONE HANSET FOR METHOD OF COMMUNICATION TO ADMINISTRATION FRONT OFFICE. CABLING AND HANDSET BY DISTRICT COMMUNICATIONS CONTRACTOR.

NOTE:

ALL FIRE ALARM CONDUITS SHALL BE 3/4" UNLESS OTHERWISE INDICATED. REFER TO INTERIOR CONDUIT SCHEDULE AND WIRE SCHEDULE THIS SHEET.



FIRE ALARM PLAN

REF. — SCALE: 1/8"=1'0" — 1 DTL. NO. — NORTH

INTERIOR CONDUIT SCHEDULE

1"	3/4"	3/4"
2A,2V,Z	A	A,V, Z
2A,2V,2Z	Z	2V
	V	2A
	2Z	V,Z
	V,Z	A,Z
	A,2Z	2A,2V

WIRE SCHEDULE

DESIG.	DEVICE / FUNCTION	DESCRIPTION	COLOR CODE
A	VOICE EVACUATION AUDIO OUTPUT CIRCUIT 2 #16 SPEAKER CABLE - SHIELDED	VOICE AUDIO (SPEAKERS) - WEST PENN D991 OR EQUAL	RED JACKET
V	VISUAL NOTIFICATION DEVICES 2 #12 THHN/THWN	VISUAL (STROBES) 2 #12 THHN/THWN	ORANGE + & PURPLE -
Z	SLC CIRCUIT 2 #14 THWN	2 #14 THHN/THWN	YELLOW + & BLUE -

NOTE:
QUANTITY IN FRONT OF LETTER INDICATES QUANTITY OF RESPECTIVE CABLE TYPES.
EXAMPLE: '2A' DESIGNATES (2) TYPE 'A' CABLES.

FIRE ALARM SYSTEM CIRCUITS CLASS AND STYLE

INITIATING DEVICE CIRCUITS (IDC), NOTIFICATION APPLIANCE CIRCUIT (NAC), AND SIGNALING LINE CIRCUITS (SLC) SHALL BE OF THE CLASS AND STYLE AS SPECIFIED IN FIRE ALARM SPECIFICATIONS AND AS LISTED BELOW:

1. VISUAL APPLIANCE CIRCUITS (NAC) - CLASS B (NFPA STYLE Y).
2. EMERGENCY VOICE COMMUNICATION CIRCUITS (EVAC) - CLASS B (NFPA STYLE Y).
3. SIGNALING LINE CIRCUITS (SLC) - CLASS B

DSA SUBMITTAL DATE: 9.26.2017

ALL DRAWINGS AND WRITTEN MATERIAL APPEARING HEREIN CONSTITUTE THE ORIGINAL AND UNPUBLISHED WORK OF THE ARCHITECT AND THE SAME MAY NOT BE DUPLICATED, USED OR DISCLOSED WITHOUT THE WRITTEN CONSENT OF THE ARCHITECT.

P-LINE CONSULTING
20803 e. valley blvd., ste. 206
walnut, ca 91789
■ o: 714.747.7263
■ f: 909.839.0123
■ e: leny@plineconsulting.com
Leny F. Gallego
Principal

LICENSED ARCHITECT — PEDRO M. GUERRERO — No. C-22014 — EXP. 3/31/19 RENEWAL DATE — STATE OF CALIFORNIA

CONSULTANT

WBM & Associates
Consulting Electrical Engineers
2060-D E. Avenida De Los Arboles #109
Thousand Oaks, CA 91362
TEL (805) 368-1096

REGISTERED PROFESSIONAL ENGINEER — MURRAY BLUTE — E12444 — Exp. 9/30/17 — ELECTRICAL — STATE OF CALIFORNIA

D.S.A. STAMP
DSA FILE NO. 19-25
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
03-118460
APPLICATION — PLS — SS — DATE: SEP 27 2017

THE ILLUSTRATIONS INDICATED ON THIS SHEET ARE TO REPRESENT THE ARCHITECTURAL DESIGN CONCEPT OF THE PROJECT ONLY. THE DIMENSIONS OF THE BUILDING, THE ELECTRICAL ELEMENTS, AND THE TYPE OF STRUCTURAL, MECHANICAL, AND/OR ELECTRICAL SYSTEMS REPRESENTED DO NOT NECESSARILY PROVIDE THE FULL DESCRIPTION OF THE WORK REQUIRED FOR THE PERFORMANCE OF ALL ACTIVITIES TO COMPLETE THE INSTALLATION. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL MATERIALS AND LABOR REQUIRED FOR THE PROPER EXECUTION OF THE CONTRACT DOCUMENTS CONSISTENT WITH ALL APPLICABLE CODES AND ACCEPTABLE CONSTRUCTION PRACTICES.

Revision(s)	Date
No. Remarks	

Project Title:
RELOCATION of
PORTABLE CLASSROOM BUILDING
PC A#04-104801

To:
GROVECENTER
ELEMENTARY SCHOOL

Owner:
COVINA-VALLEY
UNIFIED SCHOOL DISTRICT

Project Address:
775 N. LARK ELLEN AVE.
COVINA, CA 91722
T.626.974.4400

Project Tracking No.
64436-177

Project No.
CVUSD_GES81517

Sheet Title
FIRE ALARM PLAN, RISER, SCHEDULES AND DETAILS

Designed: KW
Drawn:
Checked: KW/MB
Plot Date: 9.21.17
Filename:
Drawing No. E5
Sheet No. of

RELOCATION OF PORTABLE CLASSROOM BUILDING

FIRE ALARM GENERAL NOTES

1. CONSULT WITH THE CONSTRUCTION MANAGER AND/OR THE IOR BEFORE STARTING THE WORK.
2. WHERE EXISTING STRUCTURAL WALLS OR FLOORS ARE CORED FOR NEW CONDUIT RUNS, SEPARATION BETWEEN CORED HOLES SHALL BE THREE INCHES FROM NEW OR EXISTING HOLES, UNLESS DIRECTED OTHERWISE BY THE ARCHITECT/ENGINEER AND THE DSA FIELD ENGINEER. CONTRACTOR SHALL PROVIDE THE SERVICES OF AN INDEPENDENT TESTING LAB TO LOCATE STRUCTURAL REINFORCING MEMBERS PRIOR TO CORING HOLES THROUGH WALL BEAMS, FLOORS, ETC. IN ADDITION, ALL CORED SURFACES SHALL BE VERIFIED FOR PRESENCE OF ANY HAZARDOUS MATERIALS, SUCH AS ASBESTOS OR LEAD.
3. IT IS THE INTENT OF THESE DRAWINGS THAT THIS BE A COMPLETE FIRE ALARM JOB. ANY ERRORS OR OMISSIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER PRIOR TO BIDDING THE JOB.
4. REFER TO THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS, EQUIPMENT AND MATERIALS APPROVED FOR USE IN THIS CONTRACT.
5. ALL EXPOSED RACEWAYS AND JUNCTION BOXES WITHIN FINISHED BUILDING SPACES SHALL BE WIREMOLD, UNLESS SPECIFICALLY SHOWN OTHERWISE. ALL EXPOSED DEVICE BACK BOXES WITHIN FINISHED BUILDING SPACES SHALL BE EITHER WIREMOLD OR FACTORY SUPPLIED BACK BOXES SUITABLE FOR SURFACE MOUNTING.
6. ALL FIRE ALARM EQUIPMENT, DEVICES, J-BOXES, RACEWAYS, ETC. EXPOSED TO WEATHER SHALL BE WEATHERPROOF.
7. ALL RACEWAYS, INCLUDING CONDUITS, WIREMOLDS, ETC. SHALL BE SIZED PER C.E.C. FOR THE NUMBER AND SIZE OF CONDUCTORS ENCLOSED IN A RACEWAY, U.O.N. EXCEPT MINIMUM WIREMOLD SIZE SHALL BE WM700 AND MINIMUM CONDUIT SIZE SHALL BE 3/4"C. (SEE "RACEWAY AND WIRE SCHEDULE", THIS SHEET).
8. ALL CONDUIT PENETRATIONS THROUGH FIRE-RATED WALLS, FLOORS AND CEILINGS SHALL BE SEALED WITH U.L. APPROVED FIRESTOP SYSTEMS BY A QUALIFIED INSTALLER AND AS REQUIRED FOR WALL/FLOOR FIRE RATING AND THE TYPE OF CONSTRUCTION, EXCEPT FIRESTOP SYSTEM SHALL HAVE A MINIMUM FIRE RATING OF 1 HOUR FOR WALLS AND 3 HOURS FOR FLOORS. IF REQUIRED, CONSULT THE ARCHITECT OR THE IOR FOR FIRE RATING OF SPECIFIC WALLS OR FLOORS.
9. THE CONTRACTOR SHALL VISIT THE SITE OF THE WORK AND THOROUGHLY FAMILIARIZE HIMSELF WITH THE WORKING CONDITIONS AND THE EXACT NATURE AND EXTENT OF THE WORK TO BE DONE, TAKING INTO ACCOUNT ANY SPECIAL OR UNUSUAL FEATURES PECULIAR TO THIS JOB.
10. THE CONTRACTOR SHALL EXAMINE ALL CONTRACT PLANS AND EXISTING FIELD CONDITIONS IN ORDER TO LOGICALLY LOCATE WORK IN ACCORDANCE WITH EXISTING CABINETS, BEAMS, FURRING, DOOR SWINGS, DUCTS, PIPES AND CEILINGS. THE INSTALLATION OF EQUIPMENT, DEVICES, PULL BOXES, CONDUITS, ETC. UNDER THIS PROJECT SHALL COMPLY WITH ALL APPLICABLE ADA REQUIREMENTS.
11. PROVIDE PROTECTIVE COVERS FOR FIRE ALARM DEVICES AS FOLLOWS;
    a. SMOKE DETECTORS, VISUAL AND AUDIBLE/VISUAL DEVICES IN STUDENT LOCKER ROOMS, AND STUDENT RESTROOMS.
12. EXPOSED RACEWAYS, PULL BOXES, TERMINAL CABINETS, POWER SUPPLIES, HARDWARE AND OTHER TYPES OF FIRE ALARM EQUIPMENT THAT SHALL BE PAINTED TO MATCH THE SURFACES WHERE INSTALLED.
13. ALL FIRE ALARM MATERIALS, EQUIPMENT, DEVICES, BOXES, CONDUIT, WIRE, CABLE, ETC. USED ON THIS PROJECT SHALL BE NEW, UNLESS OTHERWISE NOTED.
14. A PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT SHALL PROVIDE CONTINUOUS INSPECTIONS OF THE WORK.
15. WIRING INSTALLATION REQUIREMENTS:
    a. ALL WIRING INCLUDING ELECTRICAL CONDUCTORS AND FIRE ALARM CABLES USED ON THIS PROJECT, REGARDLESS IF CONCEALED IN WALLS, CEILINGS, ATTICS, CRAWL SPACES, ETC. OR RUN EXPOSED, SHALL BE INSTALLED IN RACEWAYS. USE OF OPEN WIRING OF ANY KIND AND IN ANY LOCATION IS PROHIBITED - NO EXCEPTIONS.
    b. ALL FIRE ALARM SYSTEM RACEWAYS AND PULL BOXES SHALL BE DEDICATED TO FIRE ALARM ONLY, AND SHALL NOT BE USED FOR ANY OTHER WIRING, WHERE IT IS NOT POSSIBLE TO PROVIDE DEDICATED UNDERGROUND OR ABOVEGROUND PULL BOXES, OTHER SIGNAL, BUT NOT POWER, PULL BOXES MAY BE USED, HOWEVER, MEANS OF PHYSICAL AND ELECTRICAL SEPARATION OF FIRE ALARM WIRING FROM ALL OTHER WIRING SHALL BE PROVIDED.
    c. SPLICING OF FIRE ALARM SYSTEM WIRING IN JUNCTION BOXES, PULL BOXES, ETC., IS NOT ALLOWED. ALL TERMINATIONS SHALL BE MADE IN TERMINAL CABINETS OR TERMINAL BLOCKS OR ON FIRE ALARM EQUIPMENT OR DEVICE TERMINALS.
    d. ALL WIRING SHALL BE CUT FOR IN AND OUT. WIRING SHALL NOT BE LOOPED THROUGH DEVICES.
    e. POINT AND COMMON ANNUNCIATION, AND T-TAPPING ARE PROHIBITED.
16. HEAT DETECTORS INSTALLED ABOVE SUSPENDED CEILING SHALL HAVE THEIR LOCATIONS MARKED BELOW THE CEILING AND BE EASILY ACCESSIBLE.
17. THE CONTRACTOR IS RESPONSIBLE TO LOCATE EXISTING EXPANSION JOINTS, AND TO PROVIDE SLIDING AND DEFLECTING FITTINGS, AS SPECIFIED, IN EACH CONDUIT INSTALLED UNDER THIS PROJECT WHICH IS CROSSING THESE JOINTS.
18. CONTRACTOR TO DEVELOP THEIR OWN SHOP DRAWINGS. THE ARCHITECT/ENGINEER WILL PROVIDE ELECTRONIC FILES FOR BACKGROUNDS ONLY.
19. THE ENTIRE FIRE ALARM WORK, INSTALLED UNDER THIS PROJECT, SHALL COMPLY WITH ALL APPLICABLE PROVISIONS OF C.F.C., SECTION 907 AND NFPA 72.
20. FIRE ALARM DEVICES THAT HAVE END-OF-LINE RESISTORS INSTALLED IN THEM SHALL BE SO MARKED, INCLUDING AUDIBLE OR VISUAL LOOP NUMBER (EXAMPLE; "ELR-A1"), AND THIS MARKING SHALL BE DONE IN SUCH A MANNER THAT IT IS EASILY SEEN BY MAINTENANCE PERSONNEL.
21. "LABEL DESCRIPTIONS" INDICATING DEVICE TYPE AND LOCATION, THAT ARE DISPLAYED ON THE FIRE ALARM LCD DISPLAYS, SHALL BE CLEAR AND EASILY UNDERSTOOD BY THE OFFICE STAFF. DESCRIPTION SHALL BE BASED ON THE STAFF'S UNDERSTANDING OF THE SITE AND NOT IN INFORMATION TAKEN FROM DRAWINGS. VERIFY THIS INFORMATION WITH THE SCHOOL ADMINISTRATION PRIOR TO PROGRAMMING.
22. AFTER ALL FIRE ALARM EQUIPMENT AND DEVICES ARE INSTALLED, AND PROGRAMMING IS COMPLETED, THE FIRE ALARM DEVICE MAP IN THE SCHOOL MAIN OFFICE SHALL BE UPDATED TO INDICATE TO SCHOOL PERSONNEL THE LOCATION OF THE NEW DEVICES.
23. EXISTING FIRE ALARM SYSTEM SHALL REMAIN IN OPERATION DURING CONSTRUCTION, SHOULD ANY PORTION OF SYSTEM BE DISABLED DURING CONSTRUCTION. PROVIDE "FIRE WATCH" PER CFC, SECTION 1404.05.
24. THE SYSTEM SHALL CONFORM TO TITLE 19 AND TITLE 24 / CEC ARTICLE 760 WITH THHN / THWN BEING BEING A MINIMUM.
25. ALL WALL-MOUNTED VISUAL SIGNALING APPLIANCES SHALL HAVE THEIR BOTTOMS AT HEIGHTS ABOVE THE FINISHED FLOOR OF NOT LESS THAN 80 INCHES AND NO GREATER THAN 96 INCHES PER NFPA 72, 2016 EDITION.
26. ALL EQUIPMENT SHALL BE U.L. AND C.S.F.M. LISTED.
27. ALL WIRING SHALL BE IN ACCORDANCE WITH THE C.E.C. AND AUTHORITIES HAVING JURISDICTION.
28. ACCESS PANELS FOR SERVICING AND TROUBLE SHOOTING OF FIRE ALARM DEVICES REQUIRED FOR INTERFACE TO RELATED SYSTEMS SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
29. DO NOT DEVIATE FROM CONDUIT RUNS AS SHOWN ON FLOOR PLANS WITHOUT PRIOR APPROVAL FROM SYSTEM SUPPLIER. FACTOR SUCH AS EXCESSIVE VOLTAGE DROP, ADDITIONAL PARTS, ENGINEERING, ETC., THAT ARE A RESULT OF CONDUIT RUN DEVIATIONS SHALL BE THE SOLE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
30. DETECTORS SHALL NOT BE LOCATED IN A DIRECT AIRFLOW, NOR CLOSER THAN 3 FEET (900mm) FROM AN AIR DIFFUSER.
31. ALL 120VAC POWER REQUIREMENTS FOR THE FIRE ALARM SYSTEM SHALL BE FURNISHED BY THE ELECTRICAL CONTRACTOR AND SHALL MEET ALL REQUIREMENTS OF THE AUTHORITIES HAVING JURISDICTION. FIRE ALARM CIRCUITS SHALL BE CLEARLY IDENTIFIED IN PANEL DIRECTORY.
32. SMOKE DETECTOR TESTING SHALL BE ACCOMPLISHED WITH CANNED SMOKE AS PER THE MANUFACTURER'S INSTRUCTIONS. ALL SMOKE DETECTORS SHALL BE ANALOG.
33. ALL WIRING, ANNUNCIATING DEVICES AND ANNUNCIATOR PANEL SHALL BE SUPERVISED TO THE PRINCIPLE POINT OF ANNUNCIATION. THE FIRE ALARM CONTROL PANEL TO SUPERVISE THE ANNUNCIATOR PANEL, ALL INITIATING AND INDICATING DEVICE CIRCUITS.
34. ALL WIRING SHALL BE CUT FOR IN AND OUT. WIRING SHALL NOT BE LOOPED THROUGH DEVICES.
35. FIRE ALARM SYSTEM SHALL BE SUPERVISED BY A UL LISTED MONITORING COMPANY PER CBC/CFC 907.2.3.5.
36. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL 120VAC POWER REQUIREMENTS FOR THE FIRE ALARM SYSTEM, UNLESS OTHERWISE NOTED.
37. ALL FIRE ALARM WIRING MUST TEST FREE OF GROUNDS, SHORTS AND OPENS.
38. ALL STROBE CIRCUITS SHALL BE WIRED WITH #12 AWG THHN.
    ALL SPEAKER CIRCUITS SHALL BE WIRED WITH SHIELDED #16 FLP RATED.
39. ALL SLC DEVICES SHALL BE WIRED WITH 2#14 AWG THHN.
40. THE FIRE ALARM SYSTEM SHALL BE MAINTAINED AND TESTED IN ACCORDANCE WITH ARTICLE CBC 907 AND NFPA 72. PROJECT'S OWNER WILL BE RESPONSIBLE FOR COMPLIANCE WITH THIS ARTICLE.
41. ALL JUNCTION BOXES AND COVERS SHALL BE SPRAYED RED AND COVERS LABELED "FIRE ALARM".
42. CONTRACTOR SHALL VISIT THE BUILDING SITE BEFORE BIDDING THIS PROJECT. ANY DISCREPANCIES BETWEEN THE CONSTRUCTION DOCUMENTS AND SITE OBSERVATIONS SHALL BE BROUGHT TO THE ARCHITECTS ATTENTION IMMEDIATELY IN WRITING BEFORE PROCEEDING WITH THE WORK.
43. CONTRACTOR SHALL REPLACE ALL DAMAGES CEILING TILES RESULTING FROM THEIR WORK.
44. EVACS SHALL BE ACTIVATED BY ANY AUTOMATIC FIRE DETECTOR DEVICE OR MANUAL FIRE ALARM AND SHALL SOUND AN ALERT TONE FOLLOWED BY VOICE INSTRUCTIONS. (CFC 907.5.2.2)
45. TESTING AND INSPECTIONS
    A. TESTING AND INSPECTION SHALL BE AS REQUIRED BY THE NFPA-72. THE "SYSTEM RECORD OF COMPLETION" AND OTHER NFPA-72 FORMS AND DOCUMENTS SHALL BE UTILIZED AS APPLICABLE.
    B. THE INSPECTOR OF RECORD SHALL WITNESS THE TESTS AND SIGN FORMS AS THE "AHJ REPRESENTATIVE."
    C. NONCOMPLIANT TESTS SHALL BE REPORTED BY THE INSPECTOR OF RECORD AS A DEVIATION.
    D. DOCUMENTATION OF THE INSTALLATION AND TESTING OF THE EVAC, AND FIRE ALARM SYSTEM, SHALL BE ATTACHED TO THE NFPA-72 RECORD OF COMPLETION AND A COPY SHALL BE PLACED IN THE INSPECTOR OF RECORD'S JOB FILE.
    E. ALL SYSTEM DOCUMENTS MUST BE COLLECTED AND STORED ON SITE IN A DOCUMENTATION CABINET. (NFPA 72, 7.7)

FIRE ALARM SYMBOLS LIST

SYMBOL	MANUFACTURER MODEL #	DESCRIPTION	C.S.F.M. #	MOUNTING	ROUGH-IN BOX
FACP	SILENT KNIGHT #5820XL-EVS EVS-INT50W	FIRE ALARM CONTROL PANEL WITH INTEGRAL UDACT AND INTERNAL 50W AUDIO SOURCE UNIT FOR VOICE COMMUNICATION.	7165-0559:0172 7300-0559:0176	66" TO TOP OF CAN A.F.F.	20"W x 26.5"H x 4.6"D SURFACE ENCLOSURE
(SD)	SILENT KNIGHT # SK-PHOTO (DET) # B210LP (BASE)	PHOTO ELECTRIC SMOKE DETECTOR WITH DETECTOR BASE	7272-0559:0149 7300-1653:0109	CEILING	4S, 2-1/8" DEEP BOX WITH 3" O-RING
(HD) A	SILENT KNIGHT # SK-HEAT-HT (DET) # B210LP (BASE)	HEAT DETECTOR IN ATTIC AREA WITH DETECTOR BASE	7270-0559:0147 7300-1653:0109	ATTIC	4S, 2-1/8" DEEP BOX WITH 3" O-RING
F	SILENT KNIGHT # SK-PULL-SA	ADDRESSABLE SINGLE ACTION MANUAL PULL STATION	7150-0559:0161	48" TO HIGHEST POINT OF ACTIVATING LEVER OR HANDLE	SB-I/O SURFACE BACKBOX
15	SYSTEM SENSOR #SR	WALL MOUNTED STROBE FIELD SELECTABLE CANDELA SETTINGS NORMAL cd: 15, 30, 75, 95, 110, 115 STROBE CANDELA AS INDICATED ON PLANS.	7125-1653:0186	80" TO BOTTOM, 96" TO TOP A.F.F.	4S, 2-1/8" DEEP BOX WITH SINGLE GANG RING
S 95cd 1W	SYSTEM SENSOR # SPSCR	CEILING MOUNTED SPEAKER/STROBE. 25V- WATTAGE TAP SETTING AS INDICATED ON PLANS. STROBE CANDELA AS INDICATED ON PLANS.	7320-1653:0201		4S, 2-1/8" DEEP BOX
W.P. S 2W	SYSTEM SENSOR # SPRK	EXTERIOR SPEAKER W.P. 25V-2WATT TAP. WITH WEATHERPROOF BACKBOX	7320-1653:0201	96" TO BOTTOM A.F.F.	N/A
EOL	-	END OF LINE RESISTOR			

NOTE: WP = WEATHERPROOF

BATTERY CALCULATIONS — SILENT KNIGHT 5820XL-EVS FACP

DEVICE NAME	QUANTITY	SUPERVISORY CURRENT, A UNIT	SUPERVISORY CURRENT, A TOTAL	ALARM CURRENT, A UNIT	ALARM CURRENT, A TOTAL
5820XL-EVS BASIC EQUIPMENT WITH INTEGRAL UDACT	1	0.275	0.275	0.440	0.440
EVS-INT-50W INTERNAL AMPLIFIER	1	0.275	0.275	0.310	0.310
EVS-VCM VOICE CONTROL MODULE	1	0.070	0.070	0.100	0.100
SK-PHOTO PHOTOELECTRIC SMOKE DETECTOR	9	0.0003	0.0027	0.0003	0.0027
SK-HEAT-HT ATTIC HEAT DETECTOR	8	0.0004	0.0024	0.0004	0.0024
SK-PULL-SA ADDRESSABLE PULL STATION	1	0.0004	0.0004	0.0004	0.0004
SPRK EXTERIOR SPEAKER - 2WATTS	2	0	0	0.090	0.180
SPSCR INTERIOR SPEAKER - 1WATTS	2	0	0	0.045	0.090
SPSCR INTERIOR SPEAKER - 1/2WATTS	1	0	0	0.023	0.023
95cd ALARM STROBE LIGHT	2	0	0	0.181	0.362
15cd ALARM STROBE LIGHT	4	0	0	0.090	0.090
30cd ALARM STROBE LIGHT	1	0	0	0.066	0.264

STANDBY 15.03 AH
ALARM 0.467 AH
15.497 AH TOTAL
3.874 25% SPARE CAPACITY
19.371 AH TOTAL

SUB TOTAL STANDBY 0.626AMPS X 24 HRS. = 15.03 AH

SUB TOTAL ALARM 1.868 AMPS X 0.250 HRS. = 0.467 AH

26 AH MIN. BATTERY PACKS SHALL BE PROVIDED.
MOUNT BATTERIES IN SEPARATE 'RBB' ENCLOSURE BELOW FACP. (0.250 HRS. = 15 MIN.)

FIRE ALARM VISUAL DEVICE VOLTAGE DROP SCHEDULE

PANEL NAME	NAC No.	CIRCUIT No.	15 cd STROBE 0.066 AMPS No.	15 cd STROBE 0.066 AMPS AMPS	30 cd STROBE 0.090 AMPS No.	30 cd STROBE 0.090 AMPS AMPS	95 cd STROBE 0.181 AMPS No.	95 cd STROBE 0.181 AMPS AMPS	TOTAL CIRCUIT AMPS	WIRE SIZE #	WIRE SIZE CIRC MILS	TOTAL LENGTH FROM PANEL TO LAST DEVICE EOL	VOLTAGE DROP %
FACP	1	V1	4	0.264	1	0.090	2	0.362	0.716	12	6530	340'	3.335 %

FORMULA

% VOLTAGE DROP = $\frac{L \times I \times 21.6}{CM \times 20.4\ VDC}$

L = LENGTH OF CIRCUIT (FEET)
I = TOTAL AMPS IN ALARM CONDITION
21.6 = RESISTIVITY OF COPPER CONDUCTORS PER CIRCULAR MIL. (10.8 X 2 FOR TWICE THE LENGTH)
CM = CROSS SECTION AREA OF CONDUCTOR (CIRC MILS)
20.4V = 85% OF 24V AT END OF BATTERY USEFUL BATTERY LIFE
OPERATING VOLTAGE BETWEEN 16-33 VOLTS

OPERATING VOLTAGE 16VDC TO 33VDC
NOTE: VOLTAGE DROP% SHALL NOT EXCEED 10%.

RESISTANCE = (DISTANCE IN FEET x WIRE RESISTANCE IN ohms) / (1,000)
DROP VOLTAGE = (CURRENT x RESISTANCE)
% VOLTAGE DROP = (DROPPED VOLTAGE / SYSTEM VOLT)

GAUGE A.W.G	CIRC. MILS
#12	6530

SPEAKER CIRCUIT LOAD CALCULATION

SPEAKER CIRCUIT DESCRIPTION					CIRCUIT						MAXIMUM -3 dB DROP PER CIRCUIT		
AMPLIFIER #	AMPLIFIER LOCATION	CIRCUIT LOCATION	PANEL CIRCUIT NUMBER	WIRE GAUGE (18, 16, 14 12)	VOLTAGE (25 OR 70 VRMS)	INTERIOR SPKR TAPPED AT 0.5 Watts	INTERIOR SPKR TAPPED AT 1 Watt	EXTERIOR SPKR TAPPED AT 2 Watts	TOTAL CIRCUIT LOAD (WATTS)	ESTIMATED CIRCUIT LENGTH (FEET)	ACTUAL WIRE/LOSS (dB)	MAXIMUM ALLOWABLE CKT. LENGTH (FEET)	TOTAL CIRCUIT RESISTANCE (OHMS)
EVS-INT	NEW PORTABLE IN FACP	NEW PORTABLE	A1	16 AWG	25 Vrms	1	2	2	6.50 Watts	315 ft.	-0.23 dB	4,860 ft.	2.6 Ohms

NOTE:
LUMP SUM METHOD WAS USED TO CALCULATE MAXIMUM ALLOWABLE CIRCUIT LENGTH. THIS METHOD ALLOWS FOR A SMALL MARGIN OF SAFETY, TAKING INTO CONSIDERATION THE ACTUAL INSTALLED CIRCUIT ROUTING MAY DIFFER FROM WHAT IS SHOWN ON THE SHOP DRAWINGS. IF THE ACTUAL CIRCUIT LENGTH IS GOING TO EXCEED THE MAXIMUM ALLOWABLE CIRCUIT LENGTH, NOTIFY THE ELECTRICAL ENGINEER.

DSA SUBMITTAL DATE: 9.26.2017

ALL DRAWINGS AND WRITTEN MATERIAL APPEARING HEREIN CONSTITUTE THE ORIGINAL AND UNPUBLISHED WORK OF THE ARCHITECT AND THE SAME MAY NOT BE DUPLICATED, USED OR DISCLOSED WITHOUT THE WRITTEN CONSENT OF THE ARCHITECT.

P-LINE CONSULTING
20803 e. valley blvd., ste. 206
walnut, ca 91789
c: 714.747.7263
f: 909.839.0123
e: leny@plineconsulting.com
Leny F. Gallego
Principal

LICENSED ARCHITECT — PEDRO GALLEGO NUBLA — No. C-22814 — EXP. 3/31/19 RENEWAL DATE — STATE OF CALIFORNIA

CONSULTANT

WBM & Associates
Consulting Electrical Engineers
2060-D E. Avenida De Los Arboles #109
Thousand Oaks, CA 91362
TEL (805) 368-1066

REGISTERED PROFESSIONAL ENGINEER — MURRAY BLITZ — E12424 — Exp. 9/30/17 — ELECTRICAL — STATE OF CALIFORNIA

D.S.A. STAMP
DSA FILE NO. 19-25
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
03 118460
AC ✓ ELS CO SS TB
DATE SEP 27 2017

THE ILLUSTRATIONS INDICATED ON THIS SHEET ARE TO REPRESENT THE ARCHITECTURAL DESIGN CONCEPT OF THE PROJECT ONLY. THE DIMENSIONS OF THE BUILDING, THE ELECTRICAL ELEMENTS, AND THE TYPE OF STRUCTURAL, MECHANICAL, AND/OR ELECTRICAL SYSTEMS REPRESENTED DO NOT NECESSARILY PROVIDE THE FULL DESCRIPTION OF THE WORK REQUIRED FOR THE PERFORMANCE OF ALL ACTIVITIES TO COMPLETE THE INSTALLATION. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL MATERIALS AND LABOR REQUIRED FOR THE PROPER EXECUTION OF THE CONTRACT DOCUMENTS CONSISTENT WITH ALL APPLICABLE CODES AND ACCEPTABLE CONSTRUCTION PRACTICES.

Revision(s) Date

No.	Remarks

Project Title:
RELOCATION of
PORTABLE CLASSROOM BUILDING
PC A#04-104801

To:
GROVECENTER
ELEMENTARY SCHOOL

Owner:
COVINA-VALLEY
UNIFIED SCHOOL DISTRICT

Project Address:
775 N. LARK ELLEN AVE.
COVINA, CA 91722
T.626.974.4400

Project Tracking No.
64436-177

Project No.
CVUSD_GES81517

Sheet Title
FIRE ALARM NOTES, SYMBOLS LIST AND CALCULATIONS

Designed: KW
Drawn:
Checked: KW/MB
Plot Date: 9.21.17
Filename:
Drawing No. E6
Sheet No. of

RELOCATION OF PORTABLE CLASSROOM BUILDING

JOB # 5305
MODULAR CLASSROOM BUILDINGS
BUILDING SIZE: 24' x 40'
COVINA ELEMENTARY SCHOOL,
COVINA VALLEY UNIFIED SCHOOL DISTRICT

PC 04-104801

Ben Lomond and Mark Ellerbrook

DGS State of California • Department of General Services • Gray Davis, Governor
DIVISION OF THE STATE ARCHITECT
Headquarters• 1130 K Street, Suite 101 • Sacramento, CA 95814 • (916) 445-8100

STRUCTURAL TESTS AND INSPECTIONS

Testing Laboratory | Date: | File Number
Name | | Application Number
Owner / Owner
Architect
Structural Engineer

The following tests and inspections, as checked, will be required as outlined in applicable specifications.

	Concrete	Gunite	Grout	Mortar	
COMPACTED FILL					
☐ Fill material, soils/aggregate tests					Test of aggregates for mix design only
☐ Compaction control, continuous					Suitability tests of aggregates as detailed below
☐ Compaction tests only as ordered					Mix designs
☐ Bearing capacity of compacted fill					[illegible]
REINFORCING STEEL					Inspect placing
☒ Sample and test bar steel					Sample
☐ Sample and test mesh					Compression tests
☐ Inspect placing at job					Pick up samples at job
STRUCTURAL STEEL					Samples delivered to laboratory
☒ Sample and test as detailed below					Deliver sample forms to job site
☒ Shop fabrication inspection					Sample and test cement
☐ Field erection inspection					
☒ Inspection of welds - Shop					
☐ Inspection of welds - Field					
☐ Inspection of riveting or bolting - Shop					
☐ Inspection of riveting or bolting - Field					
☐ Sample and test high strength bolts and washers					
BRICK AND BLOCK					
☐ Sample and test					
☐ Test only					
☐ Inspection of placing					
☐ Core drill samples					
GLUED LAMINATED STRUCTURAL LUMBER					
☐ Fabrication inspection					
☐ Sample and test steel accessories					
☐ Inspect fabrication of steel accessories					

Suitability Tests: ☐ Sodium sulphate ☐ Structural strength ☐ Los Angeles rattler ☐ Clay (Hydrometer method) ☐ Flexibility tests ☐ Volume change

Mix designs: Concrete, Gunite, Mortar, or Grout

Material	Maximum Size	Min. Compressive Strength, PSI, Minimum					
#10 GAGE	1"	[illegible] PSI					
STRUCTURAL	[illegible]	[illegible]	[illegible] PSI				

List of structural steel members to be tested:
ALL STEEL NOT PROPERLY IDENTIFIED PER CBC CHAPTER 22 (MILL CERTS)

Is this list continued on reverse? ☐ YES ☐ NO

Other tests and inspections, together with special instructions:
CONCRETE TEST

Copies of reports to: ARCHITECT OF RECORD

By _____ Authorized Representative

Are these instructions continued on reverse? ☐ YES ☐ NO

DSA 103-1 (Revised 6/98)

"AS ALTERNATE FOR ALL SHOT PIN ATTACHMENTS, USE #10 S.T.M.S. AT THE SAME SPACING."
#10 USE MAX. 3/8" MATERIAL
#12 USE MAX. 1/2" MATERIAL

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 MINUS 20 DEGREES F, AS DETERMINED BY AWS CLASSIFICATION OR MANUFACTURER CERTIFICATION.

