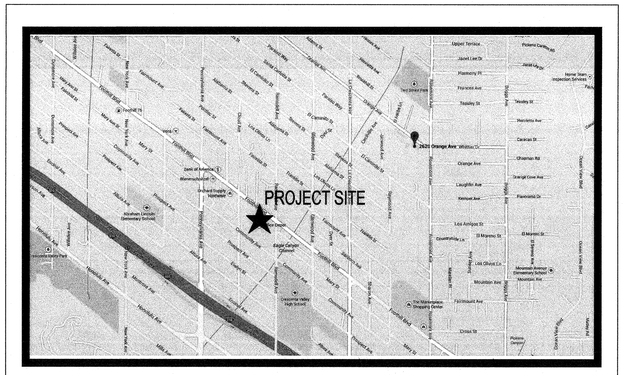
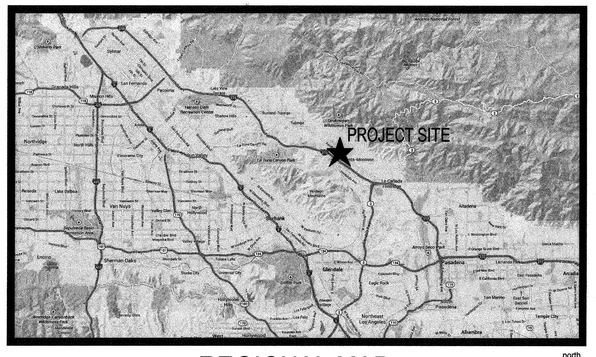
CLOUD PRESCHOOL
RELOCATBLES

4444 CLOUD AVENUE, LA CRESCENTA, CALIFORNIA

GLENDALE UNIFIED SCHOOL DISTRICT



VICINITY MAP



REGIONAL MAP

north

tBP /Architecture

4611 Teller Avenue - Newport Beach - California - 92660
http://www.tbparchitecture.com
ph: 949.673.0300 - fx: 949.732.3895

tBP
Architecture
Planning
Interiors

tBP
architecture
planning
interiors

tBP/Architecture
4611 Teller Avenue
Newport Beach, CA 92660
ph: 949.673.0300 fx: 949.732.3895

architect

consultant

FILE NO.: 19-41
IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
DEPARTMENT OF GENERAL SERVICES
A# 03-119149
DATE JAN 7 2019

DEPARTMENT OF GENERAL SERVICES
DSA Los Angeles Regional Office
700 N. Alameda Street, Suite 5-500
Los Angeles, California 90012
ph: (213)897-3995 fx: (213)897-3159/0726

CLOUD PRESCHOOL
RELOCATABLES
4444 CLOUD AVENUE
LA CRESCENTA, CALIFORNIA 91214

GLENDALE UNIFIED SCHOOL DISTRICT

owner

tBP project number : 20778.10
file name:
drawn by: checked by:
date: August 14, 2018

Rev:	date:	description:

drawing title:
COVER SHEET

drawing no.:
T-1
drawing of

ABBREVIATIONS

&	AND	(E)	EXISTING	K	KIP (1000 LB)	R.	RISER
∠	ANGLE	EA.	EACH	KIT.	KITCHEN	RAD.	RADIUS
@	AT	E.J.	EXPANSION JOINT	KO.	KNOCKOUT	R.D.	ROOF DRAIN
℄	CENTERLINE	ELEC.	ELECTRICAL	KVA	KILOVOLT AMPERE	RDWD.	REDWOOD
Ø	DIAMETER OR ROUND	ELEV.	ELEVATION			REF.	REFERENCE
#	NUMBER	EMER.	EMERGENCY	LAB.	LABORATORY	REFR.	REFRIGERATOR
		ENCL.	ENCLOSURE	LAM.	LAMINATED	REG.	REGISTER
AB	ANCHOR BOLT	ENG	ENGINEER	LAV.	LAVATORY	REINF.	REINFORCING
AC	ASPHALTIC CONCRETE	ENGY	ENERGY	LB.	POUND	REQD.	REQUIRED
ACP	ACOUSTICAL PANEL	ENTR	ENTRANCE	LDG	LANDING	RESIL.	RESILIENT
ACT	ACOUSTICAL TILE	EP	EPOXY ENAMEL	LL	LIVE LOAD	RET	RETURN
ACOUS	ACOUSTICAL	EQ.	EQUAL	LT	LIGHT	REV.	REVERSE
AD	AREA DRAIN	EQUIP.	EQUIPMENT	LTF	LINOLEUM TILE FLOORING	RFG	ROOFING
ADH	ADHESIVE	EST.	ESTIMATE	LTG	LIGHTING	RM.	ROOM
ADJ	ADJACENT	E.W.C.	ELECTRIC WATER COOLER	LVL	LEVEL	R.O.	ROUGH OPENING
AFF	ABOVE FINISH FLOOR	EWH	ELECTRIC WATER HEATER	LVR	LOUVER	R.T.F.	RUBBER TILE FLOORING
AFP	ACCORDION FOLDING PARTITION	EXH	EXHAUST				
AGGR	AGGREGATE	EXIST.	EXISTING	MAINT	MAINTENANCE	S.B.	SPLASH BLOCK
ALT	ALTERNATE	EXP.	EXPANSION	MAN	MANUAL	S.C.	SOLID CORE
ALUM	ALUMINUM	EXPSD.	EXPOSED	MAS	MASONRY	SCHED.	SCHEDULE
AMP	AMPERE	EXT.	EXTERIOR	MATL.	MATERIAL	SCN	SOLID CORE NATURAL FINISH
ANOD	ANODIZED			MAX.	MAXIMUM	SCP	SOLID CORE PAINT FINISH
APPROX	APPROXIMATELY	F	FACTORY FINISH	MCC	MOTOR CONTROL CENTER	SCPL	SOLID CORE PLAM FINISH
ARCH	ARCHITECT	F.A.	FIRE ALARM	MECH.	MECHANICAL	S.D.	STORM DRAIN
ASB	ASBESTOS	FC	FOOTCANDLE	MED	MEDIUM	SECT.	SECTION
ASSY	ASSEMBLY	F.D.	FLOOR DRAIN	MEZZ	MEZZANINE	SF	SQUARE FOOT
		FDC	FIRE DEPARTMENT CONNECTION	MFR.	MANUFACTURER	SHT.	SHEET
BAT	BATTERY	FDN	FOUNDATION	MH	MANHOLE	SIM.	SIMILAR
BBD	BULLETIN BOARD	F.E.	FIRE EXTINGUISHER	MIN.	MINIMUM	SLR	SEALER
BD	BOARD	F.E.C.	FIRE EXTINGUISHER CABINET	MIR	MIRROR	SPEC.	SPECIFICATIONS
BLDG	BUILDING	F.F.	FINISH FLOOR	MISC.	MISCELLANEOUS	SPLY	SUPPLY
BLKG	BLOCKING	F.G.	FINISHED GRADE	MKR	MARKER	SQ.	SQUARE
BLO	BLOWER	F.H.	FIRE HYDRANT	MTL.	METAL	S.SK.	SERVICE SINK
BLR	BOILER	FIN.	FINISH	MTD.	MOUNTED	SST.	STAINLESS STEEL
BLW	BELOW	F.L.	FLOW LINE	MUL.	MULLION	ST	STREET
BM	BEAM	FLASH.	FLASHING	MVBL	MOVABLE	STAG	STAGGERED
BO	BOTTOM OF	FLR.	FLOOR			STC	SOUND TRANSMISSION CLASS
BRKR	BREAKER	FLUOR.	FLUORESCENT	(N)	NEW	STD.	STANDARD
BTU	BRITISH THERMAL UNIT	F.O.	FACE OF	NAT.	NATURAL	STL.	STEEL
BUR	BUILT UP ROOFING	F.O.C.	FACE OF CONCRETE	NEG	NEGATIVE	STN	STAIN FINISH
		F.O.F.	FACE OF FINISH	N.I.C.	NOT IN CONTRACT	STOR	STORAGE
CAB	CABINET	F.O.M.	FACE OF MASONRY	NO.	NUMBER	STRUCT.	STRUCTURAL
CARP	CARPET	F.O.S.	FACE OF STUD	NOM.	NOMINAL	SURF	SURFACE
CAT	CATALOG	FPP	FOLDING PANEL PARTITION	N.T.S.	NOT TO SCALE	SUSP.	SUSPENDED
CB	CATCH BASIN	FPW	FOLDING PANEL WOOD DOOR			SV	SHEET VINYL
CEM	CEMENT	F.R.	FIRE RETARDANT	O.A.	OVERALL	SWBD	SWITCHBOARD
CF	CURB FACE	F.R.A.	FIRE RATED ASSEMBLY	O.C.	ON CENTER	SWGR	SWITCHGEAR
CFM	CUBIC FEET PER MINUTE	F.R.P.	FIBERGLASS REINFORCED PANEL	O.D.	OUTSIDE DIAMETER	SWR	SEWER
CHBD	CHALKBOARD	F.S.	FLOOR SINK	O.F.	OVERFLOW DRAIN	SYM.	SYMBOL
CHEM	CHEMICAL	FT.	FOOT OR FEET	OFCI	OWNER FURNISHED-CONTRACTOR INSTALLED	SYS	SYSTEM
CHWR	CHILLED WATER RETURN	FTG.	FOOTING			T.	TREAD
CHWS	CHILLED WATER SUPPLY	FURR.	FURRING	OFF	OFFICE	T. & B.	TOP AND BOTTOM
CI	CAST IRON	FXTR	FIXTURE	OFOI	OWNER FURNISHED-OWNER INSTALLED	T. & G.	TONGUE AND GROOVE
CIR	CIRCLE			OPNG.	OPENING	T.C.	TOP OF CURB
CJ	CONTROL JOINT	G.	GAS	OPP.	OPPOSITE	TD	TRENCH DRAIN
CL	CENTERLINE	GA.	GAGE	OVHD	OVERHEAD	TECH	TECHNICAL
CLG	CEILING	GALV.	GALVANIZED			TEL.	TELEPHONE
CLO	CLOSET	GB	GRAB BAR	PART.	PARTITION	TEMP.	TEMPERATURE
CLRM	CLASSROOM	G.I.	GALVANIZED IRON	PB	PULL BOX	T.G.	TOP OF GRATE
CMT	CERAMIC MOSAIC TILE	GL.	GLASS	PBD	PARTICLEBOARD	THK	THICK
CMU	CONCRETE MASONRY UNIT	GLU.LAM.	GLUE LAMINATED	PC	PORTLAND CEMENT	THRES.	THRESHOLD
CND	CONDUIT	GND.	GROUND	PD	PLANTER DRAIN	THRU	THROUGH
CO	CLEANOUT	GPM	GALLONS PER MINUTE	PERF	PERFORATED	TKBD	TACKBOARD
COL	COLUMN	GR.	GRADE	PERP	PERPENDICULAR	T.O.P.	TOP OF PARAPET
COMB	COMBINATION	GYP.	GYPSUM	PF	PAINT FLAT	TOT	TOTAL
CONC	CONCRETE	H.B.	HOSE BIBB	PG	PAINT GLOSS	T.P.	TOP OF PAVING
CONF	CONFERENCE	HCN	HOLLOW CORE NATURAL FINISH	P.H.	PANIC HARDWARE	TRNSF.	TRANSFORMER
CONN	CONNECTION	HCP	HOLLOW CORE PAINT FINISH	PIV	POST INDICATOR VALVE	TW	TOP OF WALL
CONT	CONTINUOUS	HDBD.	HARDBOARD	P.L.	PROPERTY LINE	TYP.	TYPICAL
CONTR	CONTRACTOR	HDR	HEADER	PL.	PLATE		
COORD	COORDINATE	HDW.	HARDWARE	P.LAM.	PLASTIC LAMINATE	UGND	UNDERGROUND
CORR	CORRIDOR	HDWD.	HARDWOOD	PLAS.	PLASTER	UNFIN.	UNFINISHED
COV	COVER	HGT.	HEIGHT	PLAT.	PLATFORM	U.N.O.	UNLESS NOTED OTHERWISE
CP	CONTROL PANEL	H.M.	HOLLOW METAL	PLBG	PLUMBING	U.O.S.	UNDERSIDE OF STRUCTURE
CR	CONDENSATE RETURN	HORIZ.	HORIZONTAL	PLF	POUNDS PER LINEAR FOOT	UR.	URINAL
CSWK	CASEWORK	HP	HORSEPOWER	PLYWD.	PLYWOOD	UTIL	UTILITY
CT	CERAMIC TILE	HR.	HOUR	PNL	PANEL		
CTSK	COUNTERSUNK	HTG.	HEATING	POS	POSITIVE	V	VOLT
CTV	CABLE TELEVISION	HTWR	HOT WATER RETURN	PR.	PAIR	VAC	VACUUM
CW	COLD WATER	HTWS	HOT WATER SUPPLY	PREFAB	PREFABRICATED	VAV	VARIABLE AIR VOLUME
		HVAC	HEATING, VENTILATING, AIR CONDITIONING	PREFIN	PREFINISHED	V.C.T.	VINYL COMPOSITION TILE
DBL	DOUBLE	HVY	HEAVY	PRELIM	PRELIMINARY	VERT.	VERTICAL
DEMO	DEMOLITION	HW	HOT WATER	PROJ	PROJECT	VEST.	VESTIBULE
DEPT	DEPARTMENT			PSF	POUNDS PER SQUARE FOOT	VFWC	VINYL FABRIC WALL COVERING
DET	DETAIL			PSG	PAINT SEMI-GLOSS		
DF	DRINKING FOUNTAIN	I.D.	INSIDE DIAMETER	PSI	POUNDS PER SQUARE INCH	W	WATT
DG	DECOMPOSED GRANITE	I.E.	INVERT ELEVATION	PVC	POLYVINYL CHLORIDE	W/	WITH
DIA	DIAMETER	INSUL.	INSULATION			W.C.	WATER CLOSET
DIM	DIMENSION	INT.	INTERIOR			WD.	WOOD
DISP.	DISPENSER	INV.	INVERT	Q.T.	QUARRY TILE	WDW.	WINDOW
DIST.	DISTANCE	IW	IRRIGATION WATER	QTY	QUANTITY	WHSE	WAREHOUSE
DIV.	DIVISION					WL	WIND LOAD
D.L.	DEAD LOAD	JAN.	JANITOR			WLD	WELDED
DN.	DOWN	JCT.	JUNCTION			WP	WORKING POINT
DS.	DOWN SPOUT	JT.	JOINT			WPG	WATERPROOFING
DWG.	DRAWING					WR	WATER RESISTANT
						WSCT.	WAINSCOT
						WT	WEIGHT
						W.W.F.	WELDED WIRE FABRIC
						XFMR	TRANSFORMER

SUMMARY OF WORK

THE PROJECT CONSISTS OF THE REMOVAL OF (9) DISTRICT OWNED 24 x 40 MODULAR CLASSROOM BUILDINGS, PLACEMENT OF (1) PRE-CHECKED 16' x 40' SHADE STRUCTURE, AND RELOCATION OF (3) 24 x 40 MODULAR BUILDINGS FROM OTHER GUSD SCHOOL SITES.

ALSO, (E) 24 x 60 PORTABLES NO. 4 AND NO. 5 CURRENTLY ON THE SITE ARE FOR CERTIFICATION ONLY. SEE STRUCTURAL DRAWINGS AND DSA REH #03-10073.

THE WORK ALSO INCLUDES SITE PAVING, MECHANICAL, PLUMBING AND ELECTRICAL WORK.

GENERAL NOTES

ALL WORK TO CONFORM TO 2016 EDITION TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR)

CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY ADDENDA OR CONSTRUCTION CHANGE DOCUMENTS APPROVED BY THE DIVISIONS OF THE STATE ARCHITECT PRIOR TO FABRICATION AND INSTALLATION, AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, CCR.

A 'DSA CERTIFIED' PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE (PART 1, TITLE 24 CCR). INSPECTOR SHALL HAVE CLASS (3) CERTIFICATION, MINIMUM.

A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE SCHOOL BOARD SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT.

GRADING PLANS, DRAINING IMPROVEMENTS, ROAD AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.

THE PROVISIONS OF CFC AND CBC CH. 33 SHALL BE ENFORCED ON THIS PROJECT.

PROJECT DIRECTORY

OWNER
GLENDALE UNIFIED SCHOOL DISTRICT
349 WEST MAGNOLIA
GLENDALE, CA 91204
T : (818) 507-0201

ARCHITECT
tBP/ARCHITECTURE
4611 TELLER AVENUE
NEWPORT BEACH, CA 92660
T : (949) 673-0300 F : (949) 732-3895

CIVIL ENGINEER
VCA ENGINEERS, INC.
3951 MEDFORD STREET
LOS ANGELES, CA 90063
T : (323) 729-6098 F : (323) 729-6043

STRUCTURAL ENGINEER
VCA ENGINEERS, INC.
2151 MICHELESON DRIVE
SUITE 242
IRVINE, CA 92612
T : (949) 679-0870 F : (949) 679-9370

MECHANICAL ENGINEER
POCOCK DESIGN SOLUTIONS INC.
14451 CHAMBERS ROAD
SUITE 210
TUSTIN, CA 92780
T : (949) 417-3903 F : (949) 419-1393

ELECTRICAL ENGINEER
FBA ENGINEERING
150 PAULARINO SUITE A120
COSTA MESA, CA 92626
T : (949) 852-9995 F : (949) 852-1857

PORTABLE NOTES

THE DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE SHALL SUBMIT A LETTER CERTIFYING THAT THE EXITING BUILDING CONFORMS THE ORIGINALLY APPROVED PLANS AND SPECIFICATIONS AND HAS NOT SUFFERED STRUCTURAL DETERIORATION OR BEEN STRUCTURALLY ALTERED PER DSA IR 16-1.13

THE FOLLOWING DOCUMENTS SHALL BE ON THE JOBSITE PRIOR TO INSTALLATION OF THE UNIT(S):
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 IR 16-1.13 AND INCLUDE THE FOLLOWING FORMATION ON ID TAG OF SHOP FABRICATED RELOCATABLE STRUCTURES:
1. THE DSA APPLICATION NUMBER AND CBC EDITION UNDER WHICH THE BUILDING CONSTRUCTION WAS AUTHORIZED;
2. THE MANUFACTURER OR BUILDER'S NAME;
3. THE SERIAL NUMBER;
4. THE DESIGN CLIMATE ZONES;
5. THE DESIGN LIVE LOADS FOR THE ROOF AND FLOORS;
6. THE DESIGN WIND SPEED AND EXPOSURE CATEGORY;
7. THE SEISMIC DESIGN PARAMETER Ss.

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

Statement of General Conformance

(Application No. A# 03-119149 **File No.** 19-41 **)**

☒ The drawings or sheets listed on the cover or index sheet [marked by asterisk (*)]
☐ This drawing, page of specifications/calculations

have been prepared by other design 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.

This Statement of General Conformance "shall not be construed as relieving me of my rights, duties, and responsibilities under Sections 17302 and 81138 of the Education Code and Sections 4-336, 4-341 and 4-344" of Title 24, Part 1. (Title 24, Part 1, Section 4-317 (b))

I find that: ☒ All drawings or sheets listed on the cover or index sheet ☐ This drawing or page

☒ is/are in general conformance with the project design, and ☒ has/have been coordinated with the project plans and specifications.	☐ is/are in general conformance with the project design intent, and ☐ has/have been coordinated with the project plans and specifications.
10/2/2017	
Signature / Date	Signature / Date
Architect or Engineer designated to be in general responsible charge	Architect or Engineer delegated responsibility for this portion of the work
Hung L. Cheng	
Print Name	Print Name
C34187 / April 30, 2019	
License Number / Expiration Date	License Number / Expiration Date

EXISTING MODULAR BUILDING INFORMATION

CLASSROOM #	SIZE	MANUFACTURER	SERIAL NO.	PC #	SITE DSA NO.	RELOCATED FROM
1	24' x 40'	MODTECH	25866 / 25867	67333	03-113058	FRANKLIN
2	24' x 40'	MODTECH	12342 / 12343	67333	03-113058	FRANKLIN
3	24' x 40'	AURORA	8033 / 8034	51667	03-113058	FRANKLIN
4	24' x 60'	MODTECH	35909 / 35910	304	★★	-
5	24' x 60'	MODTECH	35911 / 35912	304	★★	-

★★ REPORT NO.: DSA REH # 03-10073

EARTHQUAKE DESIGN DATA

2016 CBC 1603.1.5

SITE COORDINATES: 34.226°N, 118.246°W
1. RISK CATEGORY: II
2. SEISMIC IMPORTANCE FACTOR: 1.25
3. MAPPED SPECTRAL RESPONSE ACCELERATION PARAMETERS
   Ss = 2.718 g S1 = 0.971 g
4. SITE CLASS: D
5. DESIGN SPECTRAL RESPONSE ACCELERATION PARAMETERS
   SDS = 1.812 g SD1 = 0.971 g

GEOTECHNICAL INFORMATION
1. ALLOWABLE SOIL BEARING PRESSURE = 1500 PSF

WIND DESIGN DATA

2016 CBC 1603.1.4

1.	ULTIMATE DESIGN WIND SPEED	V=110 MPH
2.	RISK CATEGORY	III
3.	WIND EXPOSURE CATEGORY	C
4.	INTERNAL PRESSURE COEFFICIENT	-0.18
5.	ENCLOSURE CLASSIFICATION	ENCLOSED BLDG. (PORTABLE/RELOCATABLE)

APPLICABLE CODES

APPLICABLE CODES AS OF JANUARY 1, 2017:

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

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

2016 CALIFORNIA ELECTRICAL CODE (C.E.C.), PART 3, TITLE 24 C.C.R. (2014 NATIONAL ELECTRICAL CODE OF THE NATIONAL FIRE PROTECTION ASSOCIATION, NFPA)

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

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

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

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

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

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

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

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

TITLE 8 C.C.R., DIVISION 1, CHAPTERS 4 AND 6, ELEVATOR SAFETY ORDERS (INCLUDING ASME A17.1-2004, SAFETY CODE FOR ELEVATORS AND ESCALATORS)

TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS

PARTIAL LIST OF APPLICABLE STANDARDS

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

NFPA 13	AUTOMATIC SPRINKLER SYSTEM (CALIFORNIA AMENDED)	2016 EDITION
NFPA 14	STANDPIPE SYSTEMS (CALIFORNIA AMENDED)	2016 EDITION
NFPA 17	DRY CHEMICAL EXTINGUISHING SYSTEMS	2013 EDITION
NFPA 17A	WET CHEMICAL EXTINGUISHING SYSTEMS	2013 EDITION
NFPA 20	STATIONARY PUMPS	2016 EDITION
NFPA 24	PRIVATE FIRE SERVICE MAINS (CALIFORNIA AMENDED)	2016 EDITION
NFPA 72	NATIONAL FIRE ALARM AND SIGNALING CODE (CALIFORNIA AMENDED) (NOTE: SEE UL STANDARD 1971 FOR "VISUAL DEVICES")	2016 EDITION
NFPA 80	FIRE DOOR AND OTHER OPENING PROTECTIVE	2016 EDITION
NFPA 253	CRITICAL RADIANT FLUX OF FLOOR COVERING SYSTEMS	2006 EDITION
NFPA 2001	CLEAN AGENT FIRE EXTINGUISHING SYSTEMS (CALIFORNIA AMENDED)	2015 EDITION

REFERENCE SYMBOLS

FULL BUILDING SECTION
A / A4 — LETTER ABOVE - SECTION; NUMBER BELOW - SHEET NUMBER
A / A4

PARTIAL BUILDING SECTION / WALL SECTION
B / A4 — LETTER ABOVE - SECTION; NUMBER BELOW - SHEET NUMBER

EXTERIOR ELEVATION
4 / A3 — NUMBER ABOVE - ELEVATION NUMBER; NUMBER BELOW - SHEET NUMBER

DETAIL
2 / 3.01 — NUMBER ABOVE - DETAIL NUMBER; NUMBER BELOW - SHEET NUMBER

MATERIAL SYMBOLS

EARTH | PLYWOOD | RIGID INSULATION
SAND & GROUT | FINISH WOOD | ACOUSTICAL CEILING PANEL/ TILE
CONCRETE | LATH & PLASTER
MASONRY | GYPSUM BOARD
STEEL | BATT INSULATION

SHEET INDEX

DRAWINGS TOTAL - 125

GENERAL (NO. OF DRAWINGS - 4)
T-1 COVER SHEET
T-2 SHEET INDEX, GENERAL NOTES
T-3 CODE ANALYSIS
T-4 FIRE ACCESS SITE PLAN

★ CIVIL DRAWINGS (NO. OF DRAWINGS - 11)
C-1.0 GENERAL NOTES AND ABBREVIATIONS
C-1.1 EXISTING CONDITIONS
CD-1.0 SITE DEMOLITION PLAN
C-2.0 SITE CONTROL PLAN
C-3.0 SITE GRADING PLAN
C-4.0 SITE UTILITY PLAN
C-4.1 STORM DRAIN PROFILE
C-4.2 SANITARY SEWER PROFILE
C-5.0 MISCELLANEOUS DETAILS
C-5.1 MISCELLANEOUS DETAILS
C-5.2 MISCELLANEOUS DETAILS

ARCHITECTURAL DRAWINGS (NO. OF DRAWINGS - 13)
AS-1 OVERALL CAMPUS SITE PLAN
AS-2 DEMOLITION SITE PLAN
AS-3 ENLARGED SITE PLAN
AS-4 SITE DETAILS
AS-5 SITE DETAILS
A1-1 FLOOR PLAN
A2-1 REFLECTED CEILING PLAN
A3-1 ENLARGED TOILET PLANS
A4-1 INTERIOR ELEVATIONS
A5-1 WALL & CEILING DETAILS
A6-1 DOOR SCHEDULE & DETAILS
A7-1 SIGNAGE DETAILS
A8-1 FINISH SCHEDULE

★ STRUCTURAL DRAWINGS (NO. OF DRAWINGS - 5)
SA-0.1 GENERAL NOTES
SA-0.2 GENERAL NOTES
SA-0.3 TYPICAL DETAILS
SA-1.0 FOUNDATION PLAN FOR CLASSROOM 1,2, & 3
SA-2.0 FOUNDATION DETAILS FOR CLASSROOM 1,2, & 3

★ MECHANICAL DRAWINGS (NO. OF DRAWINGS - 3)
M0.1 MECHANICAL TITLE AND GENERAL NOTES
M2.1 MECHANICAL FLOOR PLAN
M3.1 MECHANICAL DETAILS

★ PLUMBING DRAWINGS (NO. OF DRAWINGS - 3)
P0.1 PLUMBING LEGEND, SCHED. & GEN. NOTES
P1.0 PLUMBING SITE PLAN
P2.1 PLUMBING FLOOR PLAN

★ ELECTRICAL DRAWINGS (NO. OF DRAWINGS - 10)
E-1 SYMBOL LIST, NOTES AND DETAILS
E-2.1 SITE ELECTRICAL PLANS AND DETAILS
E-2.2 SITE ELECTRICAL PLANS AND DETAILS
E-3 SINGLE LINE DIAGRAM AND DETAILS
E-4 INDOOR TITLE 24
E-5 OUTDOOR TITLE 24
E-6 POWER DISTRIBUTION TITLE 24
E-7 LIGHTING CONTROL DIAGRAM
E-8 SPECIFICATIONS
E-9 SPECIFICATIONS

★ 24x40 MODULAR CLASSROOM (NO. OF DRAWINGS - 20)
BUILDING NO. 1 & NO. 2 MODTECH PC#67333 A#03-113058
A0 TITLE SHEET
A1.0 FLOOR PLAN
AA2.0 ROOF PLAN
AA3.0 EXTERIOR ELEVATIONS
A4.0 INTERIOR ELEVATIONS
A5.0 FINISH SCHEDULE
A6.0 ARCHITECTURAL DETAILS
A6.1 ARCHITECTURAL DETAILS
A7.0 REFLECTED CEILING PLAN
A7.1 REFLECTED CEILING DETAILS
S1.0 FLOOR FRAMING PLAN
SA2.0 ROOF FRAMING PLAN
SA3.0 STRUCTURAL ELEVATIONS AND DETAILS
SA3.1 FRAMING ELEVATIONS AND DETAILS
S4.0 STRUCTURAL DETAILS
S5.0 WALL FRAMING
S5.1 WALL FRAMING DETAILS
S5.2 WALL FRAMING DETAILS
M1.0 HVAC PLAN
E1.0 ELECTRICAL PLAN

★ 24x40 MODULAR CLASSROOM (NO. OF DRAWINGS - 10)
BUILDING NO. 3 AURORA PC #51667 A#03-113058
0 COVER SHEET, BUILDING DATA, SHEET INDEX
1 FLOOR PLAN, ROOF PLAN, ELEVATIONS
3 BUILDING SECTIONS & TYPICAL WALLS
4 TYPICAL DETAILS
5 ROOF FRAMING, FLOOR FRAMING, STRUCTURAL LAYOUT
6 TYPICAL DETAILS
7 REFLECTED CEILING PLAN
8 ELECTRICAL POWER PLAN, LIGHTING PLAN, PANEL SCHEDULE
9 GENERAL NOTES & SPECIFICATIONS
M-1 AIR CONDITIONING PLAN

★ 16x40 SHADE STRUCTURE (NO. OF DRAWINGS - 11)
POLIGON PC #02-113591
PD1.0 GENERAL NOTES
PD1.1 SPECIAL INSPECTIONS
PD2.0 FOUNDATION PLAN
PD3.0 FRAMING PLAN
PD4.0 FRAME CONNECTION DETAILS
PD5.0 SECTION DETAILS
PD6.0 PLATE DETAILS
PD6.1 PLATE DETAILS
PD7.0 ARCHITECTURAL VIEWS
PD8.1 ROOF CONNECTION DETAILS
PD9.0 MISC. DESIGN OPTIONS

EXISTING PORTABLE FOR CERTIFICATION

★ STRUCTURAL DRAWINGS (NO. OF DRAWINGS - 12)
S-0.0 GENERAL NOTES
S-0.1 MATERIAL SCHEDULE
S-1.0 FLOOR FRAMING PLAN
S-2.1 ROOF FRAMING PLAN
S-3.0 FRAMING ELEVATIONS AND DETAILS
S-3.1 STRUCTURAL DETAILS
S-4.0 STRUCTURAL DETAILS
S-5.0 WALL FRAMING PLAN
S-5.1 FRAMING DETAILS
S-5.2 WALL FRAMING DETAILS
FB-1.1 FOUNDATION DETAILS
FB-2.1 FOUNDATION DETAILS (BELOW GRADE)

★★ 24x60 MODULAR CLASSROOM (NO. OF DRAWINGS -23)
BUILDING NO. 4 & NO. 5 MODTECH PC 304
A.0.0 COVER SHEET
A1.2 FLOOR PLAN
A2.2 ROOF PLAN
A3.2 EXTERIOR ELEVATIONS
A4.2 INTERIOR ELEVATIONS
A5.0 FINISH SCHEDULE
A6.0 ARCHITECTURAL DETAILS
A6.1 TYPICAL DETAILS
A7.2 REFLECTED CEILING PLAN
A7.4 REFLECTED CEILING PLAN DETAILS
FB1.1 FOUNDATION PLAN
FB2.1 FOUNDATION DETAILS (BELOW GRADE)
S0.1 MATERIAL SCHEDULE
S1.0 FLOOR FRAMING PLAN
S2.1 ROOF FRAMING PLAN
S3.0 FRAMING ELEVATIONS AND DETAILS
S3.1 STRUCTURAL DETAILS
S4.0 STRUCTURAL DETAILS
S5.0 WALL FRAMING
S5.1 FRAMING DETAILS
S5.2 WALL FRAMING DETAILS
M1.2 MECHANICAL (HVAC)
E1.3A ELECTRICAL PLAN

tBP architecture planning interiors
tBP/Architecture
4611 Teller Avenue
Newport Beach, CA 92660
ph: 949.673.0300 fx: 949.732.3895
architect

consultant

FILE NO.: 1941
IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
DEPARTMENT OF GENERAL SERVICES
A# 03-119149
APPROVED
DATE JAN 7 2019

DEPARTMENT OF GENERAL SERVICES
DSA Los Angeles Regional Office
700 N. Alameda Street, Suite 5-500
Los Angeles, California 90012
ph: (213)897-3995 fx: (213)897-3159/0726

CLOUD PRESCHOOL RELOCATABLES

4444 CLOUD AVENUE
LA CRESCENTA, CALIFORNIA 91214

GLENDALE UNIFIED SCHOOL DISTRICT

owner

tBP project number : 20778.10

file name:

drawn by: checked by:

date: August 14, 2018

Rev: date: description:

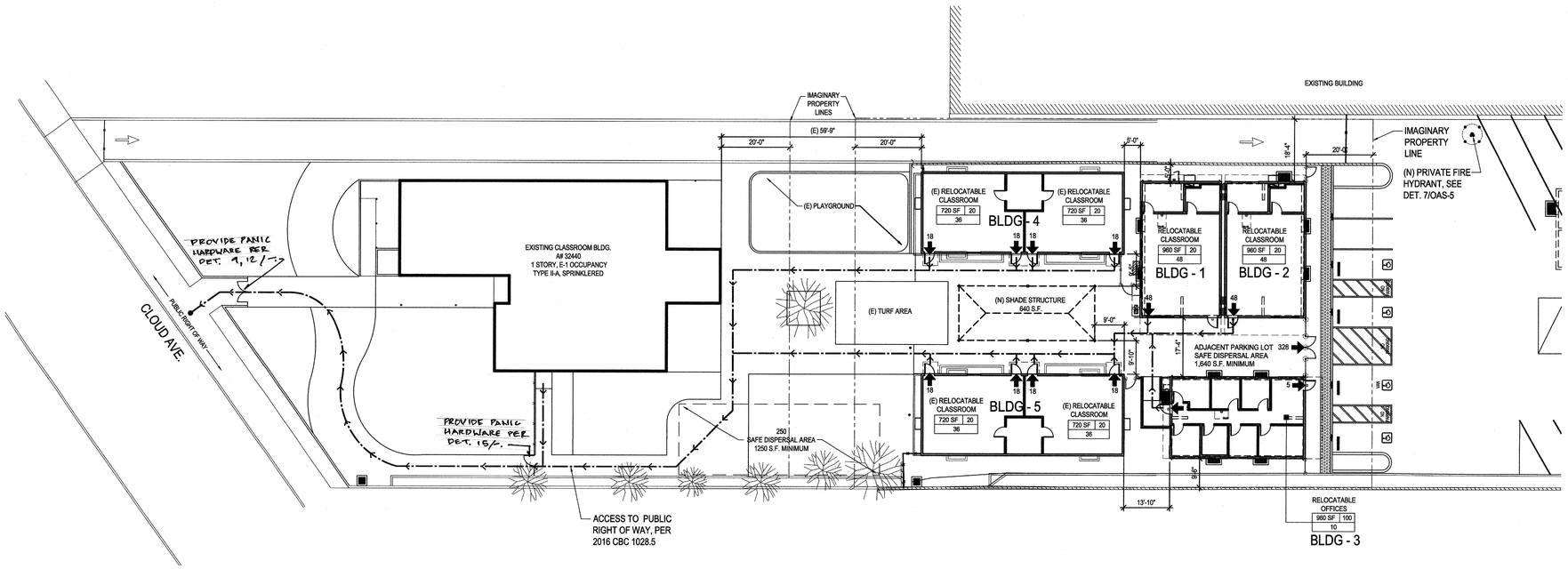
drawing title:

SHEET INDEX, GENERAL NOTES

drawing no.:

T-2

drawing of



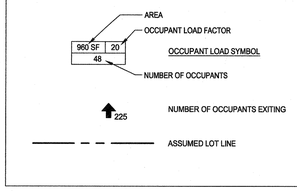
CODE ANALYSIS - SITE PLAN

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

NORTH

true north

CODE ANALYSIS - LEGEND



SUMMARY OF WORK

THE PROJECT CONSISTS OF THE REMOVAL OF (9) DISTRICT OWNED 24 x 40 MODULAR CLASSROOM BUILDINGS, PLACEMENT OF (1) PRE-CHECKED 16' x 40' SHADE STRUCTURE, AND RELOCATION OF (3) 24 x 40 MODULAR BUILDINGS FROM OTHER GUSD SCHOOL SITES.

ALSO, (E) 24 x 60 PORTABLES NO. 4 AND NO. 5 CURRENTLY ON THE SITE ARE FOR CERTIFICATION ONLY. SEE STRUCTURAL DRAWINGS AND DSA REH #03-10073.

THE WORK ALSO INCLUDES SITE PAVING, MECHANICAL, PLUMBING AND ELECTRICAL WORK.

CODE ANALYSIS

OCCUPANCY GROUP: E
CONSTRUCTION TYPE: TYPE V-B, NON-SPRINKLERED
OCCUPANCY LOAD: 250

ALLOWABLE HEIGHT PER TABLE 504.3 & 504.4	ALLOWABLE	ACTUAL
NUMBER OF STORIES	1	1
BUILDING HEIGHT	40'-0"	12'-0"

ALLOWABLE BUILDING AREA	
BASIC ALLOWABLE AREA A(t) PER TABLE 506.2	9,500 S.F.
FRONTAGE INCREASE:	NOT USED
SPRINKLER INCREASE:	NOT USED
TOTAL ALLOWABLE AREA A(a)	9,500 S.F.
ACTUAL BUILDING AREA	6,400 S.F.

FIRE RESISTANCE RATING REQUIREMENTS FOR TYPE V-B CONSTRUCTION (TABLE 601)	
STRUCTURAL FRAME	0 HR.
EXTERIOR NON-BEARING WALLS	TABLE 602
INTERIOR NON-BEARING PARTITIONS	0 HR.
FLOOR CONSTRUCTION	0 HR.
ROOF CONSTRUCTION	0 HR.
SHAFT ENCLOSURES PER 708	N/A

FIRE RESISTANCE OF EXTERIOR WALLS BASED ON FIRE SEPARATION DISTANCE (TABLE 602)	
TYPICAL, ALL WALLS FIRE SEPARATION DISTANCE > 10'	0 HR.

MAXIMUM AREA OF EXTERIOR WALL OPENINGS BASED ON FIRE SEPARATION DISTANCE (TABLE 705.8)	
NON-RATED EXTERIOR WALLS	NO LIMIT

APPLICABLE CODES

APPLICABLE CODES AS OF JANUARY 1, 2017:

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

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

2016 CALIFORNIA ELECTRICAL CODE (C.E.C.), PART 3, TITLE 24 C.C.R.
(2014 NATIONAL ELECTRICAL CODE OF THE NATIONAL FIRE PROTECTION ASSOCIATION, NFPA)

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

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

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

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

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

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

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

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

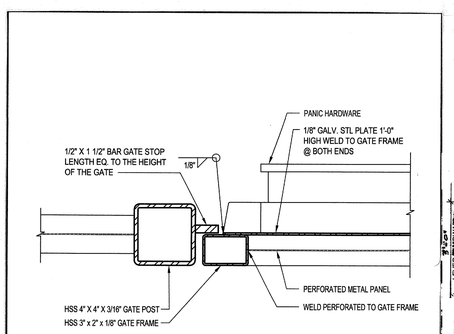
TITLE 8 C.C.R., DIVISION 1, CHAPTERS 4 AND 6, ELEVATOR SAFETY ORDERS (INCLUDING ASME A17.1-2004, SAFETY CODE FOR ELEVATORS AND ESCALATORS)

TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS

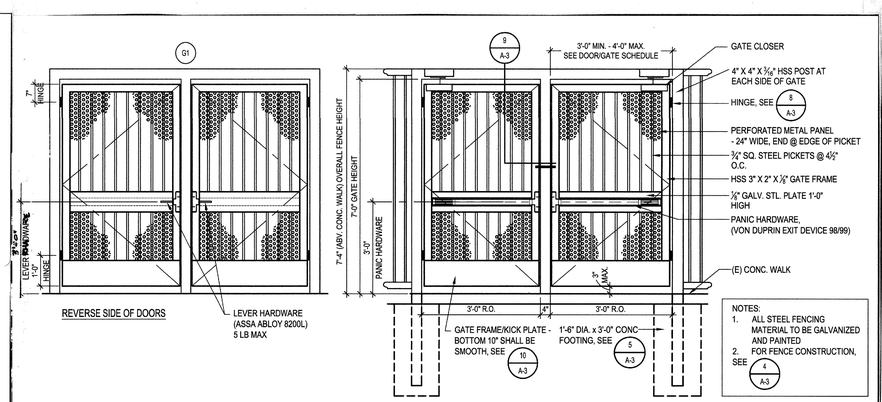
PARTIAL LIST OF APPLICABLE STANDARDS

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

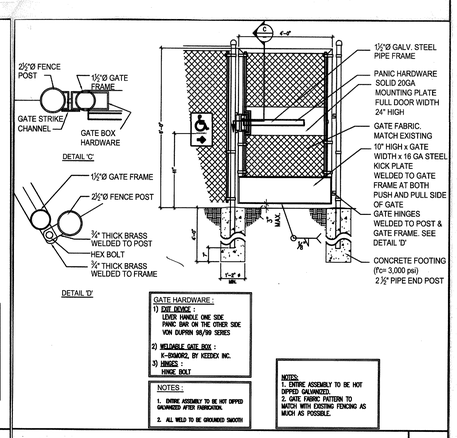
NFPA 13	AUTOMATIC SPRINKLER SYSTEM (CALIFORNIA AMENDED)	2016 EDITION
NFPA 14	STANDPIPE SYSTEMS (CALIFORNIA AMENDED)	2016 EDITION
NFPA 17	DRY CHEMICAL EXTINGUISHING SYSTEMS	2013 EDITION
NFPA 17A	WET CHEMICAL EXTINGUISHING SYSTEMS	2013 EDITION
NFPA 20	STATIONARY PUMPS	2016 EDITION
NFPA 24	PRIVATE FIRE SERVICE MAINS (CALIFORNIA AMENDED)	2016 EDITION
NFPA 72	NATIONAL FIRE ALARM AND SIGNALING CODE (CALIFORNIA AMENDED) (NOTE: SEE UL STANDARD 1971 FOR "VISUAL DEVICES")	2016 EDITION
NFPA 80	FIRE DOOR AND OTHER OPENING PROTECTIVE	2016 EDITION
NFPA 253	CRITICAL RADIANT FLUX OF FLOOR COVERING SYSTEMS	2006 EDITION
NFPA 2001	CLEAN AGENT FIRE EXTINGUISHING SYSTEMS (CALIFORNIA AMENDED)	2015 EDITION



PANIC HARDWARE @ ORNAMENTAL GATE — SCALE: 3" = 1'-0" — 9



ORNAMENTAL ACCESSIBLE DOUBLE GATE DETAIL — SCALE: 1/2" = 1'-0" — 12



INSIDE SCHOOL FENCE GATE WITH PANIC — SCALE: 3/8" = 1'-0" — 15

tBP architecture planning interiors
tBP/Architecture
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Newport Beach, CA 92660
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Rev:	date:	description:

drawing title:
CODE ANALYSIS

drawing no.:
T-3
drawing of

CRESCENTA VALLEY WATER DISTRICT
FIRE FLOW TEST FORM

REQUEST

Applicant's Name & Address: CAROLYN LOUGHREY / tBP Architecture, 4611 TELLER AVENUE, NEWPORT BEACH, CA 92660

Applicant's Telephone: (949) 673-0300 x 222, cloughrey@tbparchitecture.com

☐ Property Owner or ☐ Owner's Representative

Address of Building Requiring Fire Flow Test: 4444 Cloud Avenue, La Crescenta

Zoning ____ Type of Construction: Type V-B

Occupancy or Use: Preschool - Group E. Fire Flow Requirements 2000 gpm @ 2 hr. duration as required by L.A. County/Glendale Fire Department

Signature of Applicant: [signature] Date: 3 / 20 / 2018

District Approval of Flow Test: [signature] Date: 9/28/17 ☑ Fee Paid

RESULTS: To Be Completed By Tester:		RESULTS: To Be Completed By District:	
Flow Hydrant Distance from Structure	25	Flow Hydrant No.	Pg 15 FH #39
Flow Hydrant Static Pressure	69	Flow Hydrant Street	Cloud
Flow Hydrant Pitot Gauge Read (psi)	80	Flow Hydrant Cross Street	Community
Flow Hydrant Orifice Size (in.)	2.5"	Flow Hydrant Dist. to Cross Street	280'
Flow Rate (gpm)	1,501	Flow Hydrant Size	6"x4"x2.5"
Flow Rate @ 20 psi Residual	4,608	Flow Hydrant Main Size	8" CL & W
Residual Hydrant Static Pressure (psi)	76	Residual Hydrant No.	Pg 21 FH #1
Residual Hydrant Residual Pressure (psi)	69	CVWD Witness	[signature]
Tester's Name	Jaysen Ortega	Flow Test Date	3/30/18
Tester's Company	Crescenta Valley Water	Comments	[illegible]
Tester's Phone	(626) 319-1138		

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: Glendale Unified School District
Project Name/School: Cloud Preschool
Project Address: 4444 Cloud Ave., La Crescenta, CA 91214

LOCAL FIRE AUTHORITY (LFA)

LFA Agency Name: FIRE DEPARTMENT FIRE PREVENTION ENGINEERING
LFA Reviewer Name: Title: FPEA II
Email: APPROVED Telephone Number: (323) 890-4125

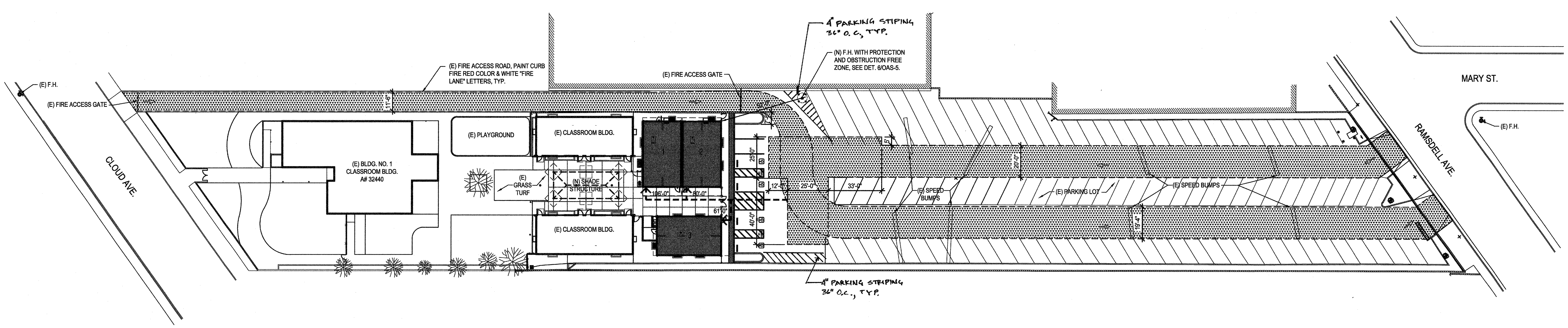
I have reviewed and responded to the applicable items for this project as listed below.
Note: Only sign this form when it is imaged onto the site plan. A loose form is not acceptable to DSA.