BUILDING CODES AND STANDARDS

2001 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE (PART 1, TITLE 24, CCR)
2001 CALIFORNIA BUILDING CODE (CBC), VOLUMES 1, 2, AND 3 (PART 2, TITLE 24, CCR) (1997 EDITION UNIFORM BUILDING CODE WITH 2001 CALIFORNIA AMENDMENTS)
2001 CALIFORNIA ELECTRICAL CODE (CEC), (PART 3, TITLE 24, CCR) (1999 EDITION NATIONAL ELECTRICAL CODE WITH 2001 CALIFORNIA AMENDMENTS)
2001 CALIFORNIA MECHANICAL CODE (CMC), (PART 4, TITLE 24, CCR) (2000 EDITION IAPMO UNIFORM MECHANICAL CODE WITH 2001 CALIFORNIA AMENDMENTS)
2001 CALIFORNIA PLUMBING CODE (CPC), (PART 5, TITLE 24, CCR) (2000 EDITION IAPMO UNIFORM PLUMBING CODE WITH 2001 CALIFORNIA AMENDMENTS)
2001 CALIFORNIA ENERGY CODE (PART 6, TITLE 24, CCR)
2001 CALIFORNIA ELEVATOR SAFETY CONSTRUCTION CODE (PART 7, TITLE 24, CCR)
2001 CALIFORNIA FIRE CODE (PART 9, TITLE 24, CCR)
2001 CALIFORNIA REFERENCED STANDARDS CODE (PART 12, TITLE 24, CCR)
NFPA 13, 1999 ED, THE INSTALLATION OF AUTOMATIC SPRINKLER SYSTEMS, AS AMENDED
NFPA 14, 2000 ED, INSTALLATION OF STANDPIPE, PRIVATE HYDRANT AND HOSE SYSTEMS
NFPA 24, 1995 ED, INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES
NFPA 72, 1999 ED, NATIONAL FIRE ALARM CODE, AS AMENDED

WITH THE SIGNING OF THESE DRAWINGS, WE ACKNOWLEDGE THAT WE HAVE REVIEWED THESE PLANS AND SPECIFICATIONS AND HAVE FOUND THEM TO BE IN GENERAL COMPLIANCE WITH THE BID DRAWINGS, SPECIFICATIONS AND ASSOCIATED ADDENDA. WHEN THESE PLANS AND SPECIFICATIONS HAVE BEEN APPROVED BY THE DIVISION OF THE STATE ARCHITECT, THEY SHALL PRESIDE OVER CONFLICTING AREAS IN THE BID DRAWINGS AND SPECIFICATIONS, AND ANY ADDENDA THERETO.

— CONFIDENTIAL —
THIS DOCUMENT AND THE INFORMATION CONTAINED HEREIN ARE THE PROPERTY OF MODTECH, INC. UNAUTHORIZED COPYING, DISCLOSURE OR OTHER UNAUTHORIZED USES ARE PROHIBITED!

DATE SIGNED SEP 24 2003
REGISTERED PROFESSIONAL ENGINEER JAMES T. SIMPSON No. 3602 STRUCTURAL STATE OF CALIFORNIA
LICENSE EXPIRES 6-30-2004
DATE SIGNED APR 16 2003
MAY 13 2004
PC
CBC 2001

BUILDING DATA

STRUCTURAL DESIGN: ORDINARY MOMENT RESISTANT FRAME
TYPE OF CONSTRUCTION: V-N
WIND LOAD (EXP C): 70 ~~MPH OR 80 MPH~~
SEISMIC ZONE 4, SEISMIC SOURCE TYPE A, DISTANCE ≤1.25 MILES
Z = .4 I = 1.0 Cv = 1.28 Nv = 2.0
R = 4.5 Ca = 0.66 Na = 1.5 SOIL TYPE = S_D
FLOOR LIVE LOAD: 50 PSF, 50+20 PSF, 100 PSF, 125 PSF, STIFFENED
ROOF LIVE LOAD: 20 PSF
OCCUPANCY: 24'x40' CLASSROOM: E-2
~~36'x40' CLASSROOM: E-1~~
~~48'x40' CLASSROOM: E-1~~
BUILDING AREA: 24'x40' BUILDING - 960 SF 96'x40' BUILDING - 3840 SF
~~36'x40' BUILDING - 1440 SF 108'x40' BUILDING - 4320 SF~~
~~48'x40' BUILDING - 1920 SF 120'x40' BUILDING - 4800 SF~~
~~60'x40' BUILDING - 2400 SF 132'x40' BUILDING - 5280 SF~~
~~72'x40' BUILDING - 2880 SF 144'x40' BUILDING - 5760 SF~~
~~84'x40' BUILDING - 3360 SF~~
COMPLIES WITH CLIMATE ZONES 1 - 15.
THIS BUILDING SHALL NOT BE USED FOR A2.1 OCCUPANCY.
THIS PC IS DESIGNED STRUCTURALLY TO SUPPORT THE WEIGHT OF A FIRE SPRINKLER SYSTEM.

LEGEND

SYMBOL	DESCRIPTION
1 / –	DETAIL-1 ON SAME SHEET AS SYMBOL
1 / F2	DETAIL-1 ON SHEET F2.
A / S2	SECTION-A ON SHEET S2.
1	KEY NOTE (ON SAME SHEET AS SYMBOL)
1	REVISION IN DRAWING
CLOUD	HIGHLIGHTS REVISED AREA
2	DOOR REFERENCE
A	WINDOW REFERENCE
FIN	FINISH ITEM(S) SEE FINISH SCHEDULE, SHEET A5.01 1
STR	STRUCTURAL ITEM(S) SEE STRUCTURAL DRAWINGS 1
PLG	PLUMBING ITEM(S) SEE PLUMBING DRAWINGS
HV	HEATING, VENTILATING & AIR CONDITIONING ITEM(S) SEE MECHANICAL DRAWINGS
EL	ELECTRICAL ITEM(S) SEE ELECTRICAL DRAWINGS
RAMP	RAMP - SEE RAMP DRAWINGS

ABBREVIATIONS

AGC	=	ABOVE GRADE CONCRETE
BGC	=	BELOW GRADE CONCRETE
CLR	=	CLEAR
DIA, ø	=	DIAMETER
GA	=	GAUGE
ID	=	INSIDE DIAMETER, IDENTIFICATION
MAX	=	MAXIMUM
MIN	=	MINIMUM
NIC	=	NOT IN CONTRACT
NTS	=	NOT TO SCALE
OC	=	ON CENTER
OD	=	OUTSIDE DIAMETER
OSB	=	ORIENTED STRAND BOARD
ROH	=	ROOF OVERHANG
SHT	=	SHEET
SIM	=	SIMILAR
STS	=	SELF TAPPING SCREW
STSMS	=	SELF TAPPING SHEET METAL SCREW
TYP	=	TYPICAL
UON, UNO	=	UNLESS OTHERWISE NOTED
WIC	=	WOODWORK INSTITUTE OF CALIFORNIA

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT 03 118460

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APP03 1 04801 DATE 06-05-04

SHEET INDEX

ARCHITECTURAL

A0.01 COVER SHEET
A1.01 FLOOR PLAN
~~A1.02 FLOOR PLAN - 18'x40'~~
~~A2.01 REFLECTED CEILING PLAN (8-LIGHTS)~~
~~A2.02 REFLECTED CEILING PLAN (10-LIGHTS)~~
A2.03 REFLECTED CEILING PLAN (12-LIGHTS)
A2.04 REFLECTED CEILING DETAILS
~~A3.01 ROOF PLAN - 26 GA/DUAL PITCH~~
A3.02 ROOF PLAN - 26 GA/MONO PITCH
A3.03 ROOF DETAILS - 26 GA.
~~A3.04 ROOF DETAILS - MISCELLANEOUS OPTIONS~~
~~A3.11 ROOF PLAN - 22 GA/DUAL PITCH~~
~~A3.12 ROOF PLAN - 22 GA/MONO PITCH~~
~~A3.13 ROOF DETAILS - 22 GA.~~
~~A3.21 ROOF PLAN - BUILT-UP ROOF/DUAL PITCH~~
~~A3.22 ROOF PLAN - BUILT-UP ROOF/MONO PITCH~~
~~A4.01 EXTERIOR ELEVATIONS - 26 GA/DUAL PITCH~~
A4.02 EXTERIOR ELEVATIONS - 26 GA/MONO PITCH
~~A4.11 EXTERIOR ELEVATIONS - 22 GA/DUAL PITCH~~
~~A4.12 EXTERIOR ELEVATIONS - 22 GA/MONO PITCH~~
~~A4.21 EXTERIOR ELEVATIONS - 26GA/DUAL PITCH/STUCCO~~
~~A4.22 EXTERIOR ELEVATIONS - 26GA/MONO PITCH/STUCCO~~
A4.31 ARCHITECTURAL DETAILS - WOOD STUDS
~~A4.32 ARCHITECTURAL DETAILS - STEEL STUDS~~
~~A4.33 ARCHITECTURAL DETAILS - PLASTER~~
~~A4.34 ARCHITECTURAL DETAILS - 1-HOUR RATED~~
A5.01 INTERIOR ELEVATIONS
A6.01 DOOR, WINDOW, AND HARDWARE SCHEDULES
A6.02 ROOM FINISH SCHEDULE
A7.01 MISCELLANEOUS OPTIONS
~~A7.02 PARAPET DETAILS~~

STRUCTURAL

F1.01 FOUNDATION PLAN - WOOD - 50, 50+20, 100 PSF
~~F1.11 FOUNDATION PLAN - WOOD - 125 PSF~~
F1.21 FOUNDATION DETAILS - 50, 50+20, 100 PSF
~~F1.22 FOUNDATION DETAILS - 125 PSF~~
~~F2.01 FOUNDATION PLAN - AGC - 50, 50+20 PSF~~
~~F2.02 FOUNDATION PLAN - AGC - 100, 125 PSF~~
~~F2.11 FOUNDATION DETAILS - ABOVE GRADE CONCRETE~~
~~F3.01 FOUNDATION PLAN - BGC - 50, 50+20 PSF~~
~~F3.02 FOUNDATION PLAN - BGC - 100, 125 PSF~~
~~F3.03 FOUNDATION PLAN - BGC - 100, 125 PSF (10'-8" COLUMNS)~~
~~F3.11 FOUNDATION DETAILS - BELOW GRADE CONCRETE~~
~~F3.12 FOUNDATION OPTIONS~~
~~F4.01 FOUNDATION PLAN/DETAILS - FLOORLESS SYSTEM~~
S1.01 FLOOR FRAMING PLAN - WOOD DECK
~~S1.11 FLOOR FRAMING PLAN - CONCRETE DECK~~
~~S1.20 FLOOR FRAMING PLAN - FLOORLESS SYSTEM~~
~~S2.01 ROOF FRAMING PLAN - 26 GA/DUAL PITCH - (8 & 12 LIGHTS)~~
S2.02 ROOF FRAMING PLAN - 26 GA/MONO PITCH - (8 & 12 LIGHTS)
~~S2.03 ROOF FRAMING PLAN - 26GA/DUAL PITCH - (10 LIGHTS)~~
~~S2.04 ROOF FRAMING PLAN - 26GA/MONO PITCH - (10 LIGHTS)~~
~~S2.11 ROOF FRAMING PLAN - 22 GA/DUAL PITCH - (8 & 12 LIGHTS)~~
~~S2.12 ROOF FRAMING PLAN - 22 GA/MONO PITCH - (8 & 12 LIGHTS)~~
~~S2.13 ROOF FRAMING PLAN - 22 GA/DUAL PITCH - (10 LIGHTS)~~
~~S2.14 ROOF FRAMING PLAN - 22 GA/MONO PITCH - (10 LIGHTS)~~
~~S3.01 STRUCTURAL FRAMING - 26 GA/DUAL - (8 & 12 LIGHTS)~~
S3.02 STRUCTURAL FRAMING - 26 GA/MONO - (8 & 12 LIGHTS)
~~S3.03 STRUCTURAL FRAMING - 26 GA/DUAL - (10 LIGHTS)~~
~~S3.04 STRUCTURAL FRAMING - 26 GA/MONO - (10 LIGHTS)~~
~~S3.11 STRUCTURAL FRAMING - 22 GA/DUAL - (8 & 12 LIGHTS)~~
~~S3.12 STRUCTURAL FRAMING - 22 GA/MONO - (8 & 12 LIGHTS)~~
~~S3.13 STRUCTURAL FRAMING - 22 GA/DUAL - (10 LIGHTS)~~
~~S3.14 STRUCTURAL FRAMING - 22 GA/MONO - (10 LIGHTS)~~
~~S3.31 STRUCTURAL DETAILS - FLOORLESS SYSTEM~~
S4.01 WALL FRAMING - WOOD STUDS
S4.02 WALL FRAMING DETAILS - WOOD STUDS
~~S4.11 WALL FRAMING - STEEL STUDS~~
~~S4.12 WALL FRAMING DETAILS - STEEL STUDS~~

MECHANICAL

~~MECHANICAL (HVAC) PLAN - (12 LIGHTS)~~
~~MECHANICAL (HVAC) PLAN - (13 LIGHTS)~~
M2 MECHANICAL (HVAC) PLAN - (12 LIGHTS)

ELECTRICAL

~~E1.01 ELECTRICAL PLAN - (8 LIGHTS)~~
~~E1.02 ELECTRICAL PLAN - (10 LIGHTS)~~
E1.03 ELECTRICAL PLAN - (12 LIGHTS)

PLUMBING

P1.01 PLUMBING PLAN AND DETAILS

RAMP

R1.01 4 FOOT RAMP/LANDING PLAN
R1.02 RAMP/STAIRS DETAILS
~~R2.01 OFFSET RAMP/LANDING PLAN~~
~~R2.02 OFFSET RAMP/STAIRS DETAILS~~
~~R3.01 FULL LENGTH RAMP/LANDING AND DETAILS~~
~~R4.01 CONCRETE RAMP/LANDING~~
~~R5.01 5 FOOT RAMP/LANDING PLAN~~

REVISIONS

	BY	DESCRIPTION	DATE
1	EVH	REVISE INDEX TO ADD 3 SHTS. FOR FLOORLESS OPTION	9/29/03
2			
3			
4			
5			

Electrical Engineer's Seal | Mechanical Engineer's Seal | PC Professional Engineer's Seal | Architects Seal

REGISTERED PROFESSIONAL ENGINEER JAMES T. SIMPSON No. 3602 STRUCTURAL STATE OF CALIFORNIA
LICENSE EXPIRES 6-30-2004

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES PC-04 104801 AC FLS WJ SS DJC DATE 9/29/03 Revised 10/21/03 pw ss

MODTECH™ INC.
2830 BARRETT AVENUE PERRIS, CALIF. 92571
PH (909) 943-4014 FAX (909) 940-0427

PROJECT NUMBER: 5305
COVINA ELEMENTARY SCHOOL
COVINA VALLEY UNIFIED SCHOOL DISTRICT
COVER SHEET

AC FLS SS DJC Date SEP 27 2011

© MODTECH, INC. 2002

DRAWN BY: SJ
DATE: 3-30-04
CHECKED BY:
DATE:
MODTECH Index No.
A0.01

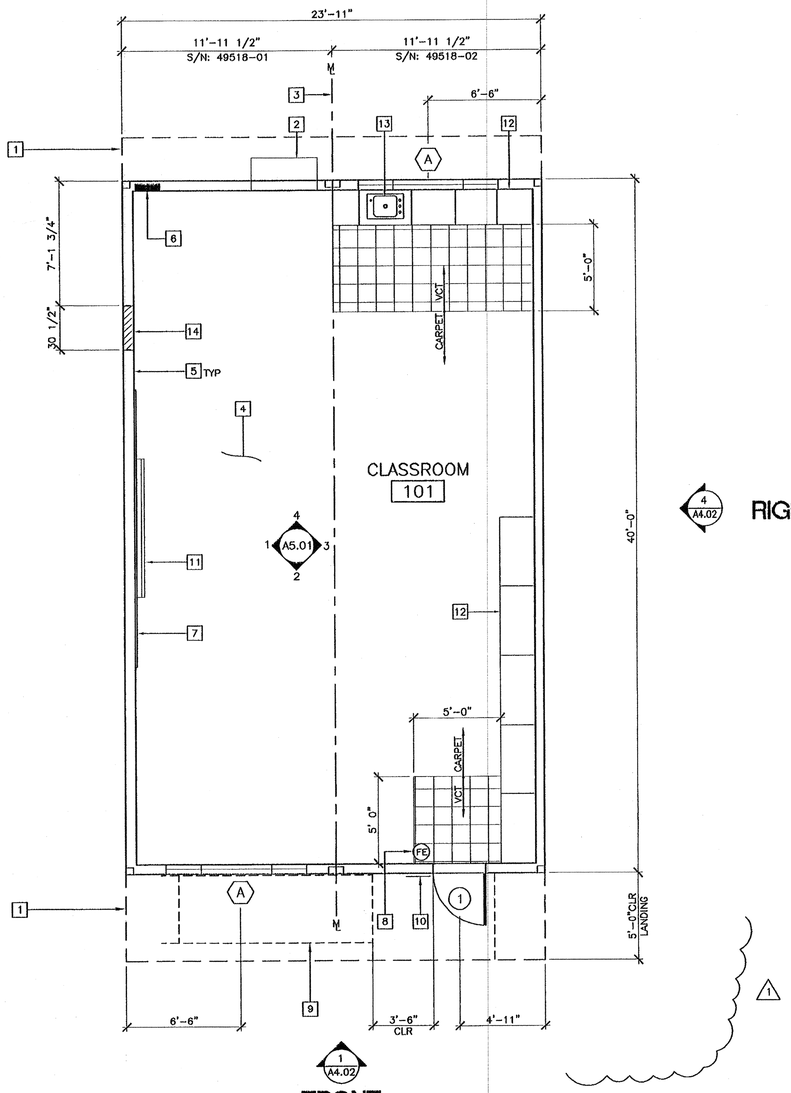
PROJECT NO. 5305

H:\PROJECTS\05A-JOBS\5300-5399\5305\24X40 dwg

PC-04-104801

REAR

3
A4.02



LEFT 2 A4.02

4 A4.02 RIGHT

1 A4.02

FRONT

KEY NOTES

1. ROOF OVERHANG
2. HVAC UNIT (HV)
3. MODLINE (M)
4. FINISH FLOORING (FIN)
5. INTERIOR FINISH (FIN)
6. ELECTRICAL PANEL (EL)
7. 2-8'X4' PORCELAIN BOARDS (SEE SPECIFICATIONS FOR TYPE)
8. FIRE EXTINGUISHER - 5 POUNDS DRY CHEMICAL WITH 2A - 10BC UL RATING ON WALL MTD BRACKET, HANDLE AT 48" AFF
9. RAMP/LANDING (RAMP) SEE SHEETS R1 - R4
10. SIGNAGE PROVIDED AND INSTALLED BY DISTRICT PRIOR TO OCCUPANCY. SEE SHEET A6.01
11. 8' PROJECTION SCREEN CENTERED AT TOP BETWEEN MARKER BOARDS
12. CASEWORK LOCKABLE SEE A5.01
13. CLASSROOM SINK SEE 1/P1.01
14. TV BLOCKING SEE 1/A7.01

NOTES

1. PLACE (2) PERMANENT METAL IDENTIFICATION LABELS ON EACH MODULE. (1) LABEL AT REAR EXTERIOR AND (1) LABEL ABOVE CEILING LINE AT INTERIOR FRAME. LABELS WILL BE MECHANICALLY FASTENED AND SHOW THE DSA APPLICATION NUMBER, MANUFACTURERS NAME AND SERIAL NUMBER, DESIGN LIVE LOAD FOR ROOF AND FLOOR FRAMING, WIND SPEED AND EXPOSURE CATEGORY.
2. INSULATION MATERIALS INSTALLED WITHIN FLOOR/CEILING ASSEMBLIES, ROOF-CEILING ASSEMBLIES, WALLS, CRAWL SPACES OR ATTICS SHALL HAVE A FLAME SPREAD RATING NOT TO EXCEED 25 AND A SMOKE DENSITY NOT TO EXCEED 450. EXCEPTIONS:
   (1) FOAM PLASTIC INSULATION SHALL COMPLY WITH SECTION 2602
   (2) WHEN MATERIALS ARE INSTALLED IN CONCEALED SPACES OF TYPES III, IV, AND V CONSTRUCTION, THE FLAME SPREAD AND SMOKE-DEVELOPED LIMITATIONS DO NOT APPLY TO FACINGS IF THE FACING IS INSTALLED IN SUBSTANTIAL CONTACT WITH THE UNEXPOSED SURFACE OF THE CEILING, FLOOR OR WALL FINISH (CBC SECTION 707.3)
   (3) CELLULOSE LOOSE FILL INSULATION SHALL COMPLY WITH CPSC 16 CFR PARTS 1209 AND 1404
3. INTERIOR SIDE WALLS MAY BE LOCATED ON EITHER SIDE OF MODLINE
4. DISTRICT TO PROVIDE OCCUPANCY LOAD SIGN PER CBC 1007.2.6 PRIOR TO OCCUPANCY
5. ADEQUATE EXITS, EXIT WIDTH, AND SEPARATION OF EXITS SHALL BE PROVIDED AS REQUIRED BY CBC CHAPTER 10
6. PANIC HARDWARE IS REQUIRED WHEN THE CONFIGURATION OF ANY ROOM PROVIDES AN OCCUPANT LOAD OF 50 OR GREATER PER CBC 1007.3.10

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP# 107786
AC. FLS SS TD
DATE 6-03-04

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP# 03 118460
AC. FLS SS TD
Date SEP 27 2017

MAY 13 2003

DATE SIGNED
APR 30 2003

PC
CBC 2001

FLOOR PLAN

SCALE: 1/4" = 1'-0"

REVISIONS			
1	SJ/BF	REVISED FROM PC PER JOB #5305	3/30/04
2			
3			
4			
5			

Electrical Engineer's Seal

Mechanical Engineer's Seal

PC Professional of Record Seal
REGISTERED PROFESSIONAL ENGINEER JAMES T. STATHAM
No. 8402
STRUCTURAL
STATE OF CALIFORNIA
LICENSE EXPIRES 6-30-2004

Architects Seal

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
PC-04
104801
AC. FLS SS TD
DATE 4/14/03

MODTECH INC.
2830 BARRETT AVENUE
PERRIS, CALIF. 92571
PH (909) 943-4014
FAX (909) 940-0427

PROJECT NUMBER: 5305

COVINA ELEMENTARY SCHOOL

COVINA VALLEY UNIFIED SCHOOL DISTRICT

FLOOR PLAN

© MODTECH, INC. 2002

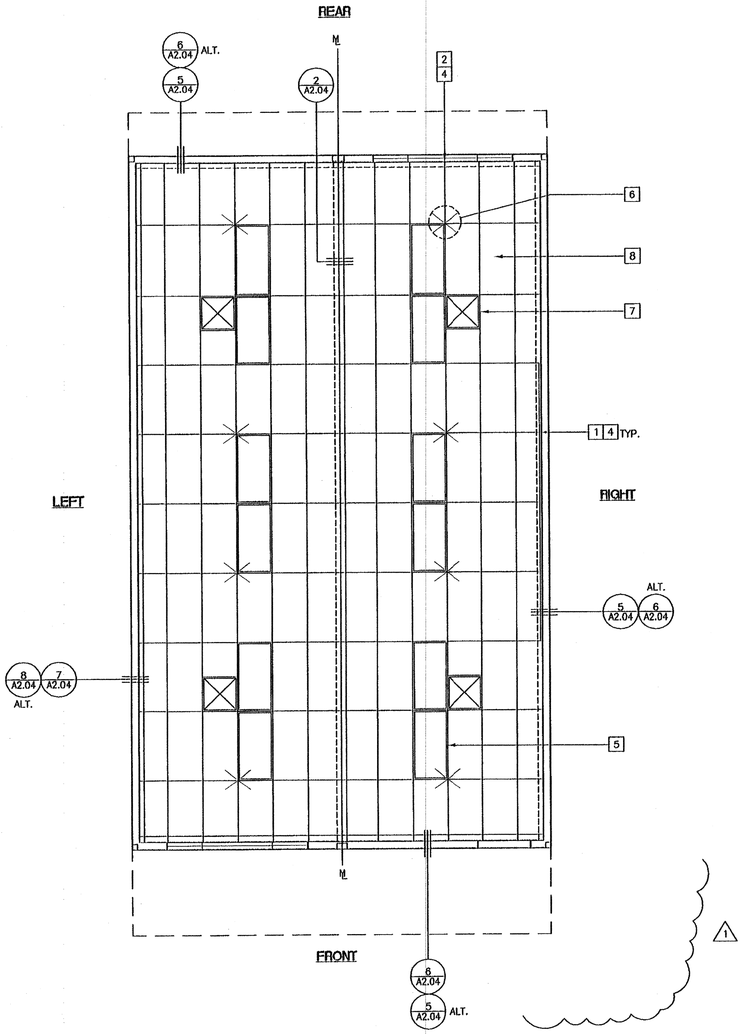
DRAWN BY: SJ/BF
DATE: 3-30-04
CHECKED BY:
DATE:

MODTECH Index No.

A1.01

PROJECT NO.
PC-04-104801

FILE PATH:H:\PROJECTS\DSA-JOBS\5300-5399\5305\24X40.dwg



KEY NOTES

1. MAIN RUNNERS AT 4'-0" OC WITH 12 GA HANGER WIRES AT END OF EACH RUNNER
2. CROSS TEE AT 2'-0" OC (STANDARD CEILING PLAN ONLY)
3. ~~CROSS TEE AT 4'-0" OC (BAYONET CEILING PLAN ONLY)~~
4. T-BAR PART NUMBERS

	ARMSTRONG PA-041	CHICAGO METALLIC PA-026	USG PA-030
RUNNER MAIN	7301	200	DX 26
4' CROSS TEE	7342	1210	DX 422
4' CROSS TEE (AT LIGHTS)	7341	1204	DX 626
2' CROSS TEE	7328	1226	DX 218
WALL ANGLE	7800	1420-01	M-7

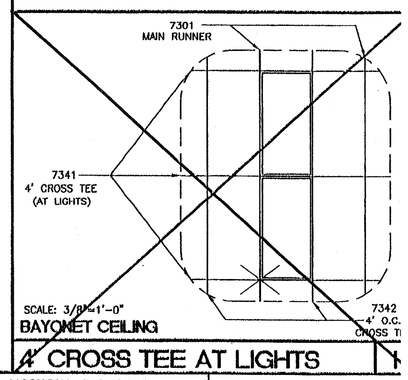
5. T-8 LIGHT UPGRADE X 12-- 11/A2.04
6. 4 WAY SPLAY AT LOCATIONS INDICATED, WIRES TAUT BUT NOT TO DISTORT GRID -- 1/A2.04
7. HVAC SUPPLY REGISTER, 2'X2' TYPICAL-- 12/A2.04
8. CEILING PANELS: 2'x4' LAY-IN PANELS, ASTM FLAME SPREAD CLASS 1 (0-25). SMOKE DEVELOPMENT DENSITY LESS THAN 450 TYPICAL

NOTES

1. AT THE END OF ROWS OF RUNNERS A 12 GA HANGER WIRE SHALL BE ATTACHED WITHIN 8" OF WALL OR SOFFIT.
2. VERTICAL WIRES MORE THAN 1-IN-6 OUT OF PLUMB SHALL HAVE COUNTER BRACING WIRES.
3. RUNNERS MAY BE ATTACHED TO WALLS OR MOLD AT (2) ADJACENT WALLS -- OTHER WALLS NO ATTACHMENT. CLEARANCE OF 1/2" BETWEEN END OF RUNNERS AND FACE OF WALL
4. DUCTWORK SHALL BE RIGIDLY ATTACHED TO BUILDING AND SHALL NOT BE CLOSER THAN 6" TO HANGER WIRES.
5. VERTICAL WIRE SPACING 4' O.C. ALONG EVERY MAIN RUNNER

LEGEND

- T & T BAR CEILING
- T-8 ELECTRONIC BALLAST
- SUPPLY AIR DIFFUSER
- SPLAY WIRE
- INDICATES FIXED SIDE 7/A2.04
- INDICATES FREE SIDE 5/A2.04



IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 03 118460
AC FLS SS TB
Date SEP 27 2017

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 10277 36
AC FLS SS
DATE 06 07 04

MAY 13 2004

DATE SIGNED
APR 20 2005

PC
CBC 2001

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
PC-04
104801
AC FLS SS
DATE 5/31/23

REFLECTED CEILING PLAN (12 LIGHTS)

SCALE: 1/4" = 1'-0"

REVISIONS			
1	SJ/BF	REVISED FROM PC PER JOB #5305	3/30/04
2			
3			
4			
5			

Electrical Engineer's Seal

Mechanical Engineer's Seal

PC Professional of Record Seal
REGISTERED PROFESSIONAL ENGINEER JAMES T. SIMPSON No. 34082 STRUCTURAL STATE OF CALIFORNIA
LICENSE EXPIRES 6-30-2004

Architects Seal

MODTECH INC.
2830 BARRETT AVENUE
PERRIS, CALIF. 92571
PH (909) 943-4014
FAX (909) 940-0427

PROJECT NUMBER: 5305

COVINA ELEMENTARY SCHOOL

COVINA VALLEY UNIFIED SCHOOL DISTRICT

© MODTECH, INC. 2002

DRAWN BY: SJ/BF
DATE: 3-30-04
CHECKED BY:
DATE:

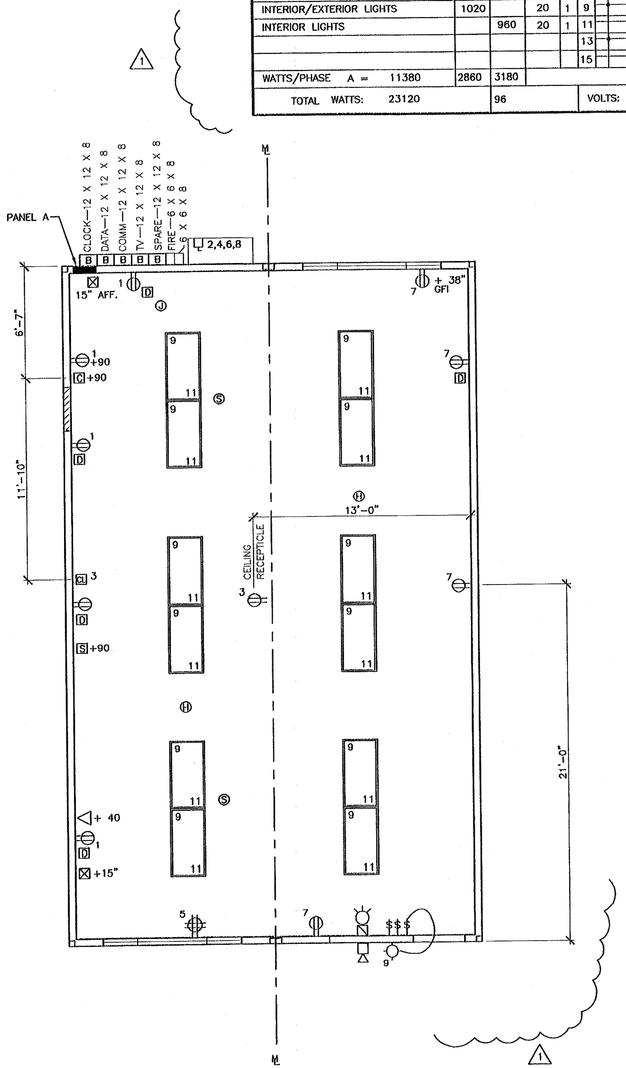
MODTECH Index No.

REFLECTED CEILING PLAN (12 LIGHTS) A2.03

ELECTRICAL PANEL SCHEDULE

MAIN: 150 AMP | PANEL: | LOCATION: REAR/INTERIOR | FEED: | MOUNTING:

LOAD	WATTS A∅	WATTS B∅	BREAKER Amps	P	CKT	A	B	CKT	BREAKER P	Amps	WATTS A∅	WATTS B∅	LOAD
RECEPTACLE/DATA/TV	1480		20	1	1			2	2	60	5400		HVAC (5 TON)
RECEPTACLE/DATA		1180	20	1	3			4	–	–		5400	HVAC (5 TON)
RECEPTACLE	360		20	1	5			6	2	30	3120		5 KW HEAT STRIP
RECEPTACLE/DATA		1040	20	1	7			8	–	–		3120	5 KW HEAT STRIP
INTERIOR/EXTERIOR LIGHTS	1020		20	1	9			10					
INTERIOR LIGHTS		960	20	1	11			12					
					13			14					
					15			16	–	–		40	FIRE ALARM (DEDICATED)
WATTS/PHASE A = 11380	2860	3180									8520	8560	WATTS/PHASE B= 11740
TOTAL WATTS: 23120		96	VOLTS: 120/240			SINGLE PHASE							



ELECTRICAL PLAN (12–LIGHTS)

SCALE: 1/4" = 1'–0"

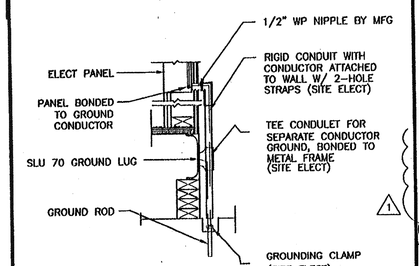
PC

CBC 2001

DATE SIGNED APR 18 2003

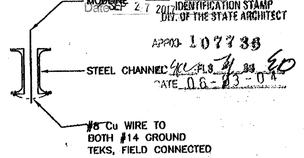
GENERAL GROUNDING NOTES

1. EACH BUILDING SHALL BE SEPARATELY GROUNDED WITH A 3/4" RD. X 8' COPPERCLAD STEEL GROUND ROD. WHERE ROCK BOTTOM IS ENCOUNTERED, ROD SHALL BE DRIVEN AT AN ANGLE NOT TO EXCEED 45 DEGREE'S FROM THE VERTICAL OR SHALL BE BURIED IN A TRENCH THAT IS AT LEAST 30" DEEP (BY SITE ELECTRICAL)
2. TESTING: TEST FOR RESISTANCE TO GROUND. IF RESISTANCE EXCEEDS 25 OHMS, INSTALL ADDITIONAL GROUND RODS SEPARATED AT LEAST 6'–0" UNTIL RESISTANCE IS REDUCED TO 25 OHMS OR LESS. (BY SITE ELECTRICAL)
3. APPROVAL OF THIS PLAN DOES NOT CONSTITUTE APPROVAL OF THIS FIRE ALARM FOR ALL SITES. THE FIRE ALARM SYSTEM AND/OR COMPONENTS MAYBE REQUIRED TO BE CHANGED DUE TO SITE LOCATION, EXISTING CONDITIONS OR INCOMPATIBLE COMPONENTS.
4. GROUND MG TEST SHALL BE DONE IN THE PRESENCE OF THE PROJECT INSPECTOR. ALL GROUNDING SHALL BE IN ACCORDANCE WITH CEC ARTICLE 250.