LFA Reviewer's Signature: [signature] Date: MAY 10 2018

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. Signature of School District Official: ____ Date: ____ Print the School District Official's Name: ____			X	
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):				

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



0 7.5' 15' 30' 60'

FIRE ACCESS SITE PLAN
SCALE: 1"=30'

project north / true north

FIRE DEPARTMENT NOTES

FIRE DEPARTMENT ACCESS SIGNAGE MAP -
PLANS SHOWING THE FIRE DEPARTMENT ACCESS SIGNAGE MAP DETAILS SHALL BE SUBMITTED TO THE FIRE DEPT. FOR APPROVAL WITHIN 60 DAYS. THE SIGNAGE SHALL BE WEATHER RESISTANT AND OF AN APPROVED SIZE, AND SHALL SHOW THE FOLLOWING INFORMATION:

1. BUILDINGS AND BUILDING IDENTIFICATION
2. FIRE ACCESS ROAD(S)
3. APPROVED ACCESS WALKWAYS LEADING FROM FIRE APPARATUS ACCESS ROADS TO EXTERIOR OPENINGS
4. FIRE HYDRANTS
5. KNOX BOXES
6. FENCES AND GATES (VEHICLE AND PERSON GATES
7. FIRE DEPARTMENT CONNECTION AND DOUBLE DETECTOR CHECK
8. OTHER INFORMATION PERTINENT TO FIRE DEPARTMENT ACCESS

THE FIRE DEPARTMENT ACCESS SIGNAGE SHALL BE INSTALLED PRIOR TO THE NEW BUILDING CONSTRUCTION COMMENCING TO FACILITATE FIRE DEPARTMENT ACCESS DURING CONSTRUCTION. THIS SIGNAGE SHALL ALSO REMAIN IN PLACE UPON COMPLETION OF CONSTRUCTION AND SHALL BE UPDATED AS NEEDED TO FACILITATE FIRE DEPARTMENT ACCESS.

FIRE APPARATUS ACCESS ROADS AND WATER SUPPLY FOR FIRE PROTECTION SHALL BE INSTALLED AND MADE SERVICEABLE PRIOR TO AND DURING THE TIME OF CONSTRUCTION EXCEPT WHEN APPROVED ALTERNATIVE METHODS OF PROTECTION ARE PROVIDED. (SEE CFC SECTION 501.4)

KNOX BOX - THE MOUNTING HEIGHT FOR THE KNOX BOX SHALL NOT EXCEED 6'-0" ABOVE THE GROUND LEVEL / FINISHED FLOOR. PROVIDE (3) SETS OF KEYS (WITH PERMANENT ENGRAVED IDENTIFICATION) FOR ALL EXTERIOR DOORS, GATES AND FIRE ALARM PANEL AND OTHERS AS DIRECTED BY THE FIRE INSPECTOR.

ADDRESS NUMBERS - APPROVED ADDRESS NUMBERS, BUILDING NUMBERS OR APPROVED BUILDING IDENTIFICATION SHALL BE PLACED IN A POSITION THAT IS PLAINLY LEGIBLE AND VISIBLE FROM THE STREET, ROAD, ALLEY AND WALKWAYS GIVING ACCESS TO AND WITHIN THE PROPERTY. THESE NUMBERS SHALL CONTRAST WITH THEIR BACKGROUND. ADDRESS NUMBERS SHALL BE ARABIC NUMERALS OR ALPHABET LETTERS. NUMBERS SHALL BE A MIN. OF 4-INCHES (102 MM) HIGH W/ MIN. STROKE WIDTH 0.5 INCH (12.7 MM) AND SHALL BE ILLUMINATED IN AN APPROVED MANNER (IF NOS. ARE ON THE EXTERIOR). NUMBER HEIGHT AND STROKE WIDTH SHALL BE INCREASED AS NEEDED FOR LEGIBILITY BASED ON VISIBILITY DISTANCE.

KEY BOX MAINTENANCE . THE OPERATOR OF THE BUILDING SHALL IMMEDIATELY NOTIFY THE FIRE CODE OFFICIAL. AND PROVIDE THE NEW KEY WHEN A LOCK IS CHANGED OR REKEYED. THE KEY TO SUCH LOCK SHALL BE SECURED IN THE KEY BOX. (SEE CFC SECTION 506.2)

CONSTRUCTION OF GATES SHALL BE OF MATERIALS THAT ALLOW MANUAL OPERATION BY ONE PERSON.
(SEE CFC APPENDIX D, D103.5 CRITERIA 3)

FIRE DEPARTMENT VEHICULAR ACCESS ROADS MUST BE INSTALLED AND MAINTAINED IN A SERVICEABLE MANNER PRIOR TO AND DURING THE TIME OF CONSTRUCTION. (FIRE CODE 501.4)

FIRE DEPARTMENT VEHICULAR ACCESS ROADS SHALL BE HARD SCAPE ALL WEATHER ACCESS IN ACCORDANCE WITH THE DEPARTMENT'S ALL WEATHER ACCESS REQUIREMENTS (C.F.C.).

FIRE DEPARTMENT VEHICULAR ACCESS ROADS MUST BE INSTALLED AND MAINTAINED IN A SERVICEABLE MANNER PRIOR TO AND DURING THE TIME OF CONSTRUCTION. (FIRE CODE 501.4)

FIRE DEPARTMENT VEHICULAR ACCESS ROADS SHALL BE HARD SCAPE ALL WEATHER ACCESS IN ACCORDANCE WITH THE DEPARTMENT'S ALL WEATHER ACCESS REQUIREMENTS. (LOS ANGELES COUNTY FIRE CODE 503.2.3)

ALL FIRE HYDRANTS SHALL MEASURE 6" x 4" x 2 1/2", BRASS OR BRONZE, CONFORMING TO AMERICAN WATER WORKS ASSOCIATION STANDARD C503, OR APPROVED EQUAL, AND SHALL BE INSTALLED IN COMPLIANCE WITH THE COUNTY OF LOS ANGELES FIRE DEPARTMENT REGULATION 8. (FIRE CODE 507.5 AND REGULATION 8)

BUILDING DESCRIPTION

BUILDING NO. 1 - EXISTING

CONSTRUCTION TYPE: TYPE II-A, SPRINKLERED
OCCUPANCY: E-1
HEIGHT: 1 STORY
AREA: 3,969 S.F.

(2) MODULAR BUILDINGS - EXISTING

TYPE OF CONSTRUCTION: TYPE V-B, NON-SPRINKLERED
OCCUPANCY: E-1
HEIGHT: 1 STORY
AREA: 2,880 S.F.

(3) MODULAR BUILDING - NEW

TYPE OF CONSTRUCTION: TYPE V-B, NON-SPRINKLERED
OCCUPANCY: E-1
HEIGHT: 1 STORY
AREA: 2,880 S.F.

(1) 16x40 SHADE STRUCTURE - NEW

TYPE OF CONSTRUCTION: TYPE V-B, NON-SPRINKLERED
OCCUPANCY: E-1
HEIGHT: 1 STORY
AREA: 640 S.F.

BUILDING DESCRIPTION

BUILDING AREA: 6,360 SF
BUILDING HEIGHT: 12'-0", NO PARAPET, SINGLE STORY
BUILDING USE: B & E OCCUPANCY, OFFICES & CLASSROOMS
CONSTRUCTION TYPE: TYPE V-B, NON-SPRINKLERED

FIRE FLOW ANALYSIS

2016 CALIFORNIA FIRE CODE TABLE BB105.1 - MIN. REQUIRED FIRE FLOW AND FLOW DURATION FOR BUILDINGS

FIRE AREA TYPE V-B	FIRE FLOW (GPM)	FLOW DURATION (HOURS)	REDUCTION FOR FIRE SPRINKLERS (GPM)	TOTAL FIRE FLOW REQUIRED (GPM)
6,400 S.F.	2,250	2	0	2,750

SITE PLAN LEGEND

- EXISTING FIRE DEPARTMENT VEHICULAR ACCESS LANE 20'-0" MINIMUM UNOBSTRUCTED WIDTH
- FIREFIGHTER ACCESS WALKWAY 5'-0" MINIMUM CLEAR WIDTH
- (E) FH — EXISTING FIRE HYDRANT
- DDC — DOUBLE DETECTOR CHECK VALVE
- PIV — POST INDICATOR VALVE
- FDC — FIRE DEPARTMENT CONNECTION
- POC — POINT OF CONNECTION

tBP architecture planning interiors
tBP/Architecture
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Newport Beach, CA 92660
ph: 949.673.0300 fx: 949.732.3895
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DEPARTMENT OF GENERAL SERVICES
DSA Los Angeles Regional Office
700 N. Alameda Street, Suite 5-500
Los Angeles, California 90012
ph: (213)897-3995 fx: (213)897-3159/0726

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GLENDALE UNIFIED SCHOOL DISTRICT

owner

tBP project number : 20778.10
file name:
drawn by: JG checked by:
date: August 14, 2018
Rev: date: description:

drawing title:
FIRE ACCESS SITE PLAN

drawing no.:
T-4
drawing of

GENERAL NOTES:

1. ALL WORK PERFORMED IN THIS CONTRACT SHALL CONFORM TO:
   A. PROJECT SPECIFICATIONS.
   B. THE LATEST EDITION AND SUPPLEMENTS OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (SSPWC).
   C. CITY OF GLENDALE STANDARDS.
   D. 2016 CALIFORNIA BUILDING CODE
2. ALL WORK SHALL COMPLY WITH THE REQUIREMENTS OF THE WORK SPECIFIED ON THE DRAWINGS AND WITHIN THE VARIOUS NOTES SHOWN HEREIN.
3. THE EXISTING CONDITIONS SHOWN DIAGRAMMATICALLY ON THE PLANS ORIGINATED FROM AS BUILT DRAWINGS AND FIELD SURVEY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VISIT THE JOB SITE AND VERIFY THE EXACT EXISTING CONDITIONS UNLESS CONCEALED BEFORE SUBMITTING HIS BID. ANY DISCREPANCY SHALL BE REPORTED IMMEDIATELY TO THE DISTRICT USING THE PROPER REQUEST FOR INFORMATION FORMS PRIOR TO SUBMITTING HIS BID FOR PROPER ACTION.
4. THE CONTRACTOR SHALL PROTECT ALL EXISTING STRUCTURES IN THE AREA OF WORK WHICH ARE NOT INCLUDED IN THIS CONSTRUCTION. ANY DAMAGE RESULTING FROM THIS WORK SHALL BE REPAIRED AND/OR REPLACED AT NO ADDITIONAL COST TO THE DISTRICT.

UNDERGROUND SERVICE ALERT:

5. BEFORE COMMENCING ANY EXCAVATION, THE CONTRACTOR SHALL OBTAIN AN UNDERGROUND SERVICE ALERT INQUIRY I.D. NUMBER BY CALLING 1-800-422-4133. TWO (2) WORKING DAYS SHALL BE ALLOWED AFTER THE I.D. NUMBER IS OBTAINED AND BEFORE THE EXCAVATION WORK IS STARTED THAT UTILITY OWNERS CAN BE NOTIFIED.

PROTECTION AND RESTORATION OF EXISTING IMPROVEMENTS:

6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF PUBLIC AND PRIVATE PROPERTY ADJACENT TO THE WORK PER SECTION 7-9 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (SSPWC).

REMOVALS:

7. CONTRACTOR SHALL FIELD VERIFY EXISTING STRUCTURES AND SUBSTRUCTURES, TEMPORARY FACILITIES, FENCE TO BE REMOVED WITHIN THE PROPERTY LINE. THE PROPOSED SCHOOL SITE MAY OR MAY NOT FULLY DEMOLISHED ABOVE AND BELOW GROUND. EXISTING FACILITIES WHICH ARE DISCOVERED DURING CONSTRUCTION (INCLUDING WALLS, FOOTINGS AND FOUNDATIONS, ETC) SHALL BE REPORTED TO AND COORDINATED WITH THE DISTRICT AS TO THEIR REMOVAL. CONTRACTOR WILL NOTIFY THE DISTRICT IN WRITING PRIOR TO COMMENCING THE WORK.
8. THE CONTRACTOR SHALL KEEP THE CONSTRUCTION AREA SUFFICIENTLY DAMPENED TO CONTROL DUST CAUSED BY WORK ACTIVITIES AS REQUIRED BY THE DISTRICT AND JURISDICTIONAL AGENCY.
9. ALL FILL OR BACKFILL SHALL BE COMPACTED TO 95% MAXIMUM DENSITY PER ASTM D-1557.
10. CONSTRUCTION STAKING AND ADJUSTMENTS FOR IMPROVEMENTS SHOWN ON THESE PLANS SHALL BE PERFORMED BY A LICENSED LAND SURVEYOR PAID FOR BY THE CONTRACTOR AND INCLUDED IN THE CONTRACT.
11. VOIDS RESULTING FROM REMOVAL WORK SHALL BE FILLED WITH SUITABLE MATERIALS APPROVED BY THE GEOTECHNICAL ENGINEER AND COMPACTED TO 95% MAXIMUM DENSITY PER ASTM D-1557.
12. UPON COMPLETION OF PROJECT, CONTRACTOR SHALL REMOVE ALL TEMPORARY FACILITIES, EXISTING CONSTRUCTION FENCING, APPURTENANCES, OFFICE TRAILERS FROM THE SITE, TEMPORARY UTILITIES. PAVEMENT SHALL BE PATCHED AND REPAIRED TO MATCH ADJACENT PAVEMENT; DAMAGED FEATURES OR FACILITIES SHOULD BE REPAIRED OR REPLACED PER CONTRACT REQUIREMENTS.
13. ANY ADDITIONAL SURVEYS OR TESTING AS A RESULT OF CONTRACTOR ERROR OR MISINFORMATION WILL BE CHARGED TO THE CONTRACTOR.
14. CONSTRUCT STRAIGHT GRADES BETWEEN ELEVATIONS SHOWN ON PLAN UNLESS INTERRUPTED BY A GRADE CHANGE LINE. ANY DEVIATION FROM THE GRADING PLAN MUST HAVE PRIOR APPROVAL FROM THE ENGINEER.
15. GRADE LAWN, TURF, AND PLANTING AREA 2" BELOW DESIGN GRADES INDICATED.
16. MAINTAIN A RECORD OF LOCATION OF UTILITY MARKERS ON THE AS-BUILT PLAN AND REINSTALL THEM AFTER PAVING. REPLACE BENT OR UNUSABLE MARKERS FOR ALL UTILITY LINES DISCOVERED WITHIN THE WORK AREA. INSTALL BRASS UTILITY MARKERS INDICATING DIRECTIONS OF LINES AT ALL CHANGES IN DIRECTIONS AFTER PAVING. INFORM THE SURVEYOR TO LOCATE AND RECORD ACTUAL LOCATIONS.
17. IF EXISTING UTILITIES ARE EXPOSED OR DETERMINED TO EXIST UNDER THE ROUGH GRADING SITE, CONTRACTOR SHALL PROVIDE A FLAGGED STAKE THAT INDICATES THEIR LOCATION, TYPE OF UTILITY, SIZE, PIPE MATERIAL AND DEPTH. STAKES SHALL BE INSTALLED NO LESS THAN 50' ON CENTER ON STRAIGHT LINES AND AT BENDS.
18. UNCLOG, CLEAN AND FLUSH THE WORK AREA DRAINAGE SYSTEM AFTER PAVING AND IMMEDIATELY BEFORE A RAIN FORECAST.
19. ALL GRADING AND CONSTRUCTION ACTIVITIES SHALL COMPLY WITH THE RECOMMENDATIONS PROVIDED IN THE CEQA REPORT AND WITH THE COUNTY OF LOS ANGELES CODE, TITLE 12, SECTION 12.12.030 THAT CONTROLS AND RESTRICTS NOISE FROM THE USE OF CONSTRUCTION AND GRADING EQUIPMENT FROM THE HOURS OF 7:00AM TO 8:00PM ON WEEKDAYS, AND 8:00AM TO 6:00PM ON SATURDAYS AND HOLIDAYS.
20. CALIFORNIA PUBLIC RESOURCES CODE (SECTION 5097.98) AND HEALTH AND SAFETY CODE (SECTION 7050.5) ADDRESS THE DISCOVERY AND DISPOSITION OF HUMAN REMAINS. IN THE EVENT OF DISCOVERY OR RECOGNITION OF ANY HUMAN REMAINS IN ANY LOCATION OTHER THAN A DEDICATED CEMETERY, THE LAW REQUIRES THAT GRADING IMMEDIATELY STOPS AND NO FURTHER EXCAVATION OF DISTURBANCE OF THE SITE, OR ANY NEARBY AREA WHERE HUMAN REMAINS MAY BE LOCATED, OCCUR UNTIL THE FOLLOWING MEASURES HAVE BEEN TAKEN:
    A. THE COUNTY CORONER HAS BEEN INFORMED AND HAS DETERMINED THAT NO INVESTIGATION OF THE CAUSE OF DEATH IS REQUIRED AND,
    B. IF THE REMAINS ARE OF NATIVE AMERICAN ORIGIN, THE DESCENDANTS FROM THE DECEASED NATIVE AMERICANS HAVE MADE A RECOMMENDATION FOR THE MEANS OF TREATING OR DISPOSING, WITH APPROPRIATE DIGNITY, OF THE HUMAN REMAINS AND ANY ASSOCIATED GRAVE GOODS.
21. ALL EXPORT OF MATERIAL FROM THE SITE MUST GO TO A PERMITTED SITE APPROVED BY THE JURISDICTIONAL AGENCY REPRESENTATIVE OR A LEGAL DUMPSITE. RECEIPTS FOR ACCEPTANCE OF EXCESS MATERIAL BY A DUMPSITE ARE REQUIRED AND MUST BE PROVIDED TO THE INSPECTOR OF RECORD UPON REQUEST.
22. SITE BOUNDARIES, EASEMENTS, DRAINAGE DEVICES, RESTRICTED USE AREAS SHALL BE LOCATED PER CONSTRUCTION STAKING BY A LICENSED SURVEYOR. PRIOR TO GRADING, AS REQUESTED BY THE INSPECTOR OF RECORD, ALL PROPERTY LINES, EASEMENTS, AND RESTRICTED USE AREAS SHALL BE STAKED.
23. CONTRACTOR SHALL INSTALL TEMPORARY FENCING AROUND THE PERIMETER OF THE CONSTRUCTION SITE AND STAGING AREA. CONTRACTOR TO REFER TO SPECIFICATION 01500 "CONSTRUCTION FACILITIES AND TEMPORARY CONTROLS" FOR ALL TEMPORARY FACILITIES.
24. CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS, INCLUDING NPDES, FROM THE APPROPRIATE JURISDICTIONAL AGENCIES FOR DISCHARGE OF GROUND WATER THAT MAY BE NECESSARY TO ACCOMPLISH EXCAVATIONS SHOWN ON THESE PLANS.
25. STORM DRAINAGE SYSTEMS SHOWN ON THESE PLANS HAVE BEEN DESIGNED FOR THE FINAL SITE CONDITION AT COMPLETION OF THE PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ADEQUATE DRAINAGE OF THE SITE, DURING INTERIM CONDITIONS OF CONSTRUCTION.
26. GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.
27. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE THE ENGINEER WITH A COMPLETE SET OF REPRODUCIBLE "AS-BUILT" DRAWINGS OF ALL WORK PERFORMED UNDER THIS CONTRACT, AS SHOWN WITHIN THESE CONSTRUCTION DRAWINGS. ALL FIELD CHANGES SHALL BE SHOWN IN DETAIL ON THE "AS-BUILT" DRAWINGS AND SHALL INCORPORATE AS A MINIMUM, NEW ELEVATIONS, GRADES AND ALIGNMENT OF UNDERGROUND FACILITIES WITH DIMENSIONAL TIES TO BUILDINGS OR OTHER VISIBLE IMPROVEMENTS.
28. THE CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR THE JOB SITE CONDITIONS INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY, AND SHALL NOT BE LIMITED TO NORMAL WORKING HOURS.
29. THE PROPOSED GRADE IS THE FINAL GRADE AND NOT THE ROUGH GRADE. THE CONTRACTOR SHALL SUBTRACT THE THICKNESS OF THE PAVED SECTION AND/OR LANDSCAPE TOPSOIL SECTION TO ARRIVE AT THE ROUGH GRADE ELEVATION.
30. THE CONTRACTOR SHALL OBTAIN AN O.S.H.A. PERMIT FROM THE CALIFORNIA DIVISION OF INDUSTRIAL SAFETY PRIOR TO THE CONSTRUCTION OF TRENCHES OR EXCAVATIONS WHICH ARE FIVE FEET OR DEEPER.

LEGEND:

CONCRETE PAVEMENT

ASPHALT PAVEMENT

PLANTER AREA PER LANDSCAPE DRAWINGS

BUILDING

WALL

REMOVE EXISTING AC PAVEMENT AND BASE MATERIAL, FULL DEPTH

REMOVE EXISTING CONCRETE PAVEMENT AND BASE MATERIAL, FULL DEPTH

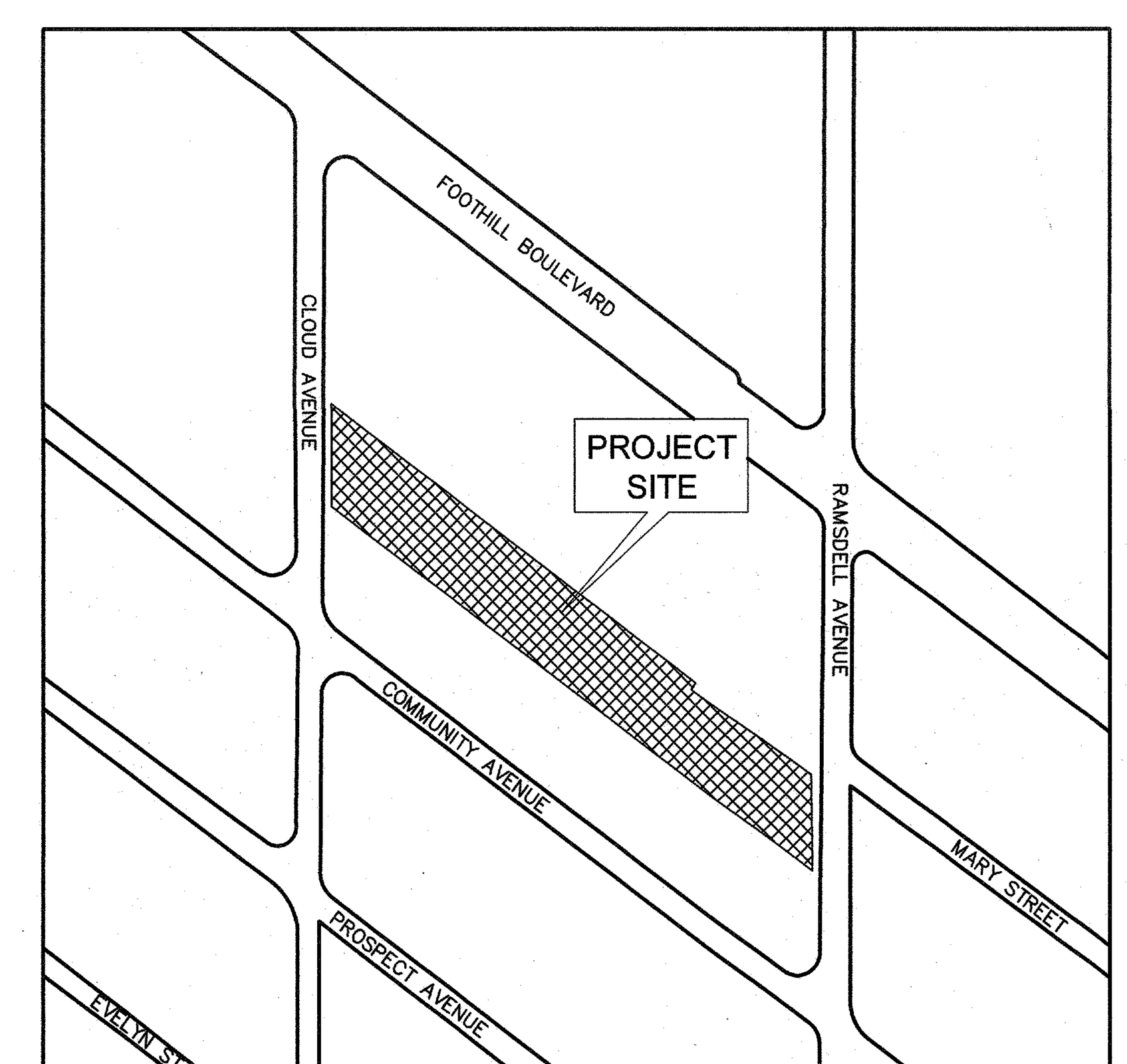
CLEAR, GRUB AND REMOVE EXISTING TURF/PLANTER/SHRUBS/EXPOSED SUBGRADE AREA. REMOVE EXISTING SHRUBS AND ROOTS IN THEIR ENTIRETY

PROPERTY LINE	
CENTER LINE	
FINISHED GRADE CONTOUR	150.00
EXISTING GRADE CONTOUR	150.00
EXISTING GRADE ELEVATION	(150.00)
FINISHED GRADE ELEVATION	150.00
CHAIN LINK FENCE (CLF)	x
FLOW LINE	
RIDGE LINE	R
GRADE BREAK	GB
GAS LINE	G
ELECTRICAL CONDUIT	E
TRAFFIC SIGNAL LINE	TS
STORM DRAIN LINE	SD
SANITARY SEWER LINE	SS
DOMESTIC WATER LINE	DW

CABINET	CABINET		POST
CO	CLEANOUT	S	SEWER MANHOLE
	DRAINAGE INLET		SIGN
E	ELECTRICAL		TREE
	LIGHT	WM	WATER METER

ABBREVIATIONS:

AC	ASPHALT PAVEMENT
FG	FINISH GRADE
FH	FIRE HYDRANT
FL	FLOW LINE
FND	FOUNDATION
FS	FINISH SURFACE
FT	FEET
FW	FIRE WATER
G	GAS
GB	GRADE BREAK
GM	GAS METER
GVLT	GAS VAULT
GV	GAS VALVE
HP	HIGH POINT
IE	INVERT ELEVATION
IIE	INLET INVERT ELEVATION
INV	INVERT
IRR	IRRIGATION
ITEM NO.	ITEM SHOWN ON PTR
L	LENGTH
MAX	MAXIMUM
MEAS	MEASURED
MH	MAINTENANCE HOLE, MANHOLE
MIN	MINIMUM
N	NORTH
NPR	NEWSPAPER RACK
OC	ON CENTER
OIE	OUTLET INVERT ELEVATION
OAR	OWNERS AGENT REPRESENTITIVE
P	PROPORTIONED
PA	PLANTING AREA
PCC	PORTLAND CONCRETE CEMENT
PIV	POST INDICATOR VALVE
PL	PROPERTY LINE
PM	PUNCH MARK ON MANHOLE, PARKING METER
PP	POWER POLE
PTR	PRELIMINARY TITLE REPORT
PSG	PEDESTRIAN SWING GATE
PVC	POLYVINYL CHLORIDE PIPE
PVMT	PAVEMENT
R	RADIUS (GEOMETRY), RIDGE (GRADING), RECORD (SURVEY)
RCP	REINFORCED CONCRETE PIPE
REF	REFERENCE
RW	RIGHT OF WAY
S	SLOPE, SOUTH, SEWER
SD	STORM DRAIN
SDR	STANDARD PIPE DIMENSION RATIO
SSMH	SANITARY SEWER MANHOLE
SDMH	STORM DRAIN MANHOLE
SLPB	STREET LIGHT PULLBOX
SPK	SPIKE
SS	SANITARY SEWER
STA	STATION, STD(S), STANDARD(S)
S&W	SPIKE & WASHER
SW	SIDEWALK
T	TANGENT
TA	TREE AREA
TAD	TOP OF AREA DRAIN
TC	TOP OF CONCRETE OR CURB
TCB	TOP OF CATCH BASIN
TCO	TOP OF CLEAN OUT
TE	TOP ELEVATION
TEL	TELEPHONE
TEL VLT	TELEPHONE VAULT
TG	TOP OF GRATE
TMH	TELEPHONE MANHOLE
TMS	TOP OF MOW STRIP
TOS	TOP OF SLOPE, TOP OF SLAB
TOE	TOP OF EMBANKMENT
TSPB	TRAFFIC SIGNAL PULLBOX
TS	TOP OF STEP
TW	TOP OF WALL
TX	TOP OF RAMP
TYP	TYPICAL
U/G	UNDERGROUND
VCP	VITRIFIED CLAY PIPE
VIF	VERIFY IN FIELD
V V	VAULT IN VENTS
W	DOMESTIC WATER, WEST
C	WATER METER
WV	WATER VALVE
WVLT	WATER VAULT
YB	YARD BOX
(W,S,G,E)	(WATER, SEWER, GAS, ELECTRICAL)



VICINITY MAP
SCALE: NOT TO SCALE

architecture planning interiors

tBP/Architecture
4611 Teller Avenue
Newport Beach, CA 92660
ph: 949.673.0300 fx: 949.732.3895
LICENSED ARCHITECT HUNG L. CHENG NO. C34187 REN. 4-30-17 STATE OF CALIFORNIA
architect

VCA ENGINEERS INC.
CIVIL STRUCTURAL
1041 S Garfield Ave. Suite #210
Alhambra, CA 91801
Tel. 323.729.6098
Fax. 323.729.6043
REGISTERED PROFESSIONAL ENGINEER VIRGILIO C. AYAHAN No. C36079 Exp. 6/30/20 CIVIL STATE OF CALIFORNIA
consultant

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP03 119149
AC N.V. FLS AC SS PJ
DATE JAN 7 2019

DSA Los Angeles Regional Office
700 N. Alameda Street, Suite 5-500
Los Angeles, California 90012
ph: (213)897-3995 fx: (213)897-3159/0726

CLOUD PRESCHOOL RELOCATABLES

4444 CLOUD AVENUE
LA CRESCENTA, CALIFORNIA 91214

GLENDALE UNIFIED SCHOOL DISTRICT

owner

tBP project number : 20778.10

file name:

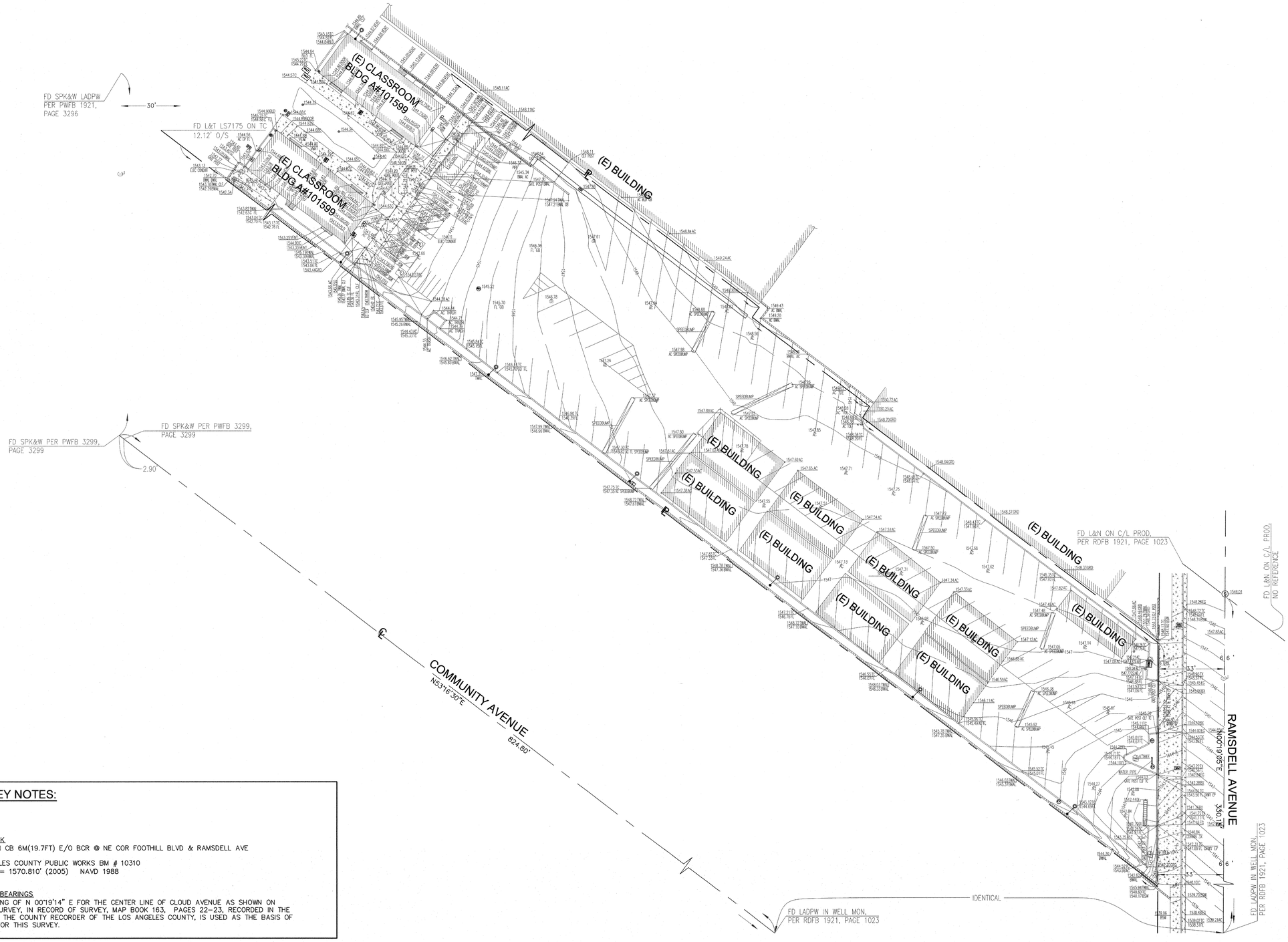
drawn by: checked by:

date: September 9, 2015

Rev: date: description:

drawing title:
GENERAL NOTES AND ABBREVIATIONS

drawing no.:
C-1.0
drawing of



SURVEY NOTES:

SURVEYOR

BENCHMARK
L&BR IN N CB 6M(19.7FT) E/O BCR @ NE COR FOOTHILL BLVD & RAMSDELL AVE

LOS ANGELES COUNTY PUBLIC WORKS BM # 10310
ELEV. = 1570.810' (2005) NAVD 1988

BASIS OF BEARINGS
THE BEARING OF N 00°19'14" E FOR THE CENTER LINE OF CLOUD AVENUE AS SHOWN ON RECORD SURVEY, IN RECORD OF SURVEY, MAP BOOK 163, PAGES 22-23, RECORDED IN THE OFFICE OF THE COUNTY RECORDER OF THE LOS ANGELES COUNTY, IS USED AS THE BASIS OF BEARING FOR THIS SURVEY.

FOR REFERENCE ONLY

EXISTING CONDITIONS/ TOPOGRAPHIC SURVEY

20 10 0 20 40
GRAPHIC SCALE
SCALE 1" = 20'

tBP
architecture
planning
interiors

tBP/Architecture
4611 Teller Avenue
Newport Beach, CA 92660
ph: 949.673.0300 fx: 949.732.3895

architect

VCA ENGINEERS INC
CIVIL STRUCTURAL
1041 S Garfield Ave, Suite #210
Alhambra, CA 91801
Tel: 323 726-9088
Fax: 323.729-9043

REGISTERED PROFESSIONAL ENGINEER
No. C36079
Exp. 6/30/20
CIVIL
STATE OF CALIFORNIA

consultant

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP03 119149
APPROVED
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DSA Los Angeles Regional Office
700 N. Alameda Street, Suite 5-500
Los Angeles, California 90012
ph: (213)897-3995 fx: (213)897-3159/0726

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EXISTING CONDITIONS

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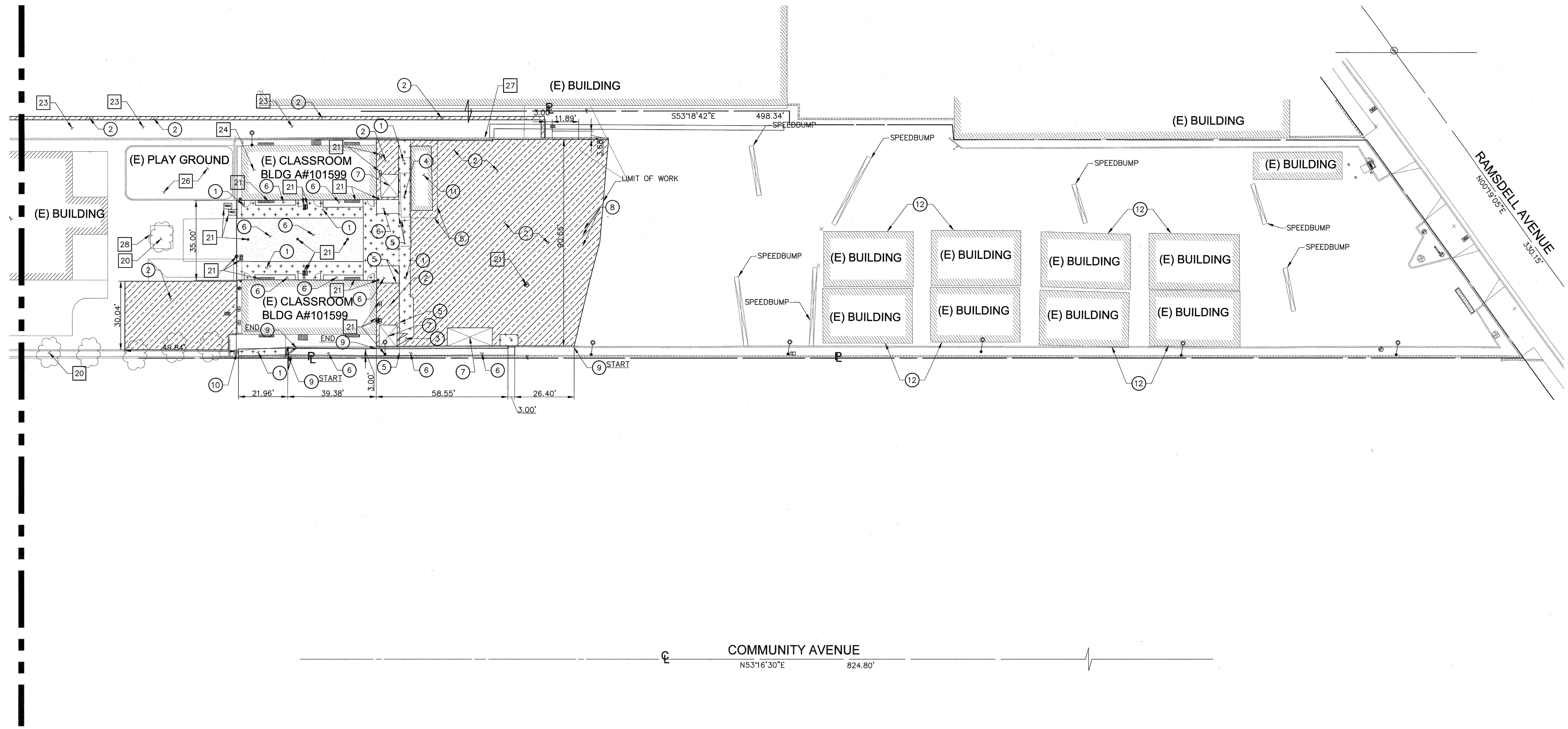
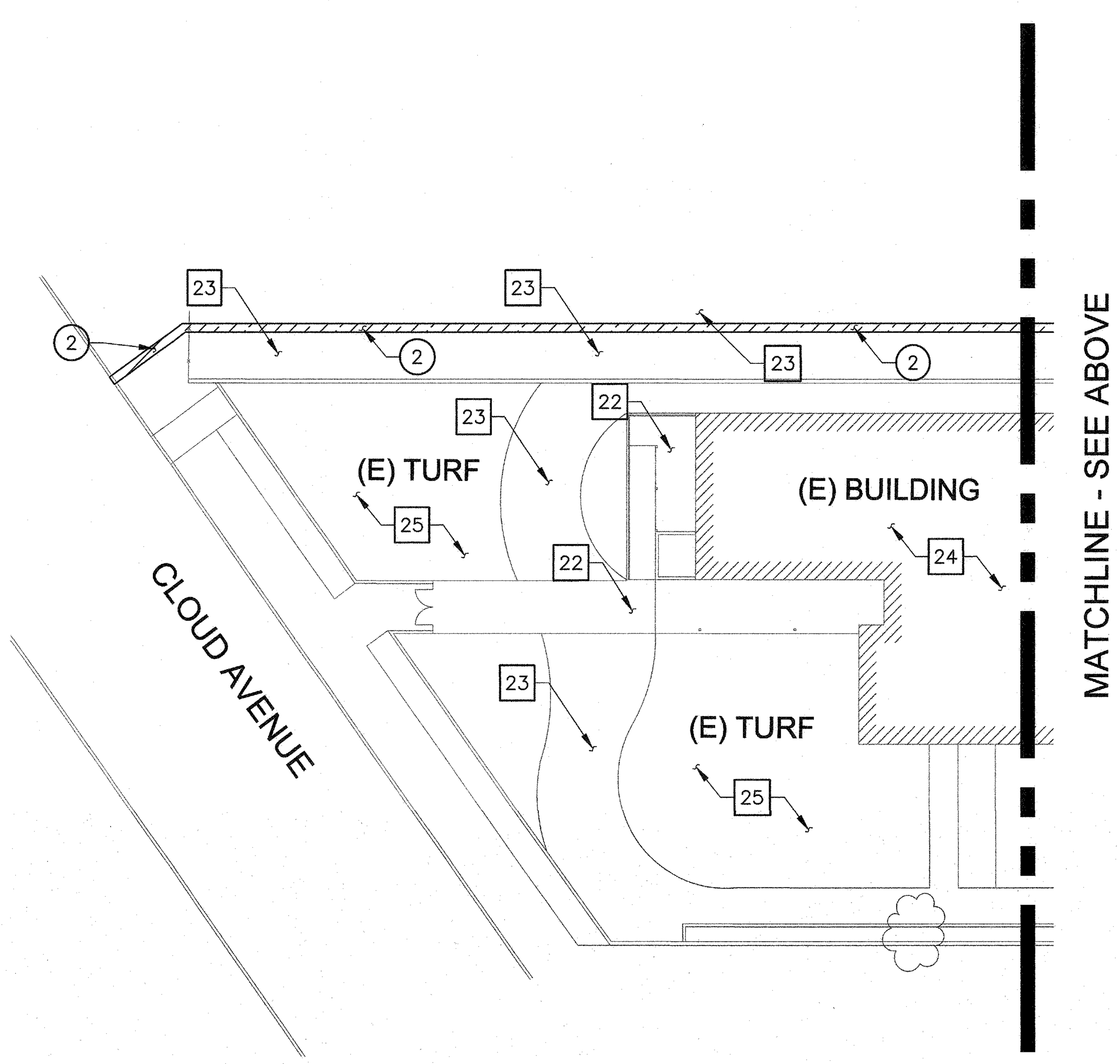
C-1.1
drawing of





REMOVAL NOTES:

1. REMOVE FULL DEPTH OF EXISTING CONCRETE PAVEMENT AND FULL DEPTH OF BASE MATERIAL.
2. REMOVE FULL DEPTH OF EXISTING AC PAVEMENT AND FULL DEPTH OF EXISTING BASE MATERIAL.
3. REMOVE FULL DEPTH OF EXISTING CONCRETE GUTTER AND FULL DEPTH OF BASE MATERIAL.
4. REMOVE EXISTING RAMP, FOOTINGS, AND APPURTENANCES IN ITS ENTIRETY.
5. REMOVE EXISTING CHAIN LINK FENCE, FOOTINGS AND APPURTENANCES IN ITS ENTIRETY.
6. REMOVE EXISTING TURF/PLANTER/EXPOSED SUB-GRADE, CLEAR AND GRUB AREA. REMOVE EXISTING ROOTS IN THEIR ENTIRETY.
7. RELOCATE EXISTING STORAGE CONTAINER OFF-SITE PER THE DISTRICT.
8. REMOVE EXISTING STRIPING.
9. REMOVE EXISTING CONCRETE CURB IN ITS ENTIRETY.
10. REMOVE EXISTING CATCH BASIN IN ITS ENTIRETY. PROTECT EXISTING STORM DRAIN LINE FOR FUTURE CONNECTION.
11. RELOCATE EXISTING MODULAR BUILDING OFF-SITE PER THE DISTRICT.
12. GENERAL CONTRACTOR WILL MOVE EXISTING BUILDING PER DISTRICT'S INSTRUCTIONS TO M&O YARD AT 349 MAGNOLIA AVENUE, GLENDALE CA.