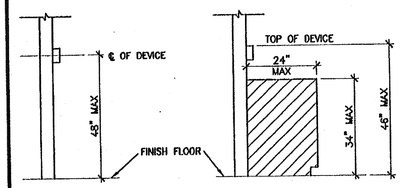


TYP GROUNDING DETAIL 1

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
03 118460
AC FLS SS
DATE SEP 27 2004



GROUND JUMPER AT MOD LINE 2



DEVICE MOUNTING 3

ELECTRICAL LEGEND

- 2'x4' 4 TUBE FLUORESCENT LIGHT FIXTURE WITH T–8 ELECTRONIC BALAST
- EXTERIOR LIGHT FIXTURE AT +93" AFF
- SWITCH AT +48" AFF
- DUPLEX WALL RECEPTACLE 15 125V 3–WIRE AT +18" AFF UON
- GFI GROUND FAULT CIRCUIT INTERRUPTER
- QUADPLEX WALL RECPTICAL 15A 125V 3–WIRE AT +18" AFF
- HV HVAC UNIT
- 4SD J–BOX FOR FIRE ALARM PULL STATION AT +48" AFF, 3/4" CO TO OR PULLSTRING
- 4SD J–BOX FOR FIRE ALARM STROBE/HORN AT +83" TO BOTTOM OF DEVICE AFF. 3/4" CO TO PULLSTRING.
- 4SD J–BOX FOR FIRE ALARM HORN AT +98" AFF 3/4" CO TO PULLSTRING
- WEATHER PROOF GUTTER BOX (6"x6"x4") AT +18" AFF RECEIVE 3/4" CO FROM FA DEVICE, PULLSTRING
- ELECTRICAL PANEL AT +80" AFF TO CENTERLINE 1 1/2" POWER NIPPLE POC, GND JUMPER BY SITE ELECT
- J 4SD J–BOX FOR POWER–WIREMOLD (WIREMOLD BY ELEC. CONTR.) W/ 3/4" CO STUBBED TO ATTIC PULLSTRING 3–1" TO TOP OF BOX UON
- H 4SD J–BOX FOR HEAT DETECTOR (ATTIC) MAX 35' FROM ANY POINT IN ATTIC BAY AND 50' BETWEEN THEM. (TO BE SITE SPECIFIC)
- S 4SD J–BOX FOR SMOKE DETECTOR (CEIL.) MAX 21' FROM ANY POINT IN ROOM AND 30' BETWEEN THEM. (TO BE SITE SPECIFIC)
- TELEPHONE OUTLET BOX +48" OR AS NOTED W/ 1/2" C.O. TO ATTIC SPACE
- D 5SD J–BOX W/SINGLE DEVICE RING FOR DATA AT +18" AFF 1"ø CO STUB IN ATTIC W/PULLSTRING (BY ELEC. CONT.)
- 4" X 4" BOX @ 15" AFF WITH HINGED COVER PROVIDE 1 1/2" CONDUIT FROM STUD ABOVE FINISHED CEILING
- CL 4SD J–BOX 1 GANG RING FOR CLOCK W/ 3/4" CO. TOP REAR GUTTER BOX (12x12x8) PULLSTRING +90" AFF
- S 4SD J–BOX 1 GANG RING FOR SPEAKER W/ 3/4" CO. TOP REAR GUTTER BOX (12x12x8) PULLSTRING +90" AFF
- C 4SD J–BOX 1 GANG RING FOR TV W/3/4" CO. TOP REAR GUTTER BOX (12x12x8) PULLSTRING +90" AFF

NOTES

NOTE FOR THE DESIGN PROFESSIONAL:

THE FOLLOWING INSTRUCTIONS ARE MEANT TO BE FOLLOWED. THE DESIGN PROFESSIONAL SHALL PROVIDE ANCHORAGE CALCULATIONS AND DETAILS WITH THE SUBMITTAL PACKAGE, USING THE FOLLOWING DESIGN CRITERIA AND SHOULD BE READY TO POINT OUT DURING THE BACKCHECK PROCESS TO THE PLAN REVIEWER ANY EQUIPMENT FOR WHICH ANCHORAGE DETAILS ARE NOT PROVIDED.

1. SCHOOL EQUIPMENT ANCHORAGE

INSTRUCTIONS

ALL EQUIPMENT/COMPONENTS DIRECTLY SUPPORTED ON THE GROUND OR ROOF WITH Wp EXCEEDING 400 lbs., EQUIPMENT WEIGHING MORE THAN 20 lbs. SUSPENDED FROM A ROOF, FLOOR OR HUNG FROM A WALL SHALL HAVE ITS CORRESPONDING STRUCTURAL CALCULATIONS AND ANCHORAGE DETAIL(S) SHOWN ON THE PLANS, PRIOR TO SUBMITTAL FOR PLAN REVIEW AND BACKCHECK. ALL EQUIPMENT (REGARDLESS OF WEIGHT) SHALL HAVE THEIR CONNECTION TO THE STRUCTURE SHOWN IN THE PLANS

DESIGN CRITERIA

a) THE SEISMIC ANCHORAGE FOR ALL MECHANICAL AND ELECTRICAL EQUIPMENT SHALL BE DESIGNED TO WITHSTAND A LATERAL FORCE:

1– CALCULATED AS SPECIFIED IN SECTION 1632A AND TABLE 16A–O OF THE VOL. 2, TITLE 24, 2001 CBC.

2– IN LIEU OF CALCULATIONS PER 1– THE ANCHORAGE SHALL BE CAPABLE OF WITHSTANDING A LATERAL FORCE EQUAL TO 2.2 Wp ACTING SIMULTANEOUSLY WITH A VERTICAL FORCE *EQUAL TO 0.72 Wp (BOTH FORCES AT SERVICE LEVEL. THESE VALUES CORRESPOND TO AN Ip=1.15 AND Ca=0.66, FOR OTHER VALUES OF Ip AND Ca, THE LATERAL AND VERTICAL FORCE CAN BE ADJUSTED ACCORDINGLY)

*INCLUSION OF VERTICAL FORCE PER TABLE 16–O FOOTNOTE 20 (FOR EMERGENCY POWER SUPPLIES AND COMMUNICATIONS EQUIPMENT ONLY)

b) THE CAPACITY OF THE ANCHORAGE CONNECTORS IN SHEAR AND/OR TENSION SHALL BE CLEARLY INDICATED IN THE CALCULATIONS, WHICH INDICATE, ICBO REPORT No. (IF APPLICABLE) THEIR TOTAL NUMBER, SIZE, GRADE, EMBEDMENT, EDGE DISTANCES, AND OTHER FACTORS WHICH AFFECT THE CAPACITY IN SHEAR TENSION.

ANCHORAGE DETAILS FOR EQUIPMENT WHICH ARE NOT APPROVED DURING PLAN REVIEW ARE SUBJECT TO APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD AND DSA'S DISTRICT STRUCTURAL ENGINEER PRIOR TO INSTALLATION AND INSPECTION BY THE PROJECT INSPECTOR.

2. SMOKE AND HEAT DETECTORS SHOWN ARE FOR OPTIONAL AUTOMATIC DETECTION. IF ELECTED AS AN OPTION, MODTECH WILL PROVIDE 4SD BOXES AND 3/4"CO. ON UNDERSIDE OF ROOF PURLINS. DEVICES PROVIDED AND INSTALLED BY OTHERS.
3. PROVIDE EXITS SIGNS AND EMERGENCY ILLUMINATION FIXTURES AS REQUIRED BY CBC 1003.2.8 AND CBC 1003.2.9
EXIT SIGNS SHALL BE READILY VISIBLE FROM ANY DIRECTION OF APPROACH. EXIT SIGNS SHALL BE LOCATED AS NECESSARY TO CLEARLY INDICATE THE DIRECTION OF EGRESS TRAVEL. NO POINT SHALL BE MORE THAN 100 FEET FROM THE NEAREST VISIBLE SIGN.
EXCEPTION: WHERE AN OCCUPANT LOAD IS LESS THAN 50

REVISIONS			
1	SJ/BF	REVISED FROM PC PER JOB #5305	3/30/04
2			
3			
4			
5			

Electrical Engineer's Seal | Mechanical Engineer's Seal | PC Professional of Record Seal | Architects Seal

REGISTERED PROFESSIONAL ENGINEER JAMES T. STAMPER STRUCTURAL STATE OF CALIFORNIA
LICENSE EXPIRES 6-30-2004

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES PC–04 104801 AC FLS SS DATE 5/14/03

MODTECH™ INC.
2830 BARRETT AVENUE PERRIS, CALIF. 92571
PH (909) 943–4014 FAX (909) 940–0427

PROJECT NUMBER: 5305

COVINA ELEMENTARY SCHOOL

COVINA VALLEY UNIFIED SCHOOL DISTRICT

ELECTRICAL PLAN (12 LIGHTS)

© MODTECH, INC. 2002

DRAWN BY: SJ/BF
DATE: 3–30–04
CHECKED BY:
DATE:

MODTECH Index No.

E1.03

VENT KEY PLAN

FOUNDATION PLATE SCHEDULE

		50 PSF	50 + 20 PSF	100 PSF
END WALL	SILL	2"x6"	2"x6"	2"x12"
	BLOCKING	2"x4"	2"x4"	2"x8"
	TOP PLATE	2"x4"	2"x4"	2"x8"
SIDE WALL	SILL	2"x12"	2"x12"	2"x12"
	BLOCKING	2"x8"	2"x8"	2"x8"
	TOP PLATE	2"x8"	2"x8"	2"x8"
MODLINE PAD AT ENDWALL	SILL	(6)2"x12"x30"	(7)2"x12"x30"	(5)2"x12"x30"
	BLOCKING	2"x10"	2"x10"	2"x10"
	TOP PLATE	2"x8"	2"x8"	2"x8"
MODLINE PAD AT INTERIOR	SILL	(4)2"x12"x30"	(5)2"x12"x30"	(12)2"x12"x30"
	BLOCKING	2 x 10	2 x 10	2 x 10
	TOP PLATE	2 x 8	2 x 8	2 x 8
4" SEPARATION PAD AT END WALL	SILL	(6)2"x12"x30"	(7)2"x12"x30"	(6)2"x12"x30"
	BLOCKING	2"x12"	2"x12"	2"x12"
	TOP PLATE	2"x12"	2"x12"	2"x12"
4" SEPARATION PAD AT INTERIOR	SILL	(8)2"x12"x30"	(8)2"x12"x30"	(14)2"x12"x30"
	BLOCKING	2"x12"	2"x12"	2"x12"
	TOP PLATE	2"x12"	2"x12"	2"x12"

NOTE: • USE 2"x4" PLATES FOR ANY ADDITIONAL BLOCKING REQUIRED FOR LEVELING.
• ALL SILL (FOOTING) PLATES TO BE PRESSURE TREATED SEE NOTE #3 THIS SHEET.
• FOR FOUNDATION PLATE NAILING SEE F1.21

DIMENSION SCHEDULE

	50 PSF	50 + 20 PSF	100 PSF	125 PSF
A	7'-7 1/2"	9'-1 1/2"	9'-1 1/2"	SEE SHEET F1.11
B	6'-6"	4'-0"	4'-0"	
C	12'-0"	14'-0"	14'-0"	
D	6'-1"	7'-1 1/4"	5'-7 1/2"	
E	5'-6"	4'-4"	3'-4"	
F	3'-9"	4'-8 1/4"	9'-6"	
G	9'-7"	3'-2"	3'-8"	
H	6'-1"	6'-1"	5'-6 1/4"	
J	4'-9"	3'-10"	2'-6"	
K	5'-7 1/2"	7'-6"	10'-9 1/2"	
L	7'-4"	5'-5"	2'-7 1/2"	

VENTING SCHEDULE

BUILDING	(SF) AREA	(SF) VENTING REQUIRED	SIDE WALL VENTING	SIDE WALL VENT AREA	END WALL VENTING	END WALL VENT AREA	TOTAL VENT SUPPLIED
24'x40' (50 PSF)	960	6.4	(4) A	6.52	--	--	6.52
~~36'x40' (50 PSF)~~	~~1440~~	~~9.6~~	~~(4) A~~	~~6.52~~	~~5.56~~	~~(9) C~~	~~12.2~~
~~48'x40' (50 PSF)~~	~~1920~~	~~12.8~~	~~(4) A~~	~~6.52~~	~~6.52~~	~~(12) C~~	~~13.04~~
~~24'x48' (50+20) (100 PSF)~~	960	6.4	(4) B	4.00	2.80	(5) C	6.80
~~36'x40' (50+20) (100 PSF)~~	~~1440~~	~~9.6~~	~~(4) B~~	~~4.00~~	~~5.60~~	~~(12) C~~	~~12.0~~
~~48'x48' (50+20) (100 PSF)~~	~~1920~~	~~12.8~~	~~(4) B~~	~~4.00~~	~~8.00~~	~~(16) C~~	~~12.0~~

LEGEND	VENT	SIZE	AREA (SF)	GRATE SIZE
	A	3"x6'-0"	1.63	3"X78"
	B	3"x4'-0"	1.00	3"X48"
	C	3"x2'-0"	0.50	3"X24"

TIE PLATE SCHEDULE

BUILDING		END WALL	SIDE WALL	TOTAL
24'x40'	70 MPH	4 EA.	3 EA.	14
	~~80 MPH~~	~~5 EA.~~	~~3 EA.~~	~~16~~
~~36'x40'~~	~~70 MPH~~	~~4 EA.~~	~~4 EA.~~	~~16~~
	~~80 MPH~~	~~5 EA.~~	~~5 EA.~~	~~20~~
~~48'x48'~~	~~70 MPH~~	~~6 EA.~~	~~6 EA.~~	~~24~~
	~~80 MPH~~	~~6 EA.~~	~~6 EA.~~	~~24~~

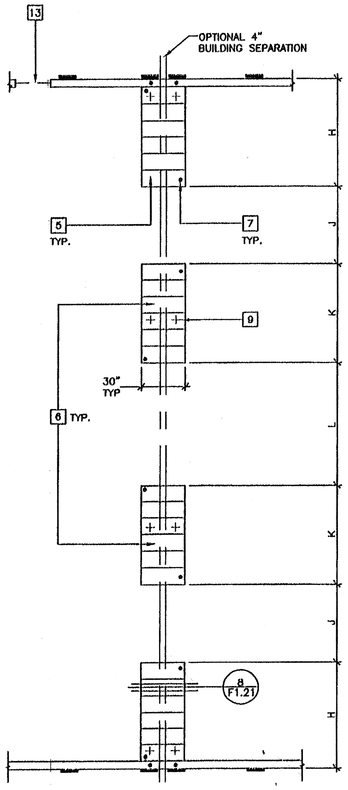
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
03 IN 118460
AC FLS SS TB
Date SEP 27 2017

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP# 107736
AC FLS SS
DATE 06-03-04

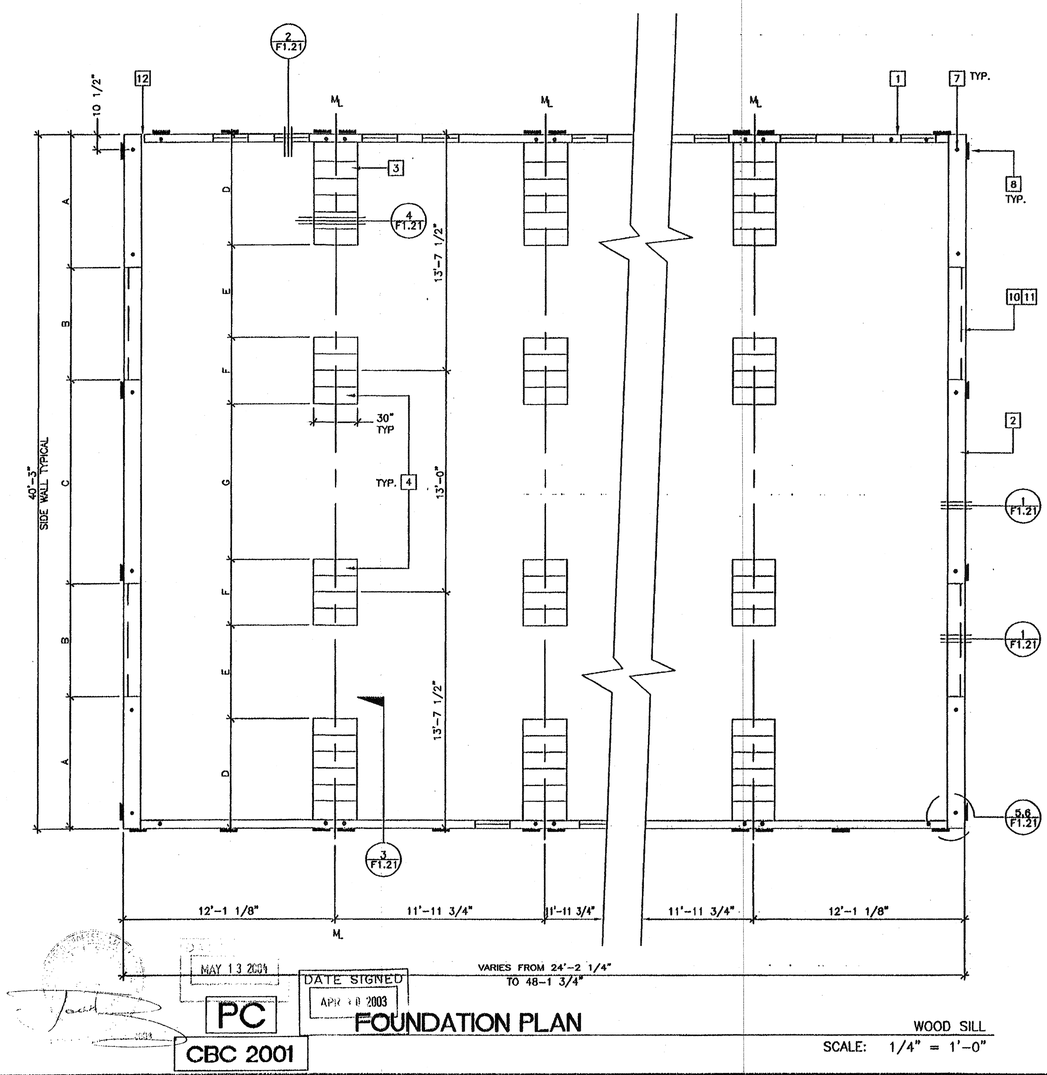
KEY NOTES

1. FOUNDATION AT END WALL – SEE FOUNDATION PLATE SCHEDULE
2. FOUNDATION AT SIDE WALL – SEE FOUNDATION PLATE SCHEDULE
3. FOUNDATION MODLINE PAD AT END WALL –SEE FOUNDATION PLATE SCHEDULE.
4. FOUNDATION MODLINE PAD AT INTERIOR – SEE FOUNDATION PLATE SCHEDULE.
5. FOUNDATION PAD AT 4" SEPARATION AT END WALL
6. FOUNDATION PAD AT 4" SEPARATION AT INTERIOR WALL
7. SILL RESTRAINT – SEE NOTE 1
8. TIE PLATE SEE SCHEDULE BELOW AND 5,6/F1.21
9. 5/8" DIAx4" LAGS
10. FOUNDATION VENT
11. FOR VENTS THAT OCCUR UNDER LANDINGS PROVIDE EQUAL AREA SCREENED VENT IN LANDING SKIRT
12. 2" CUTOUT OF SILL PLATE FOR DRAINAGE. FIELD TO LOCATE AT LOWEST CORNER OF FOUNDATION
13. 3"X24" END WALL VENTS AS REQUIRED FOR ADJACENT BUILDING APPLICATIONS

MIN. 18" FROM BUILDING CORNERS
MIN. 18" FROM MODLINES
MIN. 12" BLOCKING BETWEEN VENTS



FOOTINGS AT ADJACENT BUILDING
(OPTIONAL 4" SEPARATION)



WOOD SILL

SCALE: 1/4" = 1'-0"

MAY 13 2004

DATE SIGNED APR 28 2003

PC

CBC 2001

FOUNDATION PLAN

NOTES

1. SILL RESTRAINT: THE FOUNDATION SHALL BE DESIGNED TO PREVENT SLIDING ON THE SUPPORTING SURFACE (ASPHALT CONCRETE PAVING OR ON SOIL OR ON PRE-DRILLED CONCRETE SLAB ON GRADE) BY ATTACHING THE WOOD FOUNDATION PLATES FOR THE BUILDING, RAMPS AND STAIRS TO THE GROUND WITH RESTRAINING DEVICES. USE A ONE-INCH DIAMETER STANDARD WEIGHT (1.315" ACTUAL O.D.) HOT DIPPED GALVANIZED PIPE OR ONE-INCH DIAMETER SOLID STEEL ROD SPACED AT NOT MORE THAN 10'-0". ONE PIPE/ROD SHALL BE LOCATED A MAXIMUM OF TWO FEET FROM EACH CORNER IN BOTH DIRECTIONS AND A MINIMUM OF TWO PIPES/RODS PER DISCONTINUOUS FOUNDATION STRIP. PIPES TO PENETRATE INTO SOIL AND/OR PAVING A MINIMUM OF 12" MEASURED VERTICALLY. 18-1/2" LONG PIPE REQUIRED FOR PENETRATION AT A 45 DEGREE ANGLE. ALTERNATE OR EQUIVALENT DESIGNS, WHEN PROVIDED WITH STRUCTURAL CALCULATIONS AND DETAILS, WILL BE CONSIDERED.
   ALTERNATE:
   ON CONCRETE PAVING HILTI DS 82-P10 THRU SILL PLATE, 8" OC AT END WALLS AND 16" OC SIDE WALLS.
2. TO PREVENT WATER FROM PONDING BENEATH THE STRUCTURE VERIFY DRAINAGE WITH DISTRICT ARCHITECT SITE PLANS
3. A WOOD SILL (FOOTING) PLATE SHALL BE PRESSURE TREATED HEM FIR OR DOUG FIR AND MAY BEAR DIRECTLY ON SOIL OR PAVED SURFACE. GRASS OR TURF SHALL BE CLEARED TO BARE SOIL UNDER THE ENTIRE AREA OF THE BUILDING (BY DISTRICT). THE WOOD SILL (FOOTING) PLATE MAY SUPPORT WOOD CRIPPLE STUDS, POSTS OR CONTINUOUS BLOCKING AND SHEATHING (SKIRT) WHICH NEED NOT BE TREATED. FOUNDATION LUMBER TO BE PRECUT AT FACTORY, LUMBER AND PRESSURE TREATING TO BE VERIFIED BY THE IN-PLANT INSPECTOR.
4. FOUNDATION DESIGNED FOR 1000 PSF SOIL BEARING PRESSURE PER ORS IR 16-1.
5. THIS FOUNDATION PLAN HAS 1/4" ADDED AT EACH MODLINE AND AND 1/8" AT EACH SIDE WALL AND DOES NOT MATCH THE FLOOR PLAN, THIS IS REQUIRED FOR GROWTH THAT IS EXPERIENCED WHEN SETTING MULTIPLE MODULE BUILDINGS.
6. BUILDINGS 2160 SQFT. MUST BE INSTALLED ON A PERMANENT CONCRETE FOUNDATION.
7. NOTE: FOR CONCRETE FLOORS ON A WOOD FOUNDATION:
   -FOR A 50 PSF FLOOR LOAD WITH A CONCRETE FLOOR USE 50+20 PSF FOUNDATION DESIGN
   -FOR A 50+20 PSF FLOOR LOAD WITH A CONCRETE FLOOR USE 100 PSF FOUNDATION DESIGN
   -FOR A 100 PSF FLOOR LOAD WITH A CONCRETE FLOOR USE 125 PSF FOUNDATION DESIGN

REVISIONS

1			
2			
3			
4			
5			

Electrical Engineer's Seal

Mechanical Engineer's Seal

PC Professional of Record Seal
REGISTERED PROFESSIONAL ENGINEER JAMES T. SIMPSON No. 16602 STRUCTURAL STATE OF CALIFORNIA
LICENSE EXPIRES 6-30-2004

Architects Seal

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
PC-04
104801
AC FLS SS WL
DATE 5/7/03

MODTECH™ INC.
2830 BARRETT AVENUE
PERRIS, CALIF. 92571
PH (909) 943-4014
FAX (909) 940-0427

PROJECT NUMBER: 5305

COVINA ELEMENTARY SCHOOL

COVINA VALLEY UNIFIED SCHOOL DISTRICT

FOUNDATION PLAN WOOD/50, 50+20, 100 PSF

© MODTECH, INC. 2002

DRAWN BY: SJ/BF
DATE: 3-30-04
CHECKED BY:
DATE:

MODTECH Index No.
F1.01

JOB #5305
MODULAR CLASSROOM BUILDINGS
BUILDING SIZE: 36' x 40'

LARK ELLEN ELEMENTARY SCHOOL

COVINA VALLEY UNIFIED SCHOOL DISTRICT

PC-04-104801

DGS State of California • Department of General Services • Gray Davis, Governor
DIVISION OF THE STATE ARCHITECT
Headquarters• 1130 K Street, Suite 101 • Sacramento, CA 95814 • (916) 445-8100

STRUCTURAL TESTS AND INSPECTIONS

Testing Laboratory: | Date: | File Number:
Name: | | Application Number:
District / Owner:
Architect:
Structural Engineer:

The following tests and inspections, as checked, will be required as detailed in applicable specifications.

	Concrete	Gunite	Grout	Mortar	
COMPACTED FILL					
☐ Fill material, acceptance tests					Test of aggregates for mix design only
☐ Compaction control, continuous					Suitability tests of aggregates as detailed below
☐ Compaction tests only as ordered	✓				Mix designs
☐ Bearing capacity of compacted fill	✓				~~Verify mix design~~ VERIFY MIX DESIGN
REINFORCING STEEL					Inspect placing
☒ Sample and test bar steel #4 ONLY					Sample
☒ Sample and test mesh	✓				Compression tests
☐ Inspect placing at job					Pick up samples at job
STRUCTURAL STEEL					Samples delivered to laboratory
☒ Sample and test as detailed below					Deliver sample forms to job site
☒ Shop fabrication inspection					Sample and test cement
☐ Field erection inspection					
☒ Inspection of welds - Shop					
☐ Inspection of welds - Field					
☐ Inspection of riveting or bolting - Shop					
☐ Inspection of riveting or bolting - Field					
☐ Sample and test high strength bolts and washers					
BRICK AND BLOCK					
☐ Sample and test					
☐ Test only					
☐ Inspection of placing					
☐ Core drill samples					
GLUED LAMINATED STRUCTURAL LUMBER					
☐ Fabrication inspection					
☐ Sample and test steel accessories					
☐ Inspect fabrication of steel accessories					

Suitability Tests: ☐ Sodium sulphate; ☐ Structural strength; ☐ Los Angeles rattler; ☐ Clay (Hydrometer method); ☐ Reactivity tests; ☐ Volume change

Mix designs: Concrete, Gunite, Mortar, or Grout

Material	Maximum Size	28 DAY Compressive Strength, PSI, Minimum	Concrete	Gunite	Grout	Mortar
STD CONC	1"	~~3000~~ PSI				
LTWT CONC	~~3/4"~~	~~3000~~ PSI				

List of structural steel members to be tested:
ALL STEEL NOT PROPERLY IDENTIFIED
PER CBC CHAPTER 22 (MILL CERTS)

Is this list continued on reverses? ☐ YES ☐ NO

Other tests and inspections, together with special instructions:
~~GERMAN TEST~~

Copies of reports to: ARCHITECT OF RECORD

Are these instructions continued on reverse? ☐ YES ☐ NO

By: _____ Authorized Representative

SSS 103-1 (Revised 8/00)

"AS ALTERNATE FOR ALL SHOT PIN ATTACHMENTS, USE #10 S.T.M.S. AT THE SAME SPACING."
#10 USE MAX. 3/8" MATERIAL
#12 USE MAX. 1/2" MATERIAL

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 MINUS 20 DEGREES F, AS DETERMINED BY AWS CLASSIFICATION OR MANUFACTURER CERTIFICATION.

BUILDING CODES AND STANDARDS

2001 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE (PART 1, TITLE 24, CCR)
2001 CALIFORNIA BUILDING CODE (CBC), VOLUMES 1, 2, AND 3 (PART 2, TITLE 24, CCR) (1997 EDITION UNIFORM BUILDING CODE WITH 2001 CALIFORNIA AMENDMENTS)
2001 CALIFORNIA ELECTRICAL CODE (CEC), (PART 3, TITLE 24, CCR) (1999 EDITION NATIONAL ELECTRICAL CODE WITH 2001 CALIFORNIA AMENDMENTS)
2001 CALIFORNIA MECHANICAL CODE (CMC), (PART 4, TITLE 24, CCR) (2000 EDITION IAPMO UNIFORM MECHANICAL CODE WITH 2001 CALIFORNIA AMENDMENTS)
2001 CALIFORNIA PLUMBING CODE (CPC), (PART 5, TITLE 24, CCR) (2000 EDITION IAPMO UNIFORM PLUMBING CODE WITH 2001 CALIFORNIA AMENDMENTS)
2001 CALIFORNIA ENERGY CODE (PART 6, TITLE 24, CCR)
2001 CALIFORNIA ELEVATOR SAFETY CONSTRUCTION CODE (PART 7, TITLE 24, CCR)
2001 CALIFORNIA FIRE CODE (PART 9, TITLE 24, CCR)
2001 CALIFORNIA REFERENCED STANDARDS CODE (PART 12, TITLE 24, CCR)
NFPA 13, 1999 ED, THE INSTALLATION OF AUTOMATIC SPRINKLER SYSTEMS, AS AMENDED
NFPA 14, 2000 ED, INSTALLATION OF STANDPIPE, PRIVATE HYDRANT AND HOSE SYSTEMS
NFPA 24, 1995 ED, INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES
NFPA 72, 1999 ED, NATIONAL FIRE ALARM CODE, AS AMENDED

WITH THE SIGNING OF THESE DRAWINGS, WE ACKNOWLEDGE THAT WE HAVE REVIEWED THESE PLANS AND SPECIFICATIONS AND HAVE FOUND THEM TO BE IN GENERAL COMPLIANCE WITH THE BID DRAWINGS, SPECIFICATIONS AND ASSOCIATED ADDENDA. WHEN THESE PLANS AND SPECIFICATIONS HAVE BEEN APPROVED BY THE DIVISION OF THE STATE ARCHITECT, THEY SHALL PRESIDE OVER CONFLICTING AREAS IN THE BID DRAWINGS AND SPECIFICATIONS, AND ANY ADDENDA THERETO.

— CONFIDENTIAL —
THIS DOCUMENT AND THE INFORMATION CONTAINED HEREIN ARE THE PROPERTY OF MODTECH, INC. UNAUTHORIZED COPYING, DISCLOSURE OR OTHER UNAUTHORIZED USES ARE PROHIBITED!

DATE SIGNED APR 26 2003
MAY 13 2004
PC
CBC 2001

BUILDING DATA

STRUCTURAL DESIGN: ORDINARY MOMENT RESISTANT FRAME
TYPE OF CONSTRUCTION: V-N
WIND LOAD (EXP C): 70 MPH ~~OR 80 MPH~~
SEISMIC ZONE 4, SEISMIC SOURCE TYPE A, DISTANCE ≤1.25 MILES
Z = .4 I = 1.0 Cv = 1.28 Nv = 2.0
R = 4.5 Ca = 0.66 Na = 1.5 SOIL TYPE = S_D
FLOOR LIVE LOAD: ~~50 PSF, 50+20 PSF, 100 PSF,~~ 125 PSF, STIFFENED
ROOF LIVE LOAD: 20 PSF
OCCUPANCY: ~~24'x40' CLASSROOM: E-2~~
36'x40' CLASSROOM: E-1
~~48'x48' CLASSROOM: E-1~~
BUILDING AREA: ~~24'x40' BUILDING = 960 SF~~ ~~36'x40' BUILDING = 2340 SF~~
36'x40' BUILDING = 1440 SF ~~100'x40' BUILDING = 3920 SF~~
~~48'x40' BUILDING = 1920 SF~~ ~~120'x40' BUILDING = 4800 SF~~
~~60'x40' BUILDING = 2400 SF~~ ~~152'x40' BUILDING = 5280 SF~~
~~72'x40' BUILDING = 2880 SF~~ ~~144'x48' BUILDING = 5760 SF~~
~~84'x40' BUILDING = 3360 SF~~
THIS BUILDING SHALL NOT BE USED FOR A2.1 OCCUPANCY, COMPLIES WITH CLIMATE ZONES 1-15
THIS PC IS DESIGNED STRUCTURALLY TO SUPPORT THE WEIGHT OF A FIRE SPRINKLER SYSTEM.