PROTECT IN PLACE NOTES:

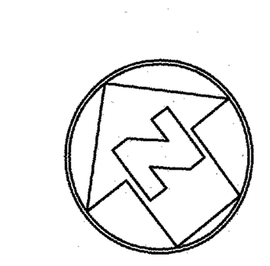
20. PROTECT IN PLACE EXISTING TREE.
21. PROTECT IN PLACE EXISTING UTILITY IN ITS ENTIRETY.
22. PROTECT IN PLACE EXISTING CONCRETE PAVEMENT.
23. PROTECT IN PLACE EXISTING AC PAVEMENT.
24. PROTECT IN PLACE EXISTING BUILDING IN ITS APPURTENANCES IN ITS ENTIRETY.
25. PROTECT IN PLACE EXISTING TURF/PLANTER AREA, COORDINATE WITH LANDSCAPE DRAWINGS.
26. PROTECT IN PLACE EXISTING PLAY GROUND.
27. PROTECT IN PLACE EXISTING WALL.
28. PROTECT IN PLACE EXISTING CURB AND GUTTER IN ITS ENTIRETY

REMOVAL LEGEND:

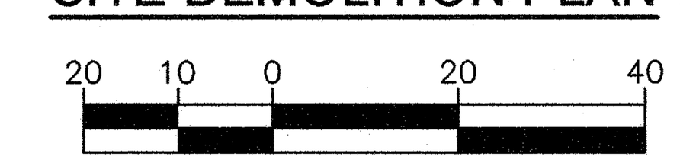
(cross-hatched pattern)	REMOVE EXISTING CONCRETE PAVEMENT AND BASE MATERIAL, FULL DEPTH.
(blank pattern)	CLEAR, GRUB, AND REMOVE EXISTING TURF/PLANTER/SHRUBS/EXPOSED SUB-GRADE AREA. REMOVE EXISTING SHRUBS AND ROOTS IN THEIR ENTIRETY.
(diagonal hatch pattern)	REMOVE EXISTING ASPHALT PAVEMENT AND BASE MATERIAL, FULL DEPTH.

SHEET NOTES:

1. FOR GENERAL NOTES, LEGEND AND ABBREVIATIONS, SEE SHEETS C-1.0.
2. GRAY LINES, SYMBOLS, FEATURES INDICATED ON PLAN ARE TO REMAIN OR PROTECT IN PLACE. SEE OFFSITE IMPROVEMENT DRAWINGS FOR OTHER REFERENCES AND INFORMATION.
3. ADJUST ALL EXISTING UTILITIES, UTILITY VAULT, AND UTILITY STRUCTURES TO NEW GRADE.



SITE DEMOLITION PLAN



SCALE: 1" = 20'

tBP architecture planning interiors
tBP/Architecture
4611 Teller Avenue
Newport Beach, CA 92660
ph: 949.673.0300 fx: 949.732.3895
architect

VCA ENGINEERS INC.
1041 S Garfield Ave. Suite #210
Alhambra, CA 91801
Tel. 323.729.6098
Fax. 323.729.6043
consultant

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP03 119149
JAN 7 2019

DSA Los Angeles Regional Office
700 N. Alameda Street, Suite 5-500
Los Angeles, California 90012
ph: (213)897-3995 fx: (213)897-3159/0726

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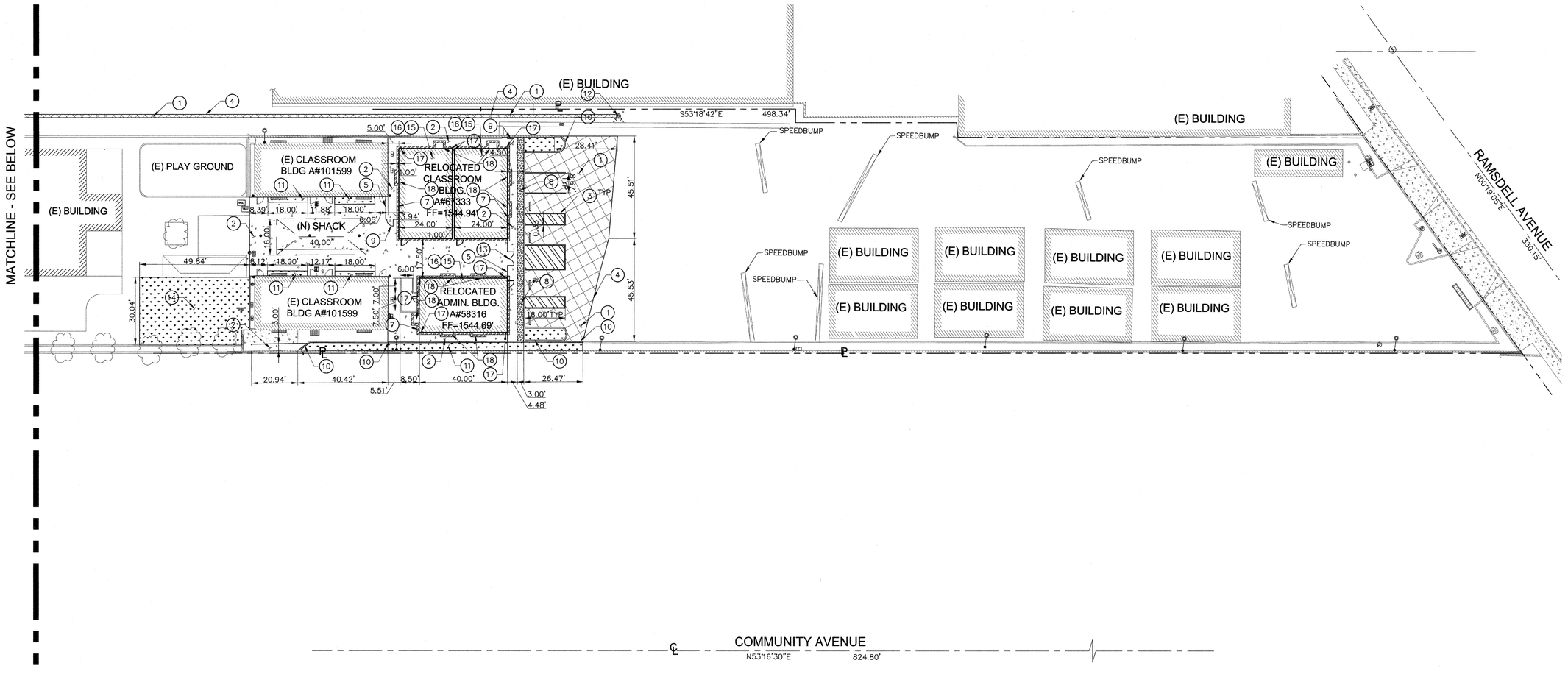
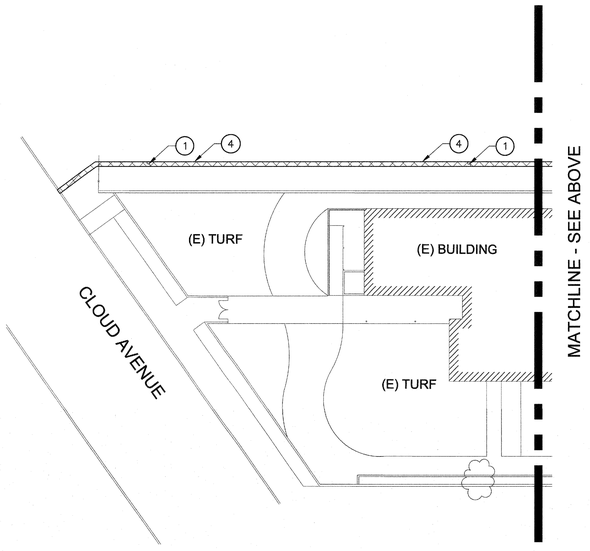
date: September 9, 2015

Rev:	date:	description:

drawing title:
SITE DEMOLITION PLAN

drawing no.:
CD-1.0
drawing of





CONSTRUCTION NOTES:

1. CONSTRUCT NEW AC PAVEMENT PER DETAIL 1 ON SHEET C-5.0.
2. CONSTRUCT NEW CONCRETE PAVEMENT PER DETAIL 2 ON SHEET C-5.0.
3. CONSTRUCT STRIPING PER ARCHITECTURAL DRAWINGS.
4. JOIN TO EXISTING CONDITIONS.
5. INSTALL CHAIN LINK FENCE PER ARCHITECTURAL DRAWINGS.
6. CONSTRUCT EXTERIOR RAMP PER ARCHITECTURAL DRAWINGS.
7. CONSTRUCT THICKEN EDGE WITH CONCRETE PAVEMENT AT BUILDING FACE PER DETAIL 3 ON SHEET C-5.0.
8. INSTALL TRUNCATED DOMES PER DETAIL 2 ON SHEET C-5.1.
9. INSTALL CHAIN LINK GATE PER ARCHITECTURAL DRAWINGS.
10. CONSTRUCT CONCRETE CURB PER DETAIL 3 ON SHEET C-5.2.
11. CONSTRUCT NEW PLANTER AREA PER ARCHITECTURAL DRAWINGS.
12. INSTALL NEW FIRE HYDRANT. SEE SHEET C-4.0.
13. INSTALL NEW DECORATIVE FENCE AND GATE PER ARCHITECTURAL DRAWINGS.
14. CONSTRUCT NEW NATURAL GRASS AREA PER ARCHITECTURAL DRAWINGS.
15. INSTALL MODULAR BUILDING AND FOUNDATION PER PC AND ARCHITECTURAL DRAWINGS.
16. CONSTRUCT NEW CONCRETE PAVEMENT UNDER MODULAR BUILDING PER DETAIL 2 ON SHEET C-5.0.
17. INSTALL NEW DOWNSPOUT PER ARCHITECTURAL DRAWINGS.
18. INSTALL NEW VENT PER ARCHITECTURAL DRAWINGS.

LEGEND:

- CONSTRUCT NEW AC PAVEMENT
- CONSTRUCT NEW CONCRETE PAVEMENT
- CONSTRUCT NEW TURF PER LANDSCAPE DRAWINGS
- INSTALL TRUNCATED DOMES

SHEET NOTES:

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2. GRAY LINES, SYMBOLS, FEATURES INDICATED ON PLAN ARE TO REMAIN OR PROTECT IN PLACE. SEE OFFSITE IMPROVEMENT DRAWINGS FOR OTHER REFERENCES AND INFORMATION.
3. ADJUST ALL EXISTING UTILITIES, UTILITY VAULT, AND UTILITY STRUCTURES TO NEW GRADE.

SITE CONTROL PLAN

20 10 0 20 40

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tBP/Architecture
4611 Teller Avenue
Newport Beach, CA 92660
ph: 949.673.0300 fx: 949.732.3895

architect

VCA ENGINEERS INC
STRUCTURAL
1041 S Garfield Ave. Suite #210
Alhambra, CA 91801
Tel. 323.729.8068
Fax. 323.729.8043

consultant

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP03 119149
ACCESS FLS SS
DATE JAN 7 2019

DSA Los Angeles Regional Office
700 N. Alameda Street, Suite 5-500
Los Angeles, California 90012
ph: (213)897-3995 fx: (213)897-3159/0726

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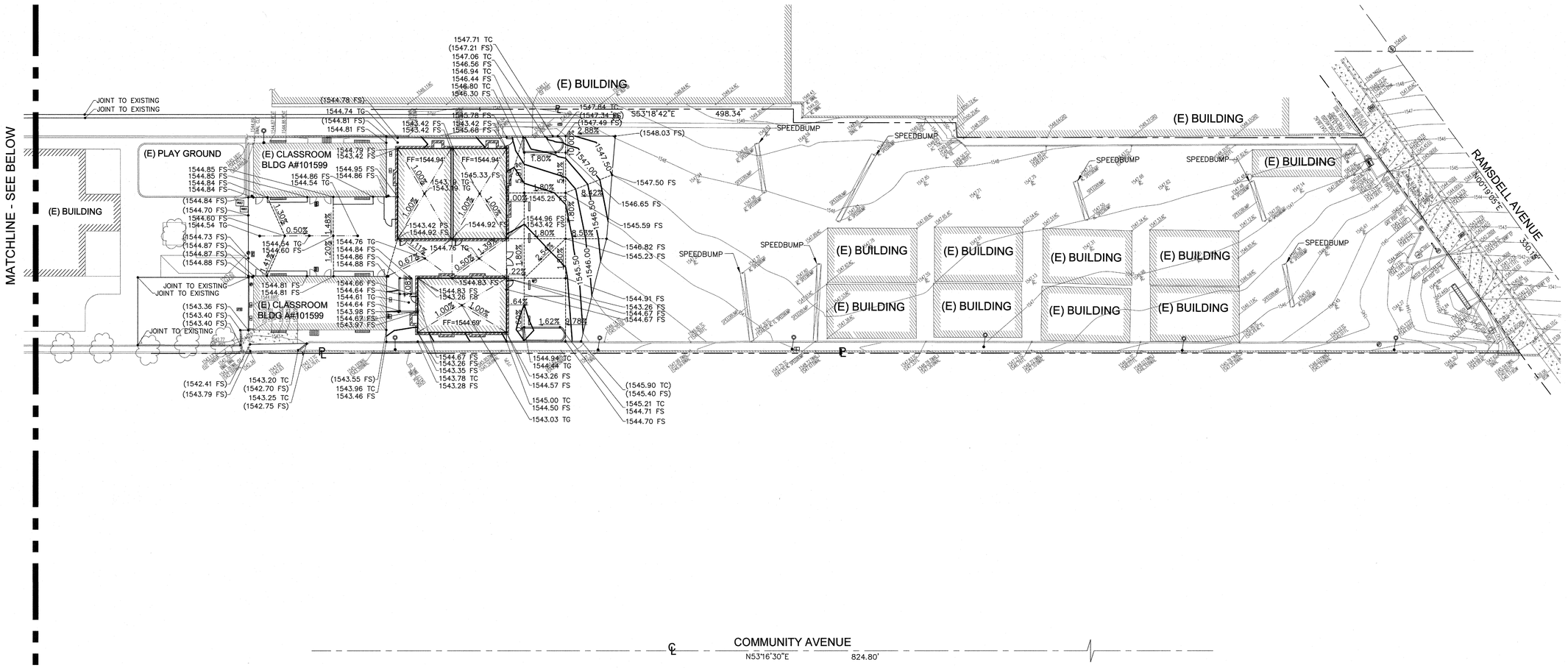
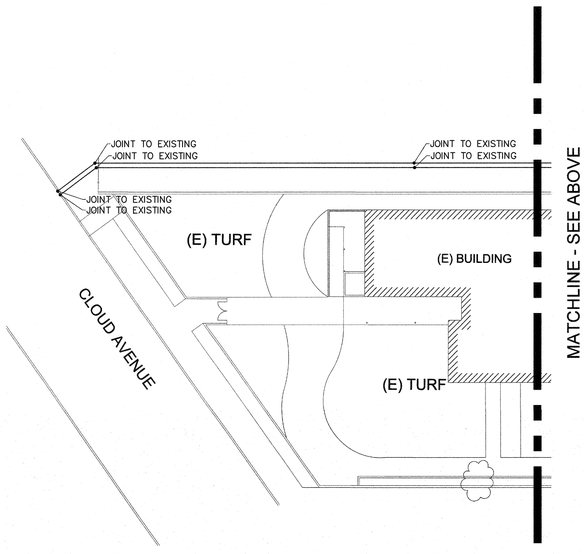
SITE CONTROL PLAN

drawing no.:

C-2.0

drawing of





ESTIMATED EARTHWORK QUANTITY

ESTIMATED CUT = 181 CY
ESTIMATED FILL = 51 CY

NOTES:

1. THE ESTIMATED QUANTITIES PROVIDED ABOVE ARE FOR REFERENCE ONLY TO BE USED FOR JURISDICTIONAL PLAN CHECKING AND PERMITTING PURPOSES ONLY.
2. ESTIMATED EARTHWORK ABOVE IS BASED ON DESIGN FINISH GRADES TO EXISTING GRADES IN SURVEY. THE ESTIMATED EARTHWORK DOES NOT CONSIDER THE THICKNESS OF EACH PAVEMENT MATERIAL, FOUNDATION AND SLAB ON GRADE VOLUMES, THE REMOVAL OF ANY UNSUITABLE MATERIAL, AND THE REMOVAL OF EXISTING BASEMENTS, PITS, VAULTS, TOP SOIL OR VEGETATION.
3. THE ESTIMATED EARTHWORK QUANTITIES DO NOT INCLUDE SHRINKAGE FACTORS DUE TO COMPACTION OR ANY OVER EXCAVATION QUANTITIES.
4. THE CONTRACTOR SHALL CALCULATE HIS OWN EARTHWORK QUANTITIES NECESSARY FOR HIS BID AND WORK. VCA IS NOT RESPONSIBLE AND LIABLE FOR THE CONTRACTOR'S EARTHWORK CALCULATIONS.
5. ESTIMATED EARTHWORK QUANTITIES ABOVE ASSUME THAT ALL ON-SITE MATERIALS ARE SUITABLE FOR BACKFILLING. HOWEVER, ACTUAL EXISTING ON-SITE MATERIALS AND IMPORTED MATERIALS MUST FIRST BE APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO INSTALLATION, REMOVAL, OR REPLACEMENT.

SHEET NOTES:

1. FOR GENERAL NOTES, LEGEND AND ABBREVIATIONS, SEE SHEETS C-1.0.
2. GRAY LINES, SYMBOLS, FEATURES INDICATED ON PLAN ARE TO REMAIN OR PROTECT IN PLACE. SEE OFFSITE IMPROVEMENT DRAWINGS FOR OTHER REFERENCES AND INFORMATION.
3. ADJUST ALL EXISTING UTILITIES, UTILITY VAULT, AND UTILITY STRUCTURES TO NEW GRADE.

SITE GRADING PLAN

20 10 0 20 40

SCALE: 1" = 20'

tBP architecture planning interiors
IBP/Architecture
4611 Teller Avenue
Newport Beach, CA 92660
ph: 949.673.0300 fx: 949.732.3895
architect

VCA ENGINEERS INC
1041 S Garfield Ave. Suite #210
Alhambra, CA 91801
Tel: 323.729.9366
Fax: 323.729.9043
consultant

REGISTERED PROFESSIONAL ENGINEER
No. C-56079
Exp. 6/30/20
CIVIL
STATE OF CALIFORNIA

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP03 119140
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DSA Los Angeles Regional Office
700 N. Alameda Street, Suite 5-500
Los Angeles, California 90012
ph: (213)897-3995 fx: (213)897-3159/0726

CLOUD PRESCHOOL RELOCATABLES

4444 CLOUD AVENUE
LA CRESCENTA, CALIFORNIA 91214

GLENDALE UNIFIED SCHOOL DISTRICT
owner

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SITE GRADING PLAN

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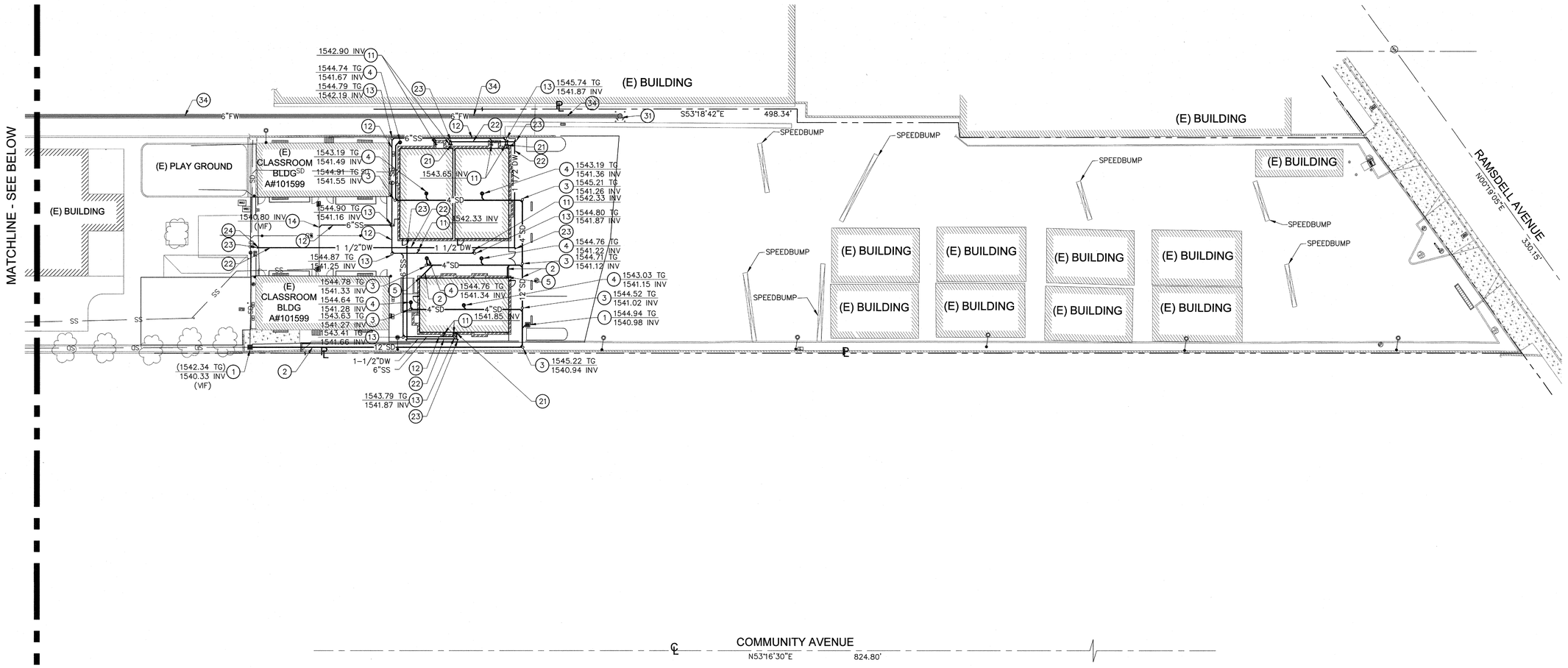

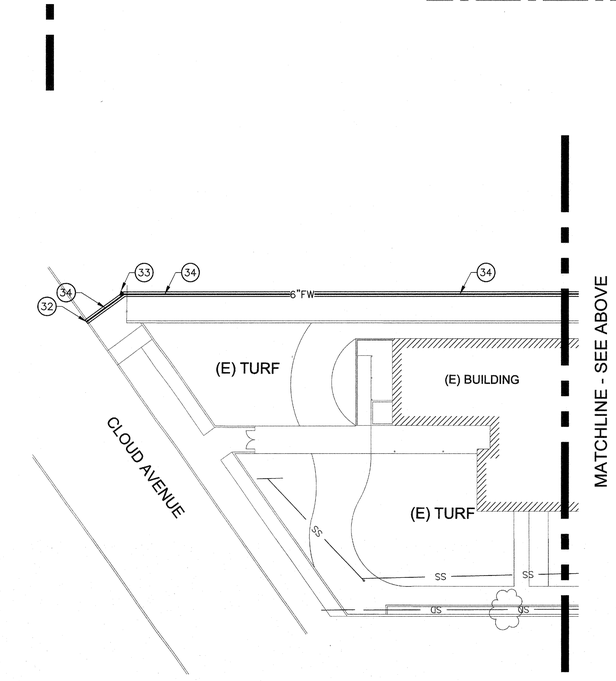

CONSTRUCTION NOTES:

STORM DRAIN:

1. INSTALL 24"X24" CATCH BASIN PER DETAIL 3 ON SHEET C-5.1.
2. INSTALL PVC SCHEDULE 40 PIPE PER DETAIL 7 ON SHEET C-5.0. SEE PLAN FOR SIZE. SEE ALSO DETAILS 1/C-5.0, 2/C-5.0
3. INSTALL CLEANOUT PER DETAIL 6 ON SHEET C-5.0.
4. INSTALL AREA DRAIN PER ALHAMBRA FOUNDRY PER DETAIL 8 ON SHEET C-5.0 OR APPROVED EQUAL.
5. CONNECT TO BUILDING DOWN SPOUT. COORDINATE AND MATCH LOCATION WITH PLUMBING DRAWINGS. PROVIDE REDUCER FITTINGS AS REQUIRED TO MATCH SIZE OF BUILDING DOWN SPOUT.

SEWER

11. CONNECT TO BUILDING SEWER LINE. COORDINATE AND MATCH LOCATION WITH PLUMBING DRAWINGS. PROVIDE REDUCER FITTINGS AS REQUIRED TO MATCH SIZE OF BUILDING SEWER.
12. INSTALL PVC SCHEDULE 40 SANITARY SEWER PIPE PER DETAIL 7 ON SHEET C-5.0. SEE PLAN FOR SIZE. SEE ALSO DETAIL 2/C-5.0, 3/C-5.0
13. INSTALL CLEANOUT PER DETAIL 6 ON SHEET C-5.0.
14. CONNECT TO EXISTING ON-SITE SEWER LINE. VIF ACTUAL INVERT ELEVATION AND LOCATION PRIOR TO CONSTRUCTION. VERIFY IF PROPOSED INVERT WILL WORK WITH EXISTING INVERT.

DOMESTIC WATER

21. CONNECT TO BUILDING DOMESTIC WATER LINE. COORDINATE AND MATCH LOCATION WITH PLUMBING DRAWINGS. PROVIDE REDUCER FITTINGS AS REQUIRED TO MATCH SIZE OF BUILDING DOMESTIC WATER LINE.
22. INSTALL COPPER TYPE L WATER LINE PER DETAIL 7 ON SHEET C-5.0. SEE PLAN FOR SIZE. SEE ALSO DETAIL 1/C-5.0, 2/C-5.0
23. INSTALL THRUST BLOCK PER DETAIL 1 ON SHEET C-5.1.
24. HOT TAP AND CONNECT TO EXISTING WATER LINE. VERIFY IN FIELD EXACT LOCATION PRIOR TO CONSTRUCTION.

FIRE WATER

31. INSTALL FIRE HYDRANT PER DETAIL 1 ON SHEET C-5.2. COORDINATE WITH FIRE DEPARTMENT PRIOR TO INSTALLATION.
32. CONNECT TO EXISTING WATER LINE. COORDINATE AND VERIFY POC AND LOCATION IN THE FIELD.
33. INSTALL THRUST BLOCK PER DETAIL 1 ON SHEET C-5.1.
34. INSTALL 6" AWWA C900 PVC, PRESSURE CLASS 200(DR14) FIRE WATER LINE PER DETAIL 7 ON SHEET C-5.0.

SHEET NOTES:

1. FOR GENERAL NOTES, LEGEND AND ABBREVIATIONS, SEE SHEET C-1.1.
2. SEE ARCHITECTURAL DRAWINGS FOR OTHER SITE RELATIVE DIMENSION NOT SHOWN ON THIS DRAWINGS.
3. FOR CONCRETE STRUCTURE, WALLS, HANDICAP RAMPS, PADS, AND DETAILS, SEE ARCHITECTURAL DRAWINGS.
4. EXISTING UTILITY INFORMATION IS BASED ON RECORD DOCUMENTS RECEIVED FROM THE ARCHITECT.
5. THE CONTRACTOR SHALL COMPLY WITH ALL CONDITIONS OR REQUIREMENTS OF PERMITS APPLICABLE TO THIS PROJECT.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFYING AND LOCATING ALL SUBSTRUCTURES THAT MAY AFFECT THIS INSTALLATION, PRIOR TO INSTALLATION AND TRENCHING.
7. REMOVE INTERFERING SECTIONS OF ALL EXISTING UTILITIES WHICH ARE ABANDONED. UTILITY OWNERS OF THE ABOVE-MENTIONED INTERFERING UTILITIES AND THE INSPECTOR OF RECORD OR OAR SHALL BE NOTIFIED IN ADVANCE PRIOR TO START OF REMOVAL.
8. FOR CATCH BASIN, PROVIDE 1/2" MAX GRID/OPENINGS IN GRATING IN THE DIRECTION OF PEDESTRIAN TRAFFIC FLOW. REFER TO DETAIL 8 ON SHEET C1.500.
9. PROVIDE MINIMUM 0.50% SLOPE FOR STORM DRAIN LINE PIPE.
10. THE UNDERGROUND UTILITY LINES SHOWN ON THE PLAN SUCH AS PROPOSED LINES AND CONNECTION TO THE EXISTING BUILDING, UTILITY SYSTEM, UTILITY BOX / VAULT, UTILITY FEATURES HAS TO BE VERIFIED IN FIELD BY THE CONTRACTOR.
11. CONNECTIONS TO THE BUILDING MAY OR MAY NOT BE ACCURATELY SHOWN ON PLAN. CONTRACTOR IS RESPONSIBLE TO ROUTE CONNECTION LINE AS REQUIRED FOR THE BUILDING SUCH AS DOMESTIC WATER, SEWER, ETC.
12. CONTRACTOR IS RESPONSIBLE TO ADJUST EXISTING DRY AND / OR PRESSURIZED UTILITY PIPES ABOVE, BELOW, AND / OR COORDINATE RELOCATION DUE TO THE INSTALLATION OF NEW GRAVITY LINES (SEWER AND STORM DRAIN UTILITY PIPES).
13. FOR FINISHED FLOOR ELEVATIONS, SEE GRADING PLAN SHEET C-3.0.
14. ALL EXISTING INFORMATION SHOWN ON THIS PLANS REGARDING UNDERGROUND EXISTING UTILITIES HAS BEEN OBTAINED FROM AVAILABLE AS-BUILT. NO REPRESENTATION IS MADE AS TO THE ACCURACY OF COMPLETENESS OF INFORMATION. THE CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES, SIZES, APPURTENANCES AND CORRESPONDING INVERT ELEVATIONS AND MAKE ADJUSTMENTS AS NECESSARY FOR CONNECTIONS OF PROPOSED LINES.
15. CONTRACTOR SHALL COORDINATE UTILITY CONNECTIONS WITH STRUCTURAL FOOTINGS PER STRUCTURAL AND ARCHITECTURAL DRAWINGS.

SITE UTILITY PLAN

20 10 0 20 40

SCALE: 1" = 20'

tBP
architecture
planning
interiors

tBP/Architecture
4611 Teller Avenue
Newport Beach, CA 92660
ph: 949.673.0300 fx: 949.732.3895

architect

VCA ENGINEERS INC.
1041 S Garfield Ave. Suite #210
Alhambra, CA 91801
Tel: 323.729.6008
Fax: 323.729.6043

consultant

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP# 1 1 0 1 4 9
JAN 7 2019

DSA Los Angeles Regional Office
700 N. Alameda Street, Suite 5-500
Los Angeles, California 90012
ph: (213)897-3995 fx: (213)897-3159/0726

CLOUD PRESCHOOL RELOCATABLES

4444 CLOUD AVENUE
LA CRESCENTA, CALIFORNIA 91214

GLENDALE UNIFIED SCHOOL DISTRICT

owner

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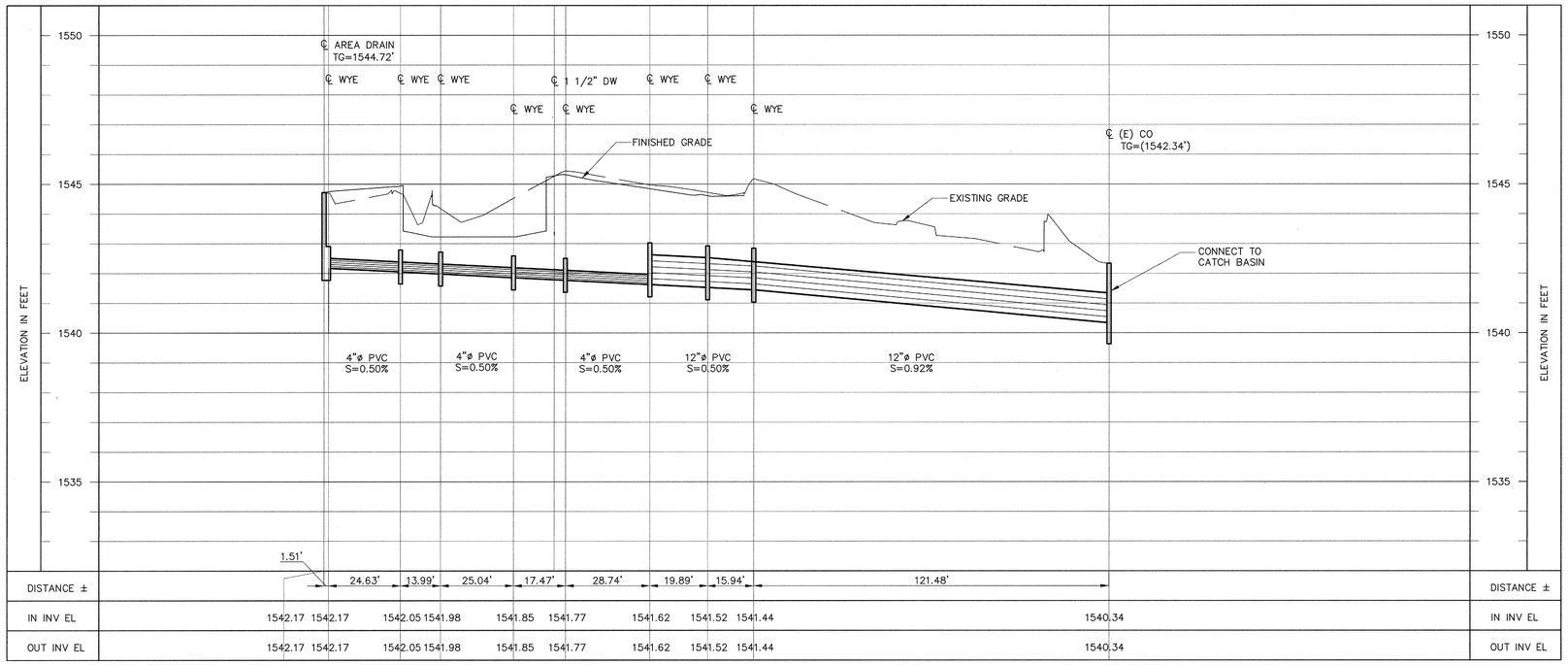
SITE UTILITY PLAN

drawing no.:

C-4.0

drawing of



STORM DRAIN PROFILE 1 — 1 / C-4.0
SCALE HOR 1"=20' VER 1"=2'

tBP architecture planning interiors

tBP/Architecture
4611 Teller Avenue
Newport Beach, CA 92660
ph: 949.673.0300 fx: 949.732.3895

architect

VCA ENGINEERS INC
CIVIL & STRUCTURAL
1041 S Garfield Ave. Suite #210
Alhambra, CA 91801
Tel: 323.726.8086
Fax. 323.728.5043

REGISTERED PROFESSIONAL ENGINEER
No. C-56079
Exp. 6/30/20
CIVIL
STATE OF CALIFORNIA

consultant

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP03 110140
JAN 7 2019

DSA Los Angeles Regional Office
700 N. Alameda Street, Suite 5-500
Los Angeles, California 90012
ph: (213)897-3995 fx: (213)897-3159/0726

CLOUD PRESCHOOL RELOCATABLES

4444 CLOUD AVENUE
LA CRESCENTA, CALIFORNIA 91214

GLENDALE UNIFIED SCHOOL DISTRICT

owner

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STORM DRAIN PROFILE

drawing no.:

C-4.1

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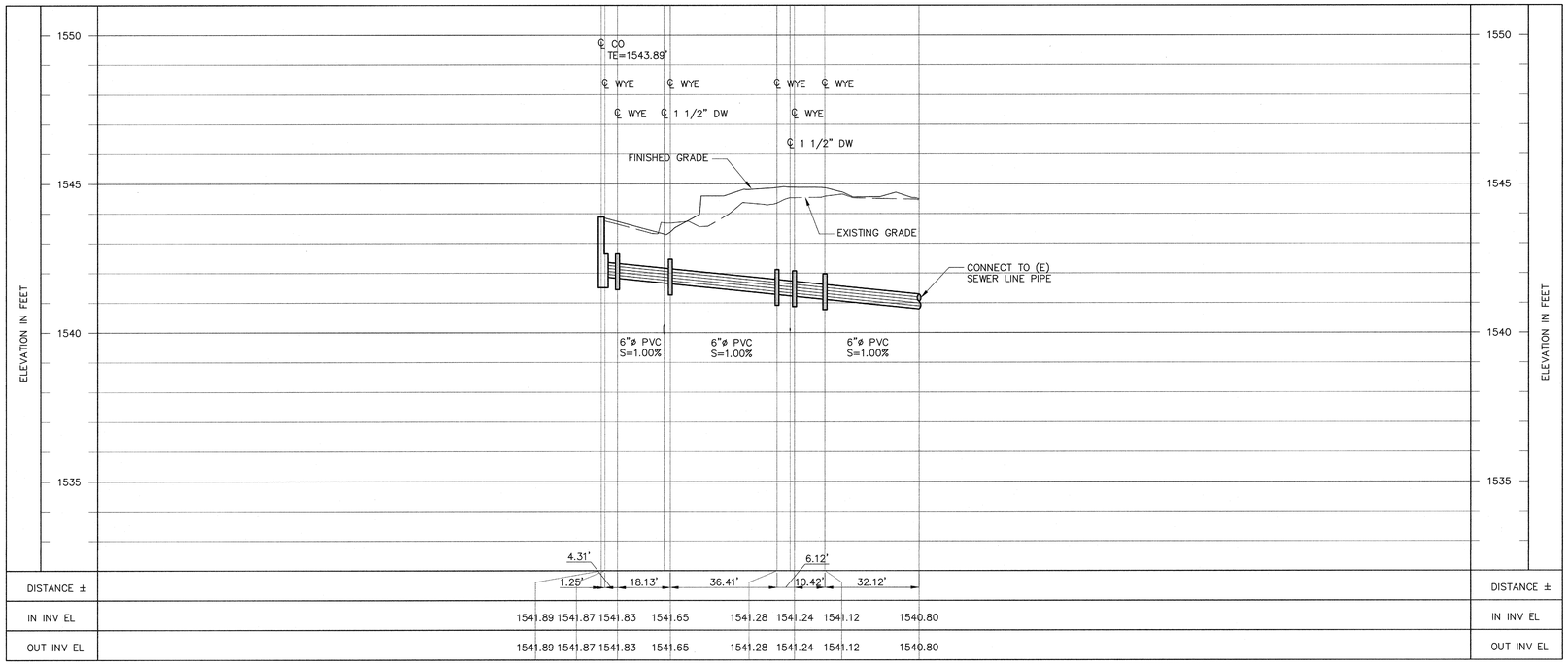

SANITARY SEWER PROFILE 1
SCALE HOR 1"=10' VER 1"=2'

1
C-4.0

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architecture
planning
interiors

tBP/Architecture
4611 Teller Avenue
Newport Beach, CA 92660
ph: 949.673.0300 fx: 949.732.3895

architect

MCA ENGINEERS INC
CIVIL & STRUCTURAL
1041 S Garfield Ave. Suite #210
Alhambra, CA 91801
Tel: 323.728.9088
Fax: 323.729.5043

consultant

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP03 110140
JAN 7 2019

DSA Los Angeles Regional Office
700 N. Alameda Street, Suite 5-500
Los Angeles, California 90012
ph: (213)897-3995 fx: (213)897-3159/0726

CLOUD PRESCHOOL
RELOCATABLES
4444 CLOUD AVENUE
LA CRESCENTA, CALIFORNIA 91214

GLENDALE UNIFIED SCHOOL DISTRICT

owner

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file name:
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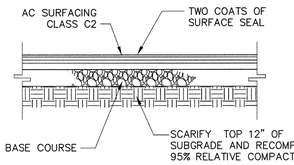
drawing title:
SANITARY SEWER PROFILE

drawing no.:
C-4.2
drawing of

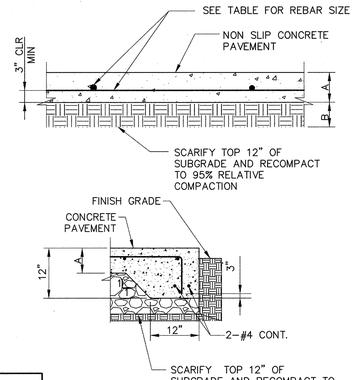


LOCATION	ASPHALT CONCRETE		BASE COURSE			
	THICKNESS	CLASS	THICKNESS: EXISTING PAVED SITE	THICKNESS: NEW UNPAVED SITE	TYPE	GRADE
PARKING	3"	C2	4"	4"	CAB	FINE
FIRE LANE	5"	C2	7"	7"	CAB	FINE

1 AC PAVEMENT SECTION
SCALE: NOT TO SCALE

NOTES:

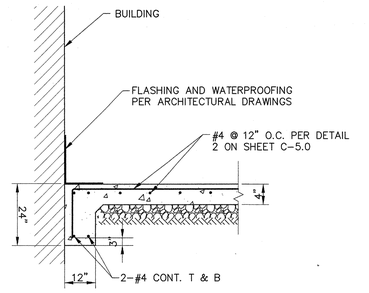
1. FAST–SETTING CONCRETE, fc'=3000 psi @ 28 DAYS FOR NON TRAFFIC AND fc'=4000 psi @ 28 DAYS FOR TRAFFIC. CONCRETE SHOULD HAVE A WATER–CEMENT RATIO NO HIGHER THAN 0.50 BY WEIGHT FOR NORMAL WEIGHT AGGREGATE CONCRETE.
2. USE TYPE II/V CEMENT.
3. REBARS, fy=60,000 psi ASTM AG16.
4. PROVIDE 1/2" EXPANSION JOINT WHERE NEW CONCRETE WALK/PAVEMENT ABUTS ANOTHER RIGID STRUCTURE.
5. PROVIDE EDGED CONTROL JOINTS @ 10' O.C. & EDGED EXPANSION JOINTS PER DETAIL 4 AND 5 ON SHEET C–5.0. SEE PLANS FOR SIDEWALK WIDTHS.



LOCATION	CONCRETE PAVEMENT	CRUSHED AGGREGATE BASE	REBARS
	THICKNESS "A"	THICKNESS "B"	
NON TRAFFIC	4"	4"	#4 @ 12" O.C. B.W.

EDGE OF RIGID PAVEMENT

2 CONCRETE PAVEMENT SECTION
SCALE: NOT TO SCALE



NOTES:

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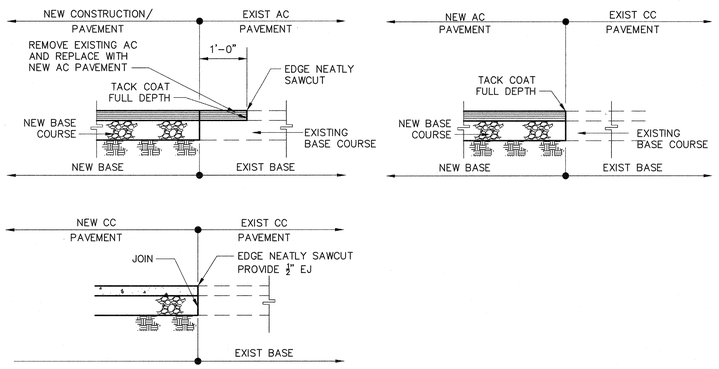
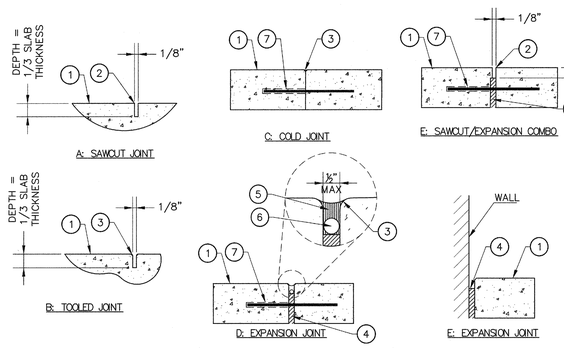
2. USE TYPE II/V CEMENT.
3. REBARS, fy=60,000 psi ASTM AG16.
4. PROVIDE 1/2" EXPANSION JOINT WHERE NEW CONCRETE WALK/PAVEMENT ABUTS ANOTHER RIGID STRUCTURE.
5. PROVIDE EDGED CONTROL JOINTS @ 10' O.C. & EDGED EXPANSION JOINTS PER DETAIL 4 AND 5 ON SHEET C–5.0.

3 CONCRETE PAVEMENT AT BUILDING FACE DETAIL
SCALE: NOT TO SCALE



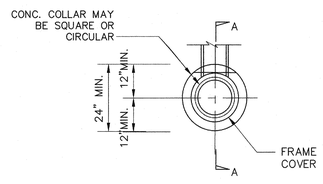
4 PAVEMENT JOINT DETAIL
SCALE: NOT TO SCALE



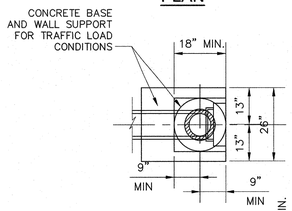
LEGEND

1. PAVING FINISH SURFACE.
2. SAWCUT.
3. 1/4" R. @ EDGES. TYP.
4. PREMOLDED E.J. FILLER.
5. JOINT SEALANT. COLOR TO BE SELECTED BY LANDSCAPE ARCHITECT. SUBMIT COLOR SAMPLES PRIOR TO INSTALLATION.
6. BACKER ROD.
7. 18" #4 REBAR W/ 'SPEED DOWEL' @ 36" OC, CENTER IN CONC. AT COLD JOINTS & E.J.'S
8. CONTROL JOINTS 20 O.C MAX.
9. CONTRACTOR TO SUBMIT SHOP DRAWINGS OF CONTROL JOINT AND EXPANSION JOIN LAYOUT.

5 JOINT DETAIL
SCALE: NOT TO SCALE



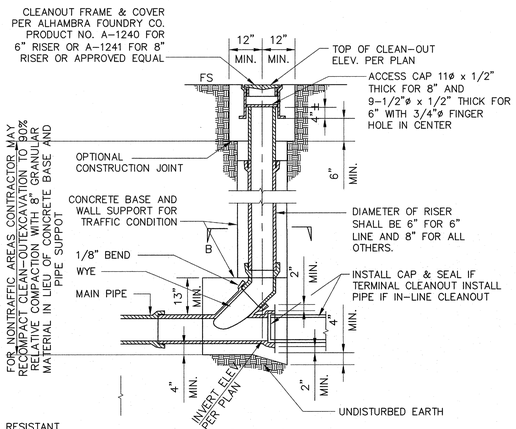
PLAN



SECTION B-B

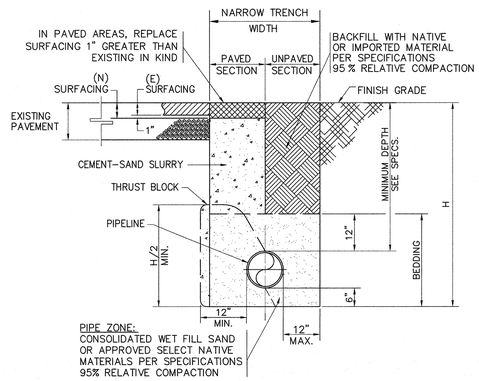
NOTE:

1. PROVIDE PRESSURE RESISTANT GRATE COVER WHEN CLEANOUT IS CONNECTED TO PRESSURIZED UTILITY LINE



SECTION A-A

6 CLEANOUT DETAIL
SCALE: NOT TO SCALE



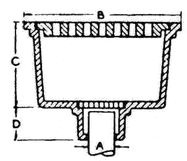
NOTES:

PAVEMENT FINISH SURFACE SHALL BE A SMOOTH CONTINUATION OF ADJOINING PAVED SURFACE.

NARROW UNSUPPORTED VERTICAL WALLED TRENCH WIDTH

NOMINALPIPE DIAMETER (INCHES)	NARROW TRENCH WIDTH MIN. (INCHES)
3	18
4	18
6	18
8	24
10	30
12	36

7 TRENCH SECTION
SCALE: NOT TO SCALE



A-344

AREA DRAINS

PLATE NUMBER	GRATE SIZE	INSIDE DEPTH	OUTLET SIZES	B	C	D	APPROX. WEIGHT
A-344	12 x 12	5 ½	4	14 x 14	6	1¾	50
A-344	13¾ x 13¾	5½	6	16 x 16	6	2¼	65

Note: On 6" Outlets D Equals 2¼ Inches.
A-344.4" Designed for Traffic.
A-344.6" Designed for Non-Traffic Only.

8 AREA DRAIN DETAIL
SCALE: NOT TO SCALE

tBP architecture planning interiors
tBP/Architecture
4611 Teller Avenue
Newport Beach, CA 92660
ph: 949.673.0300 fx: 949.732.3895
architect

MCA ENGINEERS INC
1041 E Garfield Ave. Suite #210
Alhambra, CA 91801
Tel: 323.729.6098
Fax: 323.729.6043
consultant

REGISTERED PROFESSIONAL ENGINEER
No. C36079
Exp. 6/30/20
CIVIL
STATE OF CALIFORNIA

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DIV. OF THE STATE ARCHITECT
AP/23 119149
JAN 7 2019

DSA Los Angeles Regional Office
700 N. Alameda Street, Suite 5-500
Los Angeles, California 90012
ph: (213)897-3995 fx: (213)897-3159/0726

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4444 CLOUD AVENUE
LA CRESCENTA, CALIFORNIA 91214

GLENDALE UNIFIED SCHOOL DISTRICT

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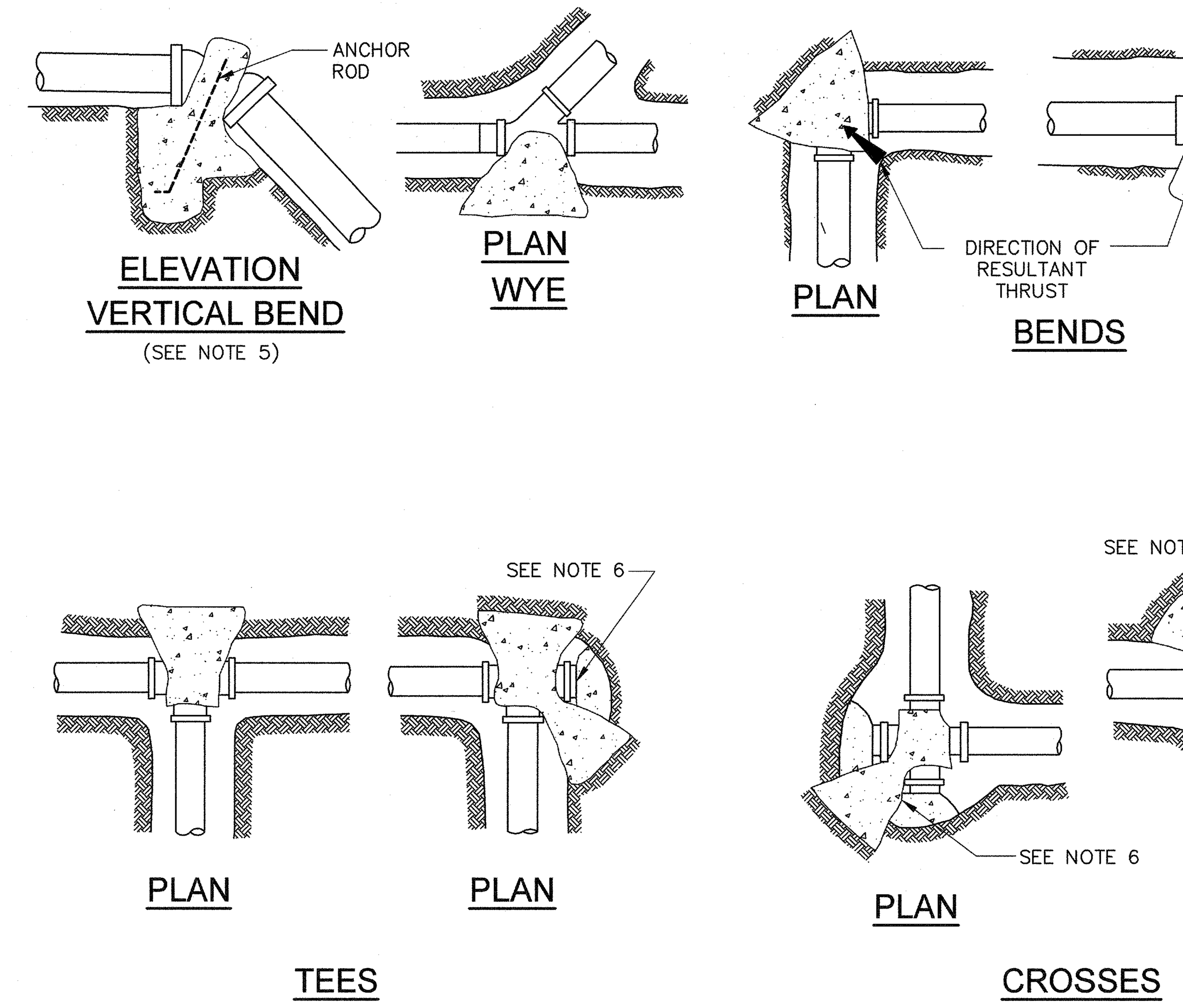


TABLE 1

MINIMUM BEARING AREAS IN SQ.FT.				
MAIN SIZE	TEE	90° BEND	45° BEND	22 1/2 BEND
6"	4	4	4	3

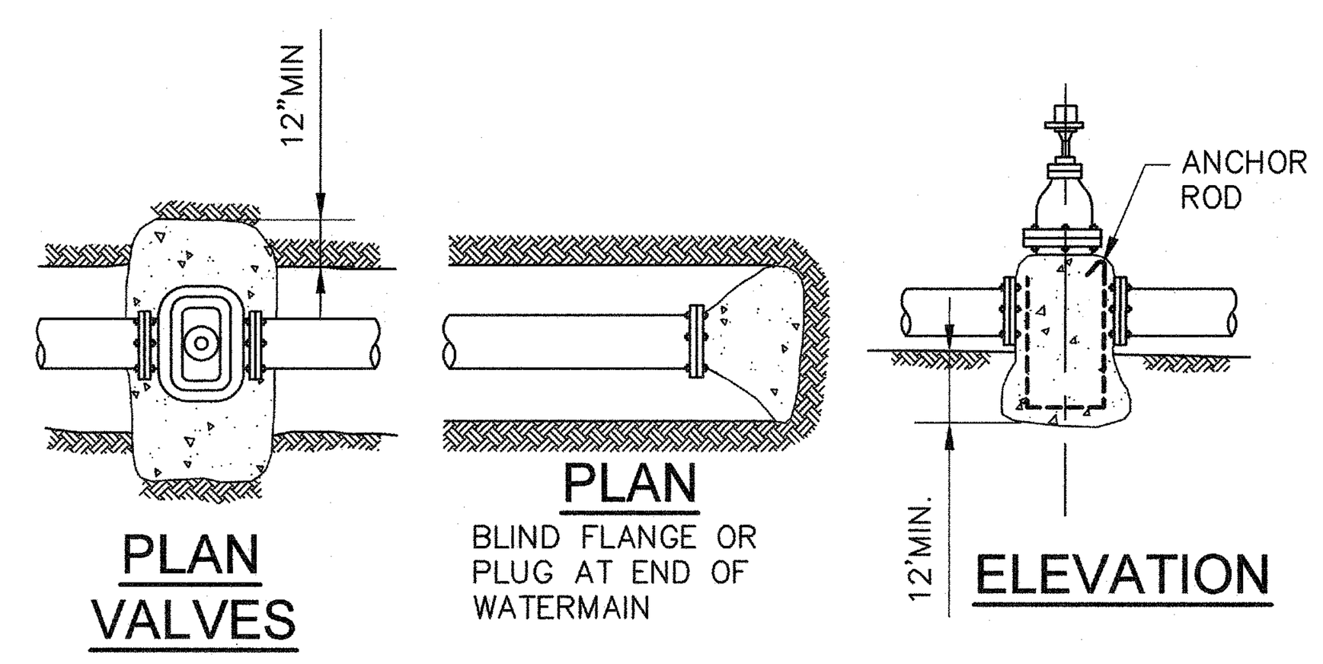
BASED ON 150 PSI W.W.R. PRESSURE & SOIL BEARING LOADS OF 2000 PSF THE RATIO OF WIDTH TO HEIGHT SHALL NOT EXCEED 1 1/2 TO 1

TEES,PLUGS,CAPS & HYDRANTS.

TABLE II

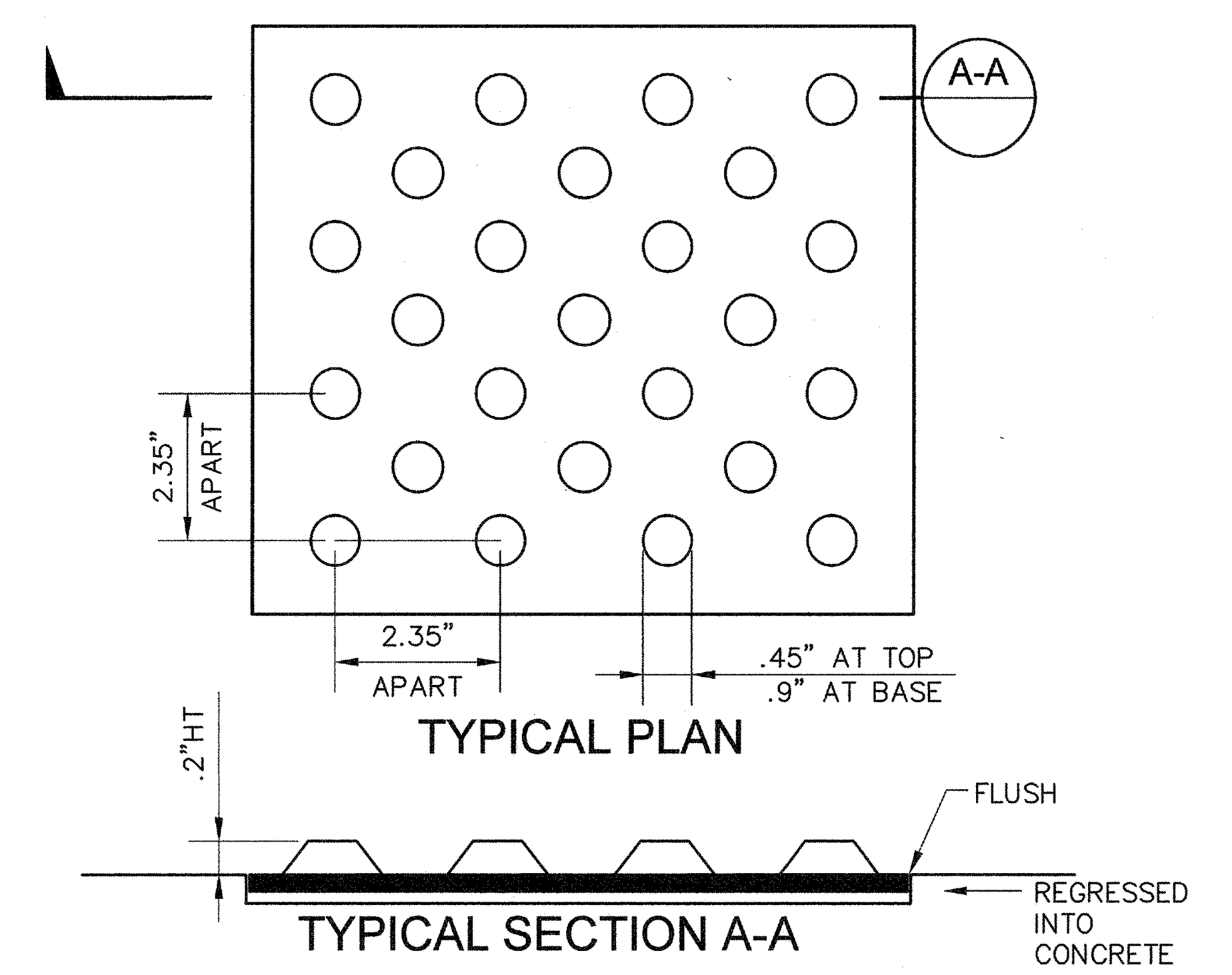
SOIL TYPE	MAX. ALLOWABLE SOIL BEARING VALUES	FACTORS FOR INCREASING AREAS IN TABLE 1
LOOSE SAND	500 PSF	4
SOFT SANDY CLAY	1000 PSF	2
ADOBE	1000 PSF	2
COMPACT FINE SAND	2000 PSF	1
COMPACT COARSE SAND	2000 PSF	1
MEDIUM STIFF CLAY	2000 PSF	1

THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE SAFE SOIL BEARING VALUES AND SIZE OF BEARING AREAS.
BASED ON 2 FEET MINIMUM DEPTH OF COVER OVER THE PIPE.

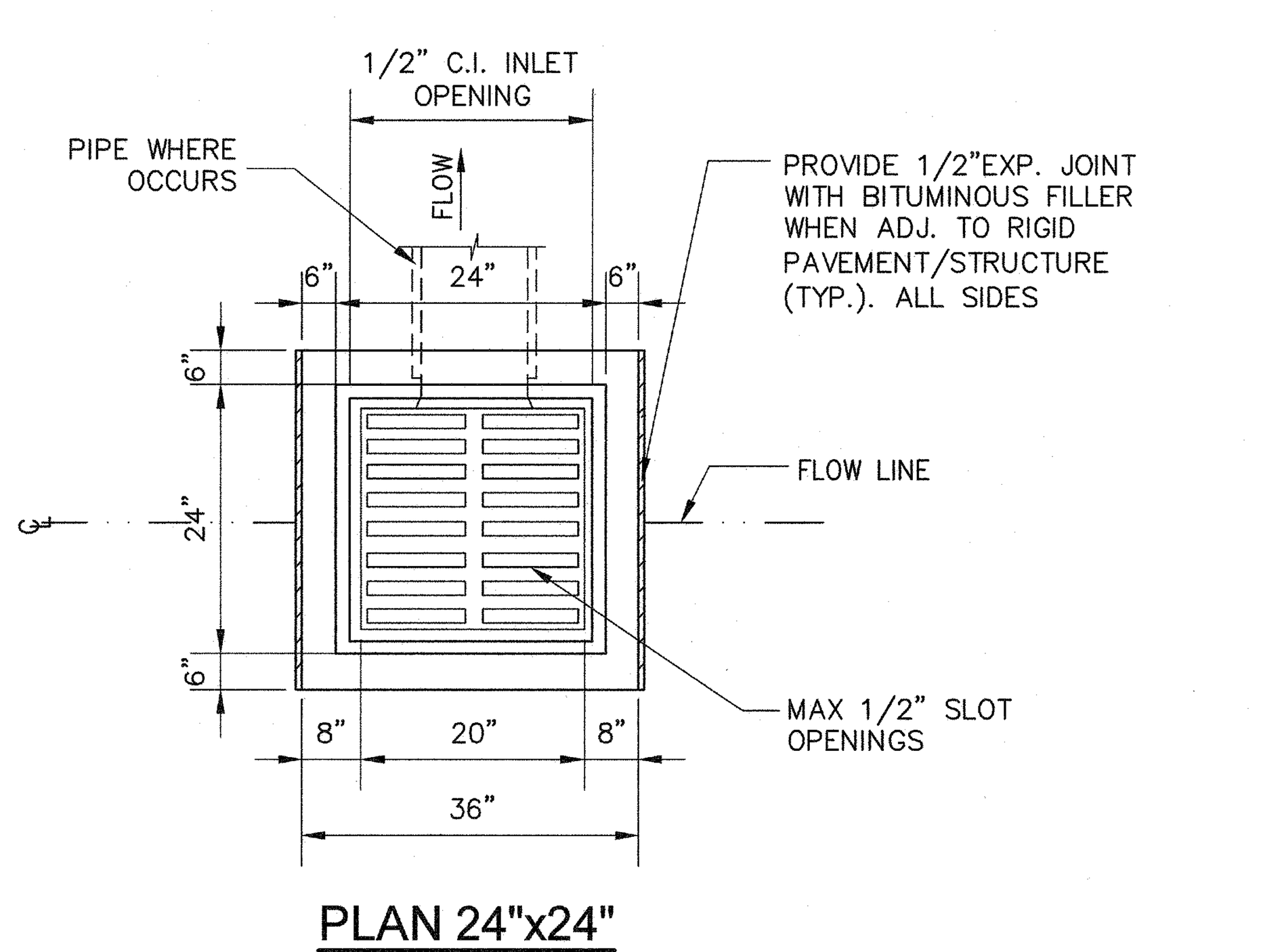


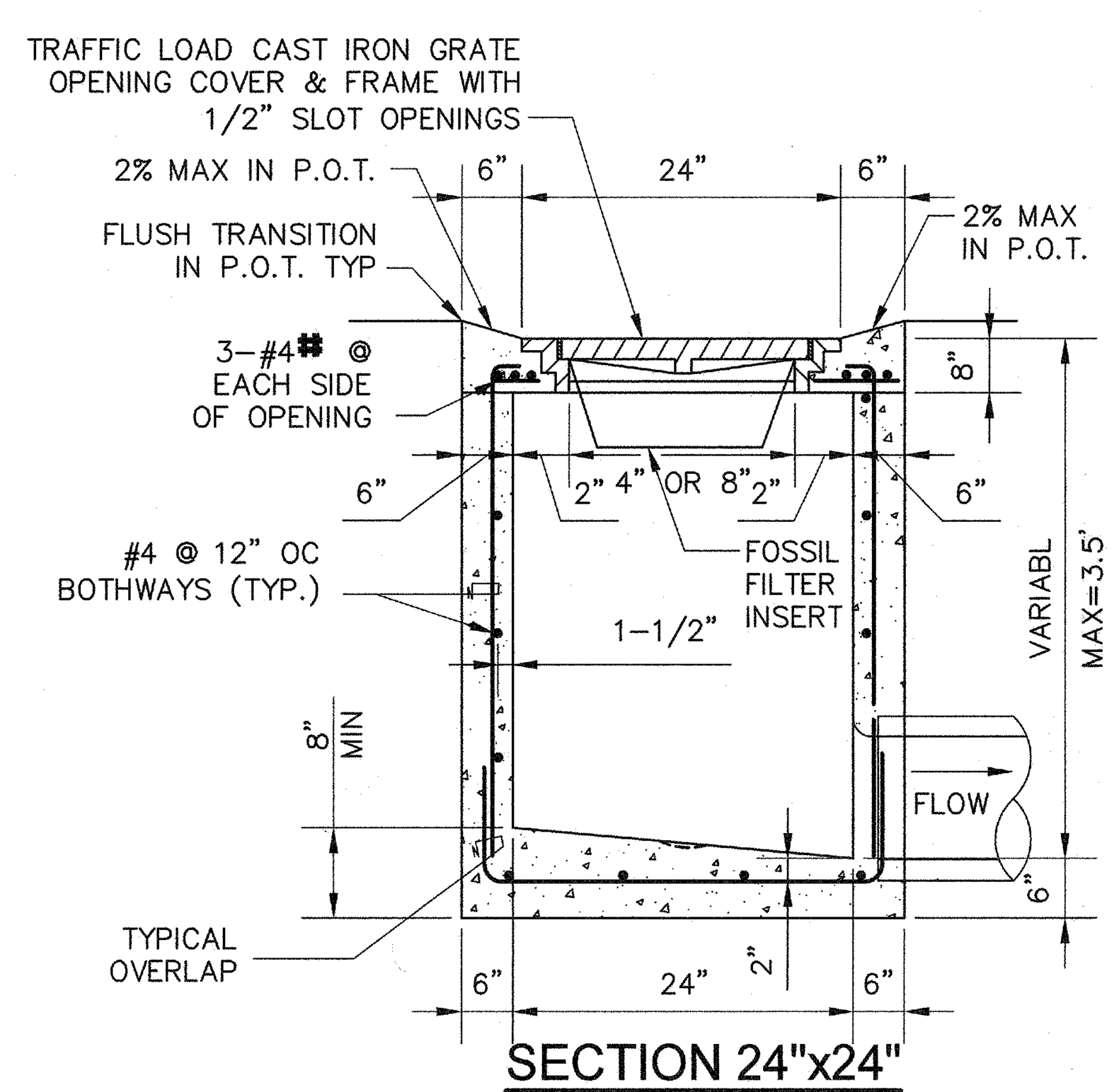
1. ALL ANCHOR AND THRUST BLOCKS SHALL BEAR AGAINST UNDISTURBED SOIL.
2. MINIMUM ALLOWABLE WATER PRESSURE FOR DESIGN OF THRUST BLOCKS IS 150 PSI. BEARING AREA INCREASE IN PRESSURE.
3. ALL CONCRETE USED IN THRUST BLOCKS SHALL ATTAIN 2000 PSI STRENGTH.
4. ALL ANCHOR RODS SHALL BE REINFORCING STEEL AND A MINIMUM OF 1/2-INCH IN DIAMETER.
5. USE ANCHOR BLOCKS AT VERTICAL BENDS WHEN PIPE IS ABOVE OR BELOW GROUND. SIZE OF BLOCK AND ROD SHALL BE AS SHOWN ON THE PLANS OR AS DETERMINED BY THE ENGINEER IN THE FIELD.
6. USE 30 POUND FELT TO INSURE COLD JOINT.
7. CONCRETE SHALL NOT COME INTO DIRECT WITH ASBESTOS CEMENT PIPE.

1 TYPICAL THRUST BLOCK DETAILS AND INSTALLATION
SCALE: NOT TO SCALE



2 TRUNCATED DOME DETAIL
SCALE: NOT TO SCALE





NOTES:

1. USE 3/4" DIA. PIPE BAR SPACERS ASSEMBLED ON (2) 1/2" DIA. RODS WITH THREADS AND NUTS AT BOTH ENDS.
2. ALL METAL PARTS SHALL BE GALVANIZED AFTER FABRICATION AND WELDING, AND BEFORE ASSEMBLING.
3. FRAME AND GRATE SHALL BE SIMILAR TO EISEL ENTERPRISES INC. ALHAMBRA FOUNDRY CO. LTD. SERIES MODEL NO. A-2010 OR BROOKS PRODUCTS, INC. OR APPROVED EQUAL. GRATES MUST COMPLY WITH ALL ADA REQUIREMENTS.
4. GRATES SHALL BE OF VANDAL-RESISTANT CONSTRUCTION WITH ½" MAX OPENINGS.
5. FRAME AND GRATE SHALL BE TRAFFIC-RATED WHEN INSTALLED IN VEHICLE, PARKING AREAS.
6. GRATE MUST COMPLY WITH ADA REQUIREMENTS.
7. PROVIDE ½" MAX GRID/OPENINGS IN GRATING IN THE DIRECTION OF TRAFFIC FLOW.
8. INSTALL FOSSIL FILTER, KRISTAR, (800) 579-8819, FLOGARD MODEL OR APPROVED EQUAL.
9. PROVIDE "NO DUMPING SYMBOL" PER DETAIL 6 SHEET C1.501.
10. SLOPE ADJACENT PAVEMENT AT 2% MAX TOWARDS GRATE WHEN PLACED WITHIN ACCESSIBLE PATH OF TRAVEL PER ARCHITECTURAL DRAWINGS.

3 CATCH BASIN DETAIL
SCALE: NOT TO SCALE

THRUSTBLOCK CALCULATION

PROJECT NAME: GUSD Cloud Preschool
PROJECT NUMBER: 1135-314
DATE: October 19, 2018 BY: VCA Engineers, Inc.

DETERMINE SOIL TYPE & BEARING STRENGTH:	BEARING STRENGTH LB / FT SQ.: MUCK: 0; SOFT CLAY: 1000; SILT: 1500; SANDY SILT: 3000; SAND: 4000; SANDY CLAY: 6000; HARD CLAY: 9000. *Assumed sandy silt per boring log	1000* LB / FT SQ.
DETERMINE CROSS SECTIONAL AREA OF PIPE INTERIOR:	PIPE SIZE / DUCTILE IRON/PLASTIC: 4" 18.10; 6" 37.39; 8" 64.33; 10" 96.77; 12" 136.85	37.39 SQ / IN
HIGHEST ANTICIPATED WATER PRESSURE:	*From fire flow test report at static pressure	100.00* P.S.I
ANGLE OF CHANGE & RESULTING THRUST ON FITTING:	T = Thrust; P = Water Pressure; A = Cross sectional area of pipes interior; T = 2 PA sin θ/2	90.00 DEG.; 5288 LBS THRUST
HEIGHT OF BLOCK (h):	Note: 1. Block height should be equal to or less than one half the total depth to the bottom of the block, but not less than the pipe diameter. 2. Block height should be chosen such that the calculated block width is between one & two times the height.	2.82 FEET
REQUIRED BLOCK AREA, WIDTH, DEPTH & VOLUME	Note: 1. Thrust blocks shall be of a concrete mix not leaner than: 1 part cement, 2-1/2 parts sand, 5 parts stone. 2. Where possible the bearing surface of the block should be placed against undisturbed soil. Where it is not possible, fill between the bearing surface and undisturbed soil must be compacted to at least 90% standard proctor density	7.93 sq.ft. REQUIRED AREA (A_s); 2.81 ft CALCULATED WIDTH (b); 1.41 ft CALCULATED DEPTH (b/2); 11.16 cu.ft. CALCULATED VOLUME (V)

THRUSTBLOCK CALCULATION

PROJECT NAME: GUSD Cloud Preschool
PROJECT NUMBER: 1135-314
DATE: October 19, 2018 BY: VCA Engineers, Inc.

BEARING STRENGTH	1000 LB / FT SQ.
CROSS SECTIONAL AREA OF PIPE INTERIOR	37.39 SQ / IN
HIGHEST ANTICIPATED WATER PRESSURE	100.00 P.S.I
ANGLE OF CHANGE	45.00 DEG.
RESULTING THRUST	2862 LBS THRUST
HEIGHT OF BLOCK (h)	2.07 FEET
REQUIRED AREA (A_s)	4.29 sq.ft.
CALCULATED WIDTH (b)	2.07 ft
CALCULATED DEPTH (b/2)	1.04 ft
CALCULATED VOLUME (V)	4.45 cu.ft.

THRUSTBLOCK CALCULATION

PROJECT NAME: GUSD Cloud Preschool
PROJECT NUMBER: 1135-314
DATE: October 19, 2018 BY: VCA Engineers, Inc.

BEARING STRENGTH	1000 LB / FT SQ.
CROSS SECTIONAL AREA OF PIPE INTERIOR	37.39 SQ / IN
HIGHEST ANTICIPATED WATER PRESSURE	100.00 P.S.I
ANGLE OF CHANGE	22.50 DEG.
RESULTING THRUST	1459 LBS THRUST
HEIGHT OF BLOCK (h)	1.48 FEET
REQUIRED AREA (A_s)	2.19 sq.ft.
CALCULATED WIDTH (b)	1.48 ft
CALCULATED DEPTH (b/2)	0.74 ft
CALCULATED VOLUME (V)	1.62 cu.ft.

architecture planning interiors
tBP/Architecture
4611 Teller Avenue
Newport Beach, CA 92660
ph: 949.673.0300 fx: 949.732.3895
architect

VCA ENGINEERS, INC.
1041 S Garfield Ave. Suite #210
Alhambra, CA 91801
consultant

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP 03 119140
JAN 7 2019

DSA Los Angeles Regional Office
700 N. Alameda Street, Suite 5-500
Los Angeles, California 90012
ph: (213)897-3995 fx: (213)897-3159/0726

CLOUD PRESCHOOL RELOCATABLES

4444 CLOUD AVENUE
LA CRESCENTA, CALIFORNIA 91214

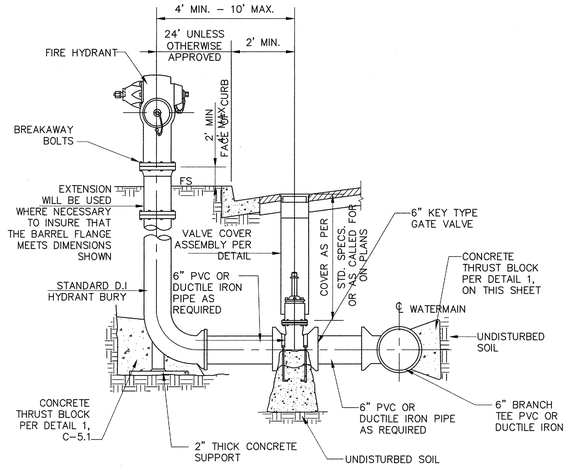
GLENDALE UNIFIED SCHOOL DISTRICT

owner

tBP project number: 20778.10
file name:
drawn by: checked by:
date: September 9, 2015
Rev: date: description:

drawing title:
MISCELLANEOUS DETAILS

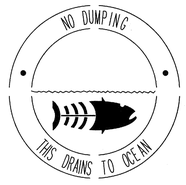
drawing no.:
C-5.1
drawing of



NOTES

1. BARRICADES, FENCES, WALLS, LANDSCAPING, ETC. SHALL NOT BE INSTALLED OR PLANTED WITHIN 3' OF A HYDRANT.
2. FIRE HYDRANT SHALL BE ONE OF THE FOLLOWING
   A. CLOW / RICH – NO. 550, 555 OR 850.
   B. JAMES JONES – NO. J3700 – FLUTED BARREL
   C. MUELLER – A480 – E
3. HYDRANT SHALL BE SUPPLIED WITH 2–1/2" x 4" OUTLETS AND 1–1/4" OR 1–3/4" PENTAGON NUTS ON CUPS AND OPERATING VALVES.
4. HYDRANT SHALL BE PAINTED WITH O.S.H.A. SAFETY YELLOW AMERITONE 719 OR APPROVED EQUAL.
5. HYDRANT BURY, VALVE AND TEE SHALL HAVE EITHER RING–TITE JOINTS OR MECHANICAL JOINTS COMPATIBLE WITH PIPE MATERIAL USED.
6. ALL PIPE AND FITTINGS FOR HYDRANT INSTALLATION SHALL BE CLASS 200.

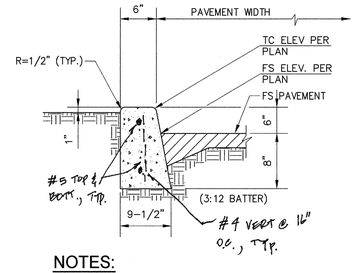
1 FIRE HYDRANT DETAIL
NOT TO SCALE



NOTES:

1. PROVIDE 8" MIN DIAMETER FOR STENCIL.
2. STENCIL IN BLUE PAINT NEAR ALL CATCH BASIN DRAINS TO READ "NO DUMPING, DRAINS TO OCEAN".
3. STENCILS MAY BE PURCHASED AT THE LOCAL COUNTY BUILDING AND SAFETY OFFICE.

2 NO DUMPING STENCIL
NOT TO SCALE



NOTES:

1. PROVIDE 1/4" EXPANSION JOINT WITH PREFORMED JOINT FILLER AT ALL ANGLE POINTS AND THE BEGINNING AND END OF ALL CURVES.
2. PROVIDE CONTRACTION JOINTS CONSISTING OF ONE INCH DEEP CUT SCORES AT 20' O.C. MAX.
3. WHERE A WALK IS ADJACENT TO THE CURB, THE JOINTS SHALL LINE WITH JOINTS IN THE WALK.

3 CONCRETE CURB DETAIL
SCALE: NOT TO SCALE

tBP
architecture
planning
interiors

tBP/Architecture
4611 Teller Avenue
Newport Beach, CA 92660
ph: 949.673.0300 fx: 949.732.3895

architect

VCA ENGINEERS INC
CIVIL ENGINEERS
1041 S Garfield Ave. Suite #210
Alhambra, CA 91801
Tel. 323.726.6566
Fax. 323.726.6043

REGISTERED PROFESSIONAL ENGINEER
No. C36078
Exp. 6/30/20
CIVIL
STATE OF CALIFORNIA

consultant

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP03 119140
JAN 7 2019

DSA Los Angeles Regional Office
700 N. Alameda Street, Suite 5-500
Los Angeles, California 90012
ph: (213)897-3995 fx: (213)897-3159/0726

CLOUD PRESCHOOL RELOCATABLES

4444 CLOUD AVENUE
LA CRESCENTA, CALIFORNIA 91214

GLENDALE UNIFIED SCHOOL DISTRICT

owner

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drawn by: checked by:
date: September 9, 2015

Rev:	date:	description:

drawing title:
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drawing no.:
C-5.2
drawing of

GENERAL NOTES

1. LOCATIONS OF ALL UTILITIES SHOWN ARE APPROXIMATE. CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN EXCAVATING AND TRENCHING TO AVOID INTERCEPTING EXISTING PIPING OR CONDUITS. THE ARCHITECT IS NOT RESPONSIBLE FOR THE LOCATION OF UNDERGROUND UTILITIES OR STRUCTURES WHETHER OR NOT SHOWN OR DETAILED AND INSTALLED BY OTHER CONTRACTS. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER SHOULD SUCH UNIDENTIFIED CONDITIONS BE DISCOVERED. THESE DRAWING DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY.
2. VERIFY ALL EXISTING AND FINISH GRADES, DIMENSIONS, AND SITE CONDITIONS BEFORE COMMENCING WORK AND REPORT ANY DISCREPANCIES TO THE ARCHITECT.

LEGEND

..... PATH OF TRAVEL (SEE NOTE BELOW)

PATH OF TRAVEL

DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE STATEMENT: THE POT IDENTIFIED IN THESE CONSTRUCTION DOCUMENTS IS COMPLIANT WITH THE CURRENT APPLICABLE CALIFORNIA BUILDING CODE ACCESSIBILITY PROVISIONS FOR THE PATH OF TRAVEL REQUIREMENTS FOR ALTERATIONS, ADDITIONS AND STRUCTURAL REPAIRS. AS PART OF THE DESIGN OF THIS PROJECT, THE POT WAS EXAMINED AND ANY ELEMENTS, COMPONENTS OR PORTIONS OF THE POT THAT WERE DETERMINED TO BE NONCOMPLIANT 1) HAVE BEEN IDENTIFIED AND 2) THE CORRECTIVE WORK NECESSARY TO BRING THEM INTO COMPLIANCE HAS BEEN INCLUDED WITHIN THE SCOPE OF THIS PROJECT'S WORK THROUGH DETAILS, DRAWINGS AND SPECIFICATIONS INCORPORATED INTO THESE CONSTRUCTION DOCUMENTS. ANY NONCOMPLIANT ELEMENTS, COMPONENTS OR PORTIONS OF THE POT THAT WILL NOT BE CORRECTED BY THIS PROJECT BASED ON VALUATION THRESHOLD LIMITATIONS OR A FINDING OF UNREASONABLE HARDSHIP ARE SO INDICATED IN THESE CONSTRUCTION DOCUMENTS.

DURING CONSTRUCTION, IF POT 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 PART OF THIS PROJECT BY MEANS OF A CONSTRUCTION CHANGE DOCUMENT.