LEGEND

SYMBOL	DESCRIPTION
1 / –	DETAIL-1 ON SAME SHEET AS SYMBOL
1 / F2	DETAIL-1 ON SHEET F2.
A / S2	SECTION-A ON SHEET S2.
1	KEY NOTE (ON SAME SHEET AS SYMBOL)
1	REVISION IN DRAWING
CLOUD	HIGHLIGHTS REVISED AREA
2	DOOR REFERENCE
A	WINDOW REFERENCE
FIN	FINISH ITEM(S) SEE FINISH SCHEDULE, SHEET A5.01
STR	STRUCTURAL ITEM(S) SEE STRUCTURAL DRAWINGS
PLG	PLUMBING ITEM(S) SEE PLUMBING DRAWINGS
HV	HEATING, VENTILATING & AIR CONDITIONING ITEM(S) SEE MECHANICAL DRAWINGS
EL	ELECTRICAL ITEM(S) SEE ELECTRICAL DRAWINGS
RAMP	RAMP – SEE RAMP DRAWINGS

ABBREVIATIONS

AGC	=	ABOVE GRADE CONCRETE
BGC	=	BELOW GRADE CONCRETE
CLR	=	CLEAR
DIA, ø	=	DIAMETER
GA	=	GAUGE
ID	=	INSIDE DIAMETER, IDENTIFICATION
MAX	=	MAXIMUM
MIN	=	MINIMUM
NIC	=	NOT IN CONTRACT
NTS	=	NOT TO SCALE
OC	=	ON CENTER
OD	=	OUTSIDE DIAMETER
OSB	=	ORIENTED STRAND BOARD
ROH	=	ROOF OVERHANG
SHT	=	SHEET
SIM	=	SIMILAR
STS	=	SELF TAPPING SCREW
STSMS	=	SELF TAPPING SHEET METAL SCREW
TYP	=	TYPICAL
UON, UNO	=	UNLESS OTHERWISE NOTED
WIC	=	WOODWORK INSTITUTE OF CALIFORNIA

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT 03 118460 SS TB Date SEP 27 2017

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT 2003-107736 Date 06-03-04 ED

SHEET INDEX

ARCHITECTURAL

A0.01 COVER SHEET
~~A1.01 FLOOR PLAN~~
A1.02 FLOOR PLAN – 36'x40'
~~A2.01 REFLECTED CEILING PLAN (8 LIGHTS)~~
~~A2.02 REFLECTED CEILING PLAN (12 LIGHTS)~~
A2.03 REFLECTED CEILING PLAN ~~(12 LIGHTS)~~
A2.04 REFLECTED CEILING DETAILS
~~A3.01 ROOF PLAN – 28 GA/DUAL PITCH~~
A3.02 ROOF PLAN – 26 GA/MONO PITCH
A3.03 ROOF DETAILS – 26 GA.
~~A3.04 ROOF DETAILS – MISCELLANEOUS OPTIONS~~
~~A3.11 ROOF PLAN – 22 GA/DUAL PITCH~~
~~A3.12 ROOF PLAN – 22 GA/MONO PITCH~~
~~A3.13 ROOF DETAILS – 22 GA.~~
~~A3.21 ROOF PLAN – BUILT-UP ROOF/DUAL PITCH~~
~~A3.22 ROOF PLAN – BUILT-UP ROOF/MONO PITCH~~
~~A4.01 EXTERIOR ELEVATIONS – 26 GA/DUAL PITCH~~
A4.02 EXTERIOR ELEVATIONS – 26 GA/MONO PITCH
~~A4.11 EXTERIOR ELEVATIONS – 22 GA/DUAL PITCH~~
~~A4.12 EXTERIOR ELEVATIONS – 22 GA/MONO PITCH~~
~~A4.21 EXTERIOR ELEVATIONS – 26GA/DUAL PITCH/STUCCO~~
~~A4.22 EXTERIOR ELEVATIONS – 26GA/MONO PITCH/STUCCO~~
A4.31 ARCHITECTURAL DETAILS – WOOD STUDS
~~A4.32 ARCHITECTURAL DETAILS – STEEL STUDS~~
~~A4.33 ARCHITECTURAL DETAILS – PLASTER~~
~~A4.34 ARCHITECTURAL DETAILS – 1-HOUR RATED~~
A5.01 INTERIOR ELEVATIONS
A6.01 DOOR, WINDOW, AND HARDWARE SCHEDULES
A6.02 ROOM FINISH SCHEDULE
A7.01 MISCELLANEOUS OPTIONS
~~A7.02 PARAPET DETAILS~~

STRUCTURAL

F1.01 FOUNDATION PLAN – WOOD – 50, 50+20, 100 PSF
~~F1.11 FOUNDATION PLAN – W88 – 125 PSF~~
F1.21 FOUNDATION DETAILS – 50, 50+20, 100 PSF
~~F1.22 FOUNDATION DETAILS – 125 PSF~~
~~F2.01 FOUNDATION PLAN – A88 – 50, 50+20 PSF~~
~~F2.02 FOUNDATION PLAN – A88 – 100, 125 PSF~~
~~F2.11 FOUNDATION DETAILS – ABOVE GRADE CONCRETE~~
~~F3.01 FOUNDATION PLAN – B88 – 50, 50+20 PSF~~
~~F3.02 FOUNDATION PLAN – B88 – 100, 125 PSF~~
~~F3.03 FOUNDATION PLAN – B8C – 100, 125 PSF (10'-0" COLUMNS)~~
~~F3.11 FOUNDATION DETAILS – BELOW GRADE CONCRETE~~
~~F3.12 FOUNDATION OPTIONS~~
S1.01 FLOOR FRAMING PLAN – WOOD DECK
~~S1.11 FLOOR FRAMING PLAN – CONCRETE DECK~~
~~S2.01 ROOF FRAMING PLAN – 28 GA/DUAL PITCH – (8 & 12 LIGHTS)~~
S2.02 ROOF FRAMING PLAN – 26 GA/MONO PITCH ~~– (8 & 12 LIGHTS)~~
~~S2.03 ROOF FRAMING PLAN – 26GA/DUAL PITCH – (12 LIGHTS)~~
~~S2.04 ROOF FRAMING PLAN – 26GA/MONO PITCH – (12 LIGHTS)~~
~~S2.11 ROOF FRAMING PLAN – 22 GA/DUAL PITCH – (8 & 12 LIGHTS)~~
~~S2.12 ROOF FRAMING PLAN – 22 GA/MONO PITCH – (8 & 12 LIGHTS)~~
~~S2.13 ROOF FRAMING PLAN – 22 GA/DUAL PITCH – (12 LIGHTS)~~
~~S2.14 ROOF FRAMING PLAN – 22 GA/MONO PITCH – (12 LIGHTS)~~
~~S3.01 STRUCTURAL FRAMING – 26 GA/DUAL – (8 & 12 LIGHTS)~~
S3.02 STRUCTURAL FRAMING – 26 GA/MONO ~~– (8 & 12 LIGHTS)~~
~~S3.03 STRUCTURAL FRAMING – 26 GA/DUAL – (12 LIGHTS)~~
~~S3.04 STRUCTURAL FRAMING – 26 GA/MONO – (12 LIGHTS)~~
~~S3.11 STRUCTURAL FRAMING – 22 GA/DUAL – (8 & 12 LIGHTS)~~
~~S3.12 STRUCTURAL FRAMING – 22 GA/MONO – (8 & 12 LIGHTS)~~
~~S3.13 STRUCTURAL FRAMING – 22 GA/DUAL – (12 LIGHTS)~~
~~S3.14 STRUCTURAL FRAMING – 22 GA/MONO – (12 LIGHTS)~~
S4.01 WALL FRAMING – WOOD STUDS
S4.02 WALL FRAMING DETAILS – WOOD STUDS
~~S4.11 WALL FRAMING – STEEL STUDS~~
~~S4.12 WALL FRAMING DETAILS – STEEL STUDS~~

MECHANICAL

M1 MECHANICAL (HVAC) PLAN
~~M2 MECHANICAL (HVAC) PLAN~~

ELECTRICAL

Alt Systems Pen Heads

~~E1.01 ELECTRICAL PLAN – (8 LIGHTS)~~
~~E1.02 ELECTRICAL PLAN – (10 LIGHTS)~~
E1.03 ELECTRICAL PLAN – (12 LIGHTS)

Drawings Alt Systems

PLUMBING

~~P1.01 PLUMBING PLAN AND DETAILS~~
P1.02 PLUMBING PLAN AND DETAILS

RAMP

R1.01 4 FOOT RAMP/LANDING PLAN
R1.02 RAMP/STAIRS DETAILS
R2.01 OFFSET RAMP/LANDING PLAN
R2.02 OFFSET RAMP/STAIRS DETAILS
R3.01 FULL LENGTH RAMP/LANDING AND DETAILS
~~R4.01 CONCRETE RAMP/LANDING~~
~~R5.01 5 FOOT RAMP/LANDING PLAN~~

REVISIONS

1		
2		
3		
4		
5		

Electrical Engineer's Seal

Mechanical Engineer's Seal

PC Professional Engineer's Record Seal
REGISTERED PROFESSIONAL ENGINEER JAMES T. SIMPSON No. 5802 STRUCTURAL STATE OF CALIFORNIA
LICENSE EXPIRES 6-30-2004

Architects Seal

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
PC-04
104801
AC APP FLS WJ SS DJL
DATE 5/12/05

MODTECH INC.
2830 BARRETT AVENUE
PERRIS, CALIF. 92571
PH (909) 943-4014
FAX (909) 940-0427

PROJECT NUMBER: 5305
LARK ELLEN ELEMENTARY SCHOOL
COVINA VALLEY UNIFIED SCHOOL DISTRICT

© MODTECH, INC. 2002

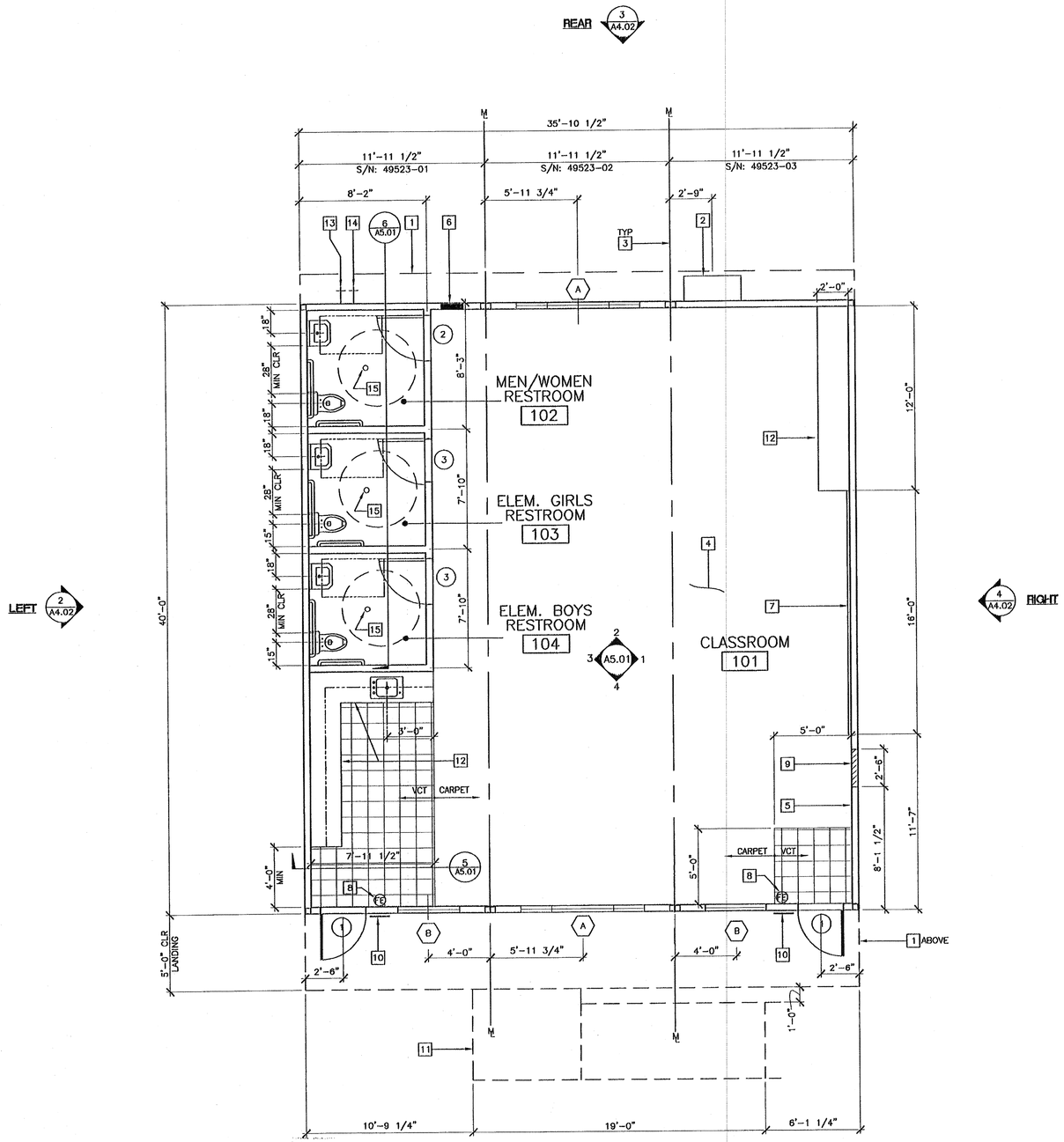
DRAWN BY: JLC/BF
DATE: 3/30/04
CHECKED BY:
DATE:

MODTECH Index No.

COVER SHEET

A0.01

PROJECT NO. 5305 PC-04-104801



KEY NOTES

1. ROOF OVERHANG
2. HVAC UNIT (HV)
3. MODLINE (M)
4. FINISH FLOORING (FIN)
5. INTERIOR FINISH (FIN)
6. ELECTRICAL PANEL (EL)
7. 2- 8'X4' MARKER BOARDS (SEE SPECIFICATIONS FOR TYPE)
8. FIRE EXTINGUISHER - 5 POUNDS DRY CHEMICAL WITH 2A - 10BC UL RATING ON WALL MTD BRACKET, HANDLE AT 48" AFF
9. TV BLOCKING (SEE A7.01)
10. SIGNAGE PROVIDED AND INSTALLED BY DISTRICT PRIOR TO OCCUPANCY. SEE SHEET A6.01
11. RAMP/LANDING (RAMP) SEE SHEETS R1-R3
12. CASEWORK
13. WASTE POC SEE 9/P1.02
14. WATER POC SEE 10/P1.02
15. FLOOR DRAIN

NOTES

1. PLACE (2) PERMANENT METAL IDENTIFICATION LABELS ON EACH MODULE. (1) LABEL AT REAR EXTERIOR AND (1) LABEL ABOVE CEILING LINE AT INTERIOR FRAME. LABELS WILL BE MECHANICALLY FASTENED AND SHOW THE DSA APPLICATION NUMBER, MANUFACTURERS NAME AND SERIAL NUMBER, DESIGN LIVE LOAD FOR ROOF AND FLOOR FRAMING, WIND SPEED AND EXPOSURE CATEGORY.
2. INSULATION MATERIALS INSTALLED WITHIN FLOOR/CEILING ASSEMBLIES, ROOF-CEILING ASSEMBLIES, WALLS, CRAWL SPACES OR ATTICS SHALL HAVE A FLAME SPREAD RATING NOT TO EXCEED 25 AND A SMOKE DENSITY NOT TO EXCEED 450. EXCEPTIONS:
   (1) FOAM PLASTIC INSULATION SHALL COMPLY WITH SECTION 2602
   (2) WHEN MATERIALS ARE INSTALLED IN CONCEALED SPACES OF TYPES III, IV, AND V CONSTRUCTION, THE FLAME SPREAD AND SMOKE-DEVELOPED LIMITATIONS DO NOT APPLY TO FACINGS IF THE FACING IS INSTALLED IN SUBSTANTIAL CONTACT WITH THE UNEXPOSED SURFACE OF THE CEILING, FLOOR OR WALL FINISH (CBC SECTION 707.3)
   (3) CELLULOSE LOOSE FILL INSULATION SHALL COMPLY WITH CPSC 16 CFR PARTS 1209 AND 1404
3. INTERIOR SIDE WALLS MAY BE LOCATED ON EITHER SIDE OF MODLINE
4. DISTRICT TO PROVIDE OCCUPANCY LOAD SIGN PER CBC 1007.2.6 PRIOR TO OCCUPANCY
5. INSULATED CEILING R-19
6. WALLS R.11

SYMBOL LEGEND

30"x48" MIN. CLEAR AREA

60" DIA MIN. CLEAR AREA

WALL LEGEND

2"x4" WALL

MAY 13 2004

DATE SIGNED APR 16 2003

FLOOR PLAN

SCALE: 1/4" = 1'-0" (36'x40')

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT
APP. 107736
AC SW FLS SS
DATE 06-03-04

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT
APP. 03 118460
AC FLS SS JB
Date SEP 21 2017

PC
CBC 2001

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES
PC-04
K4801
AC FLS SS WL
DATE 5/5/03

REVISIONS			
1	JLC/BF	REVISED FLOOR PLAN	3/30/04
2			
3			
4			
5			

Electrical Engineer's Seal

Mechanical Engineer's Seal

PC Professional of Record Seal
REGISTERED PROFESSIONAL ENGINEER JAMES L. SIMCOE STRUCTURAL STATE OF CALIFORNIA
LICENSE EXPIRES 6-30-2004

Architects Seal

MODTECH INC.
2830 BARRETT AVENUE
PERRIS, CALIF. 92571
PH (909) 943-4014
FAX (909) 940-0427

PROJECT NUMBER: 5305

LARK ELLEN ELEMENTARY SCHOOL

COVINA VALLEY UNIFIED SCHOOL DISTRICT

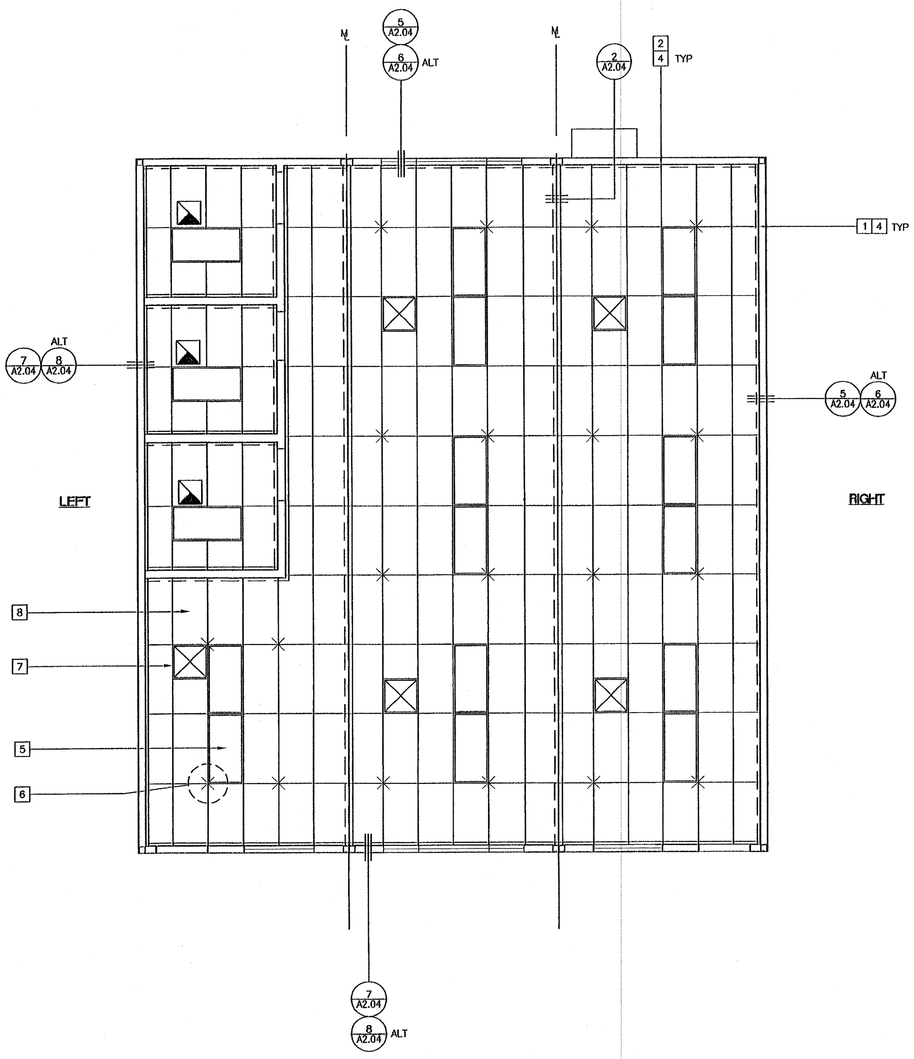
FLOOR PLAN

© MODTECH, INC. 2002

DRAWN BY: JLC/BF
DATE: 3/30/04
CHECKED BY:
DATE:

MODTECH Index No.
A1.02

PLOT DATE: 9/19/17 - 11:00 AM



KEY NOTES

1. MAIN RUNNERS AT 4'-0" OC WITH 12 GA HANGER WIRES AT END OF EACH RUNNER
2. CROSS TEE AT 2'-0" OC (STANDARD CEILING PLAN ONLY)
3. CROSS TEE AT 4'-0" OC (BAYONET CEILING PLAN ONLY)
4. T-BAR PART NUMBERS

	ARMSTRONG PA-041	CHICAGO METALLIC PA-028	USG PA-030
RUNNER MAIN	7301	200	DX 26
4' CROSS TEE	7342	1210	DX 422
4' CROSS TEE (AT LIGHTS)	7341	1204	DX 626
2' CROSS TEE	7328	1226	DX 218
WALL ANGLE	7800	1420-01	M-7

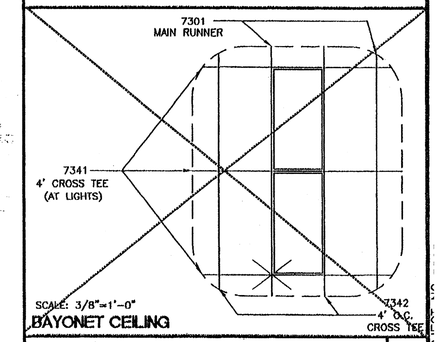
5. 2'x4' RECESSED LIGHT FIXTURE - 11/A2.04 (W/T-8 LIGHTS AND ELECTRONIC BALLAST)
6. 4 WAY SPLAY AT LOCATIONS INDICATED, WIRES TAUT BUT NOT TO DISTORT GRID - 1/A2.04
7. HVAC SUPPLY REGISTER, 2'x2' TYPICAL - 12/A2.04
8. CEILING PANELS: 2'x4' LAY-IN PANELS, ASTM FLAME SPREAD CLASS 1 (0-25). SMOKE DEVELOPMENT DENSITY LESS THAN 450 TYPICAL

NOTES

1. AT THE END OF ROWS OF RUNNERS A 12 GA HANGER WIRE SHALL BE ATTACHED WITHIN 8" OF WALL OR SOFFIT.
2. VERTICAL WIRES MORE THAN 1-IN-6 OUT OF PLUMB SHALL HAVE COUNTER BRACING WIRES.
3. RUNNERS MAY BE ATTACHED TO WALLS OR MOLD AT (2) ADJACENT WALLS - OTHER WALLS NO ATTACHMENT. CLEARANCE OF 1/2" BETWEEN END OF RUNNERS AND FACE OF WALL
4. DUCTWORK SHALL BE RIGIDLY ATTACHED TO BUILDING AND SHALL NOT BE CLOSER THAN 6" TO HANGER WIRES.
5. VERTICAL WIRE SPACING 4' O.C. ALONG EVERY MAIN RUNNER

LEGEND

- T & T BAR CEILING
- 2'X 4' ELEC. FIXTURE RECESSED
- RETURN REGISTER
- SUPPLY AIR DIFFUSER
- SPLAY WIRE
- INDICATES FIXED SIDE 7/A2.04
- INDICATES FREE SIDE 5/A2.04
- QT 200 EXHAUST FAN, SEE E1.03



4' CROSS TEE AT LIGHTS | 1

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 03 118460
AC FLS SS
Date SEP 27 2017

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 107736
AC FLS
DATE 06-13-08

(36'x40')

REFLECTED CEILING PLAN

SCALE: 1/4" = 1'-0"

DATE SIGNED APR 10 2003

MAY 13 2004

PC

CBC 2001

REVISIONS			
1	JLC/BF	REVISED REFLECTED CEILING PLAN	3/30/04
2			
3			
4			
5			

Electrical Engineer's Seal

Mechanical Engineer's Seal

PC Professional of Record Seal
REGISTERED PROFESSIONAL ENGINEER
JAMES T. SIMPSON
No. 3402
STRUCTURAL
STATE OF CALIFORNIA
LICENSE EXPIRES 6-30-2004

Architects Seal

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
PC-04
104801
AC FLS SS
DATE 5/11/04

MODTECH INC.
2830 BARRETT AVENUE
PERRIS, CALIF. 92571
PH (909) 943-4014
FAX (909) 940-0427

PROJECT NUMBER: 5305
LARK ELLEN ELEMENTARY SCHOOL
COVINA VALLEY UNIFIED SCHOOL DISTRICT

© MODTECH, INC. 2002

DRAWN BY: JLC/BF
DATE: 3/30/04
CHECKED BY:
DATE:

MODTECH Index No.

REFLECTED CEILING PLAN ~~(12 LIGHTS)~~ A2.03

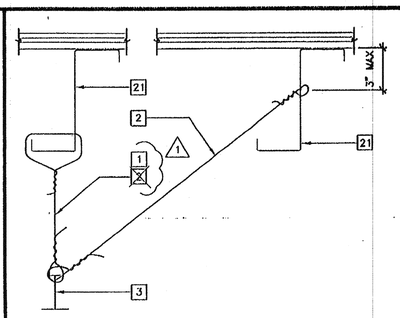
DSA APP. 03-118460 DWG

17

13

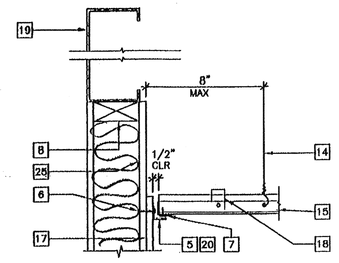
SPLAY BRACING WIRE

9



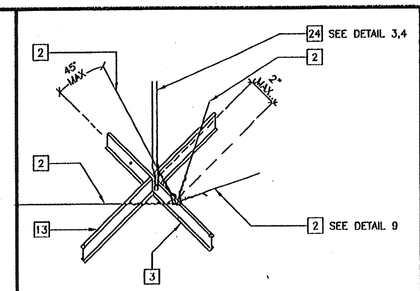
TYPICAL FREE SIDE

5



SIESMIC SPLAY - 4 WAY

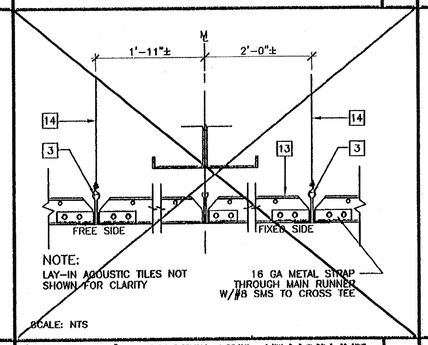
1



18

(OPTIONAL) BAYONET GRID AT MODLINE

14



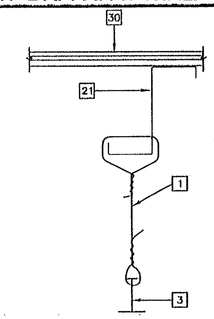
NOTE:
LAY-IN ACOUSTIC TILES NOT SHOWN FOR CLARITY

16 GA METAL STRAP THROUGH MAIN RUNNER W/#8 SMS TO CROSS TEE

SCALE: NTS

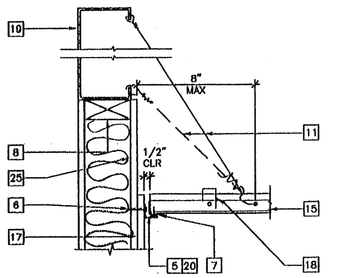
HANGER WIRE DETAIL

10



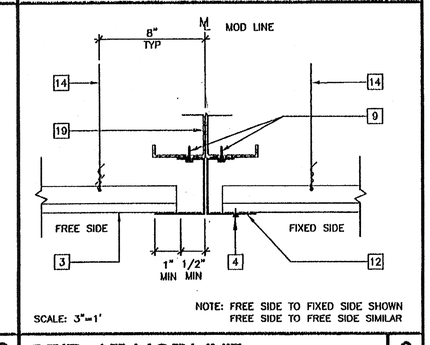
ALTERNATE FREE SIDE

6



GRID AT MODLINE

2



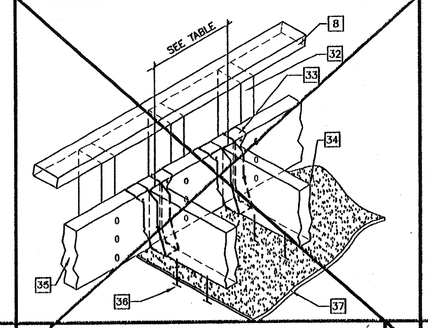
SCALE: 3"=1'

NOTE: FREE SIDE TO FIXED SIDE SHOWN
FREE SIDE TO FREE SIDE SIMILAR

19

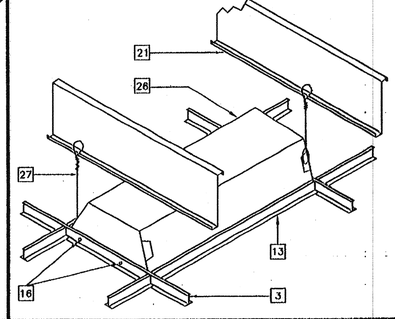
HARD CEILING DETAIL

15



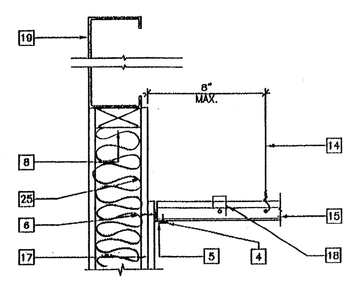
LIGHT FIXTURE MOUNTING

11



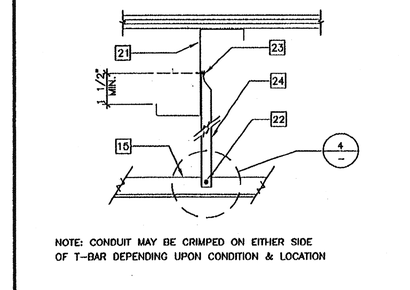
TYPICAL FIXED SIDE

7



COMPRESSION STRUT

3



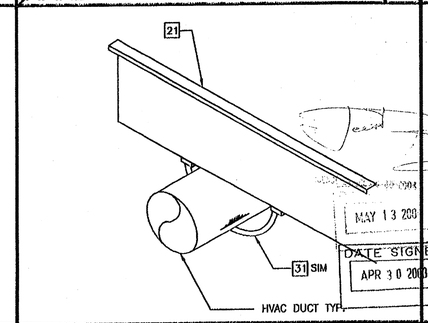
NOTE: CONDUIT MAY BE CRIMPED ON EITHER SIDE OF T-BAR DEPENDING UPON CONDITION & LOCATION

PC
CBC 2001

20

HVAC DUCTWORK MOUNTING

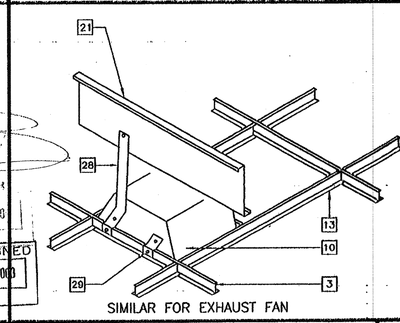
16



MAY 13 200
DATE SIGNED
APR 30 2010

HVAC REGISTER MOUNTING

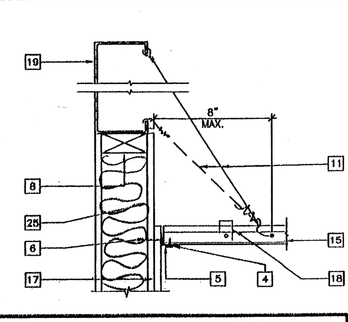
12



SIMILAR FOR EXHAUST FAN

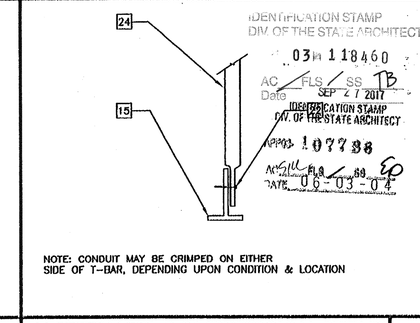
ALTERNATE FIXED SIDE

8



ALTERNATE COMPRESSION STRUT

4



NOTE: CONDUIT MAY BE CRIMPED ON EITHER SIDE OF T-BAR, DEPENDING UPON CONDITION & LOCATION

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
03 in 118460
AC FLS SS TB
Date SEP 27 2017

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
1077 88
AC FLS SS EP
DATE 06-03-04

KEY NOTES

1. HANGER WIRE AT 4'-0" OC IN PUNCHED OR DRILLED HOLE
2. SPLAY BRACE WIRE TO RUN IN SAME PLANE AS RUNNERS AT MAX 45° FROM CEILING PLANE
3. MAIN RUNNER
4. 1/8" DIA POP RIVET TO EACH T-BAR
5. WALL ANGLE
6. 6d NAIL AT 16" OC AT WALL STUDS (WOOD STUDS) ~~#8 STSMS AT 16" OC AT WALL STUDS (STEEL STUDS)~~
7. ANGLE WITH 1/8" DIA POP RIVET TO EACH T-BAR, NO CONNECTION TO WALL ANGLE
8. TOP PLATE
9. #10 STSMS AT 4' OC
10. HVAC REGISTER, 2'x2' TYPICAL
11. HANGER TO TOP LIP OF ROOF BEAM WHERE NO PURLIN ABOVE MAX SLOPE 1" IN 6", ALTERNATE: CONNECT TO BOTTOM LIP (DASHED) WHERE THERE IS INTERFERENCE WITH DUCTWORK
12. 26 GA CEILING MOUNT X 2" ⌊
13. CROSS TEE
14. HANGER WIRE AT THE END ON EACH RUNNER TO PURLIN MAX DISTANCE FROM WALL 8" OR 1/4 LENGTH OF END TEE RUNNER, WHICHEVER IS LESS, SEE 10/A2.04
15. MAIN RUNNERS OR CROSS TEES
16. #8 STSMS, (2) AT EACH END
17. FINISH WALL
18. HORIZONTAL STRUTS SHALL RUN CONTINUOUS AT ALL PERIMETERS, NOT POP RIVETED TO THE WALL ANGLE ARMSTRONG #7425 OR #7445 WITH SPRING STEEL SNAP TO RUNNER PER IR M-3
19. ROOF BEAM
20. NO POP RIVETS
21. ROOF PURLIN
22. CRIMP CONDUIT AND ATTACH TO T-BAR GRID WITH (1) #8 TEKSCREW
23. CRIMP CONDUIT AND ATTACH TO PURLIN WITH (1) #8 TEKSCREW
24. 3/4" EMT CONDUIT
25. FIBERGLASS BLANKET INSULATION FOR FIRE BLOCK
26. RECESSED LIGHT FIXTURE
27. SLACK WIRES, TOTAL OF (2) LOCATED AT OPPOSITE CORNERS OF FIXTURE OR REGISTER
28. (2) 26 GA STRAPS, FASTEN WITH #8 STSMS (1) TO REGISTER AND (1) TO ROOF PURLIN OR ROOF BEAM
29. 24 GA REGISTER CLIP, FASTEN WITH #8 STSMS (1) TO CEILING GRID AND (1) TO REGISTER, (2) CLIPS AT EACH END
30. ROOF SHEATHING
31. (2) 26 GA. STRAPS, FASTEN w/#8 STSMS (1) TO REGISTER AND (1) TO ROOF PURLIN OR ROOF BEAM
32. ~~TYPICAL WALL FRAMING~~
33. ~~SIMPSON STRONG TIE LB26 FOR 2x6 OR LB24 FOR 2x4. ATTACH WITH MANUFACTURERS RECOMMENDED NAILING.~~
34. ~~2x4, AND 2x6 CEILING JOIST~~

special grade size	Spacing	HemFir Stud	HemFir No 2	HemFir No 1	DFL Stud	DFL No. 2
2x4	12"oc	11'-3"	11'-7"	12'-2"	11'-10"	12'-5"
	16"oc	10'-3"	10'-6"	11'-0"	10'-9"	11'-3"
	24"oc	8'-11"	9'-2"	9'-8"	9'-5"	9'-10"
2x6	12"oc	17'-8"	18'-2"	19'-1"	18'-8"	19'-6"
	16"oc	16'-1"	16'-6"	17'4"	16'-11"	17'-8"
	24"oc	14'-1"	14'-5"	15'-2"	14'-9"	15'-6"

35. ~~2x6 ATTACH TO WALL WITH (3) 16D BOX NAILS TYP.~~
36. ~~DRY WALL SCREWS TYPICAL~~
37. ~~1/2" GYP. BOARD~~

NOTES

1. ALL HANGER, SPLAY BRACE & SLACK WIRES SHALL BE 12 GA WITH MIN 4 TIGHT TURNS WITHIN 1 1/2" MAX OF EACH END
2. FIRE BLOCKING TO BE PROVIDED AT CEILING LEVEL ON ALL WALLS. FIRE BLOCKING MAY BE OF WOOD, GYPSUM BOARD, CEMENT FIBER BOARD OR BATTS OR BLANKETS OF MINERAL OR GLASS FIBER INSULATION PER CBC SECTION 708.2.2.