PATH OF TRAVEL (P.O.T.) AS VERIFIED BY ARCHITECT IS:

- A COMMON BARRIER FREE ACCESSIBLE ROUTE AT LEAST 48" WIDE WITHOUT ANY ABRUPT VERTICAL CHANGES EXCEEDING ½" LEVELED AT 1:12 MAXIMUM SLOPE, EXCEPT THAT LEVEL CHANGES DO NOT EXCEED ¼" VERTICAL.
- THE PATH SURFACE IS SLIP RESISTANT, STABLE, FIRM, AND SMOOTH.
- PASSING SPACES AT LEAST 60" x 60" ARE LOCATED NOT MORE THAN 200' APART.
- CONTINUOUS GRADIENTS HAVE 60" LEVEL AREAS NOT MORE THAN 400' APART.
- CROSS SLOPE DOES NOT EXCEED 2%
- SLOPE IN THE DIRECTION OF TRAVEL IS LESS THAN 5%, UNLESS OTHERWISE INDICATED AS A RAMP.
- MAINTAIN P.O.T. FREE OF OVERHANGING OBSTRUCTIONS TO 80" MINIMUM, PROTRUDING OBJECTS GREATER THAN 4" PROJECTING FROM WALL OR EDGE AND 27" ABOVE FINISH GRADE.

ACCESSIBLE RESTROOMS

ACCESSIBLE PARKING ANALYSIS

(CBC TABLE 11B-6)

TOTAL PARKING STALLS	96 STALLS
PARKING STALLS	92 STALLS
ACCESSIBLE STALLS PROVIDED IN PROJECT (1 VAN ACCESSIBLE STALLS)	4 STALLS
REQUIRED ACCESSIBLE STALLS (1 VAN ACCESSIBLE STALL)	4 STALLS
SCHOOL BUS STALLS	14 STALLS

FLOOD DESIGN INFORMATION

THE FLOOD ZONE DESIGNATION	ZONE X
THE FLOOD INSURANCE RATE MAP (FIRM) PANEL DESIGNATION	06037C1375F
EFFECTIVE DATE OF THE FIRM	09-26-2008
BASE FLOOD ELEVATION (BFE)	N/A
APPLICABLE COMMUNITY ORDINANCE SECTION	N/A

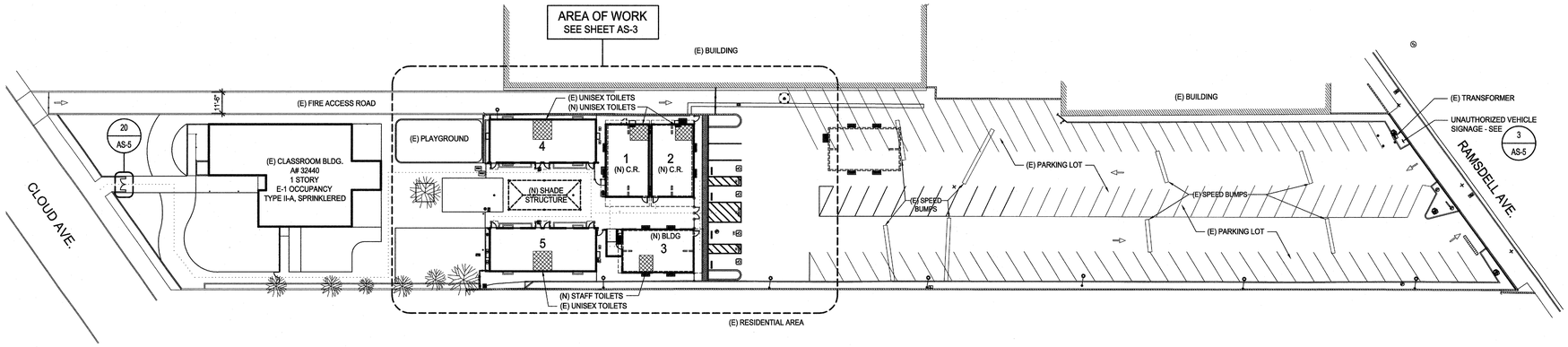
TEST & INSPECTION REQUIREMENTS (TITLE 24 PART 2 2016 CBC)

CHAPTER 22A STEEL
MATERIALS
- STRUCTURAL STEEL - PER 2205A.1
- COLD FORMED STEEL - PER 2210A.1

QUALITY
- TEST OF STRUCTURAL & COLD FORMED STEEL - PER 2211A1

INSPECTION
- SHOP FABRICATED - PER 1704A2.5, 1705A.2

CHAPTER 20
WELDING - PER 1705A2.2.1



0 7.5' 15' 30' 60'

SITE PLAN

SCALE: 1"= 30' - 0"

NORTH

BASIS OF BEARINGS

tBP
architecture
planning
interiors

tBP/Architecture
4611 Teller Avenue
Newport Beach, CA 92660
ph: 949.673.0300 fx: 949.732.3895

architect

consultant

FILE NO.: 19-41
IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
DEPARTMENT OF GENERAL SERVICES
A# 03-119149
ACCESS
DATE JAN 7 2019

DEPARTMENT OF GENERAL SERVICES
DSA Los Angeles Regional Office
700 N. Alameda Street, Suite 5-500
Los Angeles, California 90012
ph: (213)897-3995 fx: (213)897-3159/0726

CLOUD PRESCHOOL RELOCATABLES

4444 CLOUD AVENUE
LA CRESCENTA, CALIFORNIA 91214

GLENDALE UNIFIED SCHOOL DISTRICT

owner

tBP project number : 20778.10

file name:

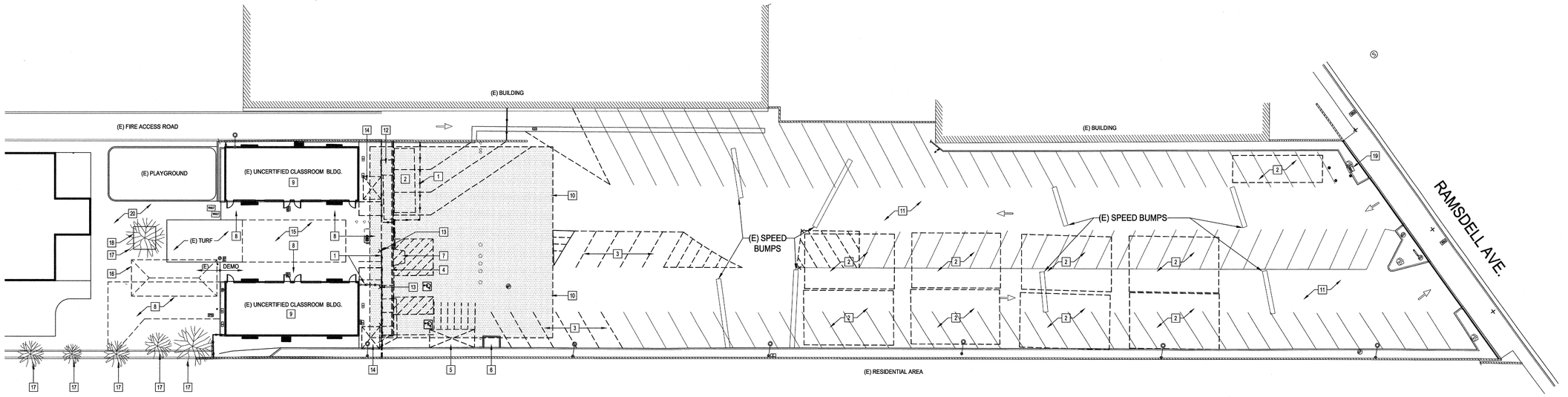
drawn by: checked by:

date: August 14, 2018

Rev:	date:	description:

drawing title:
OVERALL CAMPUS SITE PLAN

drawing no.:
AS-1
drawing of



0 10' 20' 40' 80'

DEMOLITION SITE PLAN

SCALE: 1"= 20' - 0"

project north

true north

LEGEND

SAWCUT AND REMOVE EXISTING A.C. PAVING AND BASE PER CIVIL DWGS.

ITEMS TO BE DEMOLISHED OR REMOVED

DEMOLITION NOTES

1. REMOVE EXISTING CHAINLINK FENCING AND GATES
2. RELOCATE EXISTING BUILDING IN ITS ENTIRETY (DSA A# 38583) PER DISTRICT'S DIRECTION
3. REMOVE EXISTING PAVEMENT MARKING/STRIPING
4. REMOVE EXISTING CONCRETE CURB AND GUTTER
5. DISTRICT TO REMOVE / RELOCATE EXISTING EMERGENCY STORAGE BIN - COMPLY WITH DSA IR A-27
6. RELOCATE EXISTING TRASH BIN AND CONC. WHEEL STOPS PER DISTRICT'S DIRECTION
7. REMOVE EXISTING CONC. CURB RAMP
8. REMOVE EXISTING CONCRETE PAVING - SEE CIVIL DWGS.
9. EXISTING UNCERTIFIED BUILDING TO REMAIN
10. SAWCUT AND REMOVE EXISTING A.C. PAVING AND BASE PER CIVIL DWGS.
11. EXISTING PARKING LOT TO REMAIN
12. REMOVE EXISTING RAMP
13. REMOVE EXISTING ACCESSIBLE PARKING STALL SIGN
14. RELOCATE EXISTING STORAGE CONTAINER PER DISTRICT'S DIRECTION - COMPLY WITH DSA IR A-27
15. REMOVE (E) TURF
16. REMOVE (E) SHADE STRUCTURE IN ITS ENTIRELY
17. (E) TREES TO REMAIN
18. (E) PLANTER TO REMAIN
19. (E) TRANSFORMER - PROTECT IN PLACE
20. (E) CONCRETE TO REMAIN

GENERAL NOTES

1. WHERE DEMOLITION OR REMOVAL WORK OCCURS, TAKE ALL NECESSARY PRECAUTIONS TO PROTECT ELEMENTS TO REMAIN. FINISHED WORK DAMAGED BY OPERATIONS UNDER DEMOLITION CONTRACT SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE OWNER AND ARCHITECT AT NO ADDITIONAL COST TO THE OWNER.
2. DISPOSITION OF MATERIALS: PROMPTLY REMOVE FROM THE SITE ALL MATERIALS RESULTING FROM DEMOLITION WHICH ARE NOT TO BE REUSED.
3. COORDINATE REMOVAL OF ALL ELECTRICAL FIXTURES, CONDUITS, AND JUNCTION BOXES WITH ELECTRICAL CONTRACTOR.
4. REFER TO CIVIL AND UTILITY PLANS FOR ADDITIONAL DEMOLITION WORK AND COORDINATION FOR TERMINATION POINTS OF UTILITIES.
5. ALL DEMOLITION SHALL COMPLY WITH CH. 34 OF THE CBC AND ARTICLE 87 CFC.
6. WHERE AN EXISTING REQUIRED FIRE PROTECTION SYSTEM WILL BE TEMPORARILY OUT OF SERVICE DUE TO CONSTRUCTION ACTIVITIES, COMPLY WITH CFC SECTION 1408 AND 901.
7. DURING THE OVER-EXCAVATION PROCESS THE CONTRACTOR MAY ENCOUNTER COBBLE EXCESS OF 6". CONTRACTOR WILL BE RESPONSIBLE FOR REMOVAL AND DISPOSAL OF ANY AND ALL SOIL, ORGANICS, AND COBBLE MATERIAL.
8. SEE SHEET AS-3 FOR REMODEL SITE PLAN.

tBP architecture planning interiors

tBP/Architecture
4611 Teller Avenue
Newport Beach, CA 92660
ph: 949.673.0300 fx: 949.732.3895

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4444 CLOUD AVENUE
LA CRESCENTA, CALIFORNIA 91214

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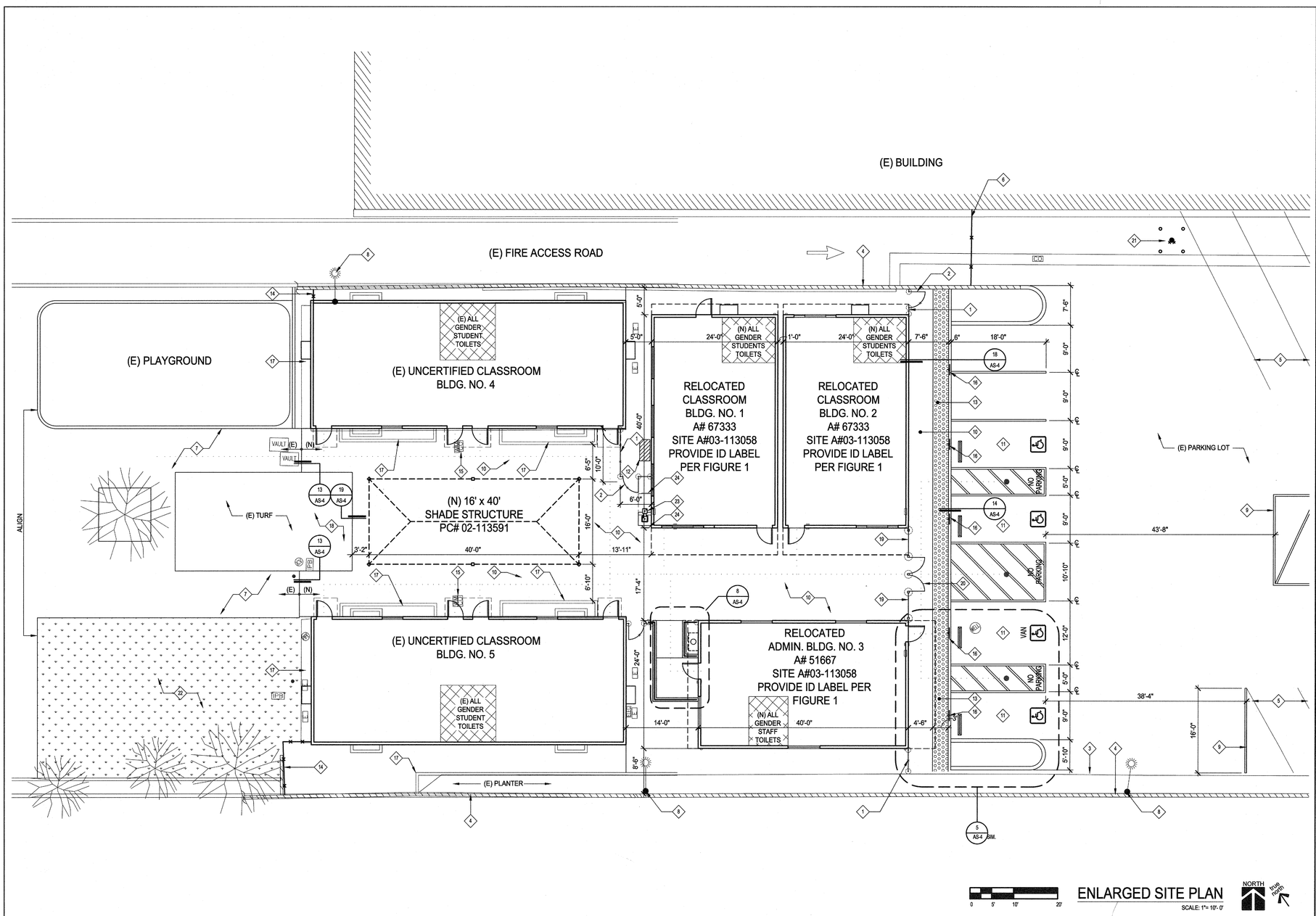
DEMOLITION SITE PLAN

drawing no.:
AS-2
drawing of



ENLARGED SITE PLAN

SCALE: 1"= 10'- 0'

CONSTRUCTION KEYNOTES

1. CHAIN LINK FENCE PER 17/AS-5
2. CHAIN LINK FENCE GATE PER 18/AS-5
3. EXISTING CONCRETE CURB
4. EXISTING C.M.U. RETAINING WALL
5. EXISTING PARKING SPACES
6. EXISTING FIRE ACCESS GATE TO REMAIN
7. EXISTING CONC. WALK TO REMAIN
8. EXISTING LIGHT FIXTURE TO REMAIN
9. NEW PARKING LOT STRIPING
10. CONC. WALK PER CIVIL DWGS.
11. ACCESSIBLE PARKING STALL SEE DETAIL 5/AS-4
12. ELECTRICAL DISTRIBUTION PANEL. SEE ELECTRICAL DWGS.
13. TACTILE PANELS - SEE DETAIL 10/AS-5
14. (E) CHAIN LINK FENCE TO REMAIN
15. (E) VAULTS TO REMAIN
16. (N) ACCESSIBLE PARKING SIGNS - SEE DETAILS 8 & 13/AS-5
17. EXISTING PLANTER TO REMAIN
18. MODIFY (E) TURF WITH NEW CONCRETE WALK AS REQUIRED
19. (N) DECORATIVE FENCE - SEE DETAIL 15/AS-5
20. (N) GATE - SEE DETAIL 20/AS-5
21. (N) FIRE HYDRANT - SEE CIVIL DWGS.
22. (N) TURF - SEE DETAIL
23. (N) DRINKING FOUNTAIN - SEE DETAIL 11/AS-5
24. (N) GUARDRAIL - SEE DETAIL 16/AS-5

GENERAL NOTES

1. DETERIORATION OR EXISTING NON-COMPLIANT CONSTRUCTION:
   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 ORIGINAL CONSTRUCTION, THE CONDITION MUST BE CORRECTED IN ACCORDANCE WITH CURRENT CODE REQUIREMENTS. A CHANGE ORDER, OR A SEPARATE SET OF PLANS AND SPECIFICATIONS DETAILING AND SPECIFYING THE REQUIRED REPAIR WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE REPAIR WORK.
2. VERIFY ALL EXISTING AND FINISH GRADES, DIMENSIONS AND SITE CONDITIONS BEFORE COMMENCING WORK AND REPORT ANY DISCREPANCIES TO THE ARCHITECT.
3. LOCATIONS OF ALL UTILITIES SHOWN ARE APPROXIMATE. CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN EXCAVATING AND TRENCHING TO AVOID INTERCEPTING EXISTING PIPING OR CONDUITS. THE ARCHITECT IS NOT RESPONSIBLE FOR THE LOCATION OF UNDERGROUND UTILITIES OR STRUCTURES WHETHER OR NOT SHOWN OR DETAILED AND INSTALLED BY OTHER CONTRACTS. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER SHOULD SUCH UNIDENTIFIED CONDITIONS BE DISCOVERED.
4. CONTRACTOR IS TO PATCH AND REPAIR FLUSH, THE EXISTING CONCRETE WALK AS REQUIRED TO INSTALL THE UNDERGROUND UTILITIES.

LEGEND

PATH OF TRAVEL

PATH OF TRAVEL

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- SLOPE IN THE DIRECTION OF TRAVEL IS LESS THAN 5%, UNLESS OTHERWISE INDICATED AS A RAMP.
- MAINTAIN P.O.T. FREE OF OVERHANGING OBSTRUCTIONS TO 80" MINIMUM, PROTRUDING OBJECTS GREATER THAN 4" PROJECTING FROM WALL OR EDGE AND 27" ABOVE FINISH GRADE.

ACCESSIBLE RESTROOMS

FIGURE 1 - SAMPLE IDENTIFICATION LABEL

DSA A#:	DESIGN ROOF LIVE LOAD: 20
CBC EDITION:	DESIGN FLOOR LIVE LOAD: 50
MANUF. OR BUILDER'S NAME:	DESIGN WIND SPEED: 115
SERIAL NUMBER:	EXPOSURE CATEGORY: C
DESIGN CLIMATE ZONES:	SEISMIC DESIGN PARAMETERS Ss: 2.718

tBP
architecture
planning
interiors

tBP/Architecture
4611 Teller Avenue
Newport Beach, CA 92660
ph: 949.673.0300 fx: 949.732.3895

architect

consultant

FILE NO.: 19-41
IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
DEPARTMENT OF GENERAL SERVICES
A# 03-119149
ACCEPTED FOR FILING
DATE JAN 7 2019

DEPARTMENT OF GENERAL SERVICES
DSA Los Angeles Regional Office
700 N. Alameda Street, Suite 5-500
Los Angeles, California 90012
ph: (213)897-3995 fx: (213)897-3159/0726

CLOUD PRESCHOOL RELOCATABLES

4444 CLOUD AVENUE
LA CRESCENTA, CALIFORNIA 91214

GLENDALE UNIFIED SCHOOL DISTRICT

owner

tBP project number : 20778.10

file name:

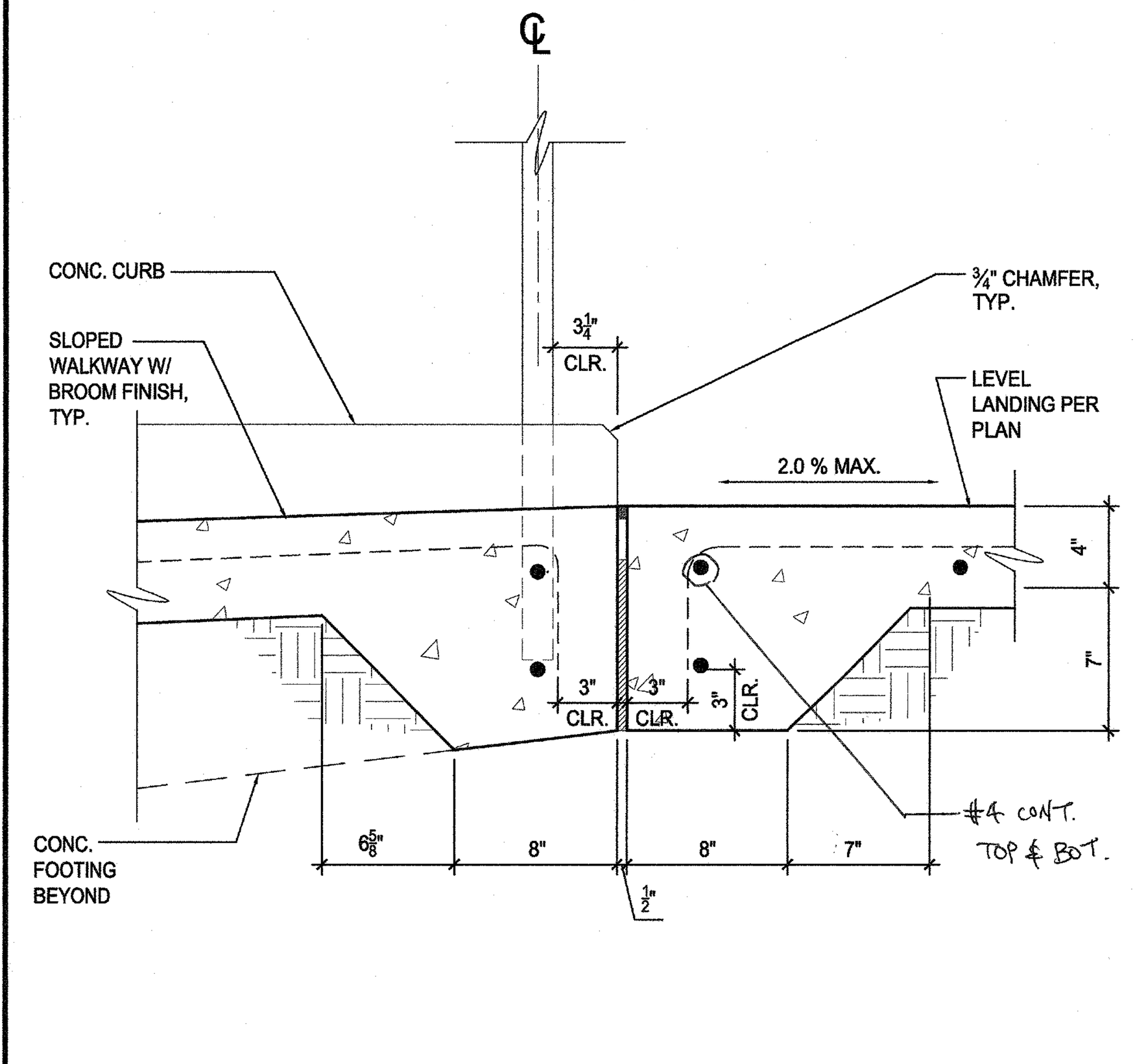
drawn by: checked by:

date: August 14, 2018

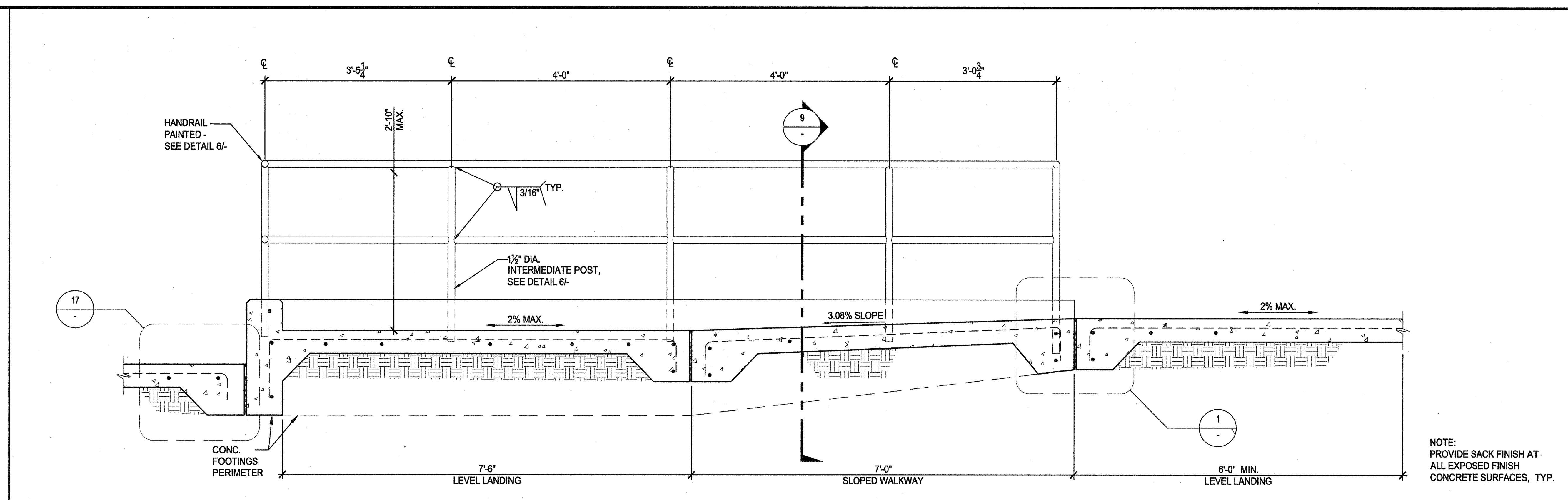
Rev:	date:	description:

drawing title:
ENLARGED SITE PLAN

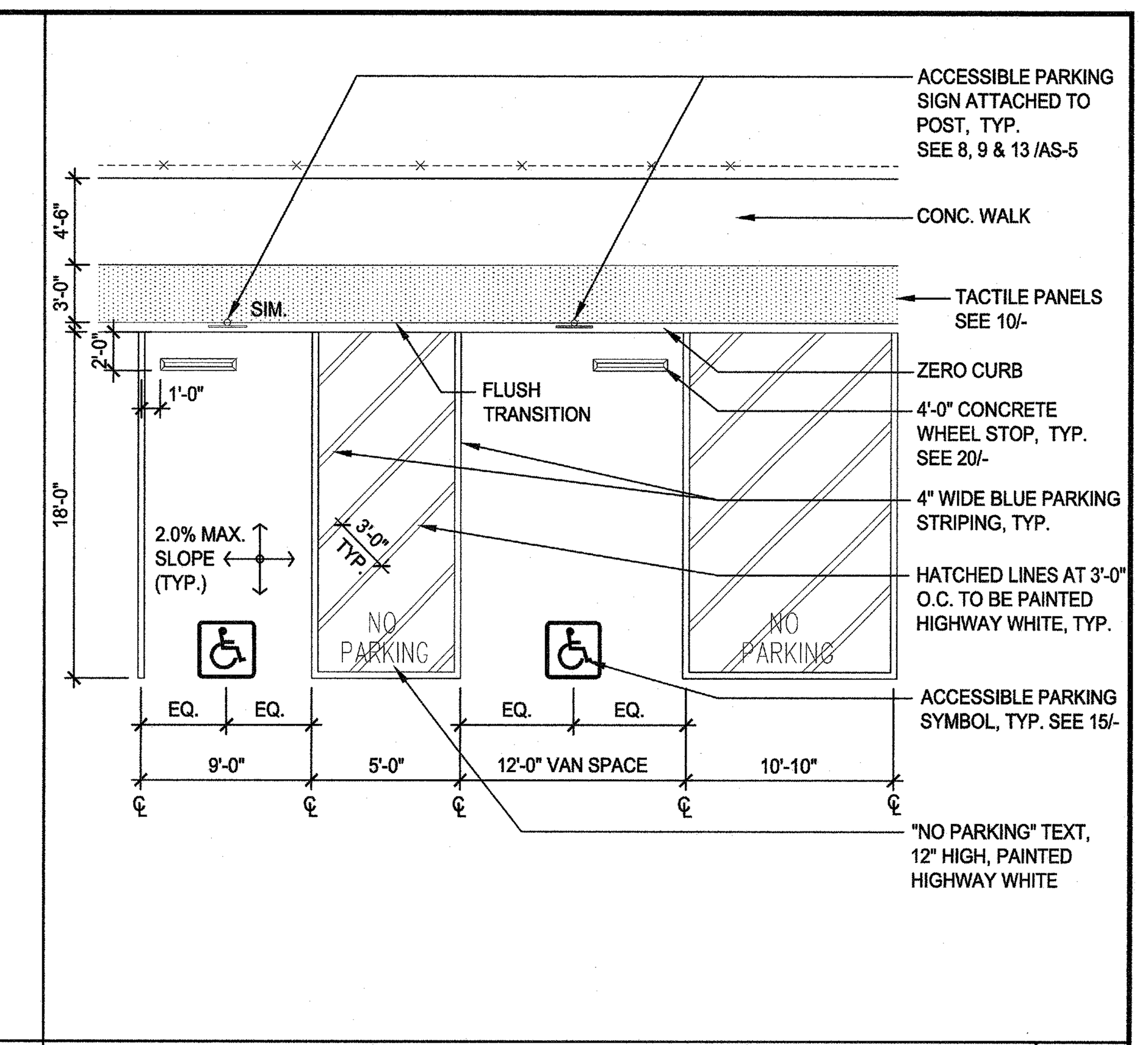
drawing no.:
AS-3
drawing of



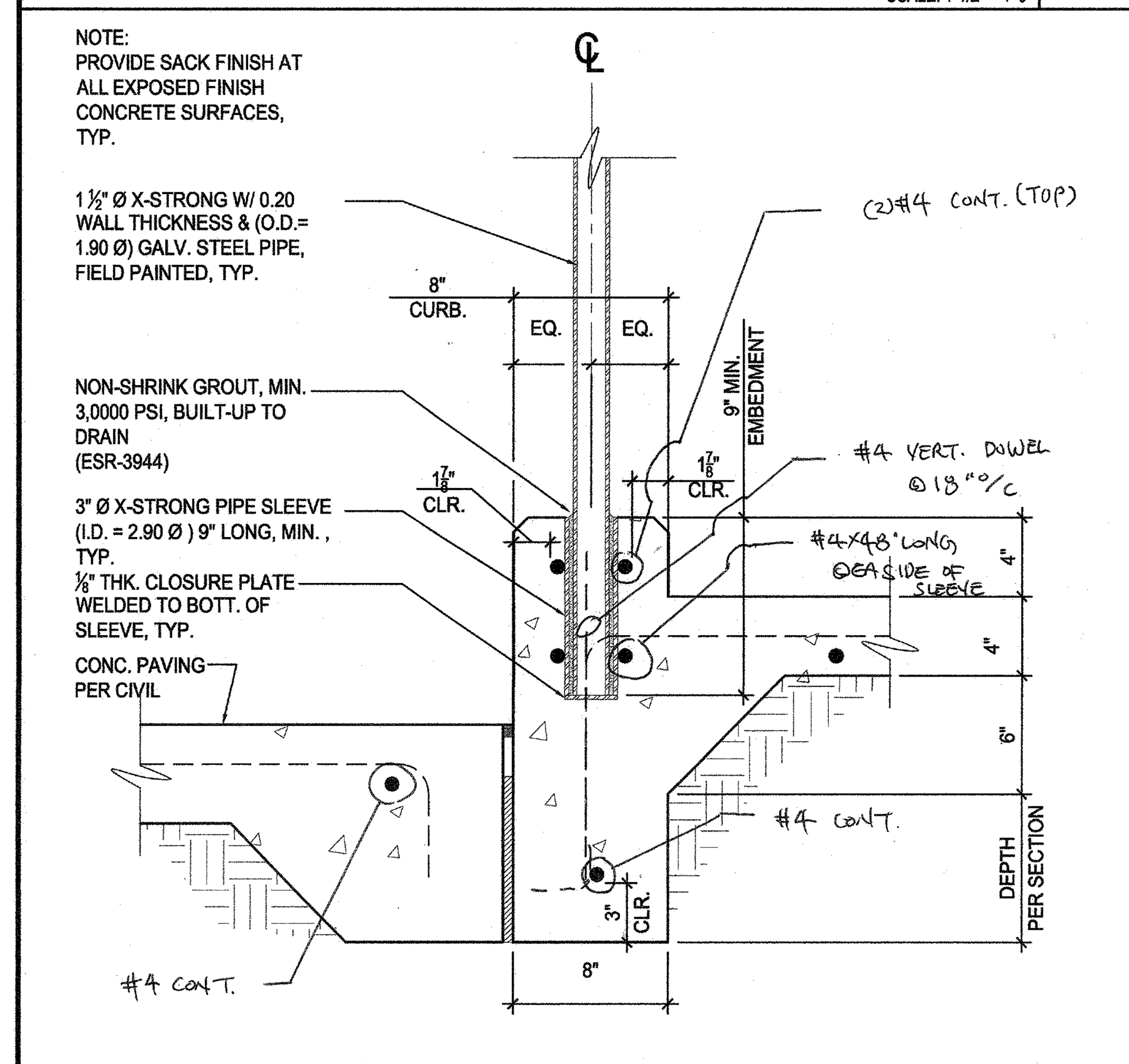
SLOPED WALKWAY TOP LANDING 1
SCALE: 1-1/2" = 1'-0"



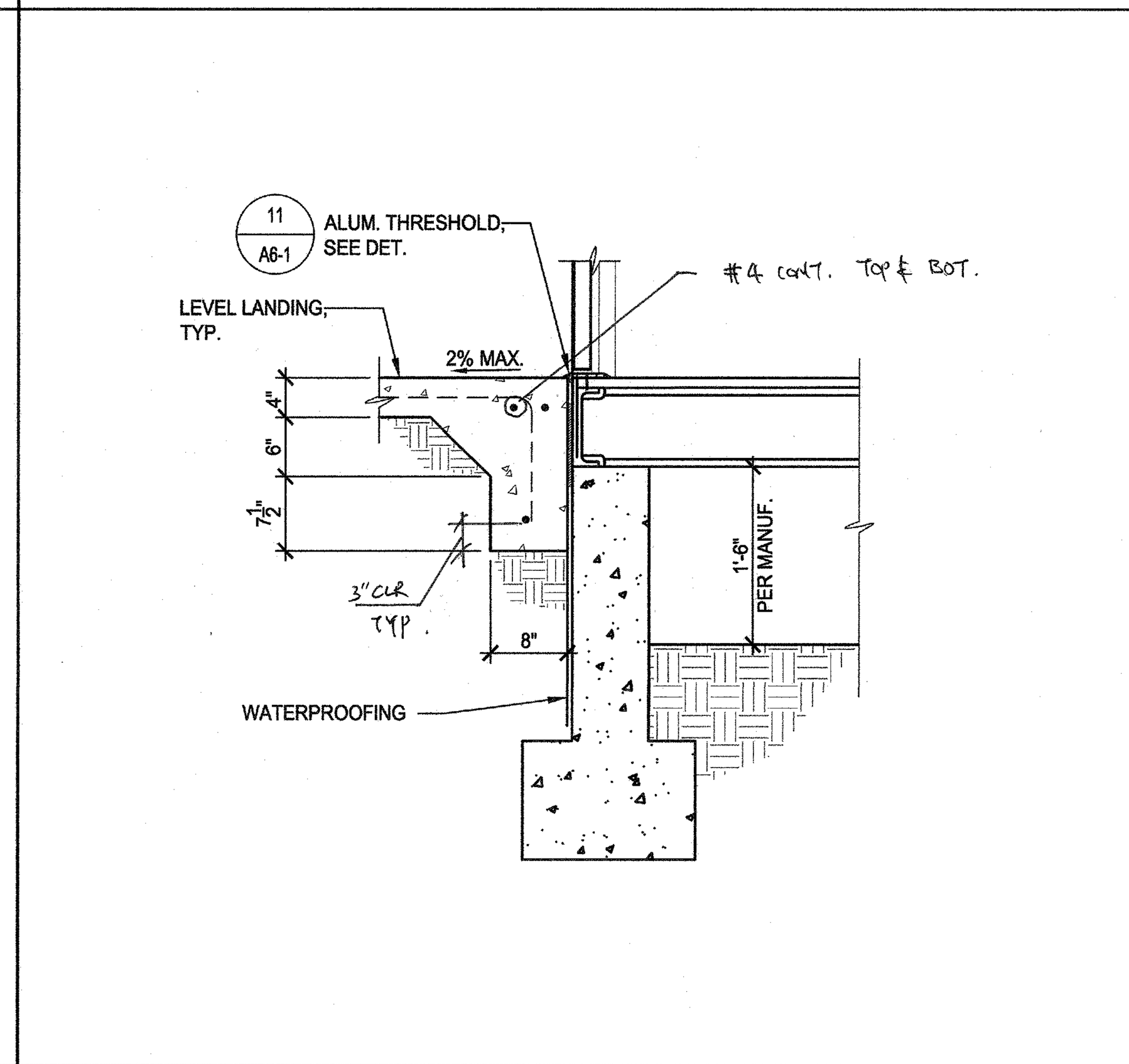
CONCRETE SLOPED WALKWAY - LONGITUDINAL SECTION 4
SCALE: 3/4" = 1'-0"



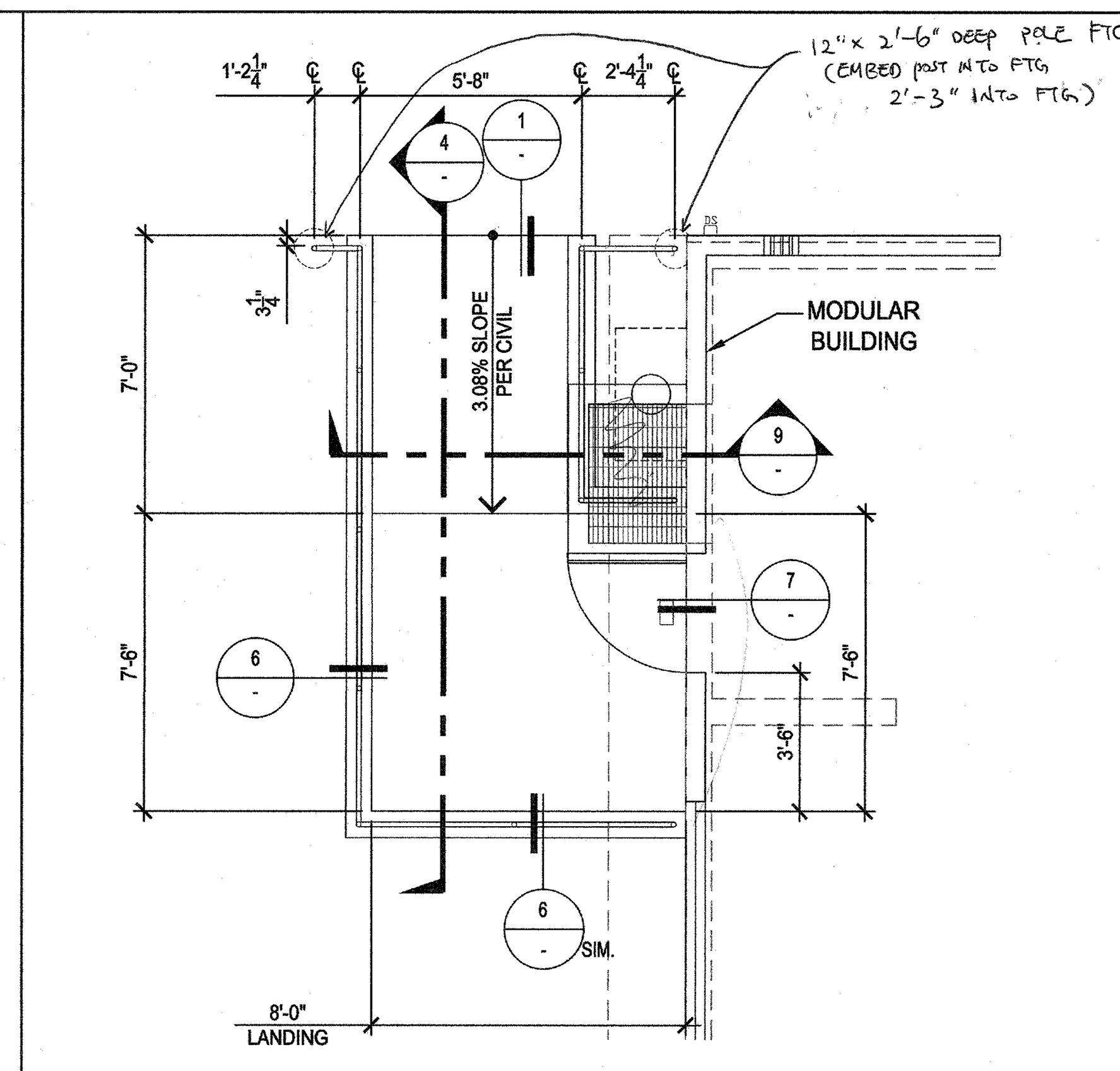
ACCESSIBLE PARKING STALL 5
SCALE: 1/8" = 1'-0"



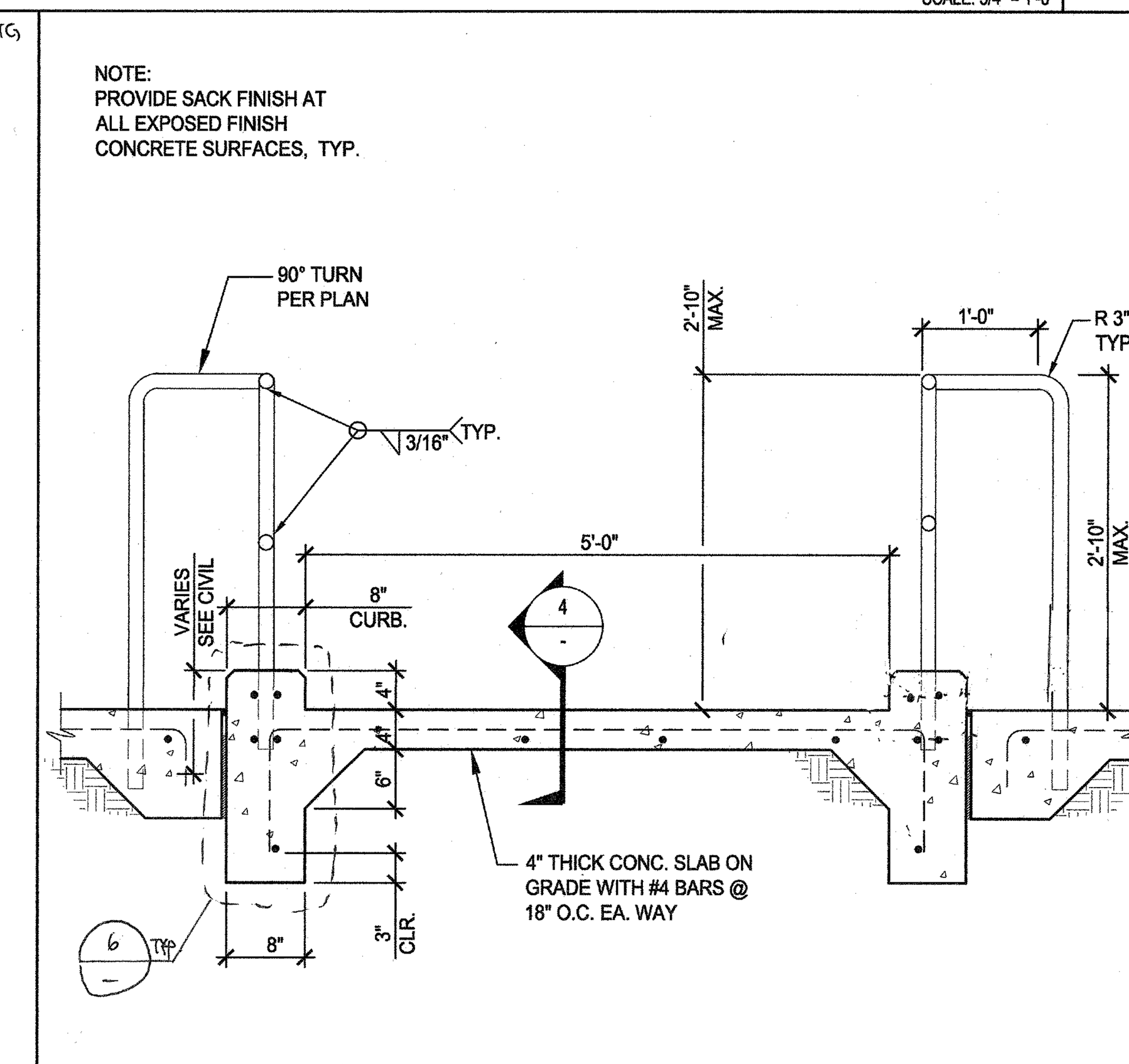
CONC. CURB & POST 6
SCALE: 1-1/2" = 1'-0"



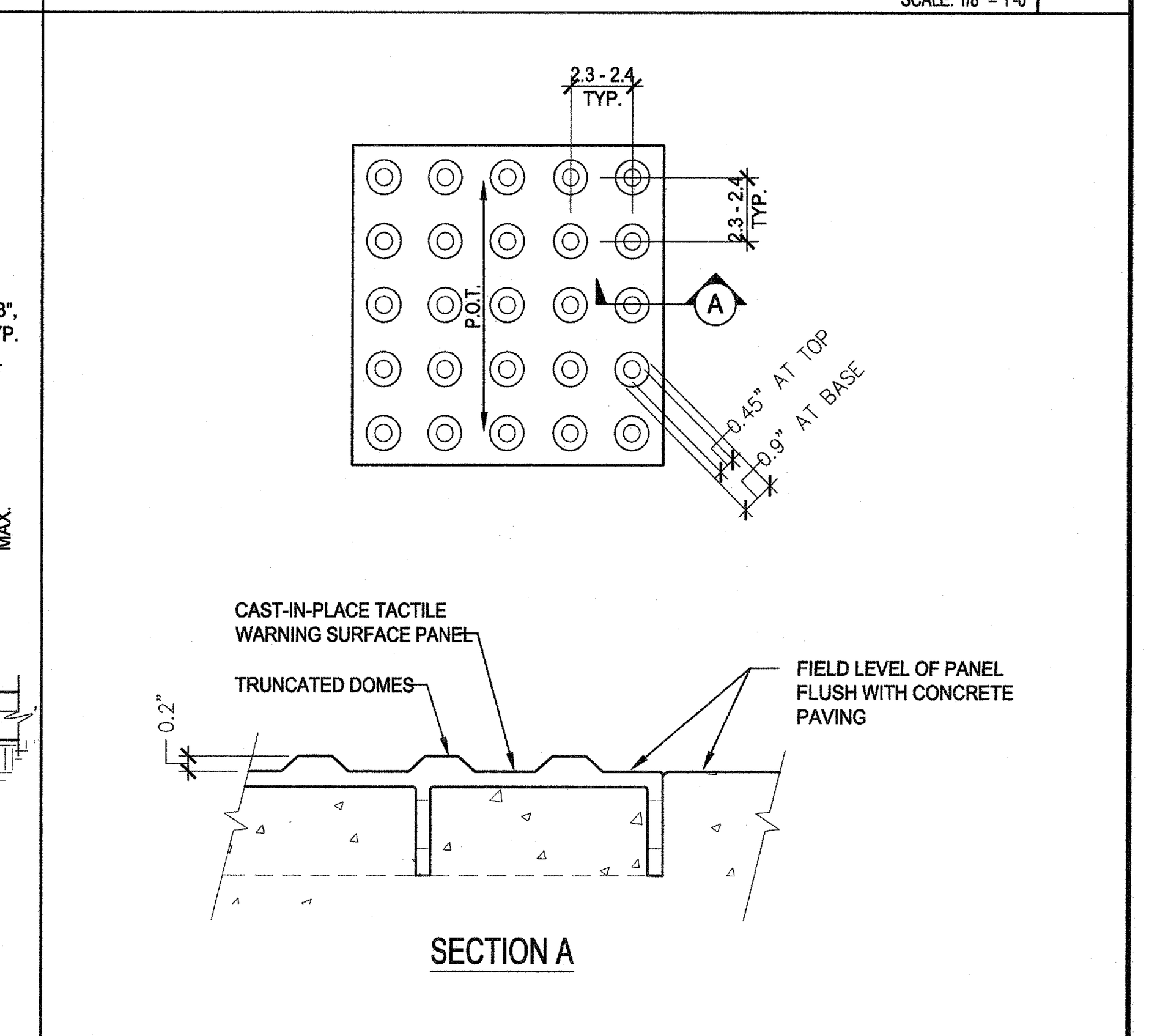
EXTERIOR THRESHOLD AT LANDING 7
SCALE: 3/4" = 1'-0"



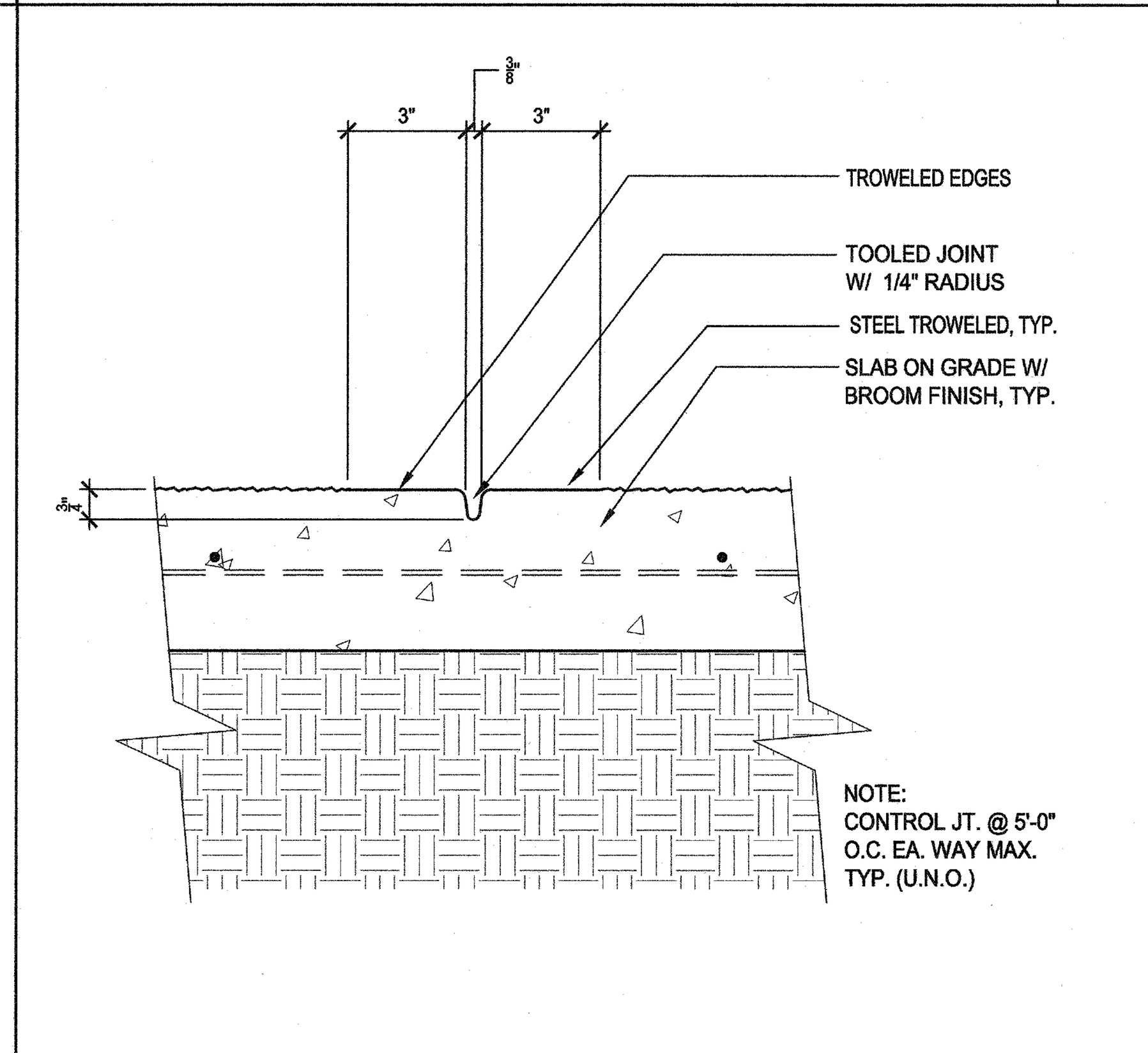
SLOPED WALKWAY PLAN 8
SCALE: 1/4" = 1'-0"



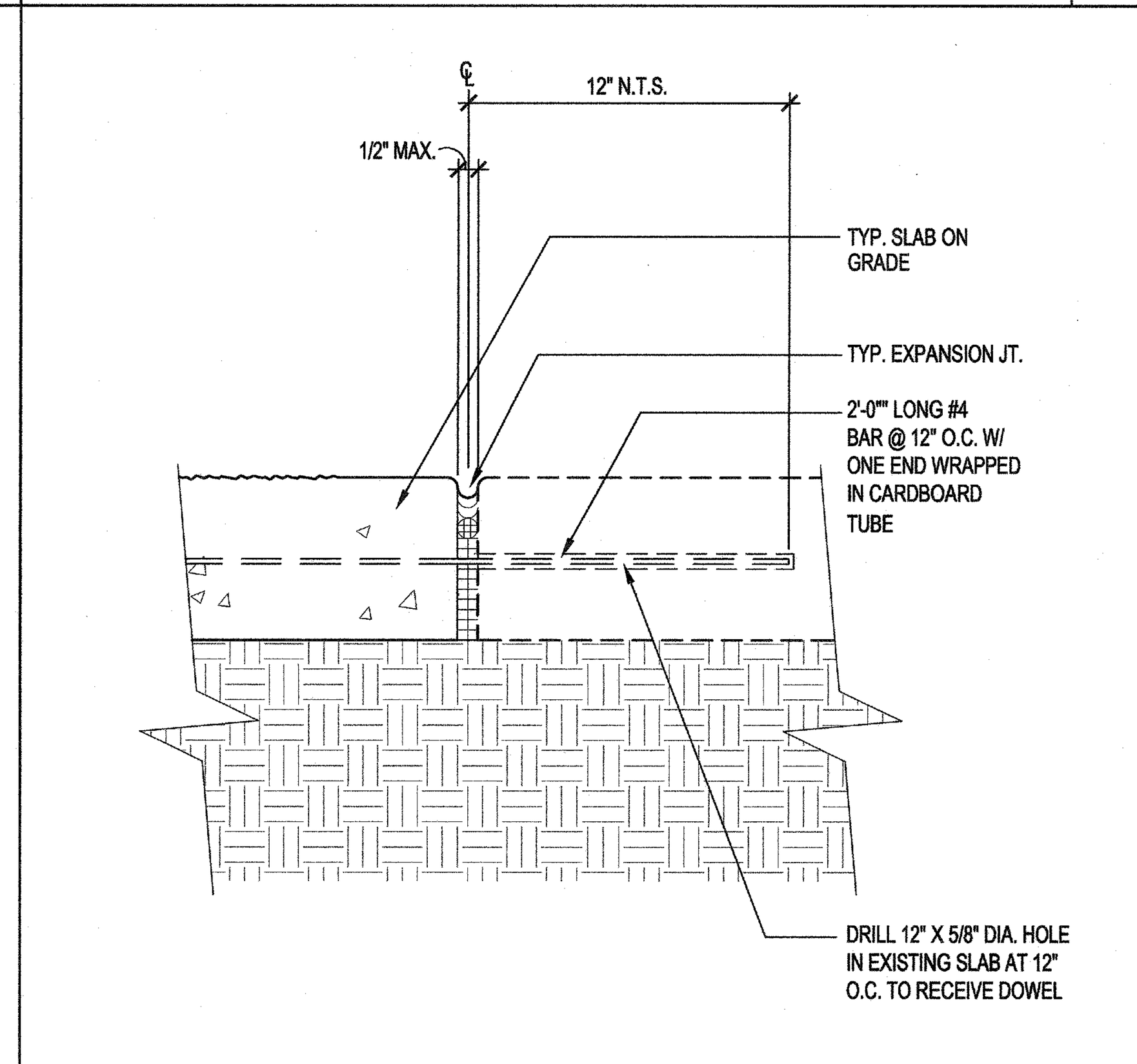
SLOPED WALKWAY CROSS SECTION 9
SCALE: 3/4" = 1'-0"



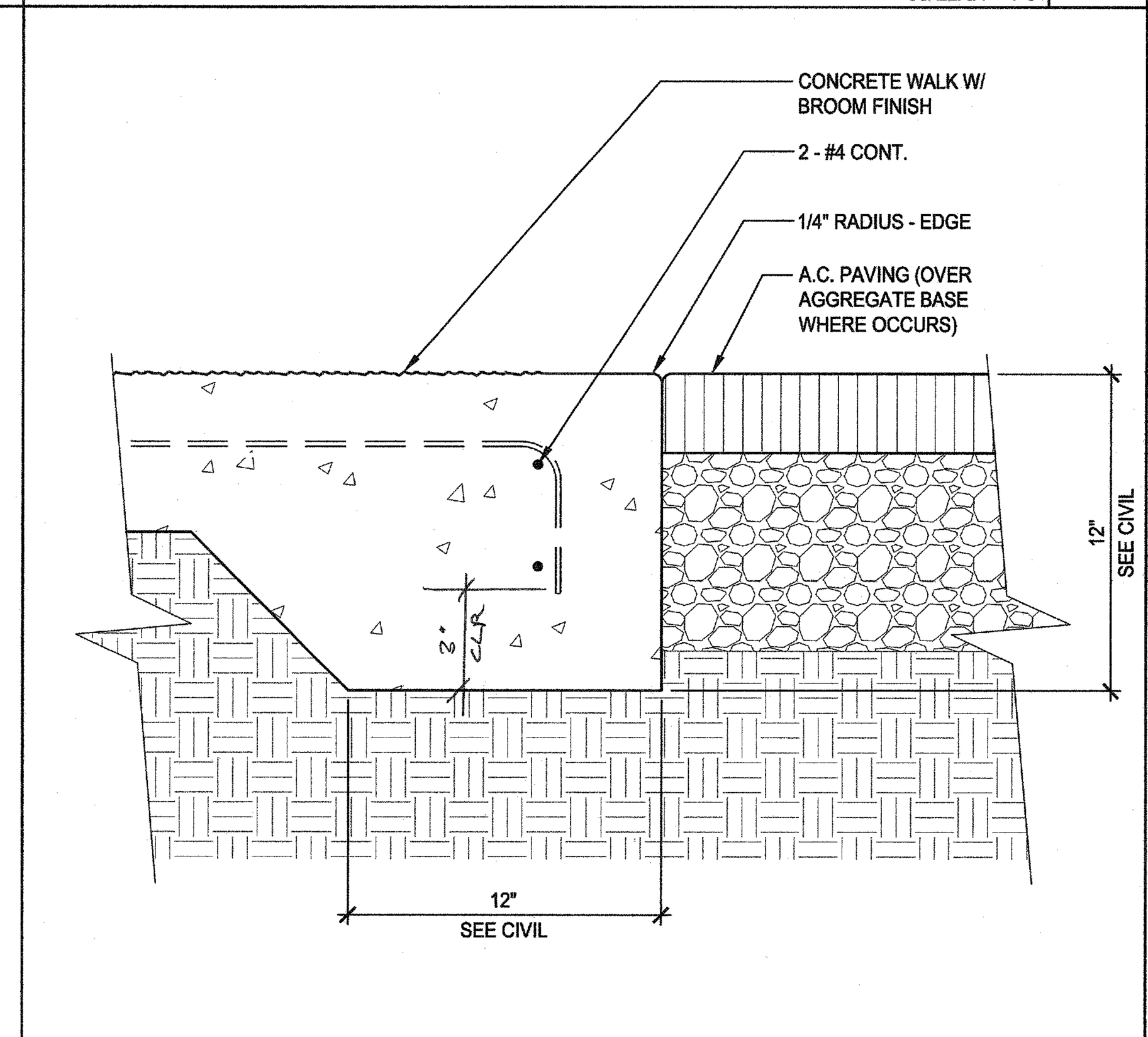
TACTILE PANELS 10
SCALE: 3" = 1'-0"



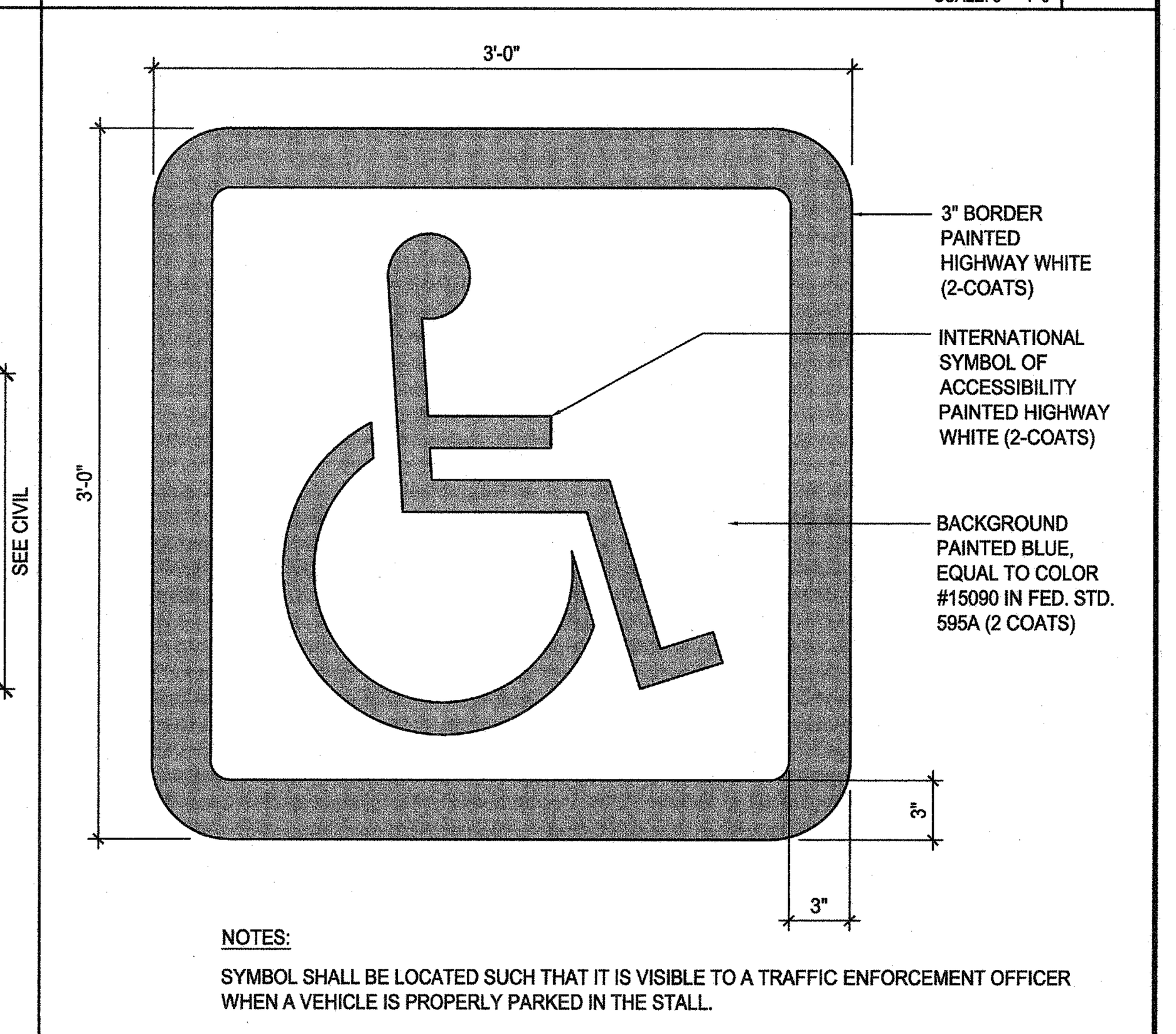
TYPICAL CONTROL JOINT 12
SCALE: 3" = 1'-0"



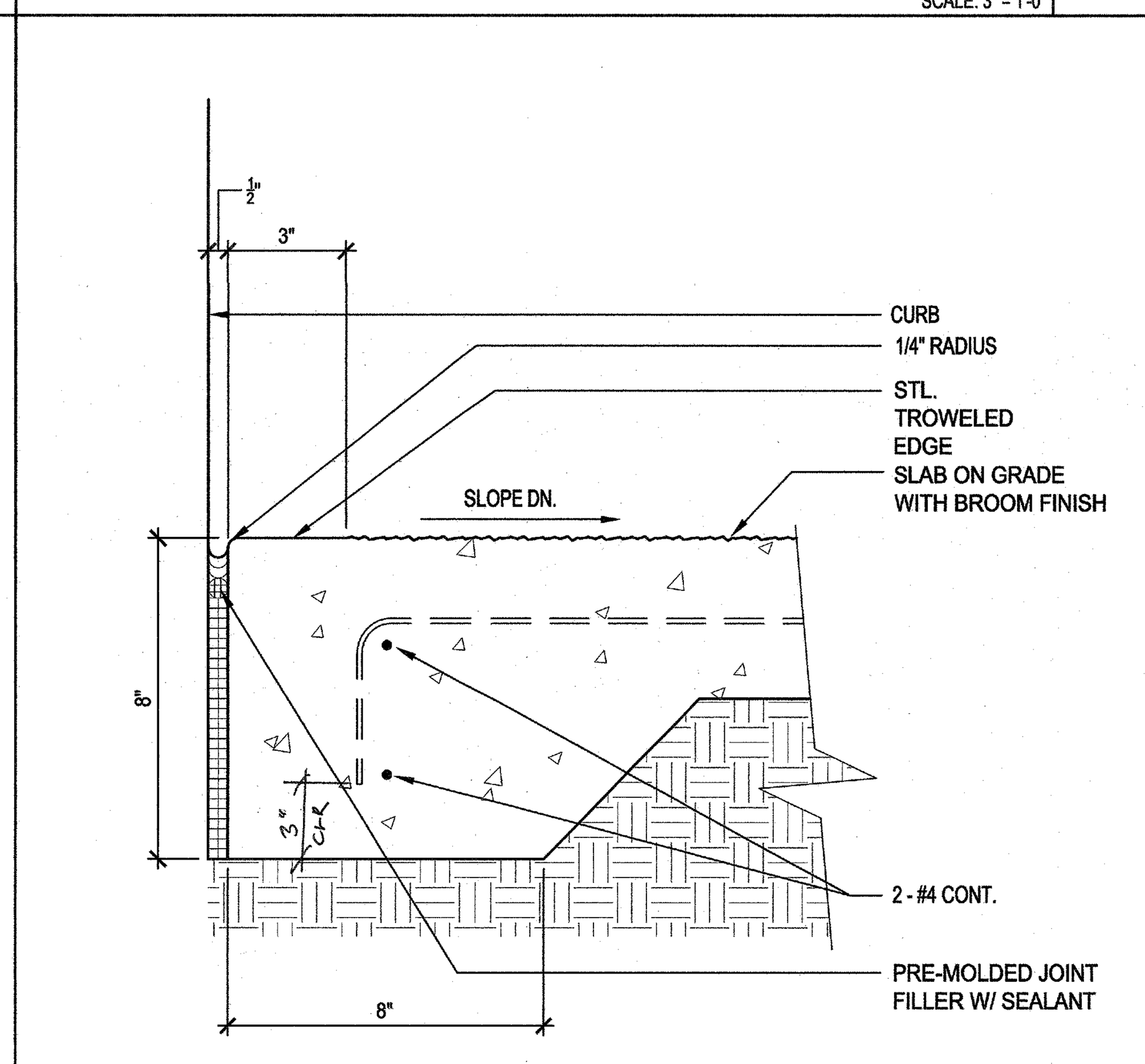
SLAB DOWEL DETAIL - NEW TO EXISTING 13
SCALE: 3" = 1'-0"



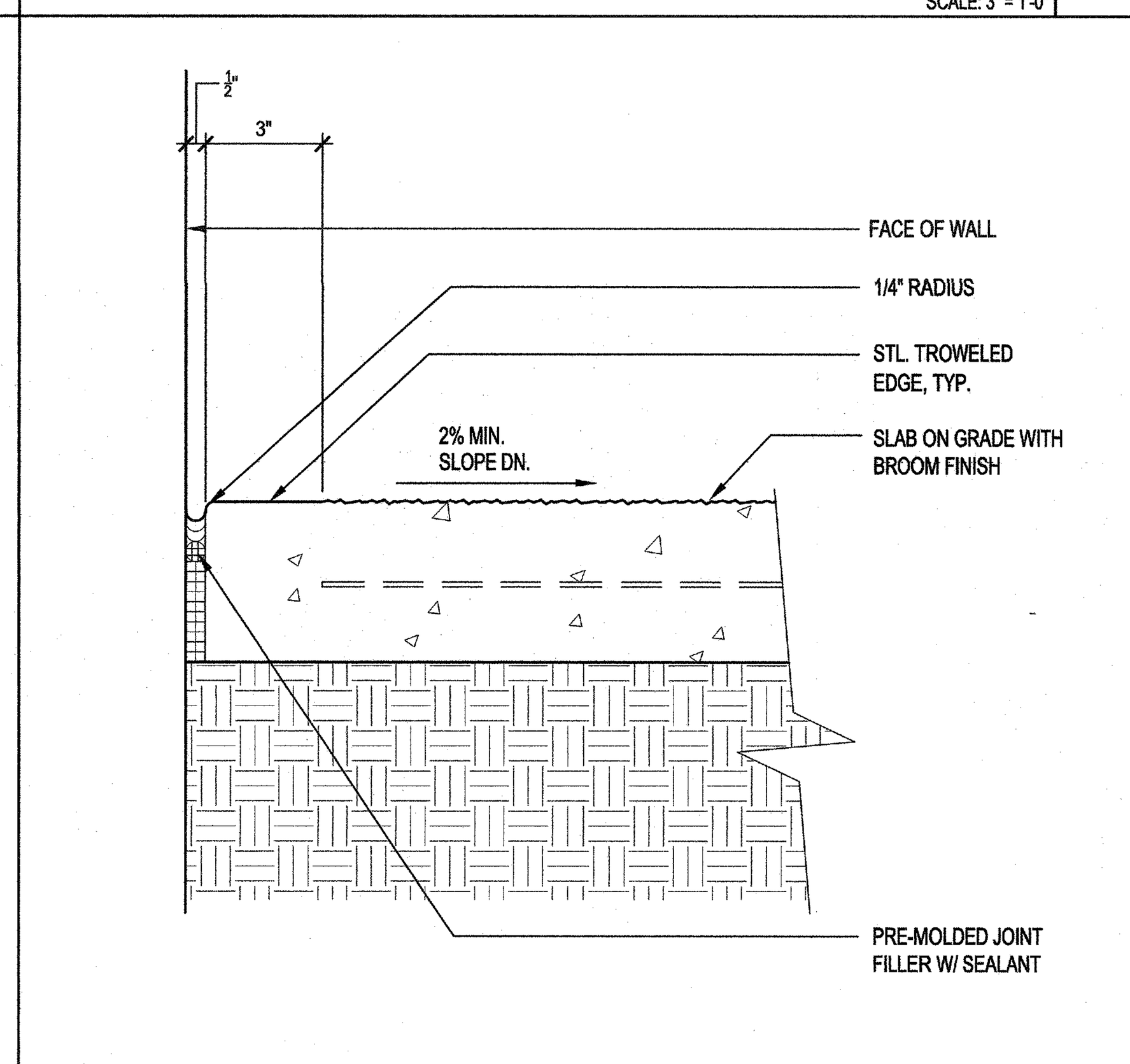
EDGE OF CONCRETE PAVING @ A.C. PAVING 14
SCALE: 3" = 1'-0"



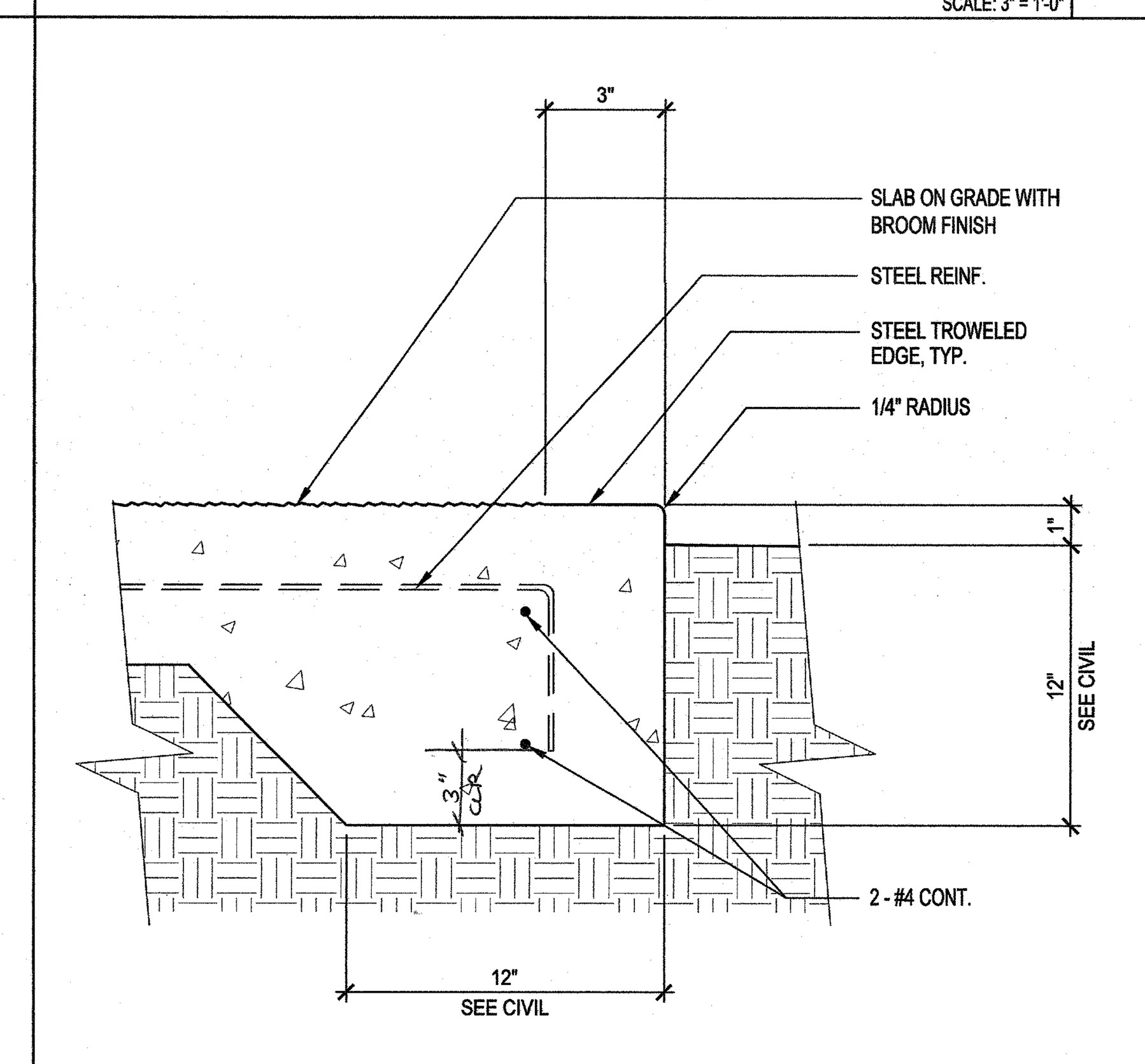
ACCESSIBLE PARKING SYMBOL 15
SCALE: 1-1/2" = 1'-0"



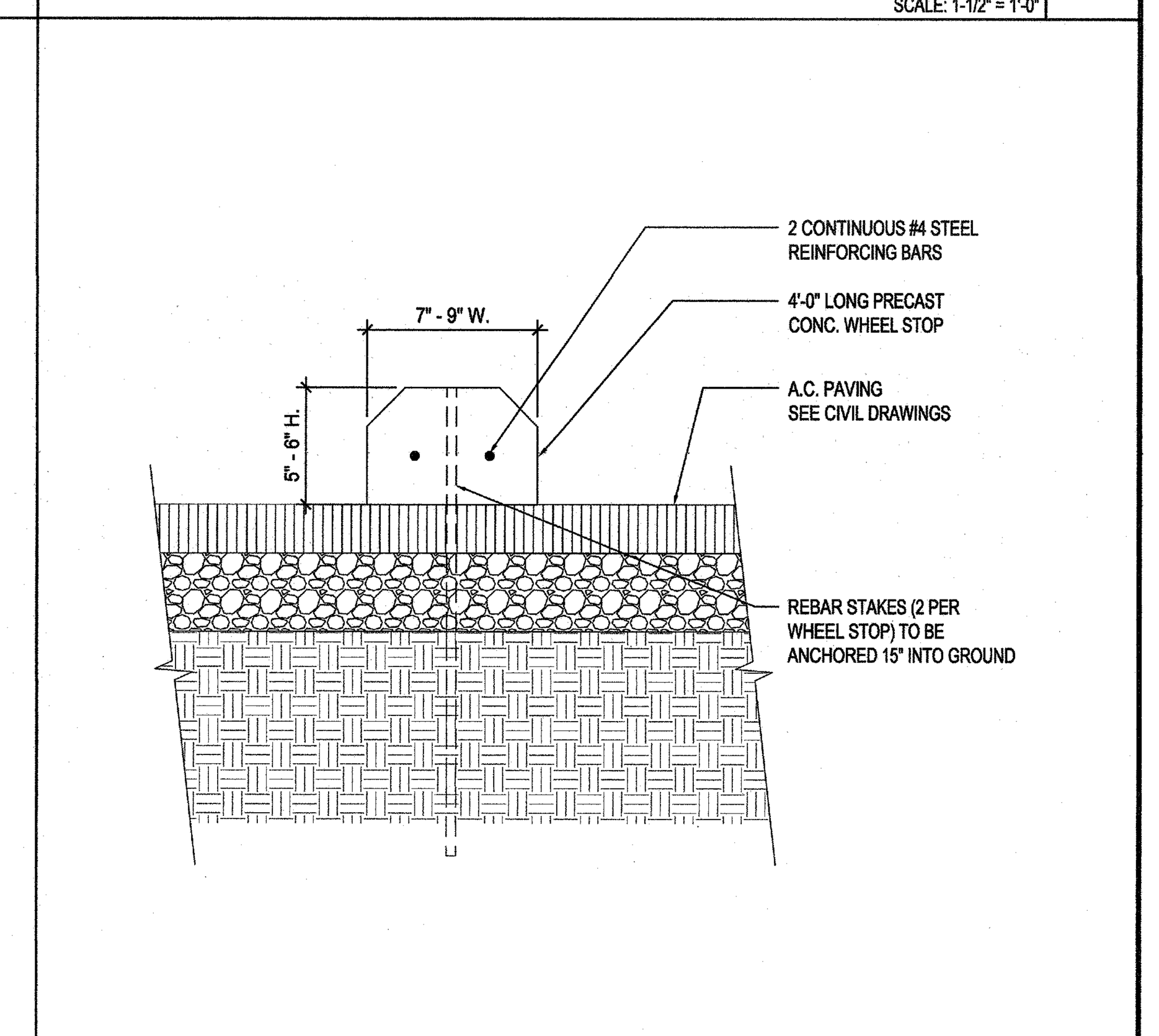
EDGE OF SLAB @ CURB 17
SCALE: 3" = 1'-0"



EDGE OF SLAB @ BLDG FACE 18
SCALE: 3" = 1'-0"



TYPICAL SLAB EDGE 19
SCALE: 3" = 1'-0"



CONCRETE WHEEL STOP 20
SCALE: 1-1/2" = 1'-0"

tBP architecture planning interiors
tBP/Architecture
4611 Teller Avenue
Newport Beach, CA 92660
ph: 949.673.0300 fx: 949.732.3895
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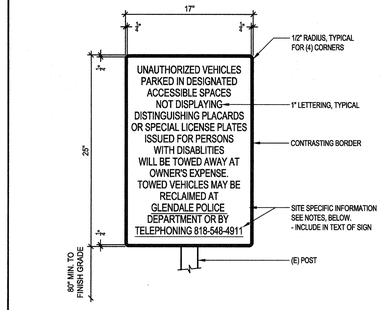
owner

tBP project number : 20778.10
file name:
drawn by: checked by:
date: August 14, 2018
Rev: date: description:

drawing title:
SITE DETAILS

drawing no.:
AS-4
drawing of



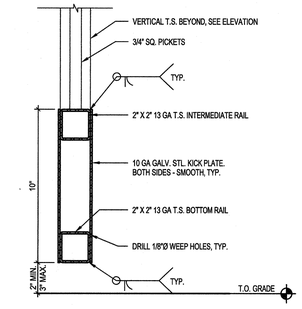
NOTES:

POST SIGN IN CONSPICUOUS PLACE AT THE ENTRANCE TO OFF-STREET PARKING AREAS.

CONTRACTOR TO VERIFY ADDRESS AND TELEPHONE NUMBER, WHERE TOWED VEHICLES MAY BE RECLAIMED, WITH LOCAL POLICE AUTHORITY.

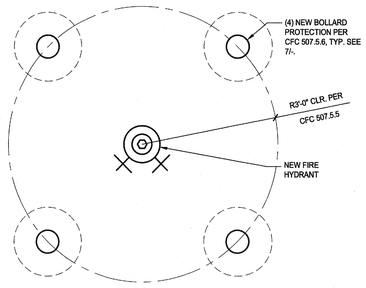
UNAUTHORIZED VEHICLE SIGNAGE 3

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



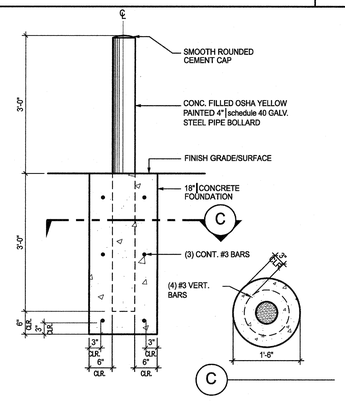
KICK PLATE @ ORNAMENTAL GATE 5

SCALE: 3" = 1'-0"



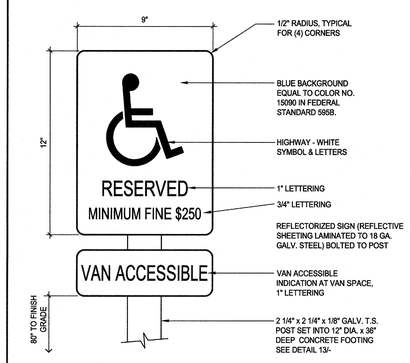
UNOBSTRUCTED FIRE HYDRANT ZONE 6

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



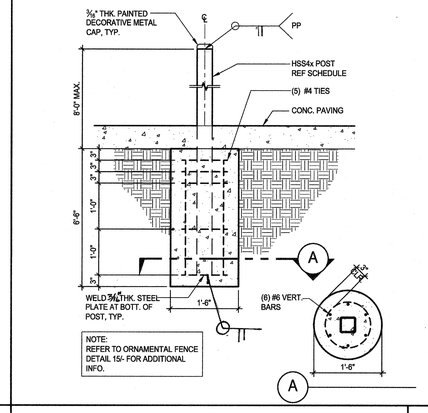
BOLLARD DETAIL 7

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



ACCESSIBLE PARKING STALL SIGN (VAN) 8

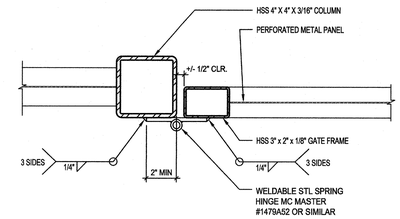
SCALE: 3" = 1'-0"



NOTE:
REFER TO ORNAMENTAL FENCE DETAIL 15/- FOR ADDITIONAL INFO.

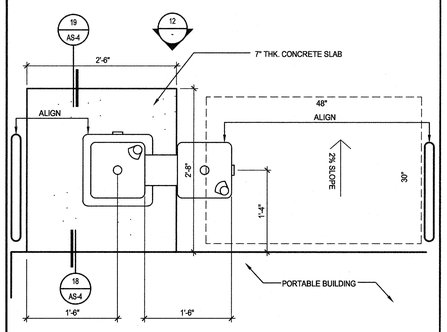
FOOTING DETAIL 9

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



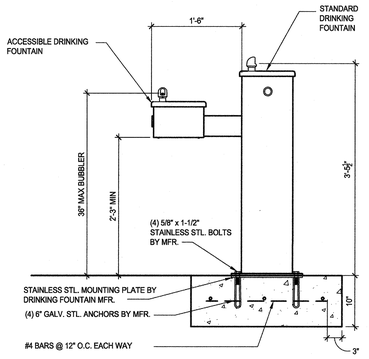
HINGE DETAIL @ ORNAMENTAL GATE 10

SCALE: 3" = 1'-0"



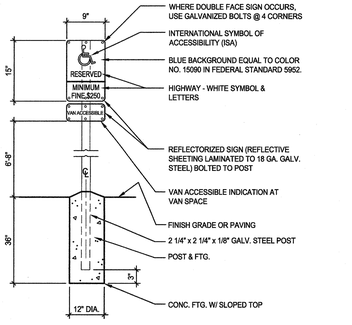
PEDESTAL DRINKING FOUNTAIN 11

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



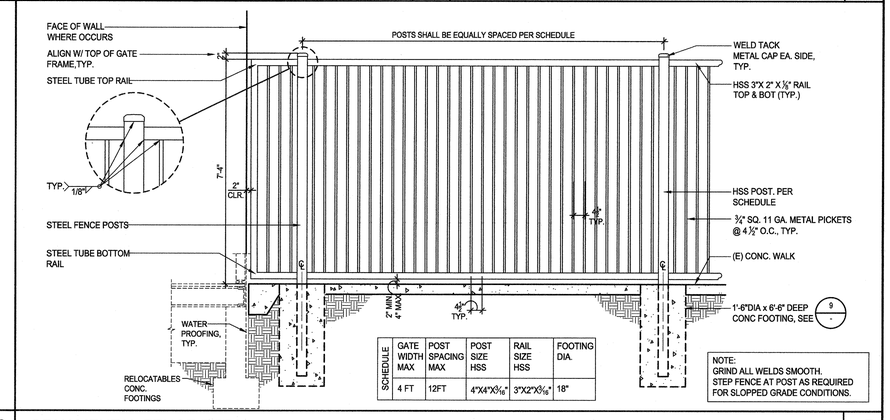
PEDESTAL DRINKING FOUNTAIN ELEVATION 12

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



ACCESSIBLE PARKING STALL SIGN 13

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

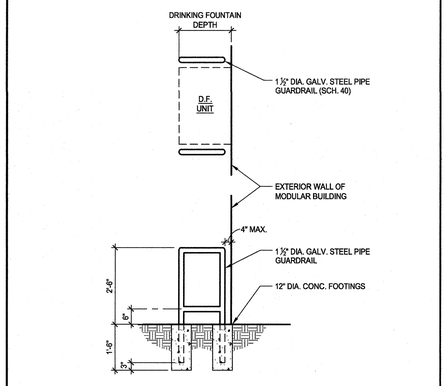


SCHEDULE	GATE WIDTH MAX	POST SPACING MAX	POST SIZE HSS	RAIL SIZE HSS	FOOTING DIA.
	4 FT	12FT	4"X4"X3/16"	3"X2"X3/16"	18"

NOTE:
GRIND ALL WELDS SMOOTH.
STEP FENCE AT POST AS REQUIRED FOR SLOPPED GRADE CONDITIONS.