REVISIONS			
1	BF	CORRECTED CALL OUT	04/26/04
2			
3			
4			
5			

Electrical Engineer's Seal

Mechanical Engineer's Seal

PC Professional of Record Seal

REGISTERED PROFESSIONAL ENGINEER
CHRISTOPHER T. STAMPOULOS
CHRISTOPHER T. STAMPOULOS
No. S-6608
STRUCTURAL
STATE OF CALIFORNIA
LICENSE EXPIRES 6-30-2004

Architects Seal

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
PC-04
104801
AC FLS SS
DATE 6/16/04

MODTECH™ INC.
2830 BARRETT AVENUE
PERRIS, CALIF. 92571
PH (909) 943-4014
FAX (909) 940-0427

PROJECT NUMBER: 5305

© MODTECH, INC. 2002

LARK ELLEN ELEMENTARY SCHOOL

COVINA VALLEY UNIFIED SCHOOL DISTRICT

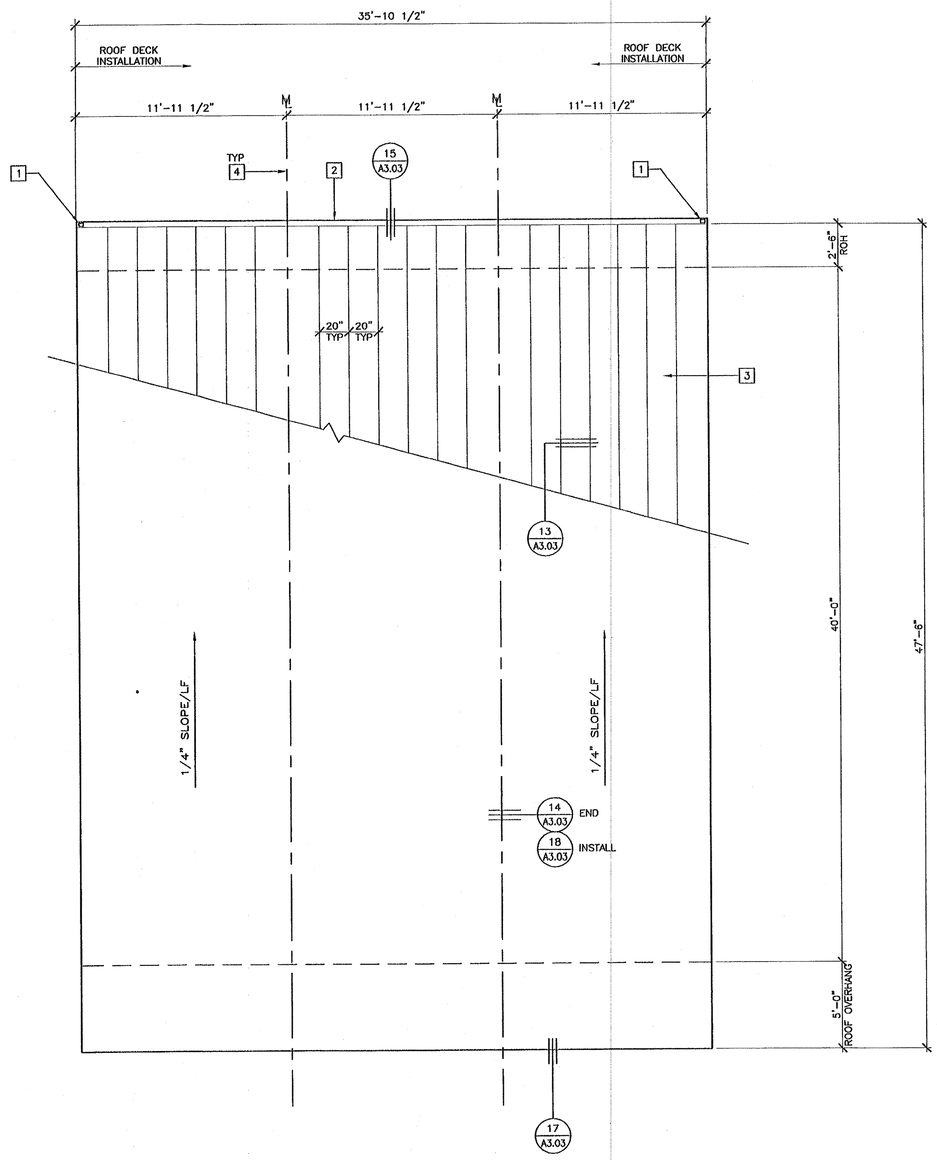
REFLECTED CEILING DETAILS

DRAWN BY: JLC/BF
DATE: 3/30/04
CHECKED BY:
DATE:

MODTECH Index No.

A2.04

REAR



LEFT

RIGHT

FRONT

1

DATE SIGNED APR 30 2003

MAY 13 2004

PC

CBC 2001

ROOF PLAN

26 GA MONO PITCH (36'x40')

SCALE: 1/4" = 1'-0"

KEY NOTES

1. DOWNSPOUT -16/A3.03
2. CONTINUOUS GUTTER 26 GA -15/A3.03
3. 26 GA MIN INTERLOCKING ROOF PANELS OVER AQUA BAR 15 (MH) ROOFING UNDERLAYMENT (RADCO LISTING #1109) OVER 3/4" CDX PLYWOOD - CLASS A ROOFING SYSTEM OR ALTERNATE 3/4" LOUISIANA PACIFIC OSB (SEE SPECIFICATIONS)
4. MODLINE (M)
5. ~~4" SEPARATION AS REQUIRED PER FLOOR PLAN~~

NOTES

1. BUILDINGS HOUSING GROUP E OCCUPANCIES SHALL HAVE ROOF COVERINGS AS SPECIFIED IN CBC TABLE 15A - CLASS A OR B.

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT
APP'D: 1 077 86
DATE: 06-03-04

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT
APP'D: 03 in 118460
AC FLS SS TB
Date SEP 27 2017

REVISIONS			
1	JLC/BF	REVISED ROOF PLAN	3/30/04
2			
3			
4			
5			

Electrical Engineer's Seal

Mechanical Engineer's Seal

PC Professional of Record Seal — REGISTERED PROFESSIONAL ENGINEER JAMES T. SIMPSON No. 3602 STRUCTURAL STATE OF CALIFORNIA — LICENSE EXPIRES 6-30-2004

Architects Seal

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES PC-04 104801 AC FLS SS DATE 5/13/04

MODTECH™ INC.
2830 BARRETT AVENUE PERRIS, CALIF. 92571
PH (909) 943-4014 FAX (909) 940-0427

PROJECT NUMBER: 5305

© MODTECH, INC. 2002

LARK ELLEN ELEMENTARY SCHOOL

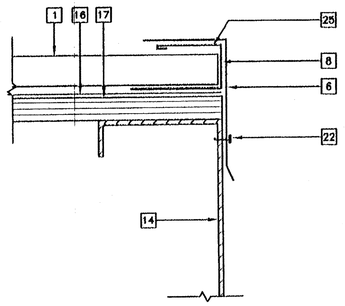
COVINA VALLEY UNIFIED SCHOOL DISTRICT

ROOF PLAN 26 GA MONO PITCH

DRAWN BY: JLC/BF
DATE: 3/30/04
CHECKED BY:
DATE:

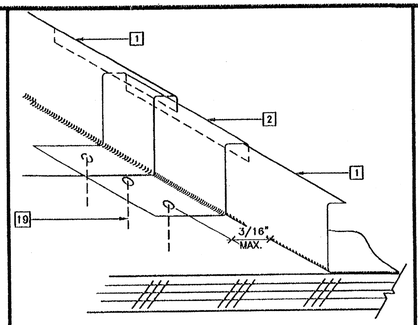
MODTECH Index No.

A3.02



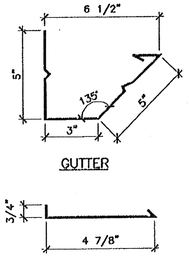
SCALE: 3"=1'-0"

ROOF FLASHING AT HIGH SIDE | 17



SCALE: NTS

ROOF STANDING SEAM | 13

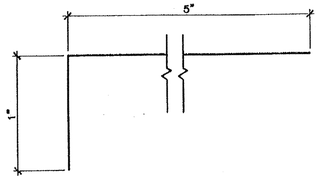


GUTTER

GUTTER STRAP

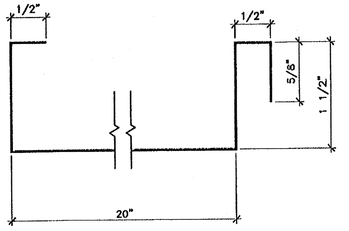
SCALE: 3"=1'-0"

26 GA GUTTER AND GUTTER STRAP | 9



SCALE: NTS

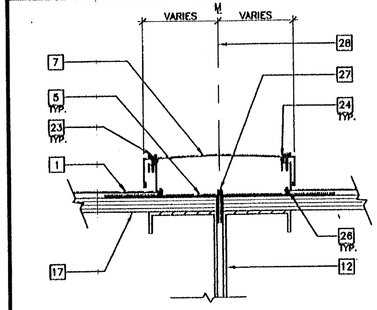
FLASHING AT MODLINE WALL | 5



26 GA STEEL G90LFQ

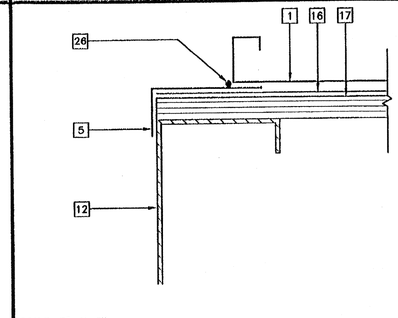
SCALE: NTS

ROOF PAN | 1



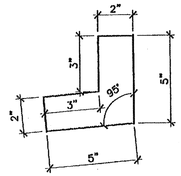
SCALE: 1 3/4"=1'-0"

MODLINE ROOF CAP | 18



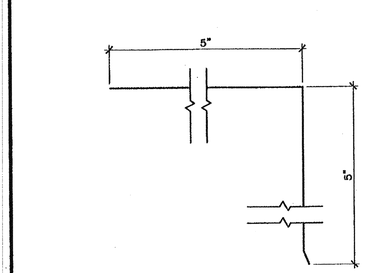
SCALE: 3"=1'-0"

END ROOF PAN CONNECTION | 14



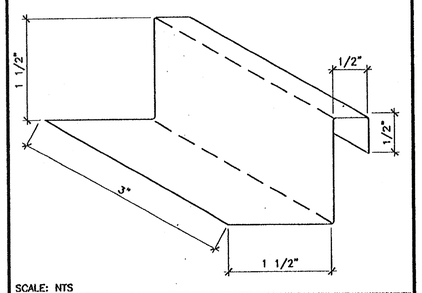
SCALE: 3"=1'-0"

DOWNSPOUT AT BEND | 10



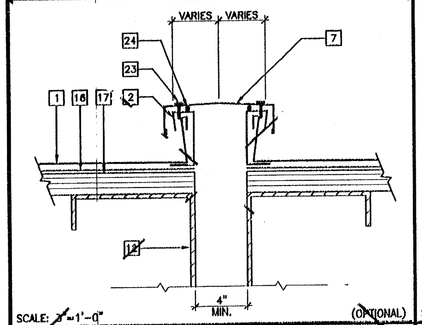
SCALE: NTS

ROOF FLASHING AT HIGH SIDE | 6



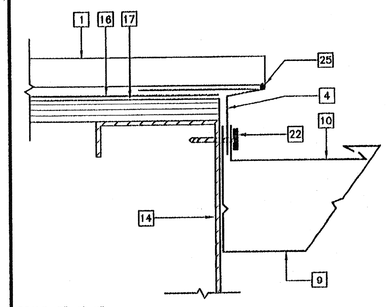
SCALE: NTS

ROOF CLIP | 2



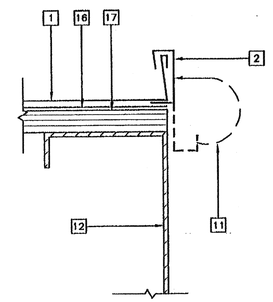
SCALE: 3"=1'-0" (OPTIONAL)

ROOF CAP AT 4" SEPARATION | 19



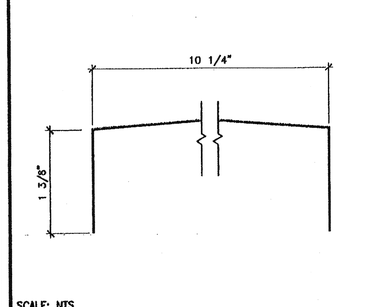
SCALE: 3"=1'-0"

GUTTER AT ROOF FASCIA BEAM | 15



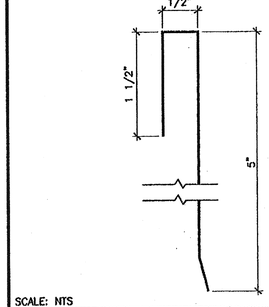
SCALE: 3"=1'-0"

STARTER ROOF PAN CONNECTION | 11



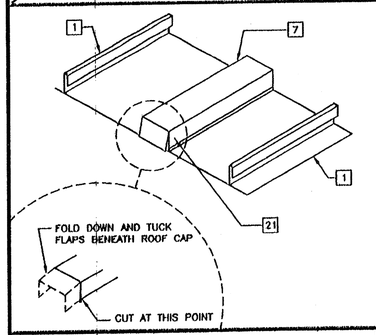
SCALE: NTS

26 GA ROOF CAP AT MODLINE | 7

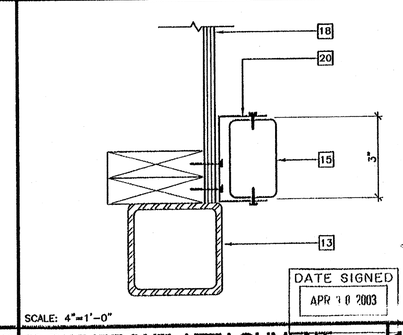


SCALE: NTS

ROOF FLASHING AT SIDE WALL | 3

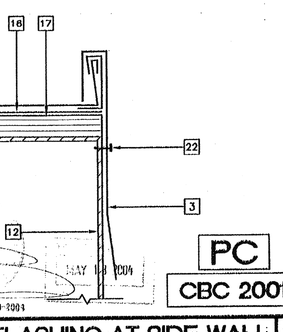


MODLINE ROOF CAP | 20



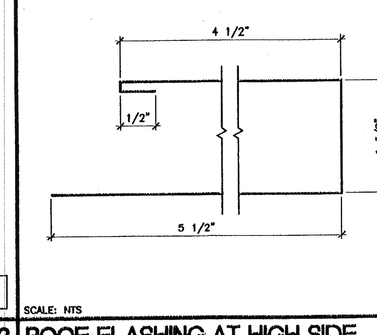
SCALE: 4"=1'-0"

DOWNSPOUT ATTACHMENT | 16



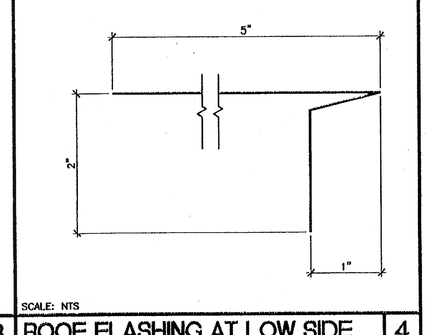
SCALE: 3"=1'-0"

ROOF FLASHING AT SIDE WALL | 12



SCALE: NTS

ROOF FLASHING AT HIGH SIDE | 8



SCALE: NTS

ROOF FLASHING AT LOW SIDE | 4

KEY NOTES

1. 26 GA STANDING SEAM ROOF PAN – 1/A3.03
2. 26 GA ROOF CLIP (AT 24" OC MAX AND 6" MAX FROM END OF ROOF) – 2/A3.03
3. 22 GA GALVANIZED IRON FLASHING AT SIDEWALL – 3/A3.03
4. 22 GA GALVANIZED IRON FLASHING AT LOW END OF ROOF – 4/A3.03
5. 22 GA GALVANIZED STEEL FLASHING AT MODLINE WALL – 5/A3.03
6. 22 GA GALVANIZED STEEL FLASHING AT HIGH END OF ROOF – 6/A3.03
7. 26 GA ROOF CAP AT MODLINE – 7/A3.03
8. 26 GA ROOF METAL FLASHING AT HIGH SIDE – 8/A3.03
9. 26 GA CONTINUOUS GUTTER – 9/A3.03
10. 26 GA GUTTER STRAP – 9/A3.03
11. ROOF CLIP MOUNTED UPSIDE-DOWN, BEND CLIP HEAD UP AND OVER ROOF PAN – 11/A3.03
12. ROOF BEAM (STR)
13. COLUMN (STR)
14. ROOF FASCIA (STR)
15. DOWN SPOUT
16. WEATHER PROOF MEMBRANE (25-30 LBS ASPHALT COATED)
17. PLYWOOD ROOF SHEATHING (STR)
18. TYPICAL EXTERIOR FINISH (FIN)
19. (3) .080 x 1 1/2" SHANK NAILS – ROOF CLIP TO ROOF DECKING
20. DOWNSPOUT BRACKET TYPICAL (3) PLACES, TOP, BOTTOM AND MIDSPAN – ATTACH TO SIDING W/(2) #10 STSMS AND DOWNSPOUT W/(2) #10 STSMS.
21. #10 STSMS WITH NEOPRENE WASHERS AT EACH SIDE
22. #10 STSMS WITH NEOPRENE WASHER AT 24" OC
23. #10 STSMS WITH NEOPRENE WASHERS AT 36" OC ON "WET" SIDE OF SEALANT
24. 1/4" BEAD OF SEALANT ALONG ENTIRE LENGTH OF BOTH MODLINE RIBS
25. SEALANT AT END OF ROOF PAN
26. CONTINUOUS BEAD OF SEALANT AT JOINT BETWEEN MODLINE FLASHING AND END PAN AND AT EACH END PAN ROOF CLIP
27. CONTINUOUS SEALANT AT MODLINE JOINT
28. MODLINE (M)

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APPL. 107736
AC FLS SS
DATE 06-03-04

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APPL. 03 in 118460
AC FLS SS TB
Date SEP 27 2017

DATE SIGNED
APR 10 2003

PC
CBC 2001

REVISIONS

1			
2			
3			
4			
5			

Electrical Engineer's Seal

Mechanical Engineer's Seal

PC Professional of Record Seal
REGISTERED PROFESSIONAL ENGINEER
JAMES T. SIMPSON
No. 42802
STRUCTURAL
STATE OF CALIFORNIA
LICENSE EXPIRES 6-30-2004

Architects Seal

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
PC-04
104801
AC FLS SS NL
DATE 5/2/05

MODTECH INC.
2830 BARRETT AVENUE
PERRIS, CALIF. 92571
PH (909) 943-4014
FAX (909) 940-0427

PROJECT NUMBER: 5305

LARK ELLEN ELEMENTARY SCHOOL

COVINA VALLEY UNIFIED SCHOOL DISTRICT

© MODTECH, INC. 2002

DRAWN BY: JLC/BF
DATE: 3/30/04
CHECKED BY:
DATE:

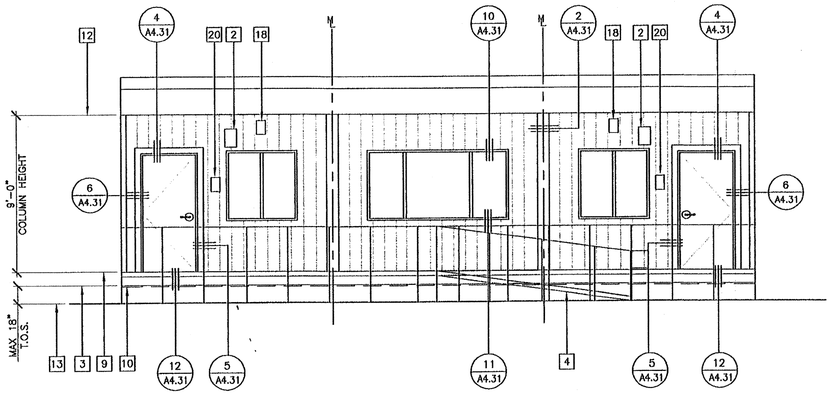
MODTECH Index No.

ROOF DETAILS 26 GA

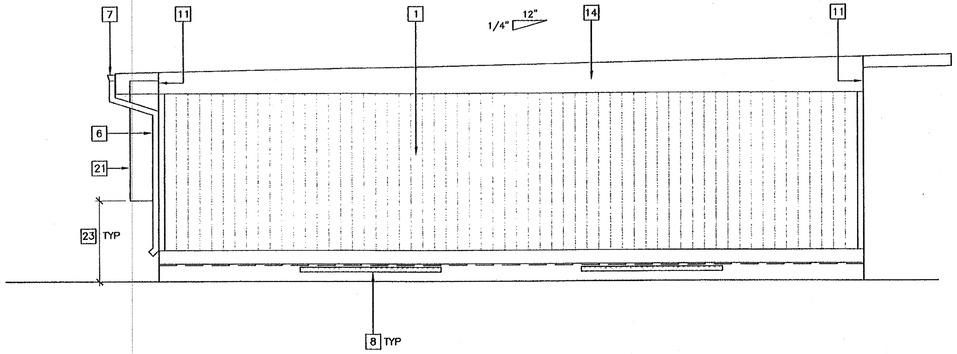
A3.03

PROJECT NO. 5305

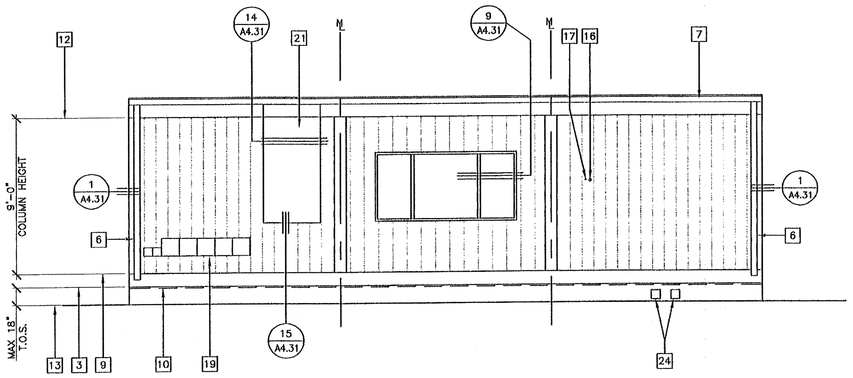
PC-04-104801



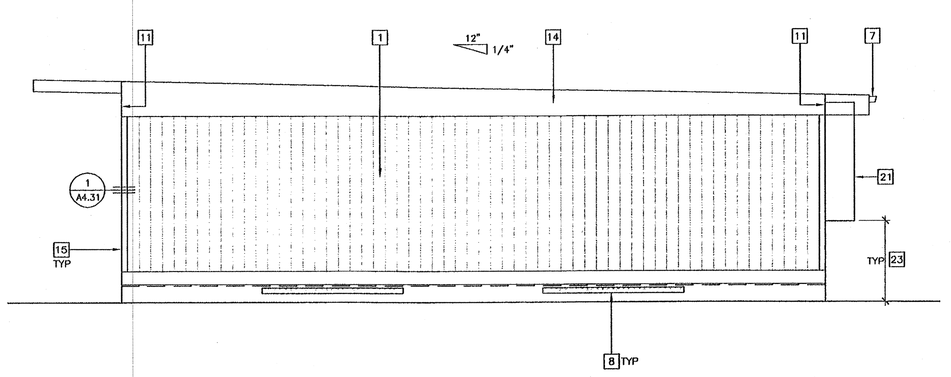
1 FRONT ELEVATION



2 LEFT SIDE ELEVATION



3 REAR ELEVATION



4 RIGHT SIDE ELEVATION

KEY NOTES

1. TYPICAL EXTERIOR FINISH (SEE EXTERIOR FINISH SCHEDULE BELOW)
2. EXTERIOR LIGHT FIXTURE (EL)
3. TOP OF SKIRTING (T.O.S.)
4. RAMP AND LANDING. SEE SHEETS R1 THRU R3 (RAMP)
5. NOT USED
6. DOWNSPOUT FASTEN TO BUILDING TYPICAL (3) PLACES
7. CONTINUOUS GUTTER WITH DOWNSPOUT (LOCATION OF DOWNSPOUT SHOWN ON ROOF PLAN – A3)
8. FOUNDATION VENT (SEE FOUNDATION PLAN – F1)
9. FINISH FLOOR LINE
10. FLOOR BEAM (STR)
11. ROOF HEADER (STR)
12. TOP OF COLUMN
13. FINISH GRADE
14. ROOF BEAM (STR)
15. COLUMN (STR)
16. ELECTRICAL STUB-OUT (EL)
17. GROUND STUB-OUT (EL)
18. J-BOX FOR EXTERIOR FIRE ALARM HORN (EL)
19. GUTTER BOX (EL)
20. SIGNAGE PROVIDED AND INSTALLED BY DISTRICT PRIOR TO OCCUPANCY. SEE SHEET A6.01
21. HVAC UNIT (HV)
22. ~~4" SEPARATION AS REQUIRED PER FLOOR PLAN~~
23. IF HVAC UNIT IS LOCATED IN ANY PATH OF TRAVEL OR CIRCULATION AREA AND HEIGHT FROM GRADE TO BOTTOM OF UNIT EXCEEDS 27" THEN PROTECTION MUST BE PROVIDED BY DISTRICT PRIOR TO OCCUPANCY
24. WATER AND WASTE LINES SUBBED THROUGH FOUNDATION TO 5'-0" OUTSIDE OF BUILDING.

EXTERIOR FINISH SCHEDULE

NOTE: SEE SPECIFICATIONS FOR DETAILED DESCRIPTION OF FINISH OPTIONS.

STANDARD – 5/8" PLYWOOD SIDING

OPTIONAL – 5/16" GROOVED FIBER CEMENT BOARD

OPTIONAL – 5/16" FIBER CEMENT BOARD WITH TEXTURED ELASTOMERIC COATING SYSTEM

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP# 107788
AC FLS SS EO
DATE 06-03-04

IDENTIFICATION STAMP
DIV OF THE STATE ARCHITECT
03 118460
AC FLS SS TB
Date SEP 27 2017

DATE SIGNED
APR 30 2003

MAY 13 2003

PC

CBC 2001

EXTERIOR ELEVATIONS

26 GA/MONO PITCH

SCALE: 1/4" = 1'-0"

REVISIONS			
1	JLC/BF	REVISED EXTERIOR ELEVATIONS	3/30/04
2			
3			
4			
5			

Electrical Engineer's Seal

Mechanical Engineer's Seal

PC Professional of Record Seal
REGISTERED PROFESSIONAL ENGINEER JAMES T. SIMPSON No. 34902 STRUCTURAL STATE OF CALIFORNIA
LICENSE EXPIRES 6-30-2004

Architects Seal

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
PC-04
104801
AC FLS SS
DATE 5/26/04

MODTECH™ INC.
2830 BARRETT AVENUE
PERRIS, CALIF. 92571
PH (909) 943-4014
FAX (909) 940-0427

PROJECT NUMBER: 5305

LARK ELLEN ELEMENTARY SCHOOL

COVINA VALLEY UNIFIED SCHOOL DISTRICT

© MODTECH, INC. 2002

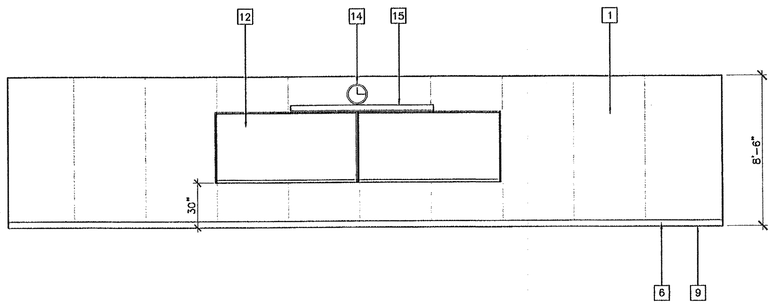
EXTERIOR ELEVATIONS 26 GA MONO PITCH

DRAWN BY: JLC/BF
DATE: 3/30/04
CHECKED BY:
DATE:

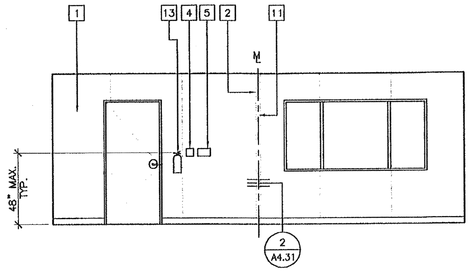
MODTECH Index No.

A4.02

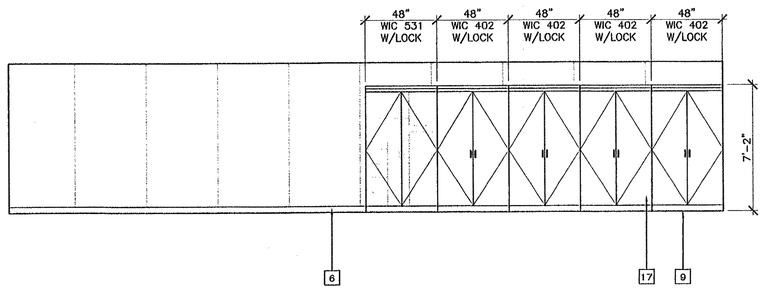
FILE PATH: 5305-A4.02.DWG
PRINTED ON 5/26/04



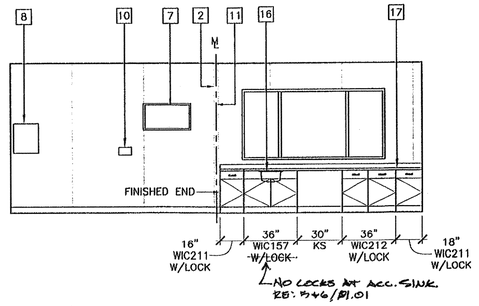
1 LEFT SIDE ELEVATION



2 FRONT ELEVATION



3 RIGHT SIDE ELEVATION



4 REAR ELEVATION

KEY NOTES

1. TYPICAL INTERIOR FINISH (FIN)
2. CLOSURE AT MODULAR JOINT
3. DUPLEX WALL RECEPTACLE (EL) 48" AFF
4. J-BOX FOR FIRE ALARM PULL STATION (EL) 48" AFF
5. LIGHT SWITCH (EL) 48" AFF
6. BASE
7. RETURN AIR GRILL
8. ELECTRICAL PANEL (EL)
9. FINISH FLOOR LINE (FIN)
10. THERMOSTAT (HV) 48" AFF
11. MODULAR JOINT
12. 2-8'X4' PORCELAIN BOARDS (SEE SPECIFICATIONS FOR TYPE)
13. FIRE EXTINGUISHER: 5 LBS DRY CHEMICAL WITH 2A-10BC UL RATING ON WALL MOUNTED BRACKET, HANDLE AT 48" AFF
14. ELECTRIC CLOCK (EL)
15. 8' PROJECTION SCREEN
16. SINK
17. CASEWORK - LOCKABLE

H:\PROJECTS\DSA-JOBS\5300-5399\5305\24X40.dwg

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT
APP'D: 107736
AC: GLC FLS SS ED
DATE: 10-5-04

IDENTIFICATION STAMP DIV OF THE STATE ARCHITECT
03 118460
AC: FLS SS JB
Date: SEP 27 2017

MAY 13 2004

DATE SIGNED
APR 30 2003

PC
CBC 2001

INTERIOR ELEVATIONS

SCALE: 1/4" = 1'-0"

REVISIONS			
1	SJ/BF	REVISED INTERIOR ELEVATIONS FROM PC PER JOB #5305	3/30/04
2			
3			
4			
5			

Electrical Engineer's Seal

Mechanical Engineer's Seal

PC Professional of Record Seal

REGISTERED PROFESSIONAL ENGINEER — STRUCTURAL — STATE OF CALIFORNIA
LICENSE EXPIRES 6-30-2004

Architects Seal

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
PC-04
104801
AC. FLS SS
DATE 5/16/05

MODTECH INC.
2830 BARRETT AVENUE
PERRIS, CALIF. 92571
PH (909) 943-4014
FAX (909) 940-0427

PROJECT NUMBER: 5305

© MODTECH, INC. 2002

COVINA ELEMENTARY SCHOOL

COVINA VALLEY UNIFIED SCHOOL DISTRICT

INTERIOR ELEVATIONS

DRAWN BY: SJ/BF
DATE: 3-30-04
CHECKED BY:
DATE:

MODTECH Index No.

A5.01

PC-04-104801 PROJECT NO. 5305

HARDWARE SET #1 (EXTERIOR)

LOCKSET	–	SCHLAGE D70PD, RHODES LEVER, OR EQUAL
BUTTS	–	1 1/2" PAIR HAGER BB1191 4 1/2"x4 1/2" NRP 26D OR EQUAL.
CLOSER	–	NORTON 8501 BFDP OR EQUAL.
THRESHOLD	–	PEMCO 271A OR EQUAL.
DOOR BOTTOM	–	PEMCO 216AV OR EQUAL.
WEATHER-STRIP	–	PEMCO 299AV OR EQUAL.

HARDWARE SET #2 (INTERIOR PASSAGE)

LOCKSET	–	SCHLAGE D10S WITH RHODES LEVER, OR EQUAL
BUTTS	–	1 1/2" PAIR HAGER BB1279 4 1/2"x4 1/2" OR EQUAL.

HARDWARE SET #3 (INTERIOR)

LOCKSET	–	SCHLAGE D70PD, WITH RHODES LEVER OR EQUAL
BUTTS	–	1 1/2" PAIR HAGER BB1191 4 1/2"x4 1/2" NRP 26D OR EQUAL.
~~STOP~~	~~–~~	~~RIXON 9 SERIES STEEL DOOR STOP~~
~~THRESHOLD~~	~~–~~	~~PEMCO 271A OR EQUAL~~
~~DOOR BOTTOM~~	~~–~~	~~216AV OR EQUAL~~
~~WEATHER-STRIP~~	~~–~~	~~PEMCO 299V OR EQUAL~~

HARDWARE SET #4 (INTERIOR DOUBLE LOCKABLE)

LOCKSET	–	SCHLAGE D86PD, WITH RHODES LEVER OR EQUAL
BUTTS	–	1 1/2" PAIR HAGER BB1279 4 1/2"x4 1/2" 26D OR EQUAL.

HARDWARE SET #5 (INTERIOR TOILET ROOM/PRIVACY)

LOCKSET	–	SCHLAGE D40S WITH RHODES LEVER OR EQUAL
BUTTS	–	1 1/2" PAIR HAGER BB1279 4 1/2"x4 1/2" 26D OR EQUAL.

HARDWARE SET #6 (INTERIOR STOREROOM)

LOCKSET	–	SCHLAGE D80PD WITH RHODES LEVER OR EQUAL
BUTTS	–	1 1/2" PAIR HAGER BB1279 4 1/2"x4 1/2" 26D OR EQUAL.

HARDWARE SET #7 (PANIC)

LOCKSET	–	VON DUPRIN 99L PANIC HARDWARE WITH TRIM OR EQUAL
BUTTS	–	1 1/2" PAIR HAGER BB1191 4 1/2"x4 1/2" NRP 26D OR EQUAL.
CLOSER	–	NORTON 8501 BFDP OR EQUAL.
THRESHOLD	–	PEMCO 271A OR EQUAL.
DOOR BOTTOM	–	PEMCO 216AV OR EQUAL.
WEATHER-STRIP	–	PEMCO 299AV OR EQUAL.
DOOR PULL	–	TO BE DETERMINED...