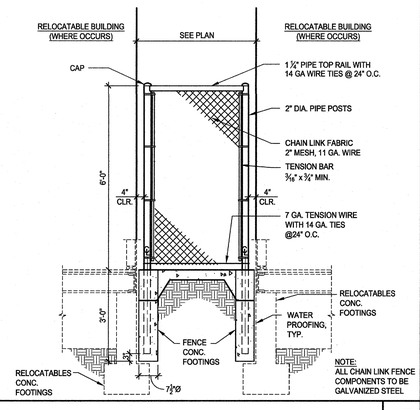
ORNAMENTAL FENCE DETAIL 15

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



GUARDRAIL 16

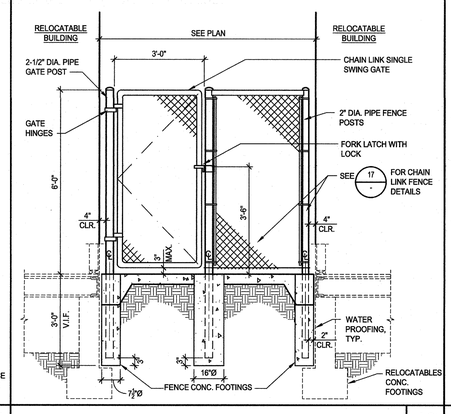
SCALE: 1/2" = 1'-0"



NOTE:
ALL CHAIN LINK FENCE COMPONENTS TO BE GALVANIZED STEEL

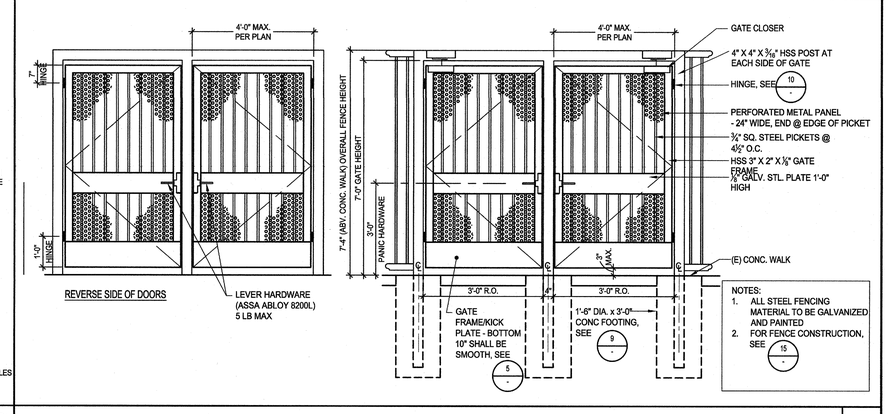
CHAIN LINK FENCE 17

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



CHAIN LINK GATE ELEVATION 18

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



NOTES:
1. ALL STEEL FENCING MATERIAL TO BE GALVANIZED AND PAINTED
2. FOR FENCE CONSTRUCTION, SEE 15

DECORATIVE GATE DETAIL 20

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

tBP
architecture
planning
interiors

tBP/Architecture
4611 Teller Avenue
Newport Beach, CA 92660
ph: 949.673.0300 fx: 949.732.3895

architect

consultant

DEPARTMENT OF GENERAL SERVICES
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BY: FLS SS
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CLOUD PRESCHOOL RELOCATABLES

4444 CLOUD AVENUE
LA CRESCENTA, CALIFORNIA 91214

GLENDALE UNIFIED SCHOOL DISTRICT

owner

tBP project number : 20778.10

file name:

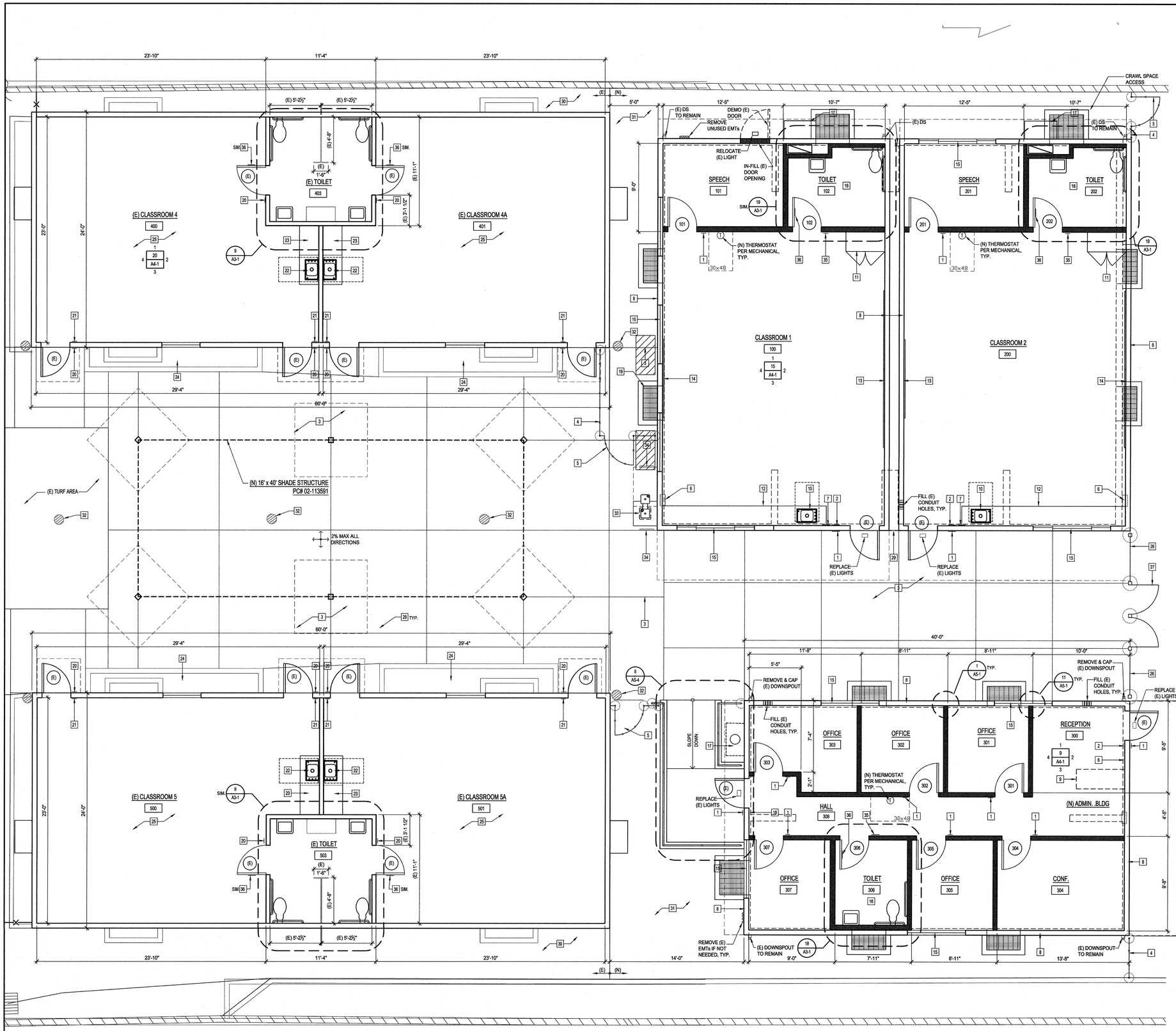
drawn by: checked by:

date: August 14, 2018

Rev:	date:	description:

drawing title:
SITE DETAILS

drawing no.:
AS-5
drawing of



FLOOR PLAN

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

NORTH

KEYNOTES

#	
1	ROOM NAME / NUMBER SIGN - SEE DETAIL 10/A7-1
2	TACTILE "EXIT" SIGN - SEE DETAIL 20/A7-1
3	CONC. WALK PER CIVIL
4	CHAINLINK FENCE - SEE DETAIL 17/A5-5
5	CHAINLINK GATE - SEE DETAIL 18/A5-5
6	FIRE EXTINGUISHER - 5 LBS DRY CHEMICAL W2A-10BC U.L. RATING ON WALL MOUNTED BRACKET @ +48" A.F.F. TO HANDLE, 4" MAX PROJECTION
7	OCCUPANT LOAD SIGN - SEE DETAIL 15/A7-1
8	PROPOSED MODULAR BUILDING WALL
9	RECEPTION DESK - F.F.E. (N.I.C.)
10	COUNTERTOP MOUNTED SINK WITH BUBBLER 15/A8-1
11	48" WIDE FULL HEIGHT SUPPLY CABINET
12	BASE CABINET WITH LAMINATED PLASTIC COUNTERTOP
13	4'X8' MARKERBOARD
14	4'X8' SMARTBOARD
15	EXISTING WINDOW TO REMAIN
16	PROVIDE HOT MOPPED MEMBRANE OVER THE (E) FLOOR AND EXTEND 6" MIN. UP THE WALLS ALL AROUND THE TOILET ROOM
17	EXISTING PORTABLE MECHANICAL UNIT
18	TACTILE "RAMP DOWN" SIGN - SEE DETAIL 5/A7-1
19	ELECTRICAL DISTRIBUTION PANEL - ELEC. DWGS.
20	EXISTING ROOM / NUMBER SIGN
21	EXISTING TACTILE 'EXIT' SIGN
22	EXISTING COUNTERTOP MOUNTED SINK WITH BUBBLER
23	EXISTING BASE CABINET WITH LAMINATED PLASTIC COUNTERTOP
24	EXISTING PLANTER TO REMAIN
25	EXISTING INTERIOR FINISHES TO REMAIN
26	(N) DECORATIVE FENCE - SEE DETAIL 15/A5-5
27	(N) GATE - SEE DETAIL 20/A5-5
28	(N) CONC. CONTROL JOINT - SEE DETAIL 12/A5-4
29	WOOD CLOSURE PANEL - TO MATCH (E) PORTABLE
30	(E) AC PAVING
31	AC PAVING PER CIVIL
32	(E) DRAIN TO REMAIN
33	(N) DRINKING FOUNTAIN - SEE DETAIL 11/A5-5
34	(N) GUARDRAIL - SEE DETAIL 16/A5-5
35	WALL - MOUNTED TOILET ROOM SIGNAGE - SEE DET. 4/A5-5
36	DOOR - MOUNTED TOILET ROOM SIGNAGE - SEE DET. 9/A5-5

GENERAL NOTES

1. REFER TO SHEET T-2 AND T-3 FOR ADDITIONAL GENERAL NOTES, ABBREVIATIONS AND DRAFTING SYMBOLS
2. DIMENSIONS ARE TO FACE OF STUD (U.N.O.)
3. INTERIOR PARTITIONS:
   - INTERIOR PARTITIONS SHALL BE 2x4 D.F. STUDS AT 16" O.C. WITH 5/8" TYPE 'X' GYPSUM BOARD EACH SIDE INSTALLED TO STRUCTURE ABOVE. (UNLESS NOTED OTHERWISE)
4. INSULATION:
   - INTERIOR PARTITIONS ACOUSTICAL BATT INSULATION
5. REFER TO SHEET A6-1 FOR DOOR SCHEDULE
6. PATCH AND REPAIR (E) WOOD SIDING, PAINT ENTIRE POTABLE TO MATCH EXISTING COLORS, TYP.
7. DEMO/REMOVE ANY EXISTING INTERIOR WALLS, CASEWORK, FIXTURES AND ANY COMPONENT OR ACCESSORY NOT NEEDED, TYP.

LEGEND

EXISTING WALL TO REMAIN

NEW 2x4 STUD WALL 2/A5-1

tBP architecture planning interiors

tBP/Architecture
4611 Teller Avenue
Newport Beach, CA 92660
ph: 949.673.0300 fx: 949.732.3895

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architect

consultant

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drawing title:
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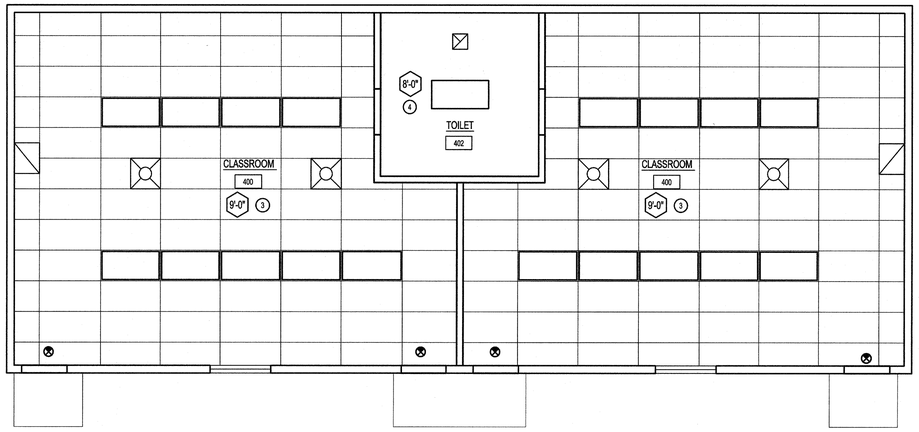
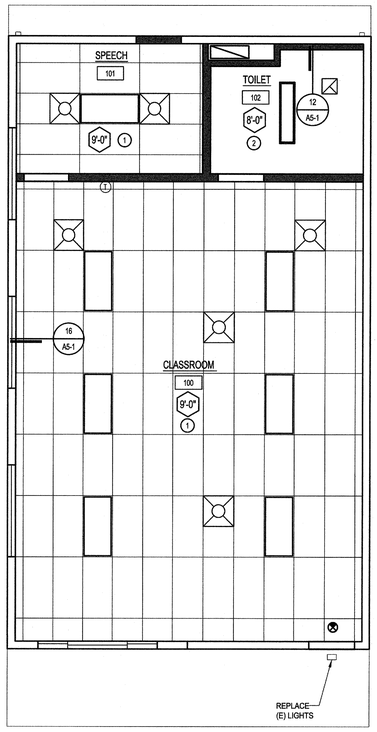
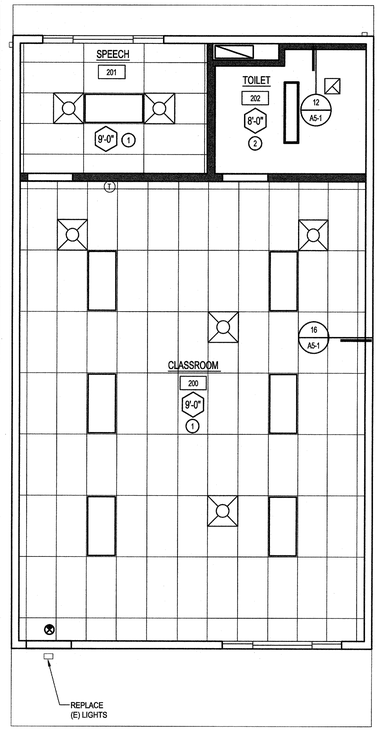
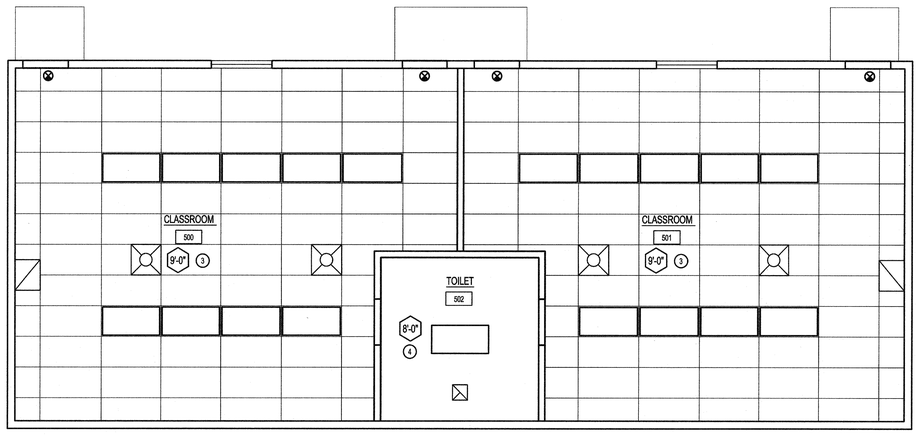
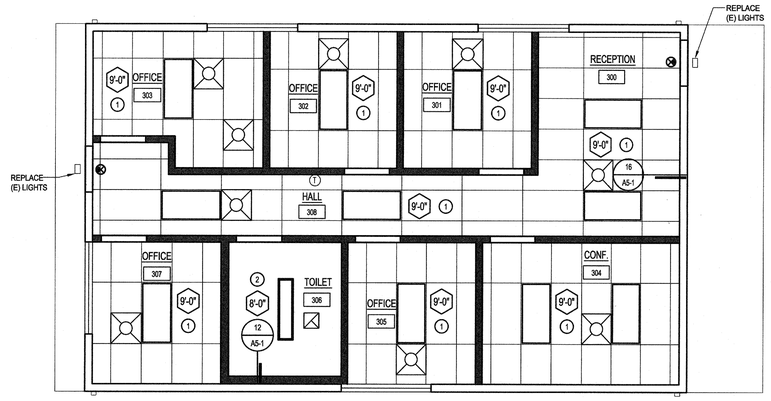
drawing no.:
A1-1
drawing of











REFLECTED CEILING PLAN

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

NORTH

true north

CEILING TYPES

1. 24" x 48" MINERAL FIBER PANELS (SUSPENDED STEEL GRID) — 3 / A5-1
2. GYP. BD. CEILING — 12 / A5-1
3. EXISTING SUSPENDED STEEL GRID CEILING
4. EXISTING GYP. BD. CEILING

NOTES:

1. MECHANICAL GRILLES, REGISTERS, EXTERIOR LOUVERS AND ELECTRICAL FIXTURES ARE SHOWN FOR LOCATION PURPOSES ONLY. VERIFY QUANTITY AND SIZES WITH MECHANICAL OR ELECTRICAL DRAWINGS.

GENERAL NOTES

1. MECHANICAL REGISTERS, GRILLES, EXTERIOR LOUVERS, AND ELECTRICAL FIXTURES ARE SHOWN FOR LOCATION PURPOSES ONLY. VERIFY QUANTITY AND SIZES WITH MECHANICAL AND ELECTRICAL DRAWINGS. VERIFY LOCATIONS OF CEILING ACCESS PANELS.
2. ACCESS PANELS REQUIRED PER MECHANICAL AND ELECTRICAL DRAWINGS, AND CBC 1209.3

LEGEND

- CELING HEIGHT ABOVE FINISHED FLOOR (EL.=0'-0") (HEIGHT AS NOTED ON PLANS)
- 2' x 4' SUSPENDED CEILING GRID
- EMERGENCY LIGHTING
- 2' x 4' FLUORESCENT FIXTURE
- EXIT SIGN
- EXTERIOR SURFACE MOUNTED FIXTURE
- RETURN AIR GRILLE
- SUPPLY AIR DIFFUSER
- EXHAUST AIR GRILLE

tBP
architecture
planning
interiors

tBP/Architecture
4611 Teller Avenue
Newport Beach, CA 92660
ph: 949.673.0300 fx: 949.732.3895

architect

consultant

FILE NO.: 19-41
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DIVISION OF THE STATE ARCHITECT
DEPARTMENT OF GENERAL SERVICES
A# 03-119149
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DATE JAN 7 2019

DEPARTMENT OF GENERAL SERVICES
DSA Los Angeles Regional Office
700 N. Alameda Street, Suite 5-500
Los Angeles, California 90012
ph: (213)897-3995 fx: (213)897-3159/0726

CLOUD PRESCHOOL RELOCATABLES

4444 CLOUD AVENUE
LA CRESCENTA, CALIFORNIA 91214

GLENDALE UNIFIED SCHOOL DISTRICT

owner

tBP project number : 20778.10

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drawn by: checked by:

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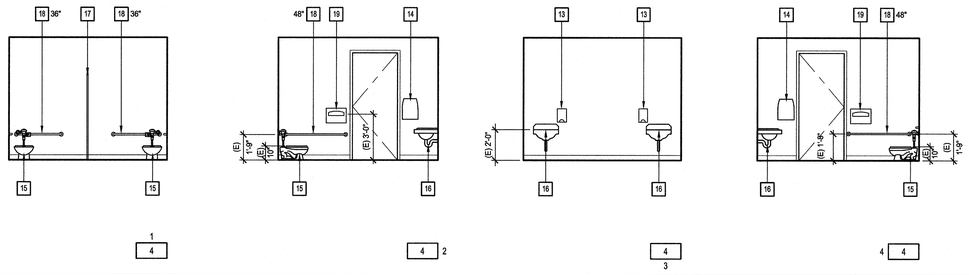
REFLECTED CEILING PLAN

drawing no.:

A2-1

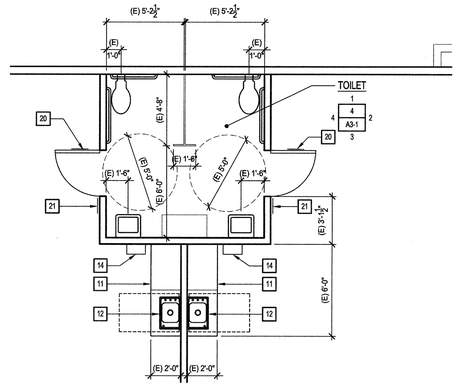
drawing of



1 / 4 — 4 / 2 — 4 / 3 — 4 / 4

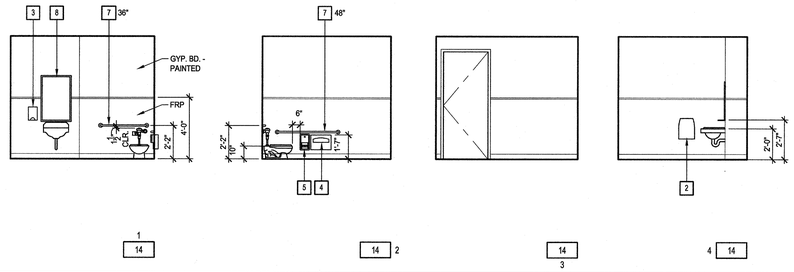
EXISTING TOILET ROOMS 403 & 503 (KINDERGARTEN) INTERIOR ELEVATIONS

SCALE: 1/4" = 1'-0" — 4



EXISTING TOILET PLAN 403 & 503

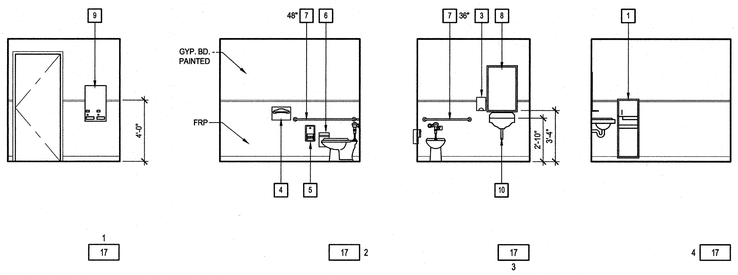
SCALE: 1/4" = 1'-0" — 9



1 / 14 — 14 / 2 — 14 / 3 — 4 / 14

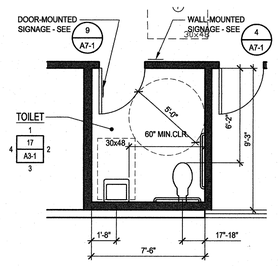
TOILET ROOMS 102 & 202 (KINDERGARTEN) INTERIOR ELEVATIONS

SCALE: 1/4" = 1'-0" — 14



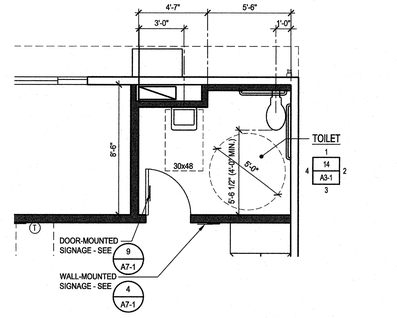
TOILET 306 (ADULT) INTERIOR ELEVATIONS

SCALE: 1/4" = 1'-0" — 17



ENLARGED TOILET PLAN 306

SCALE: 1/4" = 1'-0" — 18



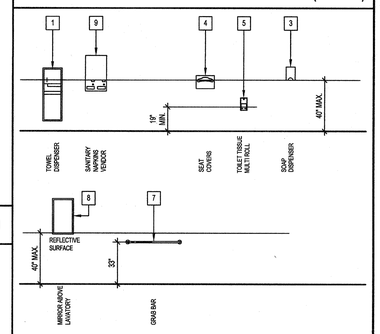
ENLARGED TOILET PLAN 102 & 202

SCALE: 1/4" = 1'-0" — 19

TOILET ACCESSORY KEYNOTES

1	COMBINATION TOWEL DISPENSER/ WASTE RECEPTACLE, RECESSED
2	SURFACE MOUNTED PAPER TOWEL DISPENSER BOBRICK -262
3	SOAP DISPENSER, SURFACE-MOUNTED
4	SEAT COVER DISPENSER, SURFACE-MOUNTED
5	TOILET TISSUE DISPENSER, MULTI-ROLL, RECESSED
6	SANITARY NAPKIN DISPOSAL, RECESSED
7	STAINLESS STEEL GRAB BAR, 1-1/2" DIAMETER, SEE MOUNTING DETAIL 9 / A6-1
8	STAINLESS STEEL FRAMED MIRROR AND SHELF
9	SANITARY NAPKIN VENDOR, 25 CENTS COIN OPERATION, RECESSED (N.I.C.)
10	UNDERLAVATORY COVERS, MOLDED VINYL COVERING FOR SUPPLY AND DRAIN PIPING
11	EXISTING BASE CABINET
12	EXISTING BASE CABINET WITH COUNTERTOP MOUNTED SINK AND BUBBLER
13	EXISTING SOAP DISPENSER
14	EXISTING PAPER TOWEL DISPENSER
15	EXISTING ACCESSIBLE TOILET
16	EXISTING LAVATORY
17	EXISTING TOILET PARTITION
18	EXISTING GRAB BAR
19	EXISTING CHANGING TABLE
20	EXISTING DOOR-MOUNTED TOILET ROOM SIGNAGE
21	EXISTING WALL-MOUNTED TOILET ROOM SIGNAGE

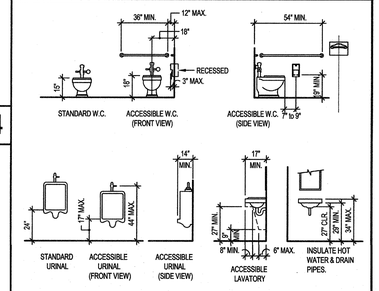
TOILET ACCESSORY MOUNTING HEIGHTS (ADULT)



NOTES:

1. MOUNTING HEIGHTS SHOWN ARE TYPICAL, UNLESS OTHERWISE NOTED.
2. ALL ACCESSORIES SHALL BE DISABLED ACCESSIBLE WITH A MAXIMUM REACH HEIGHT OF 40" ABOVE FINISH FLOOR, UNLESS NOTED OTHERWISE.
3. SLOPE FLOORS 1/8" PER FOOT MINIMUM AND 1/4" PER FOOT MAXIMUM, UNLESS NOTED OTHERWISE.
4. SEE ENLARGED TOILET PLAN AND INTERIOR ELEVATION DRAWINGS FOR TOILET ACCESSORY LOCATIONS

TOILET FIXTURE MOUNTING HEIGHTS (ADULT)



CLEARANCES OF FIXTURES & ACCESSORIES TO FINISHED SURFACE

	ADULT	ELEMENTARY	KINDERGARTEN
TOILET CENTERLINE FROM WALL	16" to 18"	SEE ADULT	12"
TOILET SEAT HEIGHT (AT SEAT LID)	18"	SEE ADULT	10" - 12"
GRAB BAR HEIGHT (SIDE)	33"	SEE ADULT	20" - 22"
TOILET PAPER IN FRONT OF TOILET	7" to 9"	SEE ADULT	6" MAX.
NAPKIN DISPOSAL IN FRONT OF TOILET	12" MAX.	-	-
DISPENSER OR MIRROR HEIGHT	40" MAX.	38" MAX.	32" MAX.
LAVATORY/SINK TOP HEIGHT	34" MAX.	29" MAX.	24" MAX.
LAVATORY/SINK KNEE CLEARANCE	27" MIN.	24" MIN.	19" MIN.
APRON CLEARANCE	29" MIN.	-	-
URINAL LIP HEIGHT	17" MAX.	15" MAX.	13" MAX.
URINAL FLUSH HANDLE HEIGHT	44" MAX.	37" MAX.	32" MAX.
DRINKING FOUNTAIN BUBBLER HEIGHT	38" MAX.	32" MAX.	30" MAX.
DRINKING FOUNTAIN KNEE CLEARANCE	27" MIN.	24" MIN.	22" MIN.
RAMP/STAIR HANDRAIL HEIGHT	34" - 38"	-	-

tBP architecture planning interiors
tBP/Architecture
4611 Teller Avenue
Newport Beach, CA 92660
ph: 949.673.0300 fx: 949.732.3895
architect

consultant

DEPARTMENT OF GENERAL SERVICES
DSA Los Angeles Regional Office
700 N. Alameda Street, Suite 5-500
Los Angeles, California 90012
ph: (213)897-3995 fx: (213)897-3159/0726

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4444 CLOUD AVENUE
LA CRESCENTA, CALIFORNIA 91214

GLENDALE UNIFIED SCHOOL DISTRICT

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drawing title:
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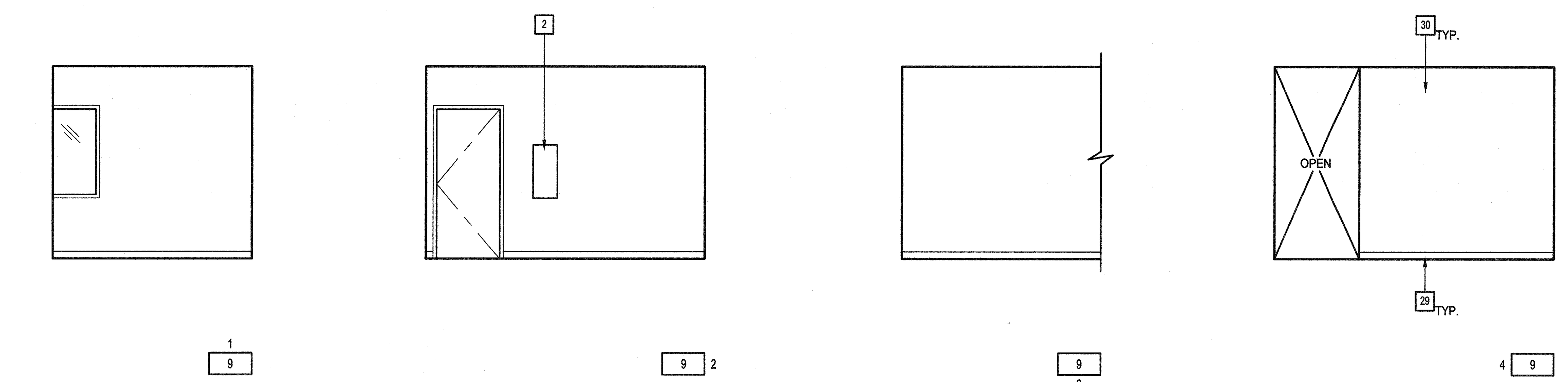
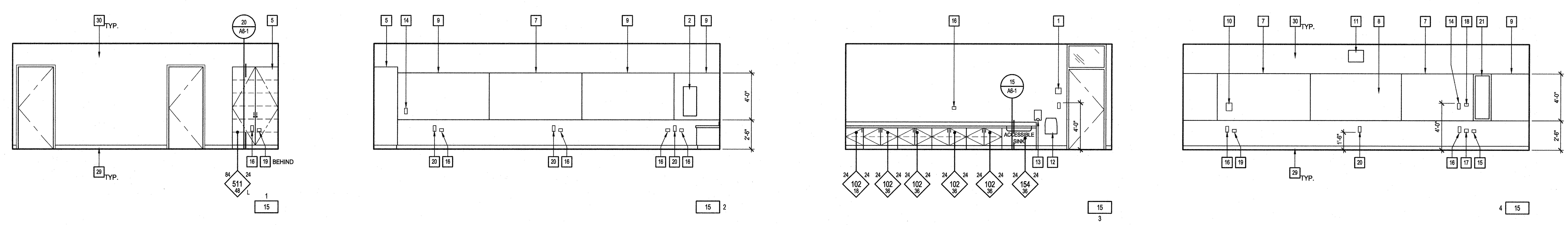
drawing no.:
A3-1
drawing of

INTERIOR ELEVATION KEYNOTES

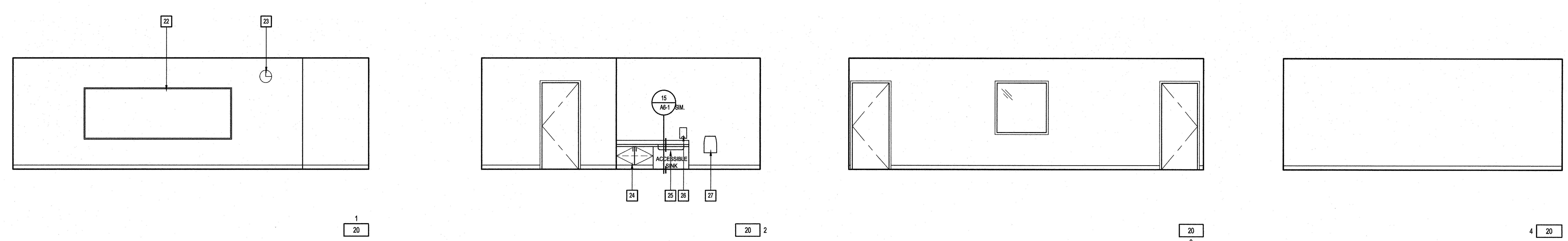
1. TACTILE "EXIT" SIGN - SEE DETAIL 20/A7-1
2. FIRE EXTINGUISHER - 5 LBS DRY CHEMICAL W2A-108C U.L. RATING ON SEMI-RECESSED @ +48" A.F.F. TO HANDLE, 4" MAX PROJECTION
3. OCCUPANT LOAD SIGN - SEE DETAIL 15/A7-1
4. COUNTERTOP MOUNTED SINK, FAUCET WITH BUBBLER
5. 48" WIDE FULL HEIGHT SUPPLY CABINET
6. BASE CABINET WITH LAMINATED PLASTIC COUNTERTOP
7. 4'X8' MARKERBOARD
8. 4'X8' SMARTBOARD
9. FABRICMATE TACKBOARD
10. THEMOSTAT, SEE MECH. DWGS.
11. SMARTBOARD PROJECTOR, SEE ELEC. DWGS.
12. PAPER TOWEL DISPENSER
13. SOAP DISPENSER
14. LIGHTSWITCH, SEE ELEC. DWGS.
15. DATA QUADPLEX, SEE ELEC. DWGS.
16. RECEPTACLE DUPLEX, SEE ELEC. DWGS.
17. AUDIO / VIDEO CONNECTION, SEE ELEC. DWGS.
18. CONTROLS, SEE ELEC. DWGS.
19. DATA DUPLEX, SEE ELEC. DWGS.
20. RECEPTACLE QUADPLEX, SEE ELEC. DWGS.
21. ELECTRICAL PANEL, SEE ELEC. DWGS.
22. EXISTING MARKERBOARD TO REMAIN
23. EXISTING CLOCK TO REMAIN
24. EXISTING BASE CABINET TO REMAIN
25. EXISTING BASE CABINET WITH COUNTERTOP MOUNTED SINK AND BUBBLER
26. EXISTING SOAP DISPENSER
27. EXISTING PAPER TOWEL DISPENSER
28. EXISTING INTERIOR FINISHES TO REMAIN
29. RESILIENT BASE
30. TACKABLE WALL COVERING



RECEPTION ROOM 300 INTERIOR ELEVATIONS 9
SCALE: 1/4" = 1'-0"



CLASSROOMS 100 & 200 INTERIOR ELEVATIONS 15
SCALE: 1/4" = 1'-0"



EXISTING CLASSROOMS 400, 401, 500 & 501 INTERIOR ELEVATIONS 20
SCALE: 1/4" = 1'-0"

tBP
architecture
planning
interiors

tBP/Architecture
4611 Teller Avenue
Newport Beach, CA 92660
ph: 949.673.0300 fx: 949.732.3895

architect

consultant

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DSA Los Angeles Regional Office
700 N. Alameda Street, Suite 5-500
Los Angeles, California 90012
ph: (213)897-3995 fx: (213)897-3159/0726

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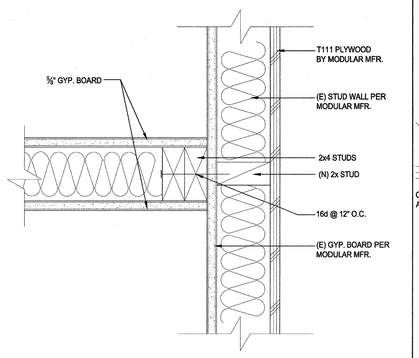
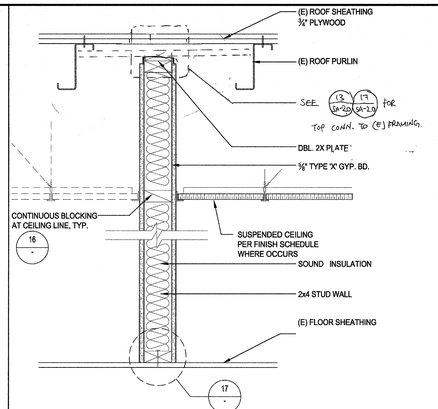
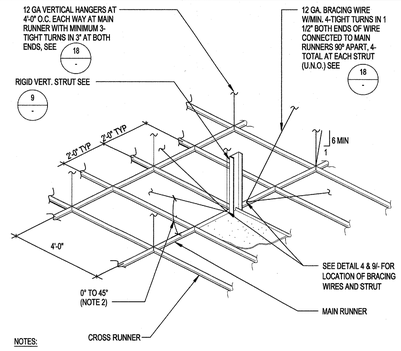


WALL INTERSECTION @ (E) WALL — SCALE: 3" = 1'-0" — 1



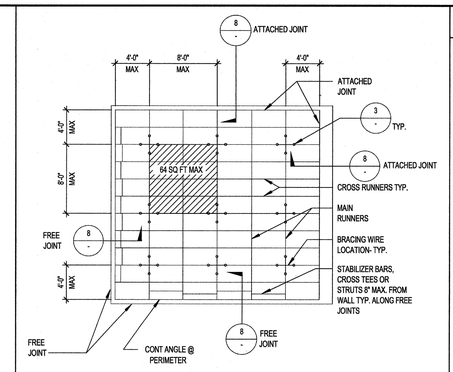
WALL DETAIL — SCALE: 1-1/2" = 1'-0" — 2



NOTES:

1. STRUTS SHALL NOT REPLACE HANGER WIRES.
2. THE MINIMUM ACCEPTABLE ANGLE IS DETERMINED SUCH THAT THE WIRES DO NOT INTERFERE WITH THE RUNNERS, LIGHT FIXTURES, ETC. AND REMAIN STRAIGHT AND UNOBSTRUCTED.

SUSPENDED CEILING SUSPENSION AND BRACING ASSEMBLY — SCALE: NTS — 3



NOTE:

BRACING WIRES AND COMP. STRUT SHALL OCCUR AT EVERY 64 SQ. FT. MAX. IN ROOMS OVER 1144 SQ. FT.

TYPICAL LATERAL BRACING PLAN — SCALE: NTS — 4

CEILING NOTES

T-BAR CEILING ASSEMBLY SHALL COMPLY WITH ALL REQUIREMENTS NOTED IN DSA IR 25-2.13

1. CEILING SYSTEM GENERAL NOTES:
1.01 CEILING SYSTEM COMPONENTS SHALL COMPLY WITH ASTM C635-07 AND SECTION 5.1 OF ASTM E580-10A.
1.02 THE CEILING GRID SYSTEM MUST BE RATED HEAVY DUTY AS DEFINED BY ASTM C635-08.
1.03 CEILING SYSTEMS. THE FOLLOWING CEILING SYSTEM(S) IS/ARE PART OF THE SCOPE OF THIS PROJECT:
MANUFACTURER'S NAME USG DONN.
CLASSIFICATION OF CEILING GRID IS HEAVY DUTY. ICC-ESR-1222
MANUFACTURER'S MODEL NUMBER - MAIN RUNNER DONN HEAVY DUTY DXDXL 26.
MANUFACTURER'S CATALOG NUMBER - CROSS RUNNER DONN HEAVY DUTY DXDXL 424.
1.04 SEISMIC WALL CLIP:
MANUFACTURER'S MODEL _____.
1.05 CEILING PANELS SHALL NOT SUPPORT ANY LIGHT FIXTURES, AIR TERMINALS OR DEVICES.
1.06 FOR CEILING INSTALLATIONS UTILIZING ACOUSTICAL TILE PANELS OF MINERAL OR GLASS FIBER, IT IS NOT MANDATORY TO PROVIDE ¾" CLEARANCE BETWEEN THE ACOUSTICAL TILE PANELS AND THE WALL ON THE SIDES OF THE CEILING WHICH ARE FREE TO SLIP. FOR ALL OTHER CEILING PANEL TYPES, PROVIDE ¾" CLEARANCE BETWEEN THE CEILING PANEL AND THE WALL ON THE SIDES OF THE CEILING FREE TO SLIP.

2. MATERIALS:
2.01 CEILING WIRE SHALL BE CLASS 1 ZINC COATED (GALVANIZED) CARBON STEEL CONFORMING TO ASTM A641-09A. WIRE SHALL BE #12 GAGE (0.106" DIAMETER) WITH SOFT TEMPER AND MINIMUM TENSILE STRENGTH = 70 KSI.
2.02 GALVANIZED SHEET STEEL (INCLUDING THAT USED FOR METAL STUD AND TRACK COMPRESSION STRUTS/POST) SHALL CONFORM TO ASTM A653-11, OR OTHER EQUIVALENT SHEET STEEL LISTED IN SECTION A2.1 OF THE NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS 2007, INCLUDING SUPPLEMENT 2 DATED 2010 (AISI S100-07/S2-10). MATERIAL 43 MIL (18 GAGE) AND LIGHTER SHALL HAVE MINIMUM YIELD STRENGTH OF 33 KSI. MATERIAL 54 MIL (16 GAGE) AND HEAVIER SHALL HAVE A MINIMUM YIELD STRENGTH OF 50 KSI.
2.03 ELECTRICAL METALLIC TUBE (EMT) SHALL BE ANSI C80.3UL 797 CARBON STEEL WITH G90 GALVANIZING. EMT SHALL HAVE MINIMUM YIELD STRENGTH (FY) OF 30 KSI AND MINIMUM ULTIMATE STRENGTH (FU) OF 48 KSI.