HARDWARE SET #8 (EXTERIOR)

LOCKSET	–	SCHLAGE D70PD WITH RHODES LEVER OR EQUAL
BUTTS	–	1 1/2" PAIR HAGER BB1191 4 1/2"x4 1/2" NRP 26D OR EQUAL.
THRESHOLD	–	PEMCO 271A OR EQUAL
DOOR BOTTOM	–	PEMCO 216AV OR EQUAL
WEATHER-STRIP	–	PEMCO 299AV OR EQUAL
NO CLOSER PERMITTED		

NOTE: PANIC HARDWARE IS REQUIRED TO BE INSTALLED WHEN THE CONFIGURATION OF ANY ROOM PROVIDES AN OCCUPANT LOAD OF 50 OR GREATER CBC 1007.3.10

HARDWARE SCHEDULE 7

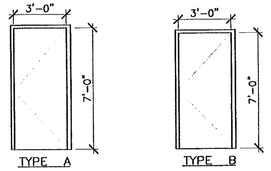
DOOR NUMBER	DOOR TYPE	QUANTITY	FRAME OPENING WIDTH	FRAME OPENING HEIGHT	DOOR MATERIAL	FIRE RATING	HARDWARE SET NO.	FRAME MATERIAL	JAMB THROAT	REMARKS
1	A	2	3'–0"	7'–0"	HM	–	7	HM	5–1/4"	
2	B	1	3'–0"	7'–0"	SCL	–	5	HM	5–3/8"	
3	B	2	3'–0"	7'–0"	SCL	–	5	HM	5–3/8"	

AL – ALUMINUM
HC – HOLLOW CORE WOOD
HM – HOLLOW METAL – PRESSED STEEL KD TYPE
HMW – HOLLOW METAL WELDED
SC – SOLID CORE WOOD
SCL – SOLID CORE WOOD LEGACY
SST – STAINLESS STEEL
STL – STEEL FRAME, 16 GA FULLY WELDED, GALV AT EXTERIOR, REPUBLIC "ME" SERIES. PAINT TO MATCH TRIM.
WWF – WINDOW WALL FRAME

DOOR SCHEDULE 4

DOOR NOTES

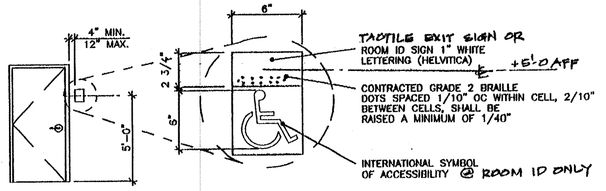
1. DOOR HANDLES FOR LOCKSETS AND PANIC HARDWARE TO BE CENTERED AT 40" AFF & DEAD BOLTS AT 44" AFF. HARDWARE TO BE OPENABLE FROM THE INSIDE WITHOUT ANY SPECIAL KNOWLEDGE OR EFFORT LEVERS TO RETURN TO WITHIN 1/2" OF DOOR.
2. ALL DOORS SHALL BE 1 3/4" THICK UON DOUBLE LETTERS IN SCHEDULE, INDICATES A PAIR OF DOORS.
3. CLOSURE SHALL BE SET FOR MAXIMUM OPENING PRESSURE OF 8.5 LBS AT EXTERIOR DOORS AND 5.0 LBS AT INTERIOR DOORS.
4. PLACE SIGN OVER EXIT DOORS: "THESE DOORS TO REMAIN UNLOCKED DURING BUSINESS HOURS"
5. SIGNAGE IS NOT IN MODTECH CONTRACT



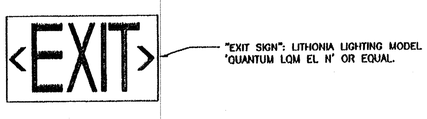
DOOR ELEVATIONS 5

ACCESSIBILITY SIGNAGE (BY DISTRICT) 6

REFER TO ARCHITECTURAL SHT. A0.2 FOR SIGNAGE



ENTRY DOOR FROM EXTERIOR VIEW
(TACTILE SIGN @ INTERIOR ONLY)



"EXIT SIGN": LITHONIA LIGHTING MODEL 'QUANTUM LQM EL N' OR EQUAL.

SEE FLOOR PLAN FOR LOCATION AND ARROW DIRECTION

DATE SIGNED APR 18 2003

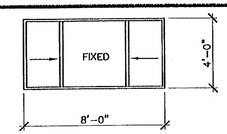
MAY 13 2004

PC

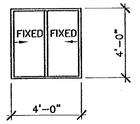
CBC 2001

WINDOW NUMBER	WINDOW TYPE	QUANTITY	FRAME OPENING WIDTH	FRAME OPENING HEIGHT	FINISH	REMARKS
A	1	2	8'–0"	4'–0"	1	SEE NOTE # 1 & 2
B	2	2	4'–0"	4'–0"	1	SEE NOTE # 1 & 2

WINDOW SCHEDULE 1



TYPE 1



TYPE 2

WINDOW NOTES

1. ALUMINUM GLAZING, 7/32" MIN. TEMPERED GLASS OF SOLAR GRAY WITH A LIGHT TRANSMISSION FACTOR OF 46%, ALL OPERABLE SASH SHALL HAVE SCREENS.
2. DUAL PANE.

WINDOW FINISH OPTIONS

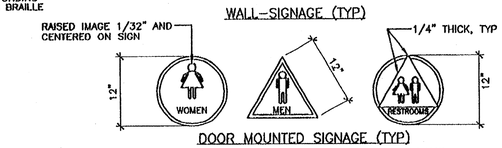
1. CLEAR ANODIZED
2. BRONZE ANODIZED
3. PAINTED

WINDOW ELEVATIONS 2



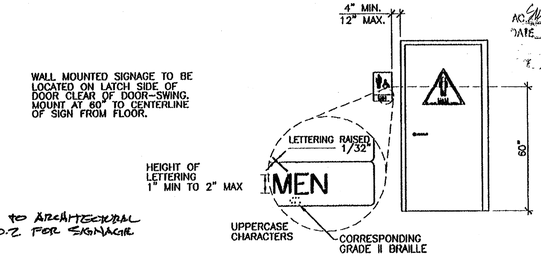
CORRESPONDING GRADE II BRAILLE TYPICAL

WALL-SIGNAGE (TYP)



DOOR MOUNTED SIGNAGE (TYP)

NOTE: PICTOGRAMS AND/OR LETTERING ARE NOT REQUIRED ON DOOR-MOUNTED SIGNAGE. ALL CIRCLES AND TRIANGLES ARE 1/4" THICK.



REFER TO ARCHITECTURAL SHT. A0.2 FOR SIGNAGE

IDENTIFICATION SYMBOLS FOR SANITARY FACILITIES

INTERNATIONAL SYMBOL OF ACCESS (WHEEL CHAIR SYMBOL) REQUIRED DOOR OR AT STRIKE SIDE ROOM IDENTIFICATION

TOILET ROOM SIGNAGE (BY DISTRICT) 3

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT 03 118460 AC FLS SS TB Date SEP 21 2017

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APP# 107786 AC SW FLS SS DATE 06-23-08

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES PC-04 104801 AC FLS SS DATE 9/18/07

REVISIONS			
1	JLC/BF	REVISED SCHEDULES & ELEVATIONS	3/30/04
2			
3			
4			
5			

Electrical Engineer's Seal

Mechanical Engineer's Seal

PC Professional of Record Seal — REGISTERED PROFESSIONAL ENGINEER JAMES T SIMPSON 24602 STRUCTURAL STATE OF CALIFORNIA — LICENSE EXPIRES 6-30-2004

Architects Seal

MODTECH INC.
2830 BARRETT AVENUE
PERRIS, CALIF. 92571
PH (909) 943-4014
FAX (909) 940-0427

PROJECT NUMBER: 5305

LARK ELLEN ELEMENTARY SCHOOL

COVINA VALLEY UNIFIED SCHOOL DISTRICT

© MODTECH, INC. 2002

DRAWN BY: JLC/BF
DATE: 3/30/04
CHECKED BY:
DATE:

MODTECH Index No.

SCHEDULES

A6.01

H:\PROJECTS\DSA-Jobs\5100-5199\5305\36x40

VENT KEY PLAN

FOUNDATION PLATE SCHEDULE

		50 PSF	50 + 20 PSF	100 PSF
END WALL	SILL	2"x6"	2"x6"	2"x12"
	BLOCKING	2"x4"	2"x4"	2"x8"
	TOP PLATE	2"x4"	2"x4"	2"x6"
SIDE WALL	SILL	2"x12"	2"x12"	2"x12"
	BLOCKING	2"x8"	2"x8"	2"x8"
	TOP PLATE	2"x6"	2"x6"	2"x6"
MODLINE PAD AT ENDWALL	SILL	(6)2"x12"x30"	(7)2"x12"x30"	(5)2"x12"x30"
	BLOCKING	2"x10"	2"x10"	2"x10"
	TOP PLATE	2"x8"	2"x8"	2"x8"
MODLINE PAD AT INTERIOR	SILL	(4)2"x12"x30"	(5)2"x12"x30"	(12)2"x12"x30"
	BLOCKING	2 x 10	2 x 10	2 x 10
	TOP PLATE	2 x 8	2 x 8	2 x 8
4" SEPARATION PAD AT END WALL	SILL	(6)2"x12"x30"	(7)2"x12"x30"	(6)2"x12"x30"
	BLOCKING	2"x12"	2"x12"	2"x12"
	TOP PLATE	2"x12"	2"x12"	2"x12"
4" SEPARATION PAD AT INTERIOR	SILL	(8)2"x12"x30"	(8)2"x12"x30"	(14)2"x12"x30"
	BLOCKING	2"x12"	2"x12"	2"x12"
	TOP PLATE	2"x12"	2"x12"	2"x12"

NOTE: • USE 2"x4" PLATES FOR ANY ADDITIONAL BLOCKING REQUIRED FOR LEVELING.
• ALL SILL (FOOTING) PLATES TO BE PRESSURE TREATED SEE NOTE #3 THIS SHEET.
• FOR FOUNDATION PLATE NAILING SEE F1.21

DIMENSION SCHEDULE

	50 PSF	50 + 20 PSF	100 PSF	125 PSF
A	7'-7 1/2"	9'-1 1/2"	9'-1 1/2"	SEE F1.11
B	6'-6"	4'-0"	4'-0"	
C	12'-0"	14'-0"	14'-0"	
D	8'-1"	7'-1/4"	5'-7 1/2"	
E	5'-6"	4'-4"	3'-6"	
F	3'-6"	4'-8 1/4"	9'-3"	
G	8'-7"	8'-2"	3'-8"	
H	6'-1"	6'-1"	5'-6 1/4"	
J	4'-9"	3'-10"	2'-6"	
K	5'-7 1/2"	7'-6"	10'-9 1/2"	
L	7'-4"	5'-5"	2'-7 1/2"	

VENTING SCHEDULE

BUILDING	(SF) AREA	(SF) VENTING REQUIRED	SIDE WALL VENTING	SIDE WALL VENT AREA	END WALL VENTING	END WALL VENT AREA	TOTAL VENT SUPPLIED
~~24'x40'~~ ~~(50 PSF)~~	~~960~~	~~6.4~~	~~(4) A~~	~~6.52~~			~~6.52~~
~~36'x40'~~ ~~(50 PSF)~~	~~1440~~	~~9.6~~	~~(4) A~~	~~6.52~~	~~3.50~~	~~(7) B~~	~~10.2~~
~~48'x40'~~ ~~(50 PSF)~~	~~1920~~	~~12.8~~	~~(4) A~~	~~6.52~~	~~6.02~~	~~(12) C~~	~~13.04~~
~~24'x40'~~ ~~(50+20) (100 PSF)~~	~~960~~	~~6.4~~	~~(4) B~~	~~4.00~~	~~2.50~~	~~(5) C~~	~~6.50~~
36'x40' (50+20) ~~(100 PSF)~~	1440	9.6	(4) B	4.00	6.00	(12) C	10.0
~~48'x40'~~ ~~(50+20) (100 PSF)~~	~~1920~~	~~12.8~~	~~(4) B~~	~~4.00~~	~~9.00~~	~~(18) C~~	~~13.0~~

LEGEND

VENT	SIZE	AREA (SF)	CRATE SIZE
A	3"x6'-0"	1.63	3"X78"
B	3"X4'-0"	1.00	3"X48"
C	3"X2'-0"	0.50	3"X24"

TIE PLATE SCHEDULE

BUILDING		END WALL	SIDE WALL	TOTAL
~~24'x40'~~	~~70 MPH~~	~~4 EA.~~	~~3 EA.~~	~~14~~
	~~80 MPH~~	~~5 EA.~~	~~3 EA.~~	~~16~~
36'x40'	70 MPH	4 EA.	4 EA.	16
	~~80 MPH~~	~~5 EA.~~	~~5 EA.~~	~~20~~
~~48'x48'~~	~~70 MPH~~	~~6 EA.~~	~~6 EA.~~	~~24~~
	~~80 MPH~~	~~6 EA.~~	~~6 EA.~~	~~24~~

KEY NOTES

1. FOUNDATION AT END WALL – SEE FOUNDATION PLATE SCHEDULE
2. FOUNDATION AT SIDE WALL – SEE FOUNDATION PLATE SCHEDULE
3. FOUNDATION MODLINE PAD AT END WALL –SEE FOUNDATION PLATE SCHEDULE.
4. FOUNDATION MODLINE PAD AT INTERIOR – SEE FOUNDATION PLATE SCHEDULE.
5. FOUNDATION PAD AT 4" SEPARATION AT END WALL
6. FOUNDATION PAD AT 4" SEPARATION AT INTERIOR WALL
7. SILL RESTRAINT – SEE NOTE 1
8. TIE PLATE SEE SCHEDULE BELOW AND 5,6/F1.21
9. 5/8" DIAx4" LAGS
10. FOUNDATION VENT
11. FOR VENTS THAT OCCUR UNDER LANDINGS PROVIDE EQUAL AREA SCREENED VENT IN LANDING SKIRT
12. 2" CUTOUT OF SILL PLATE FOR DRAINAGE. FIELD TO LOCATE AT LOWEST CORNER OF FOUNDATION
13. 3"X24" END WALL VENTS AS REQUIRED FOR ADJACENT BUILDING APPLICATIONS

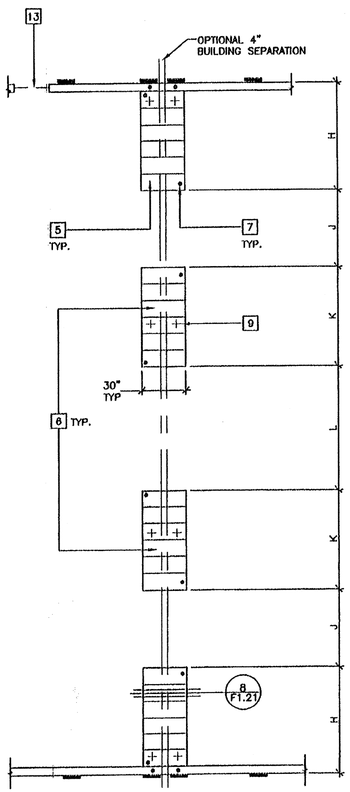
MIN. 18" FROM BUILDING CORNERS
MIN. 18" FROM MODLINES
MIN. 12" BLOCKING BETWEEN VENTS

NOTES

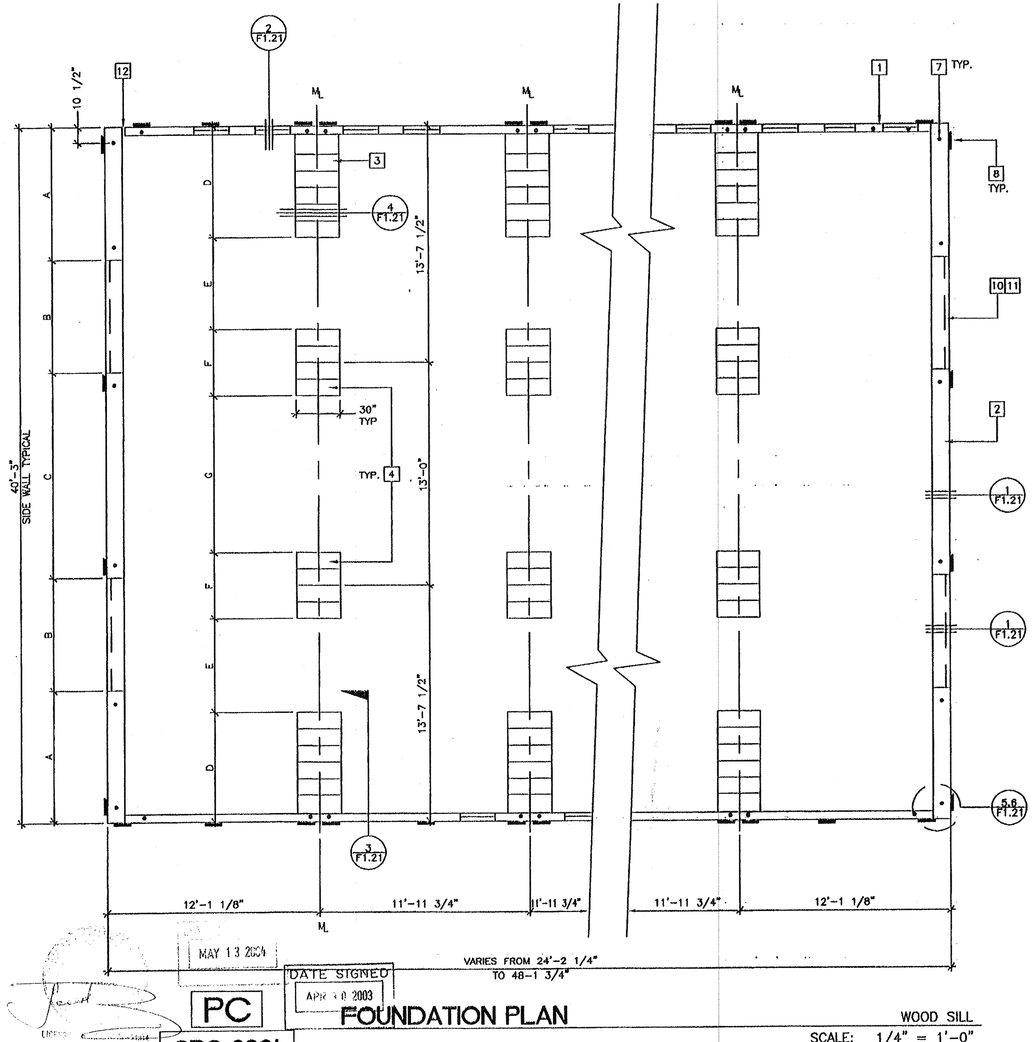
1. SILL RESTRAINT: THE FOUNDATION SHALL BE DESIGNED TO PREVENT SLIDING ON THE SUPPORTING SURFACE (ASPHALT CONCRETE PAVING OR ON SOIL OR ON PRE-DRILLED CONCRETE SLAB ON GRADE) BY ATTACHING THE WOOD FOUNDATION PLATES FOR THE BUILDING, RAMPS AND STAIRS TO THE GROUND WITH RESTRAINING DEVICES. USE A ONE-INCH DIAMETER STANDARD WEIGHT (1.315" ACTUAL O.D.) HOT DIPPED GALVANIZED PIPE OR ONE-INCH DIAMETER SOLID STEEL ROD SPACED AT NOT MORE THAN 10'-0". ONE PIPE/ROD SHALL BE LOCATED A MAXIMUM OF TWO FEET FROM EACH CORNER IN BOTH DIRECTIONS AND A MINIMUM OF TWO PIPES/RODS PER DISCONTINUOUS FOUNDATION STRIP. PIPES TO PENETRATE INTO SOIL AND/OR PAVING A MINIMUM OF 12" MEASURED VERTICALLY. 18-1/2" LONG PIPE REQUIRED FOR PENETRATION AT A 45 DEGREE ANGLE. ALTERNATE OR EQUIVALENT DESIGNS, WHEN PROVIDED WITH STRUCTURAL CALCULATIONS AND DETAILS, WILL BE CONSIDERED.

   ALTERNATE:
   ON CONCRETE PAVING HILTI DS 82-P10 THRU SILL PLATE, 8" OC AT END WALLS AND 16" OC SIDE WALLS.

2. TO PREVENT WATER FROM PONDING BENEATH THE STRUCTURE VERIFY DRAINAGE WITH DISTRICT ARCHITECT SITE PLANS
3. A WOOD SILL (FOOTING) PLATE SHALL BE PRESSURE TREATED HEM FIR OR DOUG FIR AND MAY BEAR DIRECTLY ON SOIL OR PAVED SURFACE. GRASS OR TURF SHALL BE CLEARED TO BARE SOIL UNDER THE ENTIRE AREA OF THE BUILDING (BY DISTRICT). THE WOOD SILL (FOOTING) PLATE MAY SUPPORT WOOD CRIPPLE STUDS, POSTS OR CONTINUOUS BLOCKING AND SHEATHING (SKIRT) WHICH NEED NOT BE TREATED. FOUNDATION LUMBER TO BE PRECUT AT FACTORY, LUMBER AND PRESSURE TREATING TO BE VERIFIED BY THE IN-PLANT INSPECTOR.
4. FOUNDATION DESIGNED FOR 1000 PSF SOIL BEARING PRESSURE PER ORS IR 16-1.
5. THIS FOUNDATION PLAN HAS 1/4" ADDED AT EACH MODLINE AND AND 1/8" AT EACH SIDE WALL AND DOES NOT MATCH THE FLOOR PLAN, THIS IS REQUIRED FOR GROWTH THAT IS EXPERIENCED WHEI SETTING MULTIPLE MODULE BUILDINGS.
6. BUILDINGS 2160 SQFT. MUST BE INSTALLED ON A PERMANENT CONCRETE FOUNDATION.
7. NOTE: FOR CONCRETE FLOORS ON A WOOD FOUNDATION:
   -FOR A 50 PSF FLOOR LOAD WITH A CONCRETE FLOOR USE 50+20 PSF FOUNDATION DESIGN
   -FOR A 50+20 PSF FLOOR LOAD WITH A CONCRETE FLOOR USE 100 PSF FOUNDATION DESIGN
   -FOR A 100 PSF FLOOR LOAD WITH A CONCRETE FLOOR USE 125 PSF FOUNDATION DESIGN



FOOTINGS AT ADJACENT BUILDING
(OPTIONAL 4" SEPARATION)



FOUNDATION PLAN

WOOD SILL

SCALE: 1/4" = 1'-0"

MAY 13 2004

DATE SIGNED APR 20 2003

PC

CBC 2001

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT 03n 118460 AC FLS SS DB Date SEP 27 2017

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APPR. 107738 AC EP DATE 08-03-04

REVISIONS

1			
2			
3			
4			
5			

Electrical Engineer's Seal

Mechanical Engineer's Seal

PC Professional of Record Seal — REGISTERED PROFESSIONAL ENGINEER JAMES T. SIMPSON No. 16602 STRUCTURAL STATE OF CALIFORNIA — LICENSE EXPIRES 6-30-2004

Architects Seal

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES PC-04 104801 AC FLS SS DATE 3/7/03

MODTECH™ INC.
2830 BARRETT AVENUE PERRIS, CALIF. 92571
PH (909) 943-4014 FAX (909) 940-0427

PROJECT NUMBER: 5305

LARK ELLEN ELEMENTARY SCHOOL

COVINA VALLEY UNIFIED SCHOOL DISTRICT

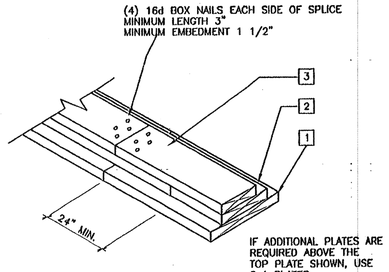
© MODTECH, INC. 2002

DRAWN BY: JLC/BF
DATE: 3/30/04
CHECKED BY:
DATE:

MODTECH Index No.

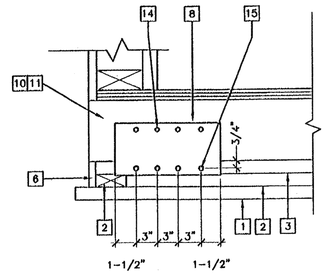
F1.01

FOUNDATION PLAN WOOD/50, 50+20, 100 PSF



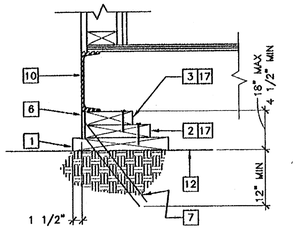
SCALE: NTS

FOUNDATION SPLICE 9



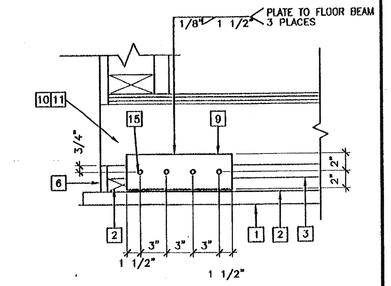
SCALE: 1 1/2"=1'-0" LAG BOLT TO FLOOR BEAM

TIE PLATE 5



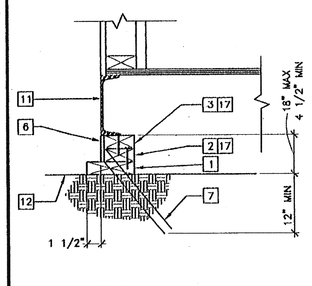
SCALE: 1 1/2"=1'-0" NOTE: WHERE ADDITIONAL BLOCKING IS REQUIRED SEE DETAIL 7

FOUNDATION AT SIDE WALL 1



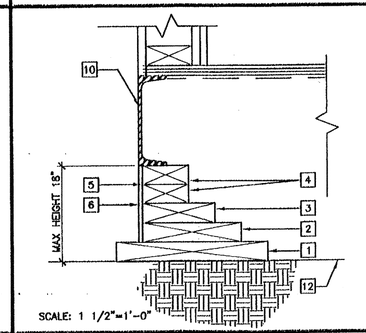
SCALE: 1 1/2"=1'-0" WELDED TO FLOOR BEAM

TIE PLATE (ALTERNATE) 6



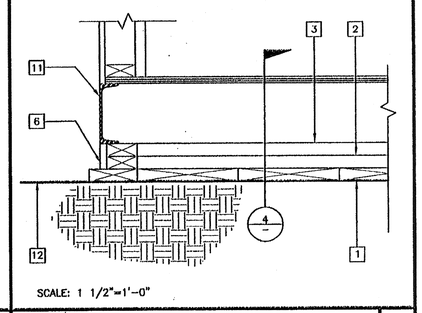
SCALE: 1 1/2"=1'-0"

FOUNDATION AT END WALL 2



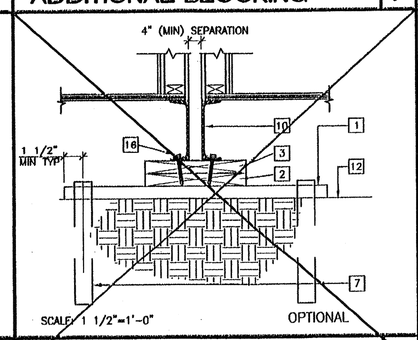
SCALE: 1 1/2"=1'-0"

ADDITIONAL BLOCKING 7



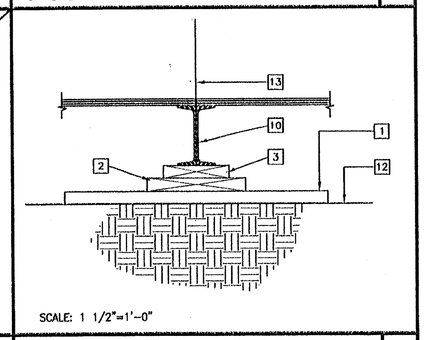
SCALE: 1 1/2"=1'-0"

FOUNDATION AT MODLINE 3



SCALE: 1 1/2"=1'-0" OPTIONAL

FOUNDATION AT ADJACENT BUILDING 8



SCALE: 1 1/2"=1'-0"

FOUNDATION AT MODLINE 4

KEY NOTES

1. SILL PLATE (SEE FOUNDATION PLATE SCHEDULE SHEET F1.01)
2. BLOCKING PLATE (SEE FOUNDATION PLATE SCHEDULE) ATTACH TO SILL OR BLOCKING WITH 16d NAILS AT 9" OC (MAX. 6" O.C. AT 80 MPH OPTION)
3. TOP PLATE (SEE FOUNDATION PLATE SCHEDULE) ATTACH TO BLOCKING WITH 1-16d BOX NAIL AT 9" OC (MAX. 6" O.C. AT 80 MPH OPTION)
4. ADDITIONAL 2"x4" BLOCKING AS NECESSARY FOR LEVELING
5. LOCATION OF SHIM PLATES WHERE REQUIRED FOR LEVELING USE 1/4", 1/2" OR 3/4" PLYWOOD AT SAME WIDTH AS TOP PLATE
6. SKIRTING - 3/8" PLYWOOD, ATTACH WITH 8d NAILS, EDGE NAILING 4" OC AT END WALLS AND 6" OC AT SIDE WALLS, FIELD NAILING 12" OC
7. SILL RESTRAINT - SEE NOTE #1 SHEET F1.01
8. TIE PLATE 6"x12"x10 GA
9. TIE PLATE 4"x12"x10 GA
10. FLOOR BEAM (STR)
11. FLOOR HEADER (STR)
12. FINISH GRADE
13. MODLINE (ML)
14. 1/4"øx2" STS TYPICAL 4 PLACES
15. 1/4"øx3" LONG LAG SCREW TYPICAL 4 PLACES
16. 5/8"øx4" LAGS (FOR LOCATION SEE PLAN)
17. REMOVE AT VENT LOCATIONS

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP03- 107736
AC FLS SS EO
DATE 06-03-04

IDENTIFICATION STAMP
DIV OF THE STATE ARCHITECT
03 118460
AC FLS SS TP
Date SEP 27 2017

NOTE:
ALL NAILS TO BE HOT DIPPED GALVANIZED

MAY 13 2020
DATE SIGNED
APR 30 2003

PC
CBC 2001

REVISIONS		
1		
2		
3		
4		
5		
6		

Electrical Engineer's Seal

Mechanical Engineer's Seal

PC Professional of Record Seal
REGISTERED PROFESSIONAL ENGINEER
JAMES T. STAMPON
No. 35602
STRUCTURAL
STATE OF CALIFORNIA
LICENSE EXPIRES 6-30-2004

Architects Seal

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
PC-04
104801
AC FLS SS
DATE 5/7/04

MODTECH™ INC.
2830 BARRETT AVENUE
PERRIS, CALIF. 92571
PH (909) 943-4014
FAX (909) 940-0427

PROJECT NUMBER: 5305

© MODTECH, INC. 2002

LARK ELLEN ELEMENTARY SCHOOL

COVINA VALLEY UNIFIED SCHOOL DISTRICT

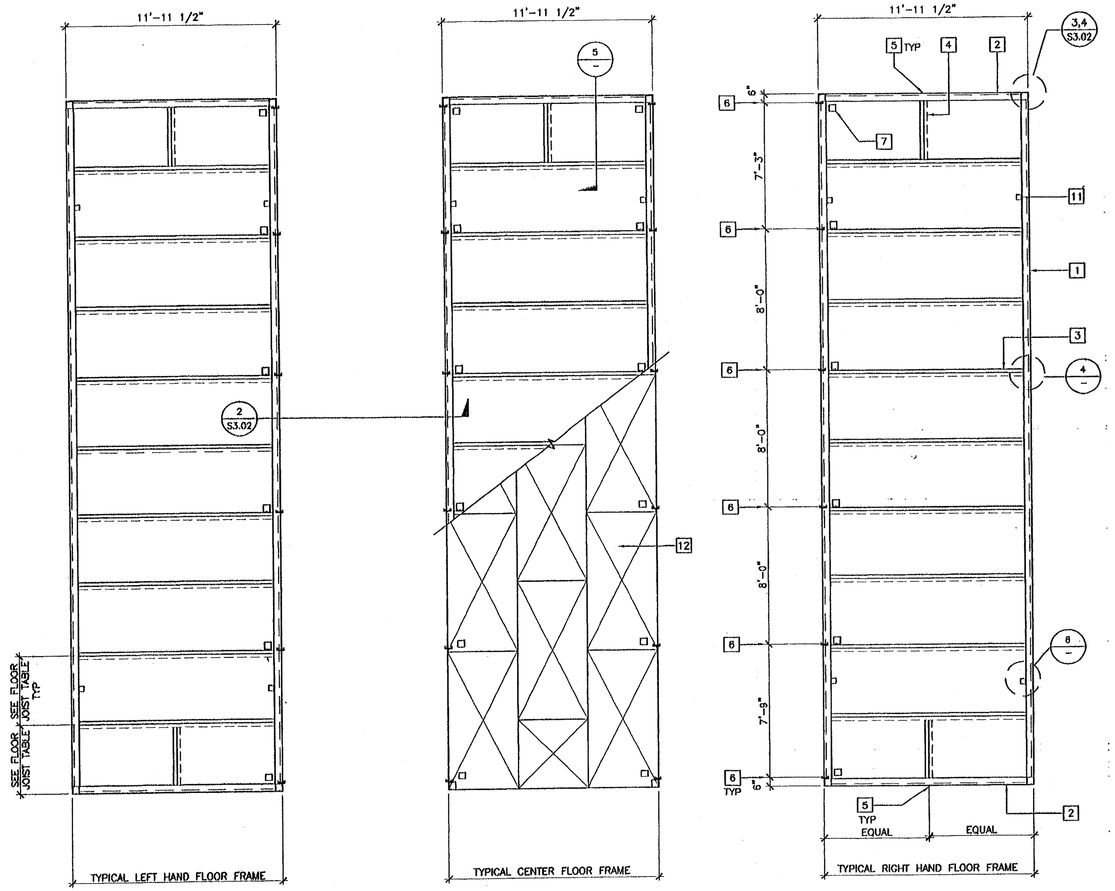
FOUNDATION PLAN

WOOD/50, 50+20, 100 PSF

DRAWN BY: JLC/BF
DATE: 3/30/04
CHECKED BY:
DATE:

MODTECH Index No.
F1.21

REAR



FRONT

SEE FLOOR JOIST TABLE FOR APPROPRIATE SPACING

FLOOR FRAMING PLAN

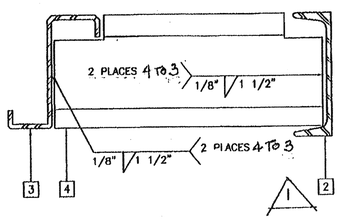
SCALE: 1/4" = 1'-0"

DATE SIGNED APR 16 2003

MAY 13 2004

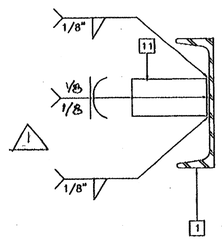
PC

CBC 2001



SCALE: NTS

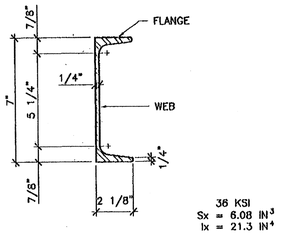
FLOOR HEADER BLOCKING 5



SCALE: NTS

SHIPPING HOLD DOWN 6

7

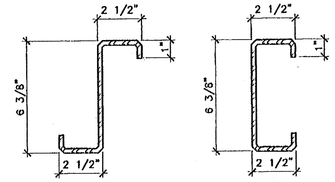


36 KSI
S_x = 6.08 IN^3
I_x = 21.3 IN^4

C7x9.8 - ASTM A36

SCALE: 3"=1'-0"

FLOOR BEAM/HEADER 1



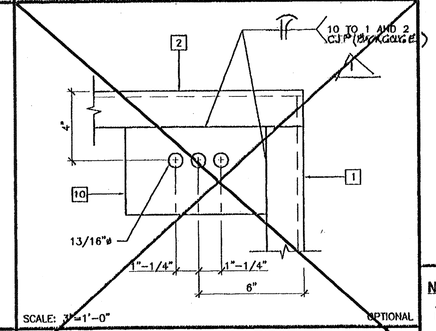
STANDARD JOIST
t = 0.105
12 GAUGE
S_x = 2.613 IN^3
I_x = 8.328 IN^4

ALTERNATE JOIST
t = 0.105
12 GAUGE
S_x = 2.525 IN^3
I_x = 8.049 IN^4

ASTM A-570 GRADE 33

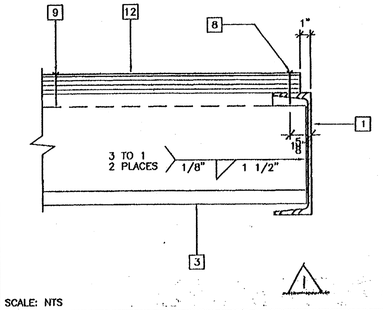
SCALE: 3"=1'-0"

FLOOR JOIST 2



SCALE: 3"=1'-0"

8 ANCHOR PLATE CONCRETE FOUNDATION 9 OPTIONAL



SCALE: NTS

FLOOR JOIST TO FLOOR BEAM 4

KEY NOTES

1. [FLOOR BEAM, COPE TO MATE WITH HEADER – 1/S1.01
2. [FLOOR HEADER – 1/S1.01
3. ⊓ FLOOR JOIST – 2/S1.01
4. ⊓ BLOCKING AT MIDSPAN OF FLOOR HEADER – 2/S1.01
5. 11/16"ø HOLE AT MIDDEPTH FOR HANDLING
6. 11/16"ø MODLINE BOLT HOLE – ~~2/S3.01~~ S3.02/2
7. 5" SQUARE HAND HOLES AT EACH MODLINE BOLT LOCATION
8. EDGE NAILING AT FLOOR BEAM OR HEADER – #10 x 1 3/4" SELF TAPPING FLAT HEAD SCREWS AT 6" OC
9. EDGE NAILING OR FIELD NAILING – AEROSMITH BZH .144 SHOT PINS (ICBO NO. ER-5667) AT 6" OC, FIELD NAILING TO BE 10" OC FOR PURLIN SPACING OF 32" OR LESS
10. 5" x 8" x 1/4" STEEL ANCHOR PLATE FOR OPTIONAL CONCRETE FOUNDATION ONLY
11. 3 1/2" x 3 1/2" x 1/4" TUBE STEEL CUT TO 1 3/4" LENGTH – SHIPPING HOLD DOWN
12. PLYWOOD FLOOR SHEATHING: APA PS 1-95, 1 1/8" THICK STURD-I-FLOOR WITH 48" OC SPAN RATING – LAYOUT PATTERN SHOWN IS TYPICAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP'D: 107736
AC. ___ FLS. ___ SS. 60
DATE 06-03-04

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
03 118460
AC. ___ FLS. ___ SS. TB
Date SEP 27 2017

NOTE:
ALL COLD-FORMED SECTION PROPERTIES SHOWN ARE GROSS PROPERTIES

FLOOR JOIST TABLE

LIVE LOAD	STANDARD JOIST SPACING	UPGRADE TO STIFFEN FLOOR OPTIONAL JOIST SPACING		
~~50 PSF~~	~~18"~~	~~32"~~	~~24"~~	~~16"~~
50 + 20 PSF	~~32"~~	~~24"~~	16"	~~12"~~
~~100 PSF~~	~~24"~~	~~16"~~	~~12"~~	N/A
~~125 PSF~~	~~18"~~	~~12"~~	N/A	N/A

REVISIONS			
1	FYH	REVISE WELDS	1/29/03
2	BF	CORRECTED DETAIL REFERENCE	04/26/04
3			
4			
5			

Electrical Engineer's Seal

Mechanical Engineer's Seal

PC Professional of Record Seal

LICENSE EXPIRES 6-30-2004

Architects Seal

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
PC-04
104801
AC. ___ FLS. ___ SS. JVL
DATE 4/2/03
Revised 7/21/03 JVL

MODTECH™ INC.
2830 BARRETT AVENUE
PERRIS, CALIF. 92571
PH (909) 943-4014
FAX (909) 940-0427

PROJECT NUMBER: 5305

LARK ELLEN ELEMENTARY SCHOOL

COVINA VALLEY UNIFIED SCHOOL DISTRICT

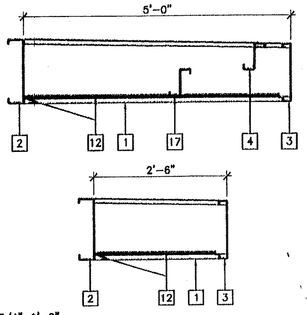
© MODTECH, INC. 2002

FLOOR FRAMING PLAN WOOD FLOOR

DRAWN BY: JLC/BF
DATE: 3/30/04
CHECKED BY:
DATE:

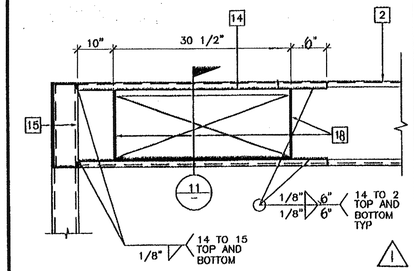
MODTECH Index No.

S1.01



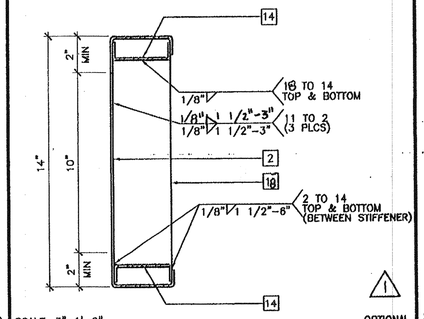
SCALE: 3/4"=1'-0"

OVERHANGS | 13



SCALE: 1"=1'-0"

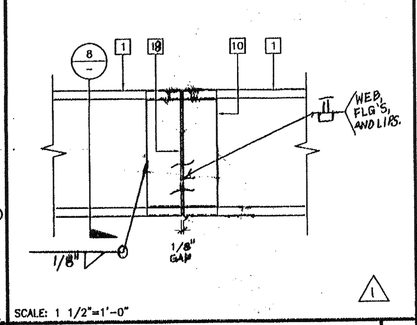
HVAC OPENING IN ROOF HEADER | 12



OPTIONAL (SEE S3.02)

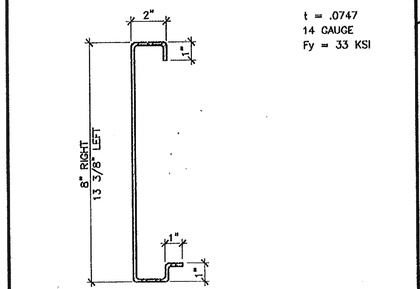
SCALE: 3"=1'-0"

HVAC OPENING IN ROOF HEADER | 11



SCALE: 1 1/2"=1'-0"

BEAM SPLICE | 7



t = .0747
14 GAUGE
Fy = 33 KSI

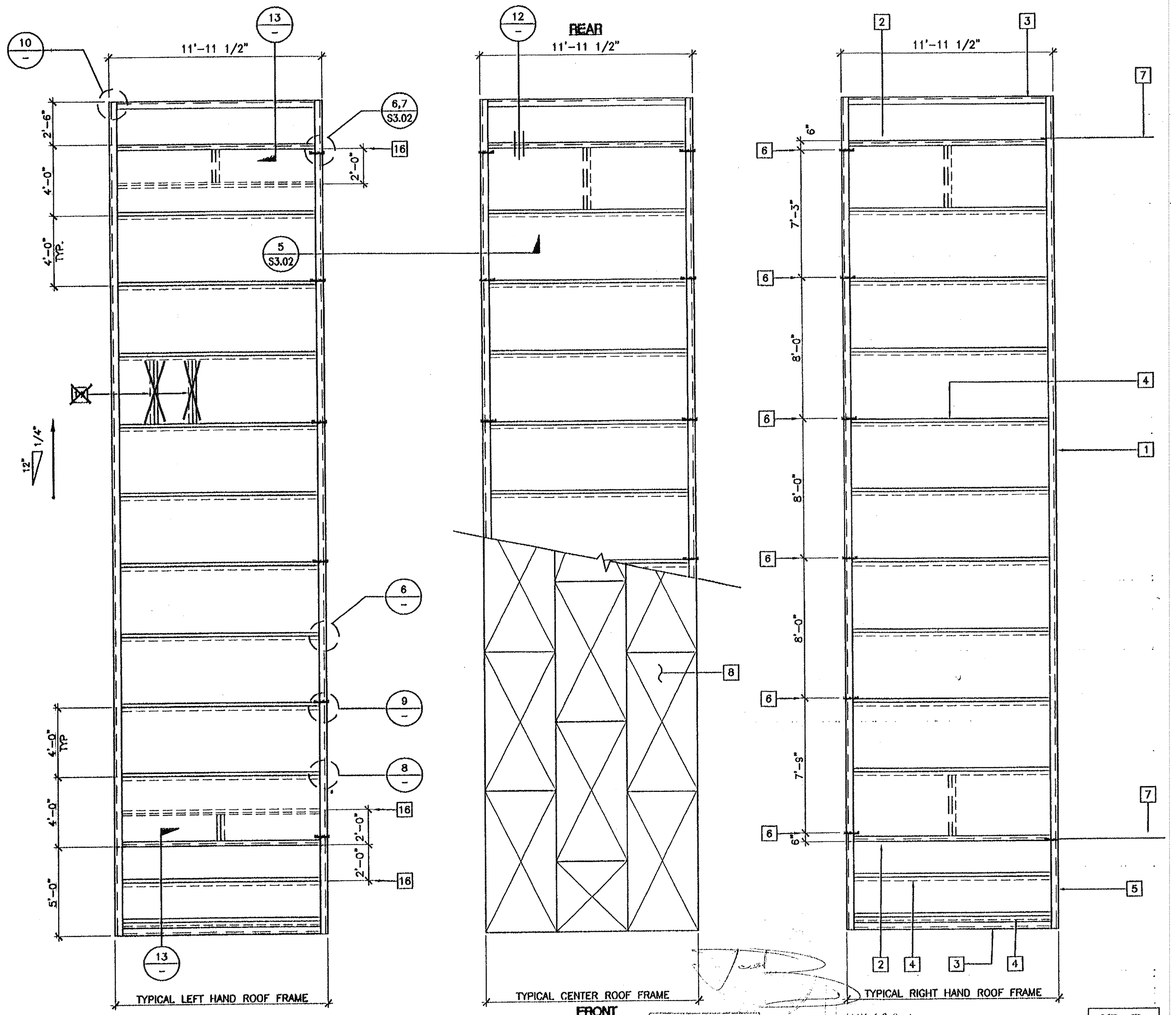
SCALE: 3"=1'-0"

ROOF FASCIA | 3

KEY NOTES

1. ⊏ TAPERED ROOF BEAM – 1/S2.02
2. ⊏ ROOF HEADER – 2/S2.02
3. ⊏ ROOF FASCIA – 3/S2.02
4. ⌠ ROOF PURLIN – 4/S2.02 (NOTE: DOUBLE ALL ROOF PURLINS WHERE MOVABLE PARTITION OCCURS. SEE A7.01)
5. ROOF OVERHANG BEAM – 10/S3.02
6. 11/16" DIA DRILLED HOLE – 5/S3.02
7. EDGE NAIL THIS LINE
8. PLYWOOD ROOF SHEATHING, 3/4" CD EXPOSURE 1, P.1.1 48/24, PSI-95 PLYCLIPS AT 16" OC MAX ON LONG EDGES #10 x 1 1/4" SELF TAPPING FLAT HEAD SCREWS AT 8" OC TO PERIMETER FRAME.
   ALTERNATE: USE AEROSMITH BZH .144 SHOT PINS (ICBO NO. ER -5687) AT 6" OC TO PERIMETER FRAME, AEROSMITH BZH .144 SHOT PINS AT 6" OC AT SUPPORTED EDGES AND 6" OC FIELD NAILING TO PURLINS.
   PLYWOOD PATTERN SHOWN IS TYPICAL.
9. OPTIONAL BEAM SPLICE LOCATIONS
10. 10 GA BENT PLATE BACK UP
11. 1/4" FULL DEPTH STIFFENER PLATE AT 4'-0" OC OUTSIDE MAIN 8'-0" O.C. MODULES. ALIGN W/ PURLIN.
12. 1/2"x1/2" 16 GA ANGLE, TACK WELD TO HEADER AND ROOF BEAM
13. USE 6" x 2 1/2" 14 GA BLOCKING AT HEADER MIDSPAN FOR 80 MPH DESIGN WIND LOAD ONLY
14. 3 1/4" x 1" 10 GA CHANNEL STIFFENER
15. TUBE STEEL STIFFENER
16. LOCATION OF ADDITIONAL PURLIN FOR BUILDINGS THAT EXCEED 2160 SQUARE FEET
17. ~~USE 6" x 2 1/2" 14 GA BLOCKING FOR ROOF OPENING OF OPTIONAL ROOF MOUNT HVAC. SPACING AND LOCATION WILL VARY (HV)~~
10. 1/4" STIFFENER PLATE.

NOTE:
ALL COLD-FORMED SECTION PROPERTIES SHOWN ARE GROSS PROPERTIES

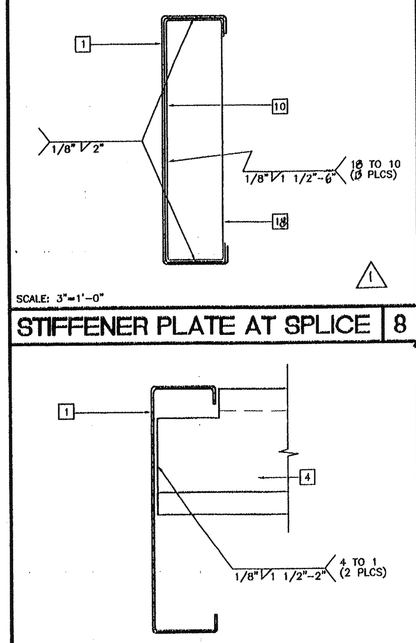


ROOF FRAMING PLAN

DATE SIGNED
APR 16 2004/MONO PITCH/8 & 12 LIGHTS
SCALE: 1/4" = 1'-0"

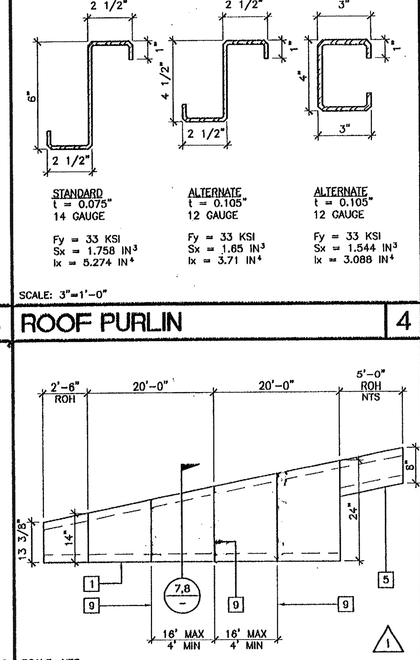
PC

CBC 2001



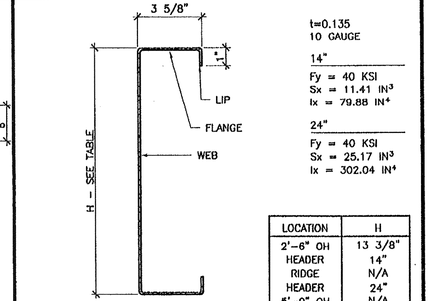
SCALE: 3"=1'-0"

STIFFENER PLATE AT SPLICE | 8



SCALE: NTS

ROOF PURLIN | 4



t=0.135
10 GAUGE

14"
Fy = 40 KSI
Sx = 11.41 IN³
Ix = 79.88 IN⁴

24"
Fy = 40 KSI
Sx = 25.17 IN³
Ix = 302.04 IN⁴

LOCATION	H
2'-6" OH	13 3/8"
HEADER	14"
RIDGE	N/A
HEADER	24"
5'-0" OH	N/A

SCALE: 3"=1'-0"

TAPERED ROOF BEAM | 1

SCALE: 3"=1'-0"

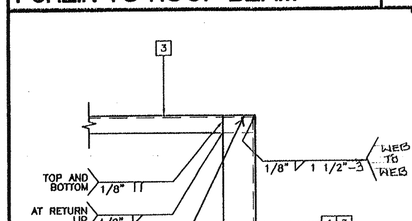
SEE A/S3.02

PURLIN TO ROOF BEAM | 9

SCALE: 3"=1'-0"

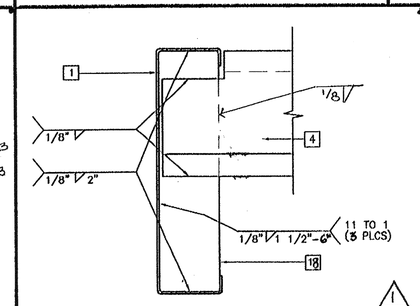
SEE A/S3.02

TAPERED ROOF BEAM SPLICE | 5



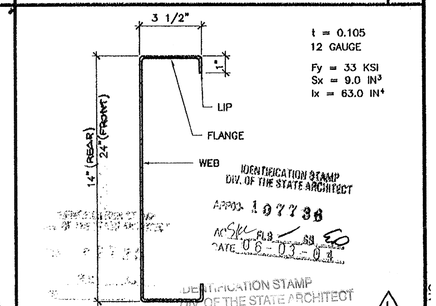
SCALE: 1 1/2"=1'-0"

FASCIA TO BEAM/FASCIA | 10



SCALE: 3"=1'-0"

PURLIN/STIFFENER TO ROOF BEAM | 6



t = 0.105
12 GAUGE

Fy = 33 KSI
Sx = 9.0 IN³
Ix = 63.0 IN⁴

SCALE: 3"=1'-0"

ROOF HEADER | 2

REVISIONS			
1	FIL CORRECT WELDS	7/1/03	
2			
3			
4			
5			

Electrical Engineer's Seal

Mechanical Engineer's Seal

PC Professional of Record Seal
REGISTERED PROFESSIONAL ENGINEER
JAMES T. SIMPSON
No. 41001
STRUCTURAL
STATE OF CALIFORNIA
LICENSE EXPIRES 6-30-2004

Architects Seal

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
PC-04
104801
AC. FLS. SS.
DATE 5/21/03
PVL Revised 7/11/03

MODTECH™ INC.
2830 BARRETT AVENUE
PERRIS, CALIF. 92571
PH (909) 943-4014
FAX (909) 940-0427

PROJECT NUMBER: 5305

COVINA ELEMENTARY SCHOOL

COVINA VALLEY UNIFIED SCHOOL DISTRICT

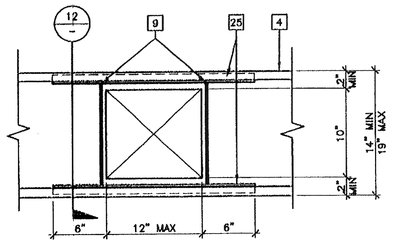
© MODTECH, INC. 2002

DRAWN BY: SJ/BF
DATE: 3-30-04
CHECKED BY:
DATE: 7/1/03

MODTECH Index No.

ROOF FRAMING PLAN (8 & 12 LIGHTS) 26 GA MONO PITCH

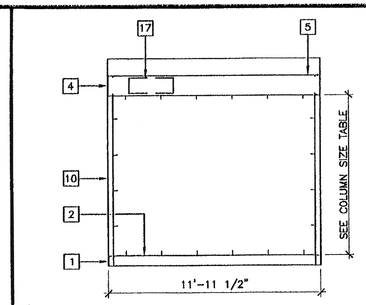
S2.02



NOTE: BEAM PENETRATIONS ALLOWED ONLY IN CENTER THIRD OF BEAM AT 18" MIN EDGE OF HOLE TO EDGE OF HOLE

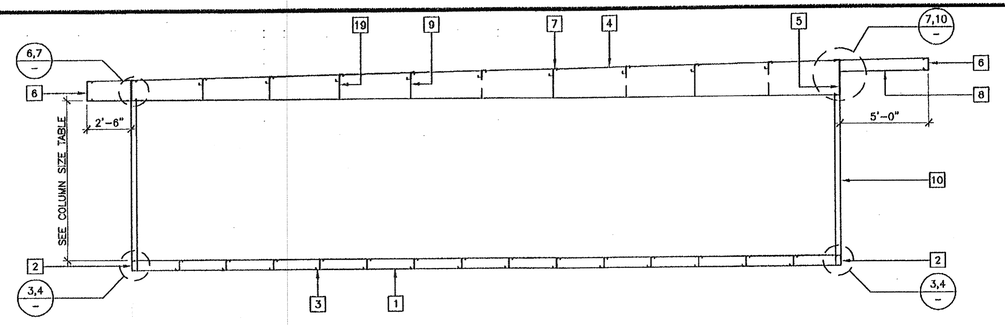
SCALE: 1 1/2"=1'-0"

OPTIONAL BEAM PENETRATION | 11



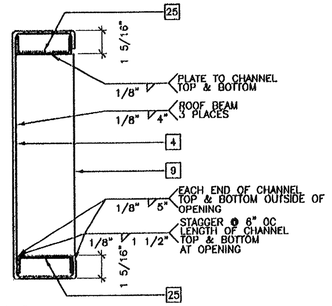
SCALE: 1/4"=1'-0"

SECTION AT END WALL | B



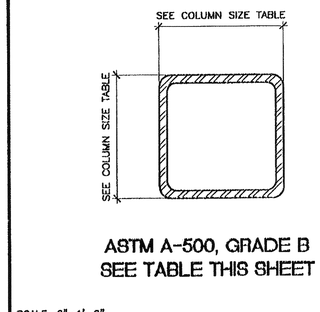
SCALE: 1/4"=1'-0"

SECTION AT SIDE WALL | A



SCALE: 3"=1'-0"

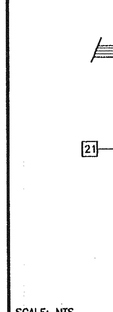
PENETRATION REINFORCMENT | 12



ASTM A-500, GRADE B
SEE TABLE THIS SHEET

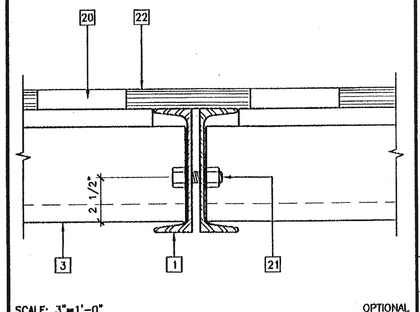
SCALE: 6"=1'-0"

TUBE STEEL COLUMN/STIFFENER | 8



SCALE: NTS

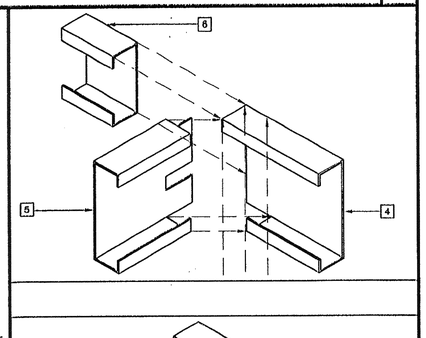
MODULE CONNECTION AT ROOF | 5

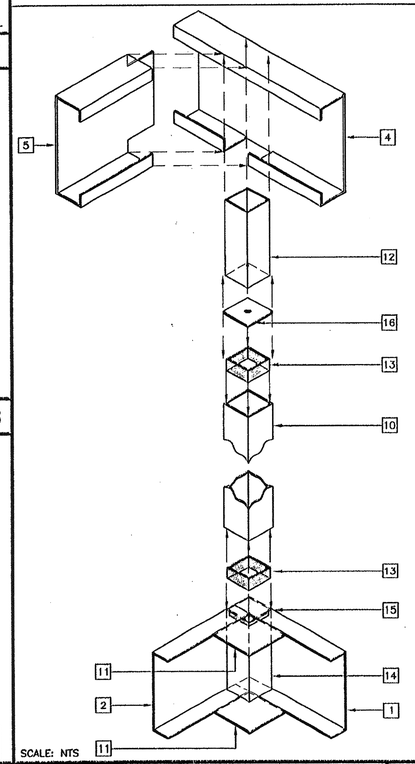


SCALE: 3"=1'-0"

OPTIONAL

MODULE CONNECTION AT FLOOR | 2





KEY NOTES

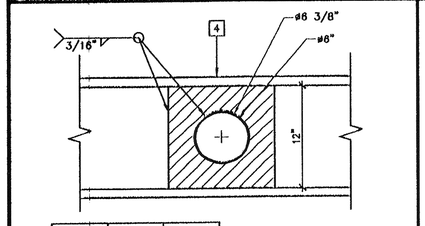
1. C FLOOR BEAM – 1/S1.01
2. C FLOOR HEADER – 1/S1.01
3. ⌐ FLOOR JOIST – 2/S1.01
4. C TAPERED ROOF BEAM – 1/S2.02
5. C ROOF HEADER – 2/S2.02
6. C ROOF FASCIA – 3/S2.02
7. ⌐ ROOF PURLIN – 4/S2.02
8. C 8" x 3-1/2" x 14GA ROOF OVERHANG BEAM
9. 1/4" FULL DEPTH STIFFENER PLATE AT 8'-0" OC TYPICAL ALIGN WITH PURLIN – 6/S2.02
10. 3 1/2" x 3 1/2" x " TUBE STEEL COLUMN (SEE COLUMN BELOW)
11. 3 1/2" x 3 1/2" x 1/4" STEEL STIFFENER PLATE. ~~WHEN CONCRETE FOUNDATIONS ARE USED REPLACE LOWER PLATE WITH 8" x 8" x 1/4" ANCHOR BOLT PLATE – 3/S1.01~~
12. 3 1/2" x 3 1/2" x 1/4" TUBE STEEL STIFFENER
13. (1) 3" x 3" 10 GA TUBE STEEL BACK UP TUBE OR (4) 10 GA BACK UP PLATES
14. 3 1/2" x 3 1/2" x 1/4" ANGLE STIFFENER
15. BACK-UP PLATE – 10 GA MIN
16. 1/4" BASE PLATE – INSERT FLUSH WITH STIFFENER TUBE
17. OPTIONAL HVAC DUCT OPENING – 12/S2.02
18. NOT USED
19. 1/4" FULL DEPTH STIFFENER PLATE AT 4'-0" OC AT SIDEWALLS ALIGN WITH PURLINS FOR 80 MPH DESIGN WIND LOAD ONLY
20. HAND HOLE AT BOLT LOCATION
21. 5/8" MB A307 AT MODULE CONNECTION JOINT – SEE FLOOR/ROOF FRAMING PLANS
22. FLOOR SHEATHING
23. MODLINE (M)
24. NOT USED
25. 3 1/4" x 1" 10 GA CHANNEL STIFFENER
26. 10 GA PLATE (REFER TO DETAIL CHART FOR DIMENSIONS –14/S3.01)
27. 3 1/2" x 4 1/2" x 1/4" PLATE UNDER BEAM FLANGE

NOTES

1. 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 MINUS 20 DEGREES F AS DETERMINED BY AWS CLASSIFICATION OR MANUFACTURER CERTIFICATION. (ALL MEMBERS EXCEPT LIGHT GUAGE).

COLUMN SIZE TABLE

DESIGN WIND LOAD	COLUMN HEIGHT	
	9'-0"	10'-6"
~~70 MPH~~	~~3 1/2"x3 1/2"x1/4"~~	~~4"x4"x3/8"~~
~~80 MPH~~	~~3 1/2"x3 1/2"x5/16"~~	~~4"x4"x3/8"~~
~~80 MPH WITH 4'-0" PARAPETS~~	~~4"x4"x3/8"~~	~~5"x5"x3/8"~~

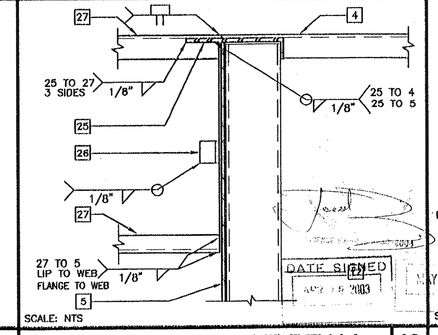


WEB OPENING	PLATE SIZE	PLATE OPENING
ø6"	12"x12"	ø6 3/8"
ø8"	12"x12"	ø8 3/8"
ø10"	12"x12"	ø10 3/8"

NOTE: 18" MIN SPACING EDGE OF HOLE TO EDGE OF HOLE.

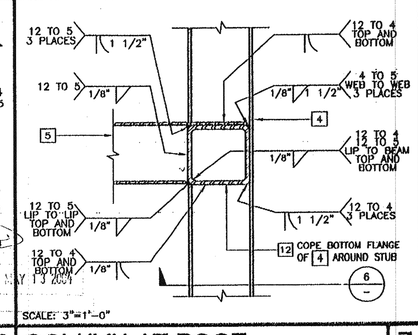
SCALE: 1 1/2"=1'-0"

ATTIC RELIEF VENT IN HEADER | 13



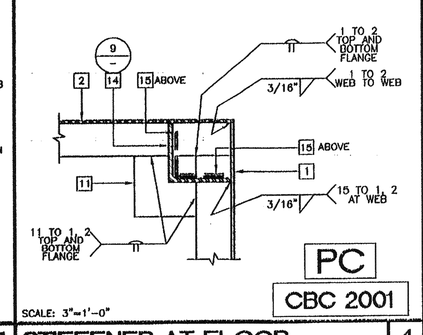
SCALE: NTS

STIFFENER ANGLE | 9



SCALE: 3"=1'-0"

COLUMN AT ROOF | 6

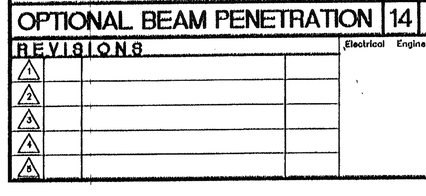


SCALE: 3"=1'-0"

COLUMN AT FLOOR | 3

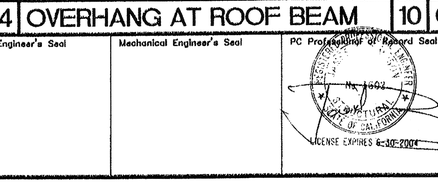
SCALE: NTS

COLUMN AT FLOOR AND ROOF | 1



SCALE: 1 1/2"=1'-0"

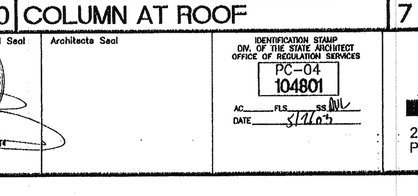
OPTIONAL BEAM PENETRATION | 14



ASTM A-36

SCALE: 6"=1'-0"

OVERHANG AT ROOF BEAM | 10



SCALE: 3"=1'-0"

COLUMN AT ROOF | 7



SCALE: 3"=1'-0"

STIFFENER AT FLOOR | 4

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT
APP'D: 10177.36
AC. FLS SS
DATE: 06-03-04

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
03 118460
AC. FLS SS
Date SEP 27 2017

PC Professional of Record Seal
LICENSE EXPIRES 6-30-2004

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
PC-04
104801
AC. FLS SS
DATE 5/17/05

REVISIONS

1			
2			
3			
4			
5			

Electrical Engineer's Seal

Mechanical Engineer's Seal

Architects Seal

MODTECH INC.
2830 BARRETT AVENUE
PERRIS, CALIF. 92571
PH (909) 943-4014
FAX (909) 940-0427

PROJECT NUMBER: 5305

© MODTECH, INC. 2002

COVINA ELEMENTARY SCHOOL

COVINA VALLEY UNIFIED SCHOOL DISTRICT

(8 & 12 LIGHTS)

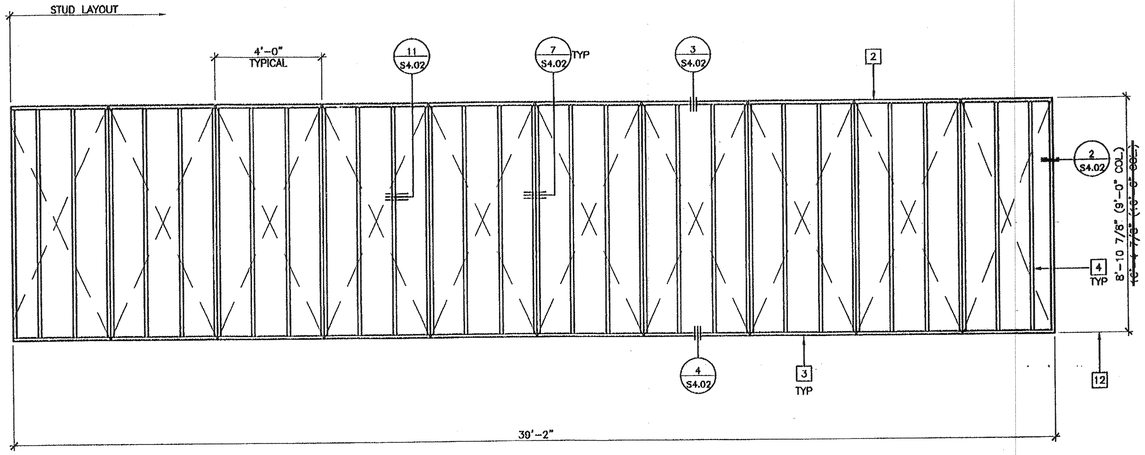
STRUCTURAL FRAMING 26 GA MONO PITCH

DRAWN BY: SJ/BF
DATE: 3-30-04
CHECKED BY:
DATE:

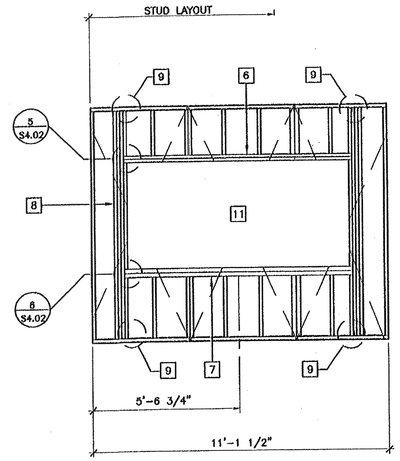
MODTECH Index No.

S3.02

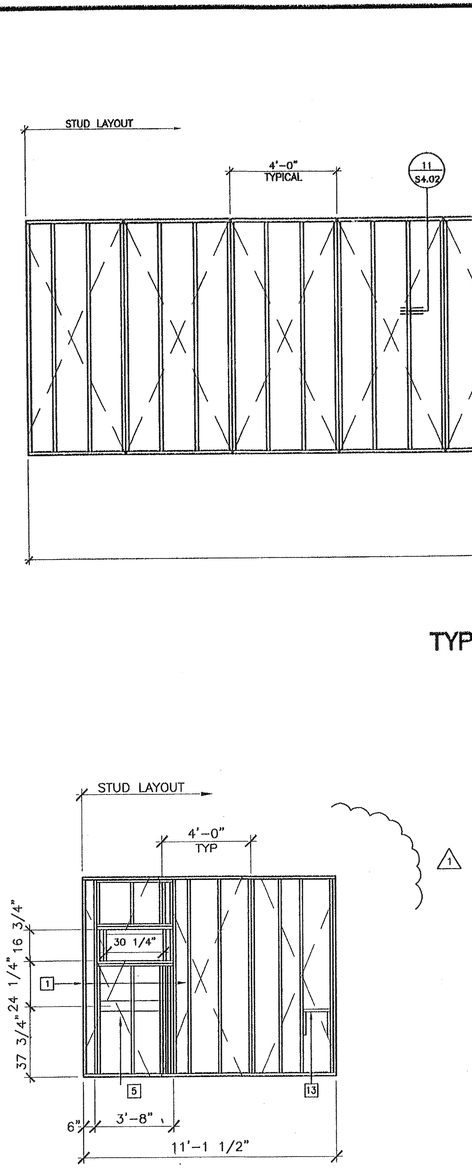
PROJECT NO. 5305



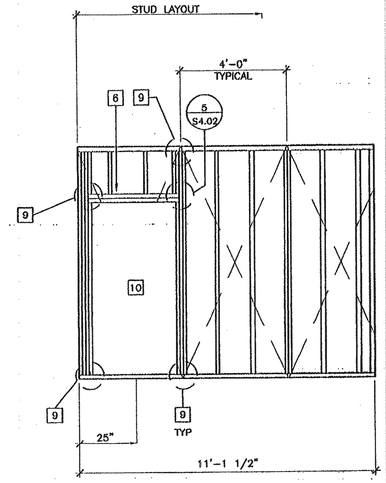
TYPICAL SIDE WALL 14



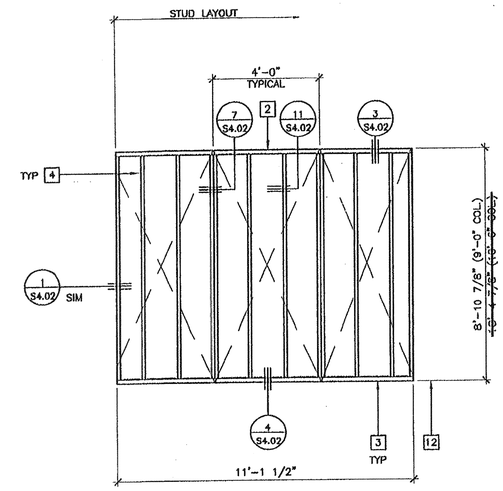
TYPICAL WINDOW



TYPICAL HVAC



TYPICAL DOOR



TYPICAL END WALL

KEY NOTES

1. 4"x4" POST
2. 2"x4" TOP PLATE
3. 2"x4" FLOOR SILL PLATE
4. 2"x4" STUDS AT 16" OC TYPICAL – FOR BUILDINGS EXCEEDING 2160 SF ONLY USE 12" OC SPACING WITHIN 4'-0" OF BUILDING CORNERS
5. 2"x6" LET IN FOR AC SUPPORT
6. 2"x4" HEADER – SEE ROUGH OPENING SCHEDULE ON SHEET S4.02
7. 2"x4" SILL – SEE ROUGH OPENING SCHEDULE ON SHEET S4.02
8. 2"x4" FULL HEIGHT KING STUDS AND 2"x4" TRIMMER 13/S4.02 SEE ROUGH OPENING SCHEDULE ON SHEET S4.02
9. A 34 CLIPS AT HEADER AND SILL TO FULL HEIGHT STUDS AND FULL HEIGHT STUDS TO TOP AND BOTTOM PLATES
10. REQUIRED OPENING FOR A 3068 DOOR SEE ROUGH OPENING SCHEDULE ON SHEET S4.02
11. REQUIRED OPENING FOR A 8040 WINDOW SEE ROUGH OPENING SCHEDULE ON SHEET S4.02
12. FINISH FLOOR LINE
13. FRAME FOR ELECTRICAL PANEL
14. PROVIDE 2x6 FLAT WALL BLOCKING WITH 3-16d BOX NAILS EACH END AT EACH HANDRAIL CONNECTION – 6/R1.01 SEE FLOOR PLAN FOR RAMP LOCATION.

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT
APP# 107736
AC FLS SS
DATE 06-03-04

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
03 118460
AC FLS SS TB
Date SEP 27 2017

FOR 10'-6" COLUMN HEIGHT OPTION USE 6" WALL FRAMING

MAY 13 2004
DATE SIGNED
APR 30 2003

PC
CBC 2001

WALL FRAMING ELEVATIONS

WOOD STUDS
SCALE: 1/4" = 1'-0"

REVISIONS			
1	REVISED FROM PC PER JOB #5305	3/30/04	
2			
3			
4			
5			

Electrical Engineer's Seal

Mechanical Engineer's Seal

PC Professional of Record Seal
LICENSE EXPIRES 6-30-2004

Architects Seal

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
PC-04
104801
AC FLS SS
DATE 5/6/03

MODTECH INC.
2830 BARRETT AVENUE
PERRIS, CALIF. 92571
PH (909) 943-4014
FAX (909) 940-0427

PROJECT NUMBER: 5305
COVINA ELEMENTARY SCHOOL
COVINA VALLEY UNIFIED SCHOOL DISTRICT

© MODTECH, INC. 2002

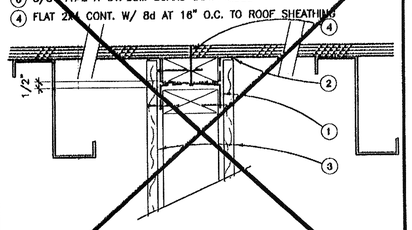
DRAWN BY: SJ/BF
DATE: 3-30-04
CHECKED BY:
DATE:

MODTECH Index No.

WALL FRAMING WOOD STUDS

S4.01

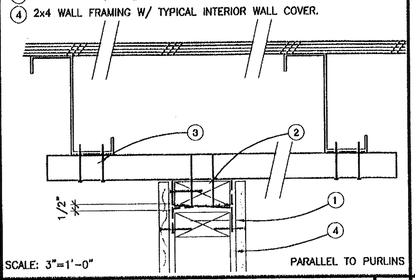
1. 3" x18 GA. BENT Z STRAP W/ 2-8d BOX EACH END AT 2'-0" O.C. ALTERNATE DIRECTION OF STRAPS. (2 STRAPS = 4'-0")
2. CONTINUOUS SEALANT TYPICAL
3. 5/8" TYPE X GYPSUM BOARD BOTH SIDES
4. FLAT 2x4 CONT. W/ 8d AT 16" O.C. TO ROOF SHEATHING



SCALE: 3"=1'-0" PERPENDICULAR TO PURLINS

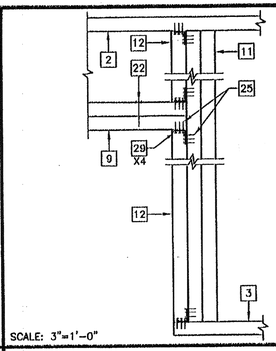
PARALLEL (RATED 16/A6.21) 13

1. 3" x18 GA. BENT Z STRAP W/ 2-8d BOX EACH END AT 2'-0" O.C. ALTERNATE DIRECTION OF STRAPS. (2 STRAPS = 4'-0")
2. 2x4 CONT. W/ 2-16d PER BLOCK
3. 2x4 BLOCK W/ 2-#10x2" STS PER PURLIN. 4 TOTAL PER BLOCK
4. 2x4 WALL FRAMING W/ TYPICAL INTERIOR WALL COVER.



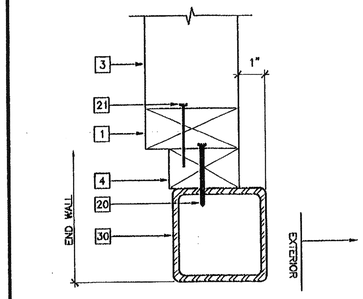
SCALE: 3"=1'-0" PARALLEL TO PURLINS

INTERIOR PARTITION PARALLEL 9



SCALE: 3"=1'-0"

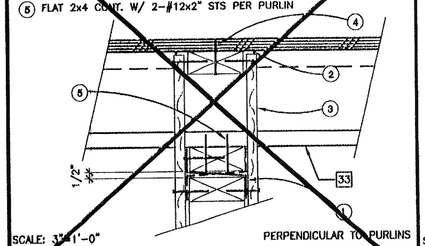
DOOR/WINDOW HEADER AND JAMB 5



SCALE: NTS

COLUMN AT END WALL 1

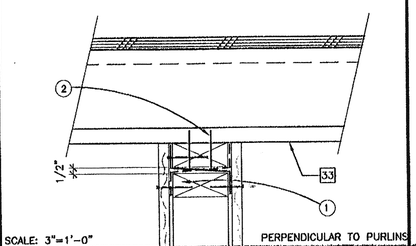
1. 3" x18 GA. BENT Z STRAP W/ 2-8d BOX EACH END AT 2'-0" O.C. ALTERNATE DIRECTION OF STRAPS. (2 STRAPS = 4'-0")
2. CONTINUOUS SEALANT TYPICAL
3. 5/8" TYPE X GYPSUM BOARD BOTH SIDES
4. FLAT 2x4 BETWEEN PURLINS W/ 8d AT 16" O.C. TO ROOF SHEATHING.
5. FLAT 2x4 CONT. W/ 2-#12x2" STS PER PURLIN



SCALE: 3"=1'-0" PERPENDICULAR TO PURLINS

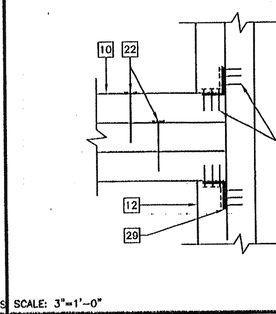
PERPENDICULAR (RATED 16/A6.21) 14

1. 3" x18 GA. BENT Z STRAP W/ 2-8d BOX EACH END AT 2'-0" O.C. ALTERNATE DIRECTION OF STRAPS. (2 STRAPS = 4'-0")
2. FLAT 2x4 CONT. W/ 2-#12x2" STS PER PURLIN



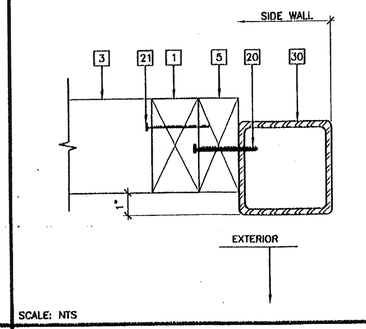
SCALE: 3"=1'-0" PERPENDICULAR TO PURLINS

INTERIOR PARTITION PERPENDICULAR 10



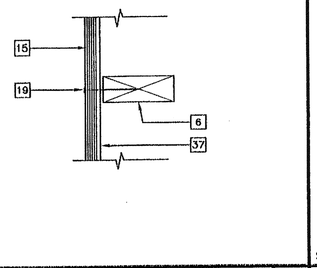
SCALE: 3"=1'-0"

WINDOW SILL AND JAMB 6



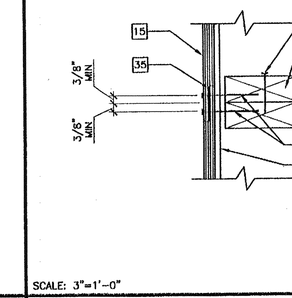
SCALE: NTS

COLUMN AT SIDE WALL 2



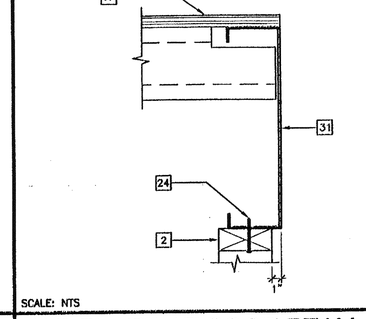
SCALE: 3"=1'-0"

SECTION AT STUD 11



SCALE: 3"=1'-0"

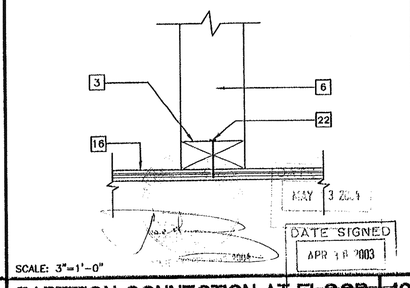
VERTICAL PLYWOOD JOINT 7



SCALE: NTS

TOP PLATE AT ROOF BEAM 3

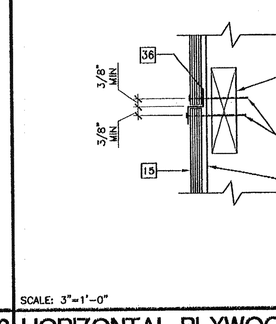
PC
CBC 2001



SCALE: 3"=1'-0"

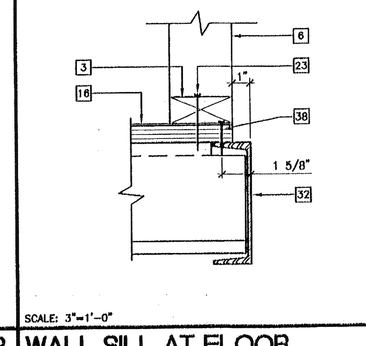
PARTITION CONNECTION AT FLOOR 16

PARTITION CONNECTION AT FLOOR 12



SCALE: 3"=1'-0"

HORIZONTAL PLYWOOD JOINT 8



SCALE: 3"=1'-0"

WALL SILL AT FLOOR 4

NAILING SCHEDULE

CONNECTION: (ALL NAILS SHALL BE BOX NAILS, U.O.N.)	NAILING[1]:
1. JOIST TO SILL OR GIRDER, TOENAIL	3-8d
2. BRIDGING TO JOIST, TOENAIL EACH END	2-8d
3. 1"x6" SUBFLOOR OR LESS TO EACH JOIST, FACE NAIL	2-8d
4. WIDER THAN 1"x6" SUBFLOOR TO EACH JOIST, FACE NAIL	3-8d
5. 2" SUBFLOOR TO JOIST OR GIRDER, BLIND AND FACE NAIL	2-16d
6. SOLE PLATE TO JOIST OR BLOCKING: TYPICAL FACE NAIL / AT BRACED WALL PANELS	16d AT 16" OC / 3-16d PER 16"
7. TOP PLATE TO STUD, END NAIL	2-16d
8. STUD TO SOLE PLATE	4-8d, TOENAIL OR 2-16d, END NAIL
9. DOUBLE STUDS, FACE NAIL	16d AT 24" OC
10. DOUBLE TOP PLATES, TYPICAL FACE NAIL / DOUBLE TOP PLATES, LAP SPLICE	16d AT 16" OC / 8-16d
11. BLOCKING BETWEEN JOISTS, RAFTERS TO TOP PLATE, TOENAIL	3-8d
12. RIM JOIST TO TOP PLATE, TOENAIL	8d AT 6" OC
13. TOP PLATES, LAPS AND INTERSECTIONS, FACE NAIL	2-16d
14. CONTINUOUS HEADER; TWO PIECES 16d AT 16" OC ALONG EA. EDGE	
15. CEILING JOIST TO PLATE, TOENAIL	3-8d
16. CONTINUOUS HEADER TO STUD, TOENAIL	4-8d
17. CEILING JOISTS, LAPS OVER PARTITIONS, FACE NAIL	3-16d
18. CEILING JOISTS, TO PARALLEL RAFTERS, FACE NAIL	3-16d
19. RAFTER TO PLATE, TOENAIL	3-8d
20. 1" BRACE TO EACH STUD AND PLATE, FACE NAIL	2-8d
21. 1"x8" OR LESS SHEATHING TO EACH BEARING, FACE NAIL	2-8d
22. WIDER THAN 1"x8" SHEATHING TO EACH BEARING, FACE NAIL	3-8d
23. BUILT-UP CORNER STUDS	16d AT 24" OC
24. BUILT-UP GIRDER AND BEAMS	20d AT 32" OC TOP AND BOTTOM AND STAGGERED 2-20d AT ENDS AND AT EACH SPLICE
25. 2" PLANKS	2-16d AT EACH BEARING
26. WOOD STRUCTURAL PANELS AND PARTICLEBOARD[2]: SUBFLOOR AND WALL SHEATHING (TO FRAMING): 1/2" AND LESS	6d[3]
19/32"-3/4"	8d[4] OR 8d[5]
7/8"-1"	8d[5]
1 1/8"-1 1/4"	10d[4] OR 8d[5]
COMBINATION SUBFLOOR-UNDERLAYMENT (TO FRAMING): 3/4" AND LESS	6d[5]
7/8"-1"	8d[5]
1 1/8"-1 1/4"	10d[4] OR 8d[5]
27. PANEL SIDING (TO FRAMING)[2]: 1/2" OR LESS	6d[6]
5/8"	8d[6]
28. FIBERBOARD SHEATHING[7]: 1/2" AND 25/32"	NO.11 GA[8], 8d[4], NO.16 GA[9]
29. INTERIOR PANELING: 1/4"	4d[10]
3/8"	6d[11]

FOOTNOTES

[1] COMMON OR BOX NAILS MAY BE USED EXCEPT WHERE OTHERWISE STATED.
[2] NAILS SPACED AT 6" ON CENTER AT EDGES, 12" AT INTERMEDIATE SUPPORTS EXCEPT 6" AT ALL SUPPORTS WHERE SPANS ARE 48" OR MORE. FOR NAILING OF WOOD STRUCTURAL PANEL AND PARTICLEBOARD DIAPHRAGMS AND SHEAR WALLS, REFER TO SECTIONS 2315.3.3 AND 2315.4. NAILS FOR WALL SHEATHING MAY BE COMMON, BOX OR CASING.
[3] COMMON OR DEFORMED SHANK.
[4] COMMON.
[5] DEFORMED SHANK.
[6] CORROSION-RESISTANT SIDING OR CASING NAILS CONFORMING TO THE REQUIREMENTS OF SECTION 2304.3.
[7] FASTENERS SPACED 3" ON CENTER AT EXTERIOR EDGES AND 6" ON CENTER AT INTERMEDIATE SUPPORTS.
[8] CORROSION-RESISTANT ROOFING NAILS WITH 7/16"ø HEAD AND 1 1/2" LENGTH FOR 25/32" SHEATHING CONFORMING TO REQUIREMENTS OF SECTION 2304.3
[9] CORROSION-RESISTANT STAPLES WITH NOMINAL 7/16" CROWN AND 1 1/8" LENGTH FOR 1/2" SHEATHING AND 1 1/2" LENGTH FOR 25/32" SHEATHING CONFORMING TO THE REQUIREMENTS OF SECTION 2304.3.
[10] PANEL SUPPORTS AT 16" (20" IF STRENGTH AXIS IN THE LONG DIRECTION OF THE PANEL, UNLESS OTHERWISE MARKED). CASING OR FINISH NAILS SPACED 6" ON PANEL EDGES, 12" AT INTERMEDIATE SUPPORTS.
[11] PANEL SUPPORTS AT 24". CASING OR FINISH NAILS SPACED 6" ON PANEL EDGES, 12" AT INTERMEDIATE SUPPORTS.
[12] NAILS DRIVEN INTO PRESSURE TREATED WOOD SHALL BE GALVANIZED PER 2304.3

ROUGH OPENING SCHEDULE

OPENING	HEADER	SILL	JAMB	WIDTH	HEIGHT
STANDARD WALLS - 70 MPH WIND					
2068	(2)2"X4"	N/A	(2)2"X4"	26"	81 1/4"
3070	(2)2"X4"	N/A	(2)2"X4"	38"	85 1/4"
6068	(2)2"X4"	N/A	(3)2"X4"	74"	81 1/4"
8040	(3)2"X4"	(2)2"X4"	(4)2"X4"	95 3/4"	47 5/8"
PLASTER WALLS - 70 MPH WIND					
2068	(2)2"X4"	N/A	(3)2"X4"	26"	81 1/4"
3068	(2)2"X4"	N/A	(3)2"X4"	38"	81 1/4"
6068	(2)2"X4"	N/A	(4)2"X4"	74"	81 1/4"
8040	(3)2"X4"	(2)2"X4"	(4)2"X4"	95 3/4"	47 5/8"
STANDARD WALLS - 80 MPH WIND					
2068	(2)2"X4"	N/A	(2)2"X4"	26"	81 1/4"
3068	(2)2"X4"	N/A	(3)2"X4"	38"	81 1/4"
6068	(2)2"X4"	N/A	(3)2"X4"	74"	81 1/4"
8040	(3)2"X4"	(2)2"X4"	(4)2"X4"	95 3/4"	47 5/8"
PLASTER WALLS - 80 MPH WIND					
2068	(2)2"X4"	N/A	(3)2"X4"	26"	81 1/4"
3068	(2)2"X4"	N/A	(3)2"X4"	38"	81 1/4"
6068	(2)2"X4"	N/A	(4)2"X4"	74"	81 1/4"
8040	(3)2"X4"	(2)2"X4"	(5)2"X4"	95 3/4"	47 5/8"

1

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT
APPROVED 107788
DATE 06-03-04

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT
03 118460
AC FLS SS TB
Date SEP 27 2017

KEY NOTES

1	2"x4" END STUD
2	2"x4" TOP PLATE
3	2"X4" FLOOR SILL PLATE
4	2"x NAILER AT END WALL
5	2"x4" NAILER AT SIDE WALL
6	2"X4" AT 16" OC
7	DOUBLE 2"x4" STUDS AT PLYWOOD EDGES
8	2"X4" BLOCKING
9	DOOR/WINDOW HEADER - 5,6/S4.02 (SEE SCHEDULE)
10	WINDOW SILL - 6/S4.02
11	FULL HEIGHT JAMB STUDS - 5,6/S4.02
12	2"x4" TRIMMER STUD
13	2"X4" DOUBLE TOP PLATE AT INTERIOR PARTITIONS
14	2"x4" BRACE AT 8'-0" OC MAX AT 45° MAX
15	EXTERIOR SHEATHING NAIL WITH 8d GALVANIZED BOX NAILS AT 6" OC EDGE NAILING, 12" OC FIELD NAILING
16	FLOOR SHEATHING
17	ROOF SHEATHING
18	EDGE NAILING 8d ELECTRO GALVANIZED AT 6" OC
19	FIELD NAILING 8d ELECTRO GALVANIZED AT 12" OC
20	#10 STSMS OR AEROSMITH BZH .144 SHOT PINS (ICBO NO. ER -5667) AT 24" OC (75MPH DESIGN) OR 21" OC (80MPH DESIGN AND PLASTER) AND .144 SHOTPINS AT 6 1/2" OC (17 ADDED SHOT PINS MIN FOR 75MPH WIND SHEAR) OR 5" OC (21 ADDED SHOT PINS MIN FOR 80MPH WIND AND PLASTER)
21	16d NAIL AT 24" OC
22	16d NAIL AT 16" OC
23	16d BOX NAILS AT 8" OC
24	#10 STSMS OR AEROSMITH BZH .144 SHOT PINS (ICBO NO. ER -5667) AT 16" OC (75MPH DESIGN) OR 16" OC (80MPH DESIGN AND PLASTER)
25	8d 1 1/2" NAILS
26	1/4"ø x 2 1/2" EYE LAG SCREW AT 8'-0" OC (2" EMBEDMENT)
27	#12x2" TYPE A HEX HEAD SCREWS WITH WASHERS (3 TYP)
28	A35 CLIP BOTH SIDES OF BRACE TO TOP PLATE
29	A34 CLIPS AT HEADER AND SILL TO FULL HEIGHT STUDS AND FULL HEIGHT STUDS TO TOP AND BOTTOM PLATES
30	TUBE STEEL COLUMN (STR)
31	ROOF BEAM OR HEADER (STR)
32	FLOOR BEAM OR HEADER (STR)
33	ROOF PURLIN (STR)
34	12 GA BRACE WIRES ATTACH TO EYE LAG SCREWS AND TO ROOF PURLINS AT 8'-0" OC, ENDS TO HAVE 4 TIGHT WRAPS IN 1 1/2"
35	LAP JOINT
36	26 GA SHEET METAL ⌐ FLASHING
37	WATERPROOF MEMBRANE
38	EDGE NAIL AT FLOOR BEAM OR HEADER - #10x1 3/4" SELF TAPPING FLAT HEAD SCREWS AT 6" OC
39	SIMPSON 'STC' CLIPS AT 4'-0" OC FASTENED W/#10 STSMS
40	2x BRACING SECURED TO ROOF PURLINS W/#8 STSMS

REVISIONS		
1	REVISED FROM PC PER JOB #5305	3/30/04
2		
3		
4		
5		

Electrical Engineer's Seal

Mechanical Engineer's Seal

PC Professional of Record Seal
REGISTERED PROFESSIONAL ENGINEER
RALF SIMPSON
No. 15602
CIVIL
STRUCTURAL
STATE OF CALIFORNIA
LICENSE EXPIRES 6-30-2004

Architects Seal

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
PC-04
104801
AC FLS SS
DATE 5/12/03

MODTECH™ INC.
2830 BARRETT AVENUE
PERRIS, CALIF. 92571
PH (909) 943-4014
FAX (909) 940-0427

PROJECT NUMBER: 5305

© MODTECH, INC. 2002

COVINA ELEMENTARY SCHOOL

COVINA VALLEY UNIFIED SCHOOL DISTRICT

WALL FRAMING DETAILS

DRAWN BY: SJ/BF
DATE: 3-30-04
CHECKED BY:
DATE:

MODTECH Index No.
S4.02

PROJECT NO. 5305

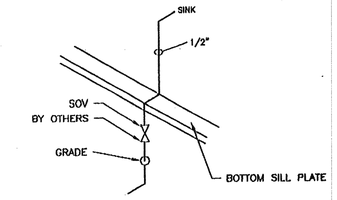
WATER CLOSET – ACCESSIBLE
VITREOUS CHINA, WALL MOUNT, TANK TYPE – 3–446E (CRANE)
OPEN FRONT WHITE SEAT, OLSONITE
95 OR APPROVED EQUAL, FLUSH VALVE AT WIDE SIDE

LAVATORY – ACCESSIBLE
C1–412V, FAUCET TO BE VALLEY 805 (CRANE)

CLASSROOM SINK–ACCESSIBLE
CRA–ADA–1725–A–GR (5" DEEP)
FAUCET –CHICAGO 350
BUBBLER –JSB–10

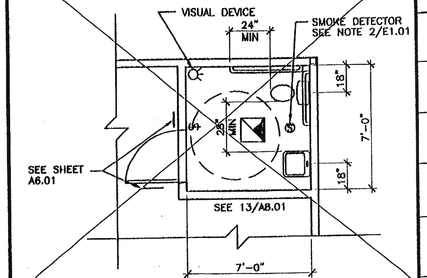
ACCESSORIES (NIC)
REQUIRED TOILET ACCESSORIES SHALL BE MOUNTED PER CBC SECTION 1118B

TOILET ROOM FIXTURES 12



SCALE: NTS PIPE SHALL BE TYPE 'L' COPPER

SINK CABINET COLD WATER SUPPLY 8



SCALE: NTS

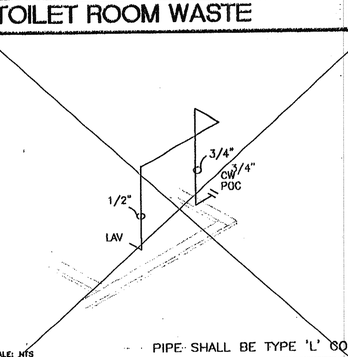
TYPICAL TOILET ROOMPLAN 4

ITEM	FIXTURE	COLD WATER	HOT WATER	WASTE	VENT	DESCRIPTION
WC 1	WATER CLOSET ACCESSIBLE	1/2"	–	3"	2"	VITREOUS CHINA, WALL MOUNT, TANK TYPE – 3–446E (CRANE) OPEN FRONT WHITE SEAT, OLSONITE 95 OR APPROVED EQUAL, FLUSH VALVE AT WIDE SIDE
UR 1	URINAL (OPTION) ACCESSIBLE	3/4"	–	2"	1 1/2"	CRANE C7–200 MANHATTAN LOW CONSUMPTION, VITREOUS CHINA, 1.0 GALLON FLUSH, SIPHON JET WITH INTEGRAL TRAP – SLOAN #186 REGAL FLUSHOMETER, FLUSH VALVE #129 OR #130 OR APPROVED EQUAL
LV 1	LAVATORY ACCESSIBLE	1/2"	–	2"	1 1/2"	CRANE HARWICH VITREOUS CHINA 1–412, ZURN "Z" DURA–COATED SYSTEM WITH CONCEALED ARMS (Z–1251 LAV WALL SUPPORT) OR #700 SERIES. FAUCET – BRASS NL 805 IPS LEVER HANDLE OR APPROVED EQUAL.
PR 1	TYPICAL WALL PARTITION (OPTION)	–	–	–	–	THE EMBASSY–POWDER COATED METAL EVERHEAD BRACED, BAKED ENAMEL FINISH, MANUFACTURED BY GLOBAL STEEL PROD. OR APPROVED EQUAL
MR 1	MIRROR	–	–	–	–	SERIES 530 RETURNED MIRRORS STAINLESS STEEL – 18 GA, 18"x24" ("J" SHEET METAL – MANUFACTURED) OR APPROVED EQUAL
GB 1	GRAB BAR	–	–	–	–	MCKINNEY 9704–1–1/2" OC STAINLESS STEEL GRAB BAR SATIN FINISH 36" LONG IN BACK AND 42" ON SIDE OR APPROVED EQUAL
CS 1	CLASSROOM SINK ACCESSIBLE	1/2"	–	2"	2"	CRANE CRA–ADA–1725–A–GR (5" DEEP) MOUNT IN CASEWORK FAUCET – CHICAGO 350 BUBBLER – JSR – 10

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP03 10778 88 EO
AC FLS SS
DATE 06-03-04

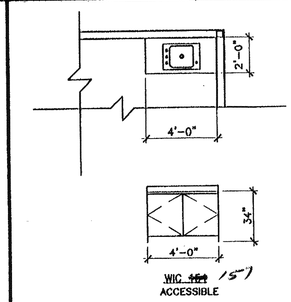
IDENTIFICATION STAMP
DIV OF THE STATE ARCHITECT
03 118460
AC FLS SS TB
Date SEP 27 2017

FIXTURE SCHEDULE 1

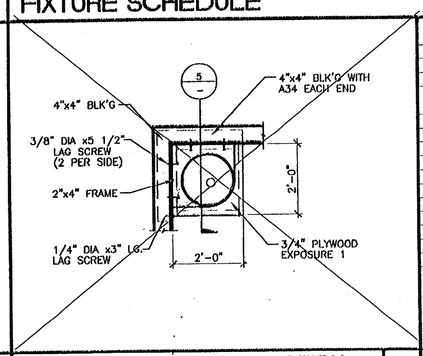


SCALE: NTS PIPE SHALL BE TYPE ABS

TOILET ROOM WASTE 9



TYPICAL SINK CABINET 5



WATER HEATER PLAN VIEW 4

DIMENSION	A (INCHES)	E (INCHES)	K (INCHES)
	SUGGESTED		
TOILET CENTERING FROM WALL	18"	15"*	12"*
TOILET SEAT HEIGHT/DIM TO TOP OF SEAT	17"–19"	15"	10"–12"
GRAB BAR HEIGHT (SIDE)	33"	27"	20"–22"
TOILET PAPER IN FRONT OF TOILET (RECESSED OR SEMI–RECESSED)	12" MAX	6" MAX*	6" MAX*
NAPKIN DISPOSAL IN FRONT OF TOILET	12" MAX	12" MAX	N/A
DISPENSER OR MIRROR HEIGHT	40" MAX	36" MAX	32" MAX
LAVATORY/SINK TOP HEIGHT	34" MAX	29" MAX	24" MAX
LAVATORY/SINK KNEE CLEARANCE	27" MIN	24" MIN	19" MIN
URINAL LIP HEIGHT	17" MAX	15" MAX	13" MAX
URINAL FLUSH HANDLE HEIGHT	44" MAX	37" MAX	32" MAX
DRINKING FOUNTAIN BUBBLER HEIGHT	36" MAX	32" MAX	30" MAX
DRINKING FOUNTAIN KNEE CLEARANCE	27" MIN	24' MIN	22" MIN
RAMP/STAIR HANDRAIL HEIGHT	34"–38"	27"	22"
BUBBLER HEIGHT	2"	3"	6"
SINK DEPTH, (FOR CLEARANCE)	7" MAX	5" MAX	5" MAX

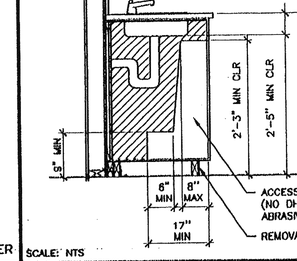
A = ADULT DIMENSIONS (AGE 12 AND OVER)
E = ELEMENTARY DIMENSIONS
K = KINDERGARTEN AND PRE–SCHOOL DIMENSIONS
* = DEVIATES FROM CODE REQUIREMENTS AND REQUIRES A WRITTEN FINDING OF UNREASONABLE HARDSHIP

NOTE: DIMENSIONS FROM 2001 CBC TABLE 1115B–1

ACCESSIBILITY 11

SCALE: NTS PIPE SHALL BE TYPE 'L' COPPER

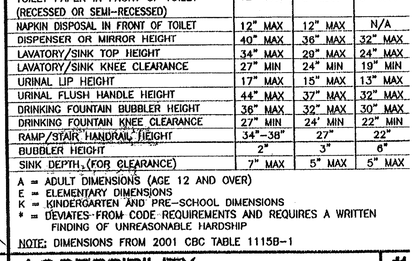
TOILET ROOM COLD WATER SUPPLY 10



SCALE: NTS

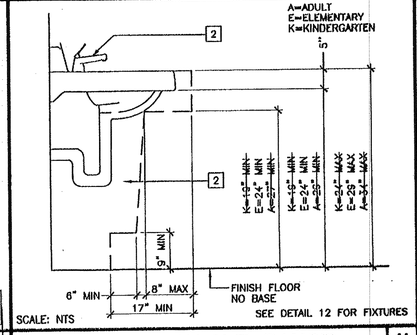
SINK ACCESSIBILTY 6

WATER HEATER ELEVATION 5



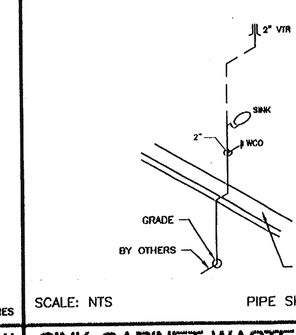
SCALE: 3"=1'–0"

GRAB BAR SECTION 3



SCALE: NTS

ACCESSIBLE LAV CLEARANCE 11



SCALE: NTS PIPE SHALL BE TYPE ABS

SINK CABINET WASTE 7

MAY 13 2004
PC
CBC 2001
DATE SIGNED
APR 18 2003

WATER HEATER ELEVATION 5

GRAB BAR SECTION 3

REVISIONS

1			
2			
3			
4			
5			

Electrical Engineer's Seal

Mechanical Engineer's Seal

PC Professional of Record Seal
REGISTERED PROFESSIONAL ENGINEER JAMES T. STRATTON No. 4602 STRUCTURAL STATE OF CALIFORNIA
LICENSE EXPIRES 6-30-2004

Architects Seal

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
PC-04
104801
AC. n.s. SS
DATE 5/12/05

MODTECH™ INC.
2830 BARRETT AVENUE
PERRIS, CALIF. 92571
PH (909) 943–4014
FAX (909) 940–0427

PROJECT NUMBER: 5305

© MODTECH, INC. 2002

COVINA ELEMENTARY SCHOOL

COVINA VALLEY UNIFIED SCHOOL DISTRICT

PLUMBING PLAN

DRAWN BY: SJ/BF
DATE: 3–30–04
CHECKED BY:
DATE:

MODTECH Index No.
P1.01