3. ATTACHMENT OF HANGER AND BRACING WIRES:
3.01 SEPARATE ALL CEILING HANGER AND BRACING WIRES AT LEAST SIX (6) INCHES FROM ALL UNBRACED DUCTS, PIPES, CONDUIT, ETC.
3.02 HANGER AND BRACING WIRES SHALL NOT ATTACH TO OR BEND AROUND OBSTRUCTIONS INCLUDING BUT NOT LIMITED TO: PIPING, DUCTWORK, CONDUIT AND EQUIPMENT.
3.03 HANGER WIRES THAT ARE MORE THAN ONE (HORIZONTAL) IN SIX (VERTICAL) OUT OF PLUMB SHALL HAVE COUNTER-SLOPING WIRES.
3.04 SLACK SAFETY WIRES SHALL BE CONSIDERED HANGER WIRES FOR INSTALLATION AND TESTING REQUIREMENTS.
3.05 HANGER AND BRACING WIRE ANCHORAGE TO THE STRUCTURE SHALL BE INSTALLED IN SUCH A MANNER THAT THE DIRECTION OF THE ANCHORAGE ALIGNS CLOSELY WITH THE DIRECTION OF THE WIRE. (E.G. BRACING WIRE CEILING CLIPS MUST BE BENT AS SHOWN IN THE DETAILS AND ROTATED AS REQUIRED TO ALIGN CLOSELY WITH THE DIRECTION OF THE WIRE. SCREW EYES IN WOOD MUST BE INSTALLED SO THEY ALIGN CLOSELY WITH THE DIRECTION OF THE WIRE, ETC.)

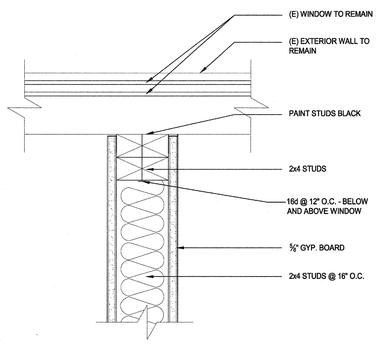
4. FASTENERS AND WELDING:
4.01 SHEET METAL SCREWS SHALL COMPLY WITH ASTM C1513-10, ASME B18.6.4-89 (R2005). PENETRATION OF SCREWS THROUGH JOINED MATERIAL SHALL NOT BE LESS THAN THREE EXPOSED THREADS.
4.02 EXPANSION ANCHORS SHALL BE: [RDP TO INDICATE MANUFACTURER, PRODUCT, EVALUATION REPORT NUMBER AND LOAD FOR EACH SIZE SPECIFIED PER CBC 1913A.7.2.]
4.03 POWER-ACTUATED FASTENERS SHALL BE: [RDP TO INDICATE MANUFACTURER, PRODUCT, EVALUATION REPORT NUMBER]
4.04 IF NOT OTHERWISE SPECIFIED IN THE EVALUATION REPORT, POWER-ACTUATED FASTENERS INSTALLED IN STEEL SHALL BE INSTALLED SO THE ENTIRE POINTED END OF THE FASTENER IS DRIVEN THROUGH THE STEEL MEMBER.
4.05 POWER-ACTUATED FASTENERS IN CONCRETE ARE NOT PERMITTED FOR BRACING WIRES.
4.06 CONCRETE REINFORCEMENT AND PRESTRESSING TENDONS SHALL BE LOCATED BY NON-DESTRUCTIVE MEANS PRIOR TO INSTALLING POST - INSTALLED ANCHOR.
4.07 WELDING SHALL BE IN ACCORDANCE WITH AWS D1.3 USING E60XX SERIES ELECTRODES.

5. TESTING: ALL FIELD TESTING MUST BE PERFORMED IN THE PRESENCE OF THE PROJECT INSPECTOR.
5.01 POST-INSTALLED ANCHORS IN CONCRETE USED TO SUPPORT HANGER WIRES SHALL BE TESTED AT A FREQUENCY OF 10 PERCENT. POWER ACTUATED FASTENERS IN CONCRETE SHALL BE FIELD TESTED FOR 200 LBS. IN TENSION. ALL OTHER POST-INSTALLED ANCHORS IN CONCRETE SHALL BE TESTED IN ACCORDANCE WITH CBC SECTION 1913A.7.
5.02 POST-INSTALLED ANCHORS IN CONCRETE USED TO ATTACH BRACING WIRES SHALL BE TESTED AT A FREQUENCY OF 50 PERCENT IN ACCORDANCE WITH CBC SECTION 1913A.7.

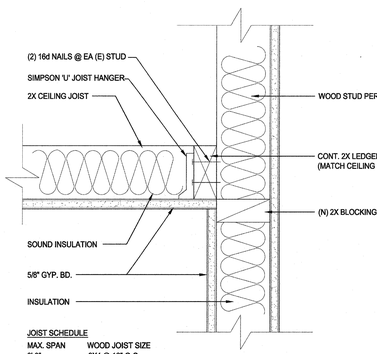
6. LIGHT FIXTURES:
6.01 ALL LIGHT FIXTURES SHALL BE POSITIVELY ATTACHED TO THE CEILING SUSPENSION SYSTEMS BY MECHANICAL MEANS TO RESIST A HORIZONTAL FORCE EQUAL TO THE WEIGHT OF THE FIXTURE. A MINIMUM OF TWO SCREWS OR APPROVED FASTENERS ARE REQUIRED AT EACH LIGHT FIXTURE. PER ASTM E580, SECTION 5.3.1.1.
6.02 SURFACE-MOUNTED LIGHT FIXTURES SHALL BE ATTACHED TO THE MAIN RUNNER WITH AT LEAST TWO POSITIVE CLAMPING DEVICES. THE CLAMPING DEVICE SHALL COMPLETELY SURROUND THE SUPPORTING CEILING RUNNER AND BE MADE OF STEEL WITH A MINIMUM THICKNESS OF #14 GAGE. ROTATIONAL SPRING CATCHES DO NOT COMPLY. A #12 GAGE SLACK SAFETY WIRE SHALL BE CONNECTED FROM EACH CLAMPING DEVICE TO THE STRUCTURE ABOVE. PROVIDE ADDITIONAL SUPPORTS WHEN LIGHT FIXTURES ARE EIGHT (8) FEET OR LONGER OR EXCEED 56 LB. MAXIMUM SPACING BETWEEN SUPPORTS SHALL NOT EXCEED EIGHT (8) FEET.
6.03 LIGHT FIXTURES WEIGHING LESS THAN OR EQUAL TO 10 LB. SHALL HAVE A MINIMUM OF ONE (1) #12 GAGE SLACK SAFETY WIRE CONNECTED FROM THE FIXTURE HOUSING TO THE STRUCTURE ABOVE.
6.04 LIGHT FIXTURES WEIGHING LESS THAN OR EQUAL TO 10 LB. SHALL HAVE A MINIMUM OF ONE (1) #12 GAGE SLACK SAFETY WIRE CONNECTED FROM THE FIXTURE HOUSING TO THE STRUCTURE ABOVE.
6.05 LIGHT FIXTURES WEIGHING GREATER THAN 10 LB. BUT LESS THAN OR EQUAL TO 56 LBS. MAY BE SUPPORTED DIRECTLY ON THE CEILING RUNNERS, BUT THEY SHALL HAVE A MINIMUM OF TWO (2) #12 GAGE SLACK SAFETY WIRES CONNECTED FROM THE FIXTURE HOUSING AT DIAGONAL CORNERS TO THE STRUCTURE ABOVE. EXCEPTION: ALL LIGHT FIXTURES GREATER THAN TWO BY FOUR FEET WEIGHING LESS THAN 56 LBS. SHALL HAVE A #12 GAGE SLACK SAFETY WIRE AT EACH CORNER.
6.06 ALL LIGHT FIXTURES WEIGHING GREATER THAN 56 LB. SHALL BE INDEPENDENTLY SUPPORTED BY NOT LESS THAN FOUR (4) TAUT #12 GAGE HANGER WIRES (ONE AT EACH CORNER) ATTACHED FROM THE FIXTURE HOUSING TO THE STRUCTURE ABOVE OR OTHER APPROVED HANGERS. THE FOUR (4) TAUT #12 GAGE WIRES OR OTHER APPROVED HANGERS, INCLUDING THEIR ATTACHMENT TO THE STRUCTURE ABOVE, SHALL BE CAPABLE OF SUPPORTING FOUR (4) TIMES THE WEIGHT OF THE FIXTURE.

7. SERVICES WITHIN THE CEILING:
7.01 ALL FLEXIBLE SPRINKLER HOSE FITTING MOUNTING BRACKETS, CEILING-MOUNTED AIR TERMINALS OR OTHER SERVICES SHALL BE POSITIVELY ATTACHED TO THE CEILING SUSPENSION SYSTEMS BY MECHANICAL MEANS. SCREWS OR APPROVED FASTENERS ARE REQUIRED. A MINIMUM OF TWO ATTACHMENTS ARE REQUIRED AT EACH COMPONENT.
7.02 CEILING-MOUNTED AIR TERMINALS OR OTHER SERVICES WEIGHING LESS THAN OR EQUAL TO 20 LB. SHALL HAVE ONE (1) #12 GAGE SLACK SAFETY WIRE ATTACHED FROM THE TERMINAL OR SERVICE TO THE STRUCTURE ABOVE.
7.03 FLEXIBLE SPRINKLER HOSE FITTINGS, CEILING-MOUNTED AIR TERMINALS OR OTHER SERVICES WEIGHING MORE THAN 20 LB. BUT LESS THAN OR EQUAL TO 56 LB. SHALL HAVE TWO (2) #12 GAGE SLACK SAFETY WIRES (AT DIAGONAL CORNERS) CONNECTED FROM THE TERMINAL OR SERVICE TO THE STRUCTURE ABOVE.
7.04 FLEXIBLE SPRINKLER HOSE FITTINGS, CEILING-MOUNTED AIR TERMINALS OR OTHER SERVICES WEIGHING MORE THAN 56 LB. SHALL BE SUPPORTED DIRECTLY FROM THE STRUCTURE ABOVE BY NOT LESS THAN FOUR (4) TAUT #12 GAGE HANGER WIRES ATTACHED FROM THE TERMINAL OR SERVICE TO THE STRUCTURE ABOVE OR OTHER APPROVED HANGERS.

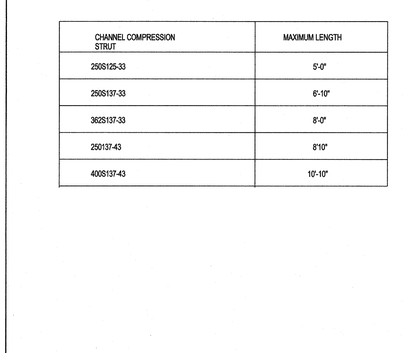
8. OTHER DEVICES WITHIN THE CEILING:
8.01 ALL LIGHTWEIGHT MISCELLANEOUS DEVICES, SUCH AS STROBE LIGHTS, OCCUPANCY SENSORS, SPEAKERS, EXIT SIGNS, ETC., SHALL BE ATTACHED TO THE CEILING GRID. IN ADDITION, DEVICES WEIGHING MORE THAN 10 LBS. SHALL HAVE A #12 GAGE SLACK SAFETY WIRE ANCHORED TO THE STRUCTURE ABOVE. DEVICES WEIGHING MORE THAN 20 LB. SHALL BE SUPPORTED INDEPENDENTLY FROM THE STRUCTURE ABOVE.



WALL BACKING SECTION — SCALE: 3" = 1'-0" — 6



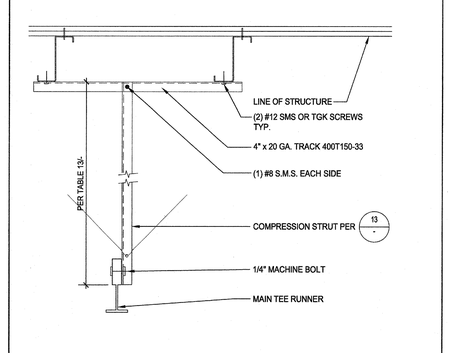
WALL PERPENDICULAR TO JOIST — SCALE: 1-1/2" = 1'-0" — 7



NOTES:

1. PROVIDE #12 GAGE HANGER WIRES AT THE ENDS OF ALL MAIN AND CROSS RUNNERS WITHIN EIGHT (8) INCHES OF THE SUPPORT OR WITHIN ONE-FOURTH (¼) OF THE LENGTH OF THE END TEE, WHICHEVER IS LESS, FOR THE PERIMETER OF THE CEILING AREA. PERIMETER WIRES ARE NOT REQUIRED WHEN THE LENGTH OF THE END TEE IS EIGHT (8) INCHES OR LESS.
2. NAILS AT ENDS OF HORIZONTAL STABILIZERS ARE TO BE PLACED WITH NAIL HEAD TOWARD CENTER OF SPAN OF STRUT.
3. STABILIZER BAR MAY BE SLOTTED APPROVED ANGLES OR CHANNELS WITH "DIAMOND POINTS" OF SPRING STEEL WHICH SNAP TIGHT TO PREVENT MOVEMENT OF STRUT.
4. (1) #10 SMS TO 20 GA. MIN. WALL STUD @ 24" O.C.

CEILING PERIMETER — SCALE: 1-1/2" = 1'-0" — 8



NOT TO EXCEED THE ALLOWABLE LENGTH GIVEN IN THE TABLE ON 9/- FOR THE COMPRESSION STRUT SELECTED

SUSPENDED ACOUSTICAL CEILING - CHANNEL TYPE STRUT — SCALE: N.T.S. — 9

WALL INTERSECTION @ (E) WINDOW — SCALE: 3" = 1'-0" — 11

JOIST SCHEDULE

MAX. SPAN	WOOD JOIST SIZE
8'-9"	2X4 @ 16" O.C.
13'-9"	2X6 @ 16" O.C.
10'-2"	2X8 @ 16" O.C.

FRAMED CEILING CONNECTION — SCALE: 3" = 1'-0" — 12

CHANNEL COMPRESSION STRUT	MAXIMUM LENGTH
250S125-33	5'-0"
250S137-33	6'-10"
362S137-33	8'-0"
250137-43	8'10"
400S137-43	10'-10"

COMPRESSION STRUT TABLE — SCALE: NTS — 13

TYPICAL COMPRESSION SRUT — SCALE: NTS — 14

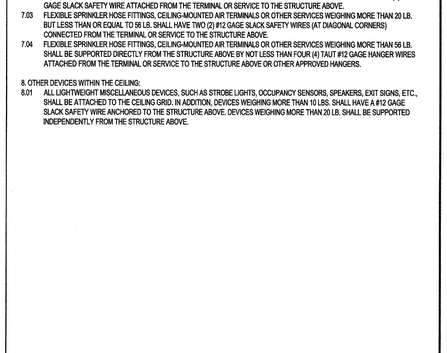
TYPICAL ACOUSTICAL PANEL CEILING EDGE @ WALL W/ ACM7 SEISMIC CLIP — SCALE: HALF — 16

WALL CONNECTION @ FLOOR — SCALE: 3" = 1'-0" — 17

NOTES:
WIRE SPLICES ARE SHOWN LOOSELY TIED FOR ILLUSTRATIVE PURPOSES ONLY AND SHALL BE DRAWN TIGHT TO COMPLETE INSTALLATION WHEN COMPLETED.

HANGER AND BRACING WIRE CONN.-TYP. WIRE TURNS — SCALE: 1-1/2" = 1'-0" — 18

SPLAY BRACING WIRE — SCALE: 3" = 1'-0" — 19



HANGER WIRE DETAIL — SCALE: 3" = 1'-0" — 20

tBP
architecture
planning
interiors
tBP/Architecture
4611 Teller Avenue
Newport Beach, CA 92660
ph: 949.673.0300 fx: 949.732.3895
architect

consultant

FILE NO.: 19-41
IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
DEPARTMENT OF GENERAL SERVICES
A# 03-119149
AC FLS EC SS
DATE JAN 7 2019

DEPARTMENT OF GENERAL SERVICES
DSA Los Angeles Regional Office
700 N. Alameda Street, Suite 5-500
Los Angeles, California 90012
ph: (213)897-3995 fx: (213)897-3159/0726

CLOUD PRESCHOOL RELOCATABLES
4444 CLOUD AVENUE
LA CRESCENTA, CALIFORNIA 91214

GLENDALE UNIFIED SCHOOL DISTRICT

owner

tBP project number : 20778.10
file name:
drawn by: checked by:
date: August 14, 2018

Rev:	date:	description:

drawing title:
WALL & CEILING DETAILS

drawing no.:
A5-1
drawing of

DOOR SCHEDULE

DOOR NO.	DIMENSION		DOOR				FRAME			DETAILS					DOOR ASSEMBLY RATING	DOOR GROUP	REMARKS	SIGNAGE
	WIDTH	HEIGHT	TYPE	MAT.	FINISH	COLOR	MAT.	FINISH	COLOR	HEAD	TRANSOM	JAMB	JAMB	THRESHOLD				TEXT
INTERIOR DOORS																		
101	3'-0"	7'-0"	A	HM	PSG	P-1	PL	-	P-1	13 / A6-1	-	-	13 / A6-1	-	-	-	01		SPEECH
102	3'-0"	7'-0"	B	HM	PSG	P-1	PL	-	P-1	13 / A6-1	-	-	13 / A6-1	-	-	18 / A6-1	-	02		RESTROOM
201	3'-0"	7'-0"	A	HM	PSG	P-1	PL	-	P-1	13 / A6-1	-	-	13 / A6-1	-	-		-	01		SPEECH
202	3'-0"	7'-0"	B	HM	PSG	P-1	PL	-	P-1	13 / A6-1	-	-	13 / A6-1	-	-	18 / A6-1	-	02		RESTROOM
301	3'-0"	7'-0"	A	HM	PSG	P-1	PL	-	P-1	13 / A6-1	-	-	13 / A6-1	-	-		-	03	UNDERCUT DOOR	OFFICE
302	3'-0"	7'-0"	A	HM	PSG	P-1	PL	-	P-1	13 / A6-1	-	-	13 / A6-1	-	-		-	03	UNDERCUT DOOR	OFFICE
303	3'-0"	7'-0"	A	HM	PSG	P-1	PL	-	P-1	13 / A6-1	-	-	13 / A6-1	-	-		-	03	UNDERCUT DOOR	OFFICE
304	3'-0"	7'-0"	A	HM	PSG	P-1	PL	-	P-1	13 / A6-1	-	-	13 / A6-1	-	-		-	01	UNDERCUT DOOR	CONFERENCE
305	3'-0"	7'-0"	A	HM	PSG	P-1	PL	-	P-1	13 / A6-1	-	-	13 / A6-1	-	-		-	03	UNDERCUT DOOR	OFFICE
306	3'-0"	7'-0"	A	HM	PSG	P-1	PL	-	P-1	13 / A6-1	-	-	13 / A6-1	-	-	18 / A6-1	-	03	UNDERCUT DOOR	RESTROOM
307	3'-0"	7'-0"	A	HM	PSG	P-1	PL	-	P-1	13 / A6-1	-	-	13 / A6-1	-	-		-	03	UNDERCUT DOOR	OFFICE

100 SERIES - BASE CABINET DESIGNS

STYLE 102

STYLE 154

ADA SINK W/ PARTIAL 8" DEEP BASE 5" EXPOSED APRON

TALL STORAGE CABINET DESIGNS

STYLE 511

SPLIT UNIT, SHELVES / WARDROBE W/ SHELF, POLE, MIRROR & LOCK

GENERAL NOTES

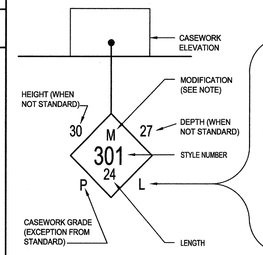
CASEWORK

1. ONLY THOSE CABINETS CALLED OUT ON BUILDING INTERIOR ELEVATIONS AND FLOOR PLANS SHALL BE PROVIDED.
2. DOOR SWINGS SHALL BE AS SHOWN ON INTERIOR ELEVATIONS. IF NOT ELEVATED, SWINGS SHALL BE AS SHOWN ON DETAIL SHEET ILLUSTRATIONS. SYMBOL 'RS' INDICATES REVERSE SWING.
3. ALL CABINET DIMENSIONS INDICATED ARE NOMINAL OUTSIDE DIMENSIONS, AND SHALL NOT BE EXCEEDED; (EXCEPTION - CABINETS ADJACENT TO WALLS MAY BE INCREASED IN LENGTH TO ELIMINATE THE NEED FOR FILLER STRIPS). A ¼" TOLERANCE IS PERMITTED ON DIMENSIONS OVER 48". FOR 48" AND SMALLER DIMENSIONS, TOLERANCE IS LIMITED TO 10%. HEIGHT DIMENSION OF BASE CABINETS INCLUDES FINISHED TOP.
4. ALIGN SIDE OF CABINET WITH EDGE OF DOOR FRAME WHERE OCCURS.
5. PAPER AND CHART STORAGE UNITS SHALL BE 27" DEEP UNLESS OTHER WISE NOTED.

COUNTERTOPS AND BACKSPLASHES

1. WHERE BACKSPLASH IS INDICATED, IT SHALL BE 4" HIGH @ NON-SINK AREAS & 6" HIGH OR TO UNDERSIDE OF UPPER CABINETS @ WET AREAS (SEE INTERIOR ELEVATIONS), TOP MOUNTED TYPE, HAVING SQUARE TOP WITH SHELF EDGE.

SYMBOLS AND NOTATIONS FOR CABINETS



SYMBOL NOTATIONS

C	-	CHALKBOARD ON BACK
CD	-	CHALKBOARD ON DOOR
ML	-	METAL LEGS TO REPLACE CASTERS
WL	-	WOODEN LEGS TO REPLACE CASTERS
G	-	GLIDES TO REPLACE CASTERS
L	-	LOCKS REQUIRED AT ALL DOORS AND/OR DRAWERS IN CABINETS
M	-	MODIFICATION TO STYLE ONLY
RS	-	REVERSE SWING OF DOOR FROM THAT SHOWN ON DETAIL SHEETS
T	-	TACK BOARD ON BACK
TD	-	TACK BOARD ON DOOR
X	-	IN LIEU OF STYLE NO. INDICATES SPECIAL DESIGN NOT ILLUSTRATED ON DETAIL SHEETS
7	-	SUFFIX ON 100 AND 200 SERIES CONVERTS BASE UNITS TO MOVEABLE UNITS

COUNTERTOP NOTATIONS

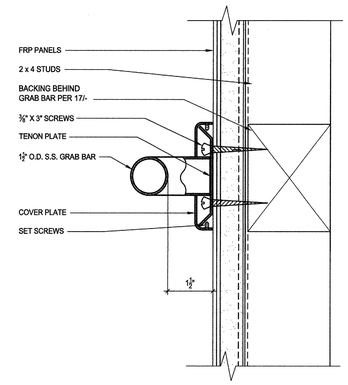
LAM. PLAS.	-	LAMINATED PLASTIC
HD. BD.	-	HARDBOARD
HDWD.	-	HARDWOOD
CST	-	COMPOSITION STONE
LAB. GRADE	-	ACID-RESISTANT LAMINATED PLASTIC
EP. RES.	-	EPOXY RESIN

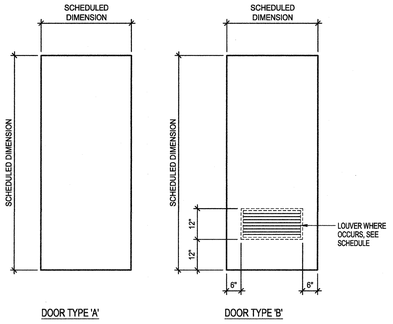
CASEWORK GRADES

P	-	Ppremium
C	-	CUSTOM (TYPICAL GRADE U.N.O.)
E	-	ECONOMY
LAB	-	LABORATORY

WOODWORK INSTITUTE CABINET DESIGNS

N.T.S. 4





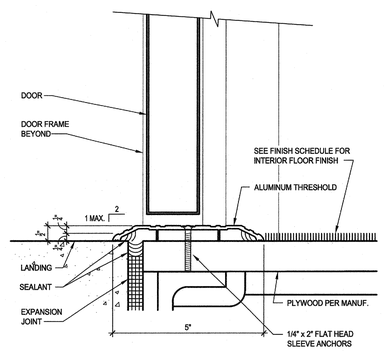
DOOR TYPE 'A'

DOOR TYPE 'B'

1. DOORS SHALL BE 1-3/4" THICK, UNLESS NOTED OTHERWISE.
2. THE LETTER 'L' FOLLOWING 'DOOR TYPE' DESIGNATION IN THE DOOR SCHEDULE INDICATES DOORS WITH LOUVERS. SEE DOOR TYPE FOR SIZE OF LOUVER.
3. EXTERIOR DOOR REQUIREMENTS

   ALL EXTERIOR DOORS IN BUILDINGS, INCLUDING, BUT NOT LIMITED TO DOORS OF TOILETS AND STORAGE ROOMS, SHALL CONFORM WITH THE REQUIREMENTS OF THE LATEST EDITION OF THE CALIFORNIA BUILDING CODE:

   - EXIT DOOR SHALL BE OPERABLE FROM THE INSIDE WITHOUT THE USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT.
   - HAND ACTIVATED DOOR OPENING HARDWARE SHALL BE CENTERED BETWEEN 30" AND 44" ABOVE FINISH FLOOR. PANIC HARDWARE SHALL BE 36" TO 44" ABOVE FINISH FLOOR.
   - DEAD BOLTS ARE NOT PERMITTED UNLESS OPERABLE WITH A SINGLE EFFORT LEVER TYPE HARDWARE.
   - ALL ROOMS SERVING AN OCCUPANCY LOAD OF 50 OR GREATER AND DOORS LOCATED ON THE DISCHARGE OF EXIT CORRIDORS ARE REQUIRED TO BE PROVIDED WITH PANIC HARDWARE (CBC 1008.1.10).
   - ALL FIRE DOOR LABELS SHALL COMPLY WITH C.B.C. 715.4.6



EXTERIOR THRESHOLD @ MODULAR — SCALE: HALF — 11

DOOR TYPES

SCALE: 1/2" = 1'-0" — 7

DOOR HARDWARE GROUP NO. 1

QTY		DESCRIPTION	CATALOG NO.	FINISH	MFR.
3	EA	HINGE	5BB1 4.5X4.5	652	IVE
1	EA	CLASSROOM SECURITY	ND75TD RHO	626	SCH
2	EA	PRIMUS CORE	20-740	626	SCH
1	EA	FLOOR STOP	FS436	626	IVE
1	SET	SEALS	188S	BLK	ZER

DOOR HARDWARE GROUP NO.2

QTY		DESCRIPTION	CATALOG NO.	FINISH	MFR.
1	EA	FINGER-GUARD	51A-120	GRY	ZER
3	EA	HINGE	5BB1 4.5 X4.5	652	IVE
1	EA	FINGER-GUARD	951	GRY	ZER
1	EA	HOSPITAL PRIVACY	ND44S RHO	626	SCH
1	EA	FLOOR STOP	FS436	626	IVE
3	EA	SILENCER	SR64	GRY	IVE

DOOR HARDWARE GROUP NO.3

QTY		DESCRIPTION	CATALOG NO.	FINISH	MRF.
3	EA	HINGE	5BB1 4.5X4.5	626	IVE
1	EA	ENTRANCE/OFFICE LOCK	ND50TD RHO	626	SCH
1	EA	FLOOR STOP	FS436	626	IVE
3	EA	SILENCER	SR64	GRY	IVE

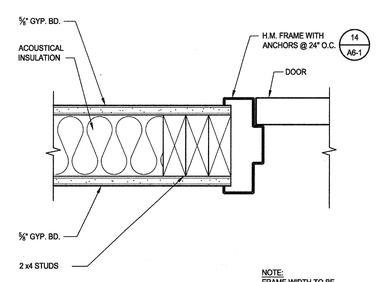
DOOR HARDWARE GROUP NO.4

QTY		DESCRIPTION	CATALOG NO.		MRF.
1	EA	PADLOCK	KS43-A-3200 BALANCE OF HARDWARE BY GATE MANUF.		SCH

DOOR HARDWARE — SCALE: NTS — 12

DOOR SCHEDULE NOTES

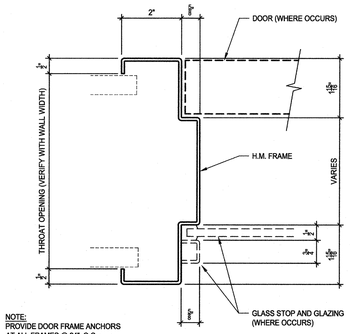
SCALE: NTS — 8



JAMB DETAIL (HEAD SIM.) — SCALE: 3" = 1'-0" — 13

GRAB BAR - WALL MOUNTED

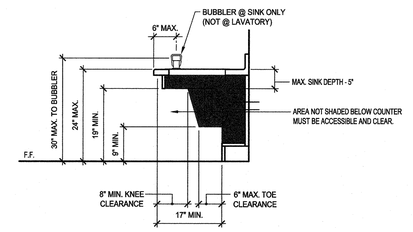
SCALE: HALF — 9



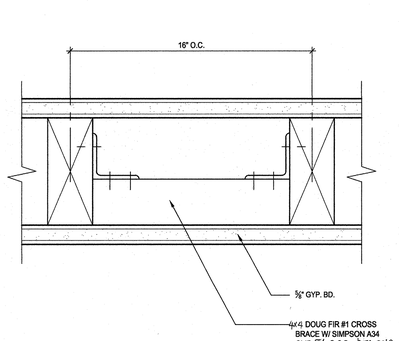
TYPICAL HOLLOW METAL FRAME PROFILE — SCALE: HALF — 14

NOTES

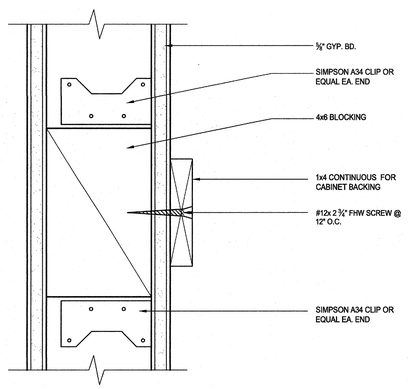
1. FAUCET CONTROLS AND OPERATING MECHANISMS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO MORE THAN 5 LBS. LEVER OPERATED, PUSH TYPE AND ELECTRONICALLY CONTROLLED MECHANISMS ARE ACCEPTABLE. SELF CLOSING VALVES ARE ALLOWED IF THE FAUCET REMAINS OPEN FOR AT LEAST 10 SECONDS.



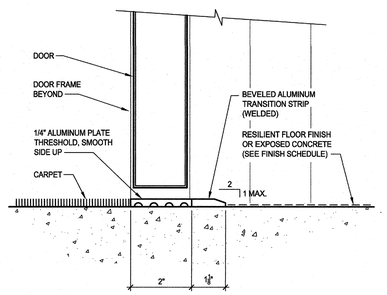
ACCESSIBLE SINK / LAVATORY — SCALE: 3/4" = 1'-0" — 15



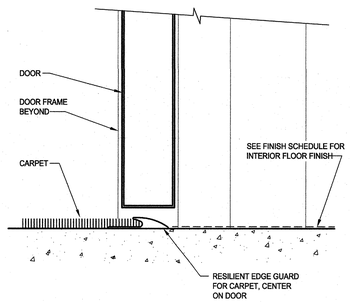
WALL BACKING PLAN — SCALE: HALF — 16



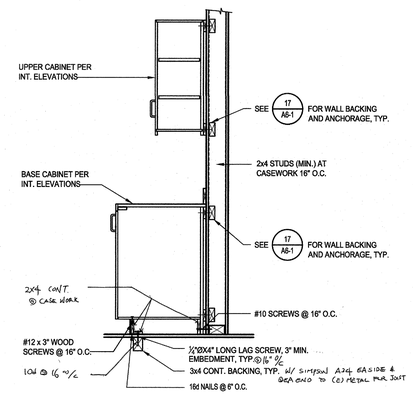
WALL BACKING DETAIL — SCALE: HALF — 17



INTERIOR METAL THRESHOLD DETAIL — SCALE: HALF — 18



CARPET EDGE THRESHOLD DETAIL — SCALE: HALF — 19



TYPICAL CASEWORK ANCHORAGE — SCALE: 3/4" = 1'-0" — 20

tBP architecture planning interiors
tBP/Architecture
4611 Teller Avenue
Newport Beach, CA 92660
ph: 949.673.0300 fx: 949.732.3895

architect

consultant

FILE NO.: 19-41
IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
DEPARTMENT OF GENERAL SERVICES
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ACCESS FLS
DATE JAN 7 2019

DEPARTMENT OF GENERAL SERVICES
DSA Los Angeles Regional Office
700 N. Alameda Street, Suite 5-500
Los Angeles, California 90012
ph: (213)897-3995 fx: (213)897-3159/0726

CLOUD PRESCHOOL RELOCATABLES

4444 CLOUD AVENUE
LA CRESCENTA, CALIFORNIA 91214

GLENDALE UNIFIED SCHOOL DISTRICT

owner

tBP project number : 20778.10

file name:

drawn by: checked by:

date: August 14, 2018

Rev: date: description:

drawing title:

DOOR SCHEDULE & DETAILS

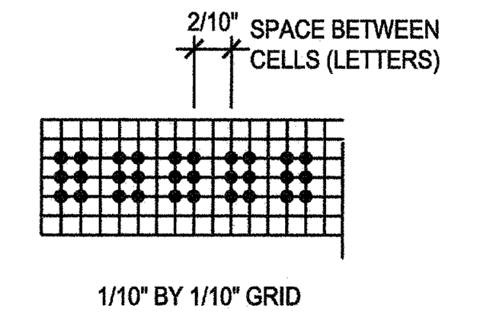
drawing no.:

A6-1

drawing of

TYPICAL SIGNAGE NOTES

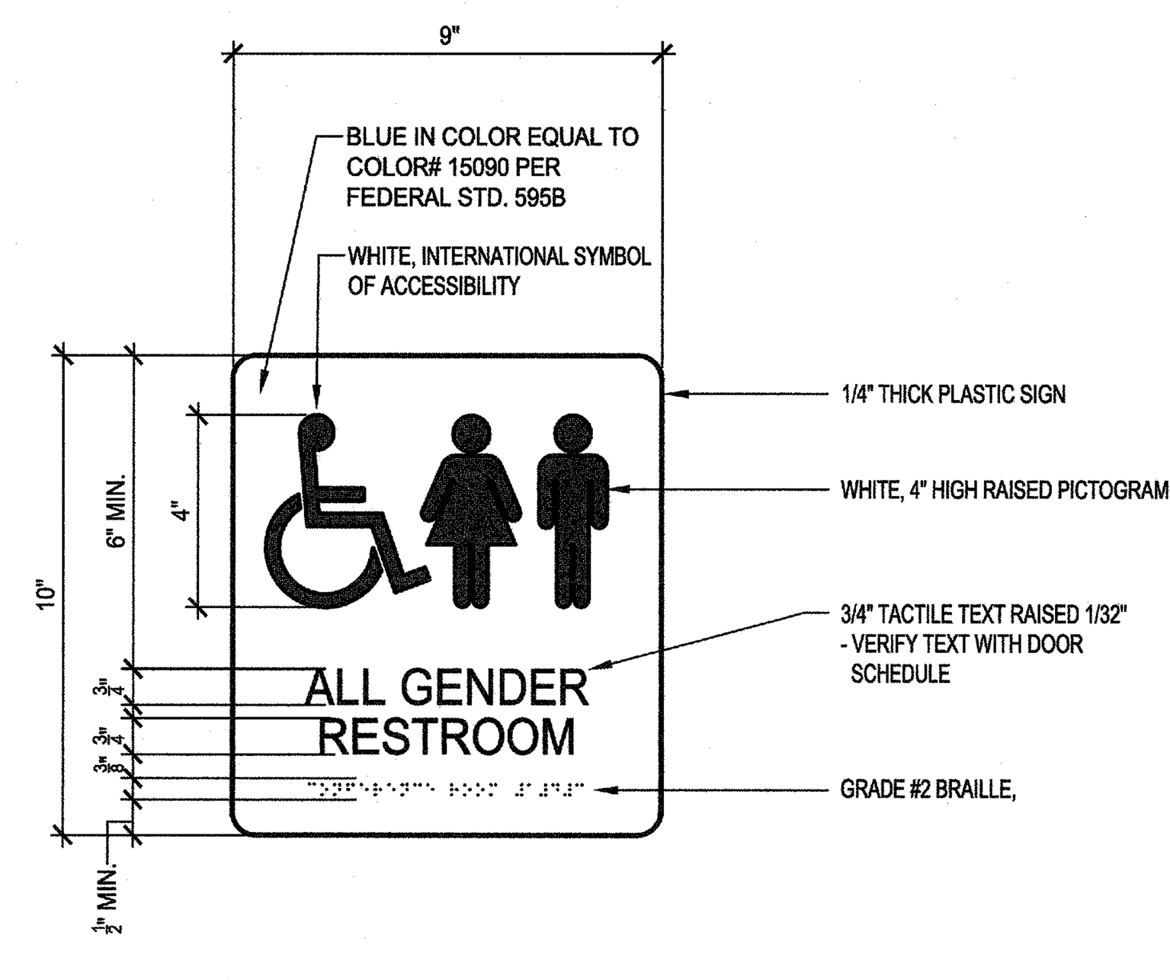
1. TACTILE CHARACTER TYPE: TACTILE CHARACTERS ON SIGNS SHALL BE RAISED 1/32" MINIMUM AND SHALL BE SANS SERIF UPPERCASE CHARACTERS ACCOMPANIED BY CONTRACTED (GRADE 2) BRAILLE. CBC SECTION 1117B.5.5, ITEM 1.
2. TACTILE CHARACTER SIZE: RAISED CHARACTERS SHALL BE A MINIMUM OF 5/8" AND A MAXIMUM OF 2" HIGH. CBC SECTION 1117B.5.5, ITEM 2.
3. FINISH AND CONTRAST: CONTRAST BETWEEN CHARACTERS, SYMBOLS AND THEIR BACKGROUND MUST BE 70% MINIMUM AND HAVE A NON-GLARE FINISH. CBC SECTION 1117B.5.2.
4. PROPORTIONS: RAISED CHARACTERS ON SIGNS SHALL BE SELECTED FROM FONTS WHERE THE WIDTH OF THE UPPERCASE LETTER "O" IS 60% MINIMUM AND 110% MAXIMUM OF THE HEIGHT OF THE UPPERCASE LETTER "I". STROKE THICKNESS OF THE UPPERCASE LETTER "I" SHALL BE 15% MAXIMUM OF THE HEIGHT OF THE CHARACTER. CBC SECTION 1117B.5.5, ITEM 5.
5. BRAILLE: CONTRACTED (GRADE 2) BRAILLE SHALL BE USED WHEREVER BRAILLE IS REQUIRED IN OTHER PORTIONS OF THESE STANDARDS. DOTS SHALL BE 1/10" ON CENTERS IN EACH CELL WITH 2/10" SPACE BETWEEN CELLS, MEASURED FROM THE SECOND COLUMN OF DOTS IN THE FIRST CELL TO THE FIRST COLUMN OF DOTS IN THE SECOND CELL. DOTS SHALL BE RAISED A MINIMUM OF 1/40" ABOVE THE BACKGROUND. BRAILLE DOTS SHALL BE DOMED OR ROUNDED. CBC SECTION 1117B.5.6.



CALIFORNIA GRADE 2 BRAILLE SHALL BE USED WHEREVER BRAILLE IS REQUIRED. INDIVIDUAL BRAILLE DOTS SHALL EACH BE DISTINCT AND SEPARATE. EACH DOT SHALL BE ROUNDED OR DOMED IN LIEU OF SQUARE SIDED AND FLAT TOPPED.

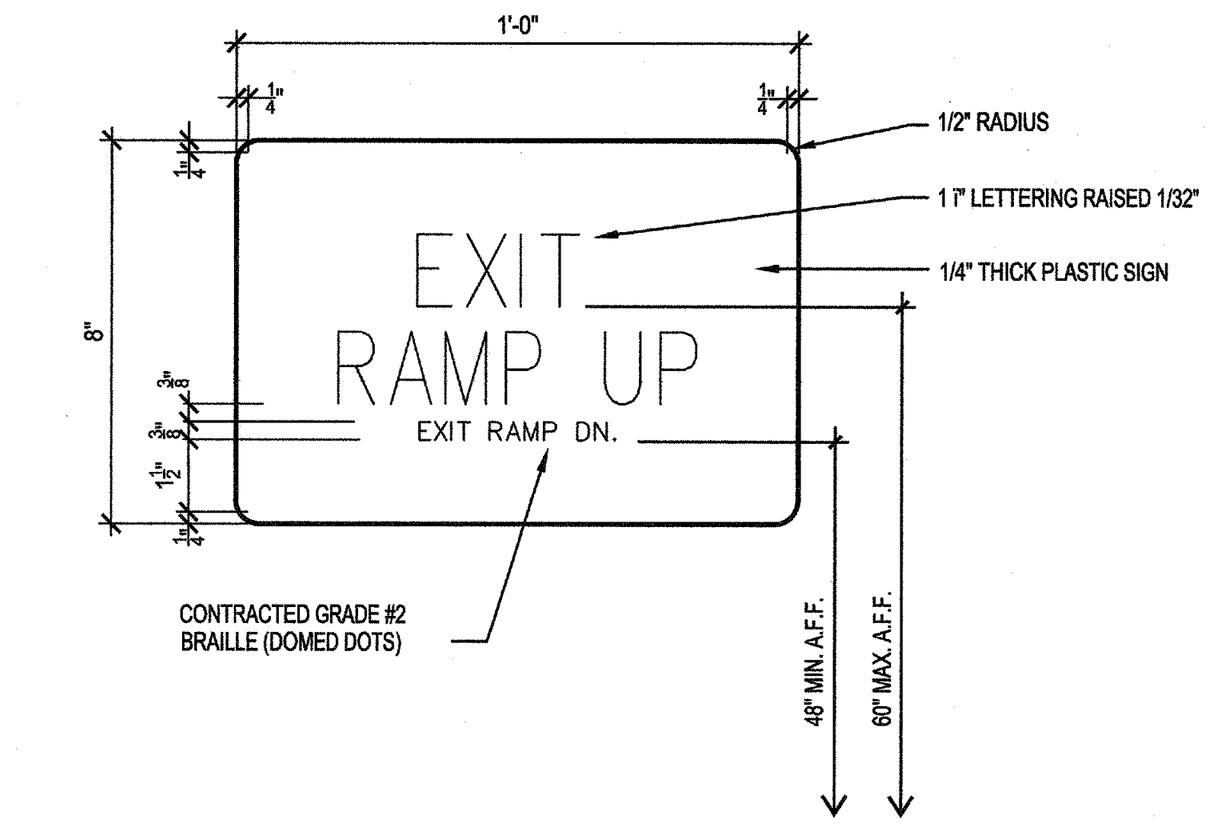
6. MOUNTING HEIGHT AND LOCATION: SIGNS WITH RAISED CHARACTERS AND BRAILLE SHALL BE LOCATED 48" MINIMUM TO THE BASELINE OF THE LOWEST LINE OF BRAILLE AND 60" MAXIMUM TO THE BASELINE OF THE HIGHEST LINE OF RAISED CHARACTERS ABOVE THE FINISH FLOOR OR GROUND SURFACE. MOUNTING LOCATION SHALL BE DETERMINED SO THAT A PERSON MAY APPROACH WITHIN 3" OF SIGNAGE WITHOUT ENCOUNTERING PROTRUDING OBJECTS OR STANDING WITHIN THE SWING OF A DOOR. CBC SECTION 1117B.5.7.

TYPICAL SIGNAGE NOTES — SCALE: FULL — 3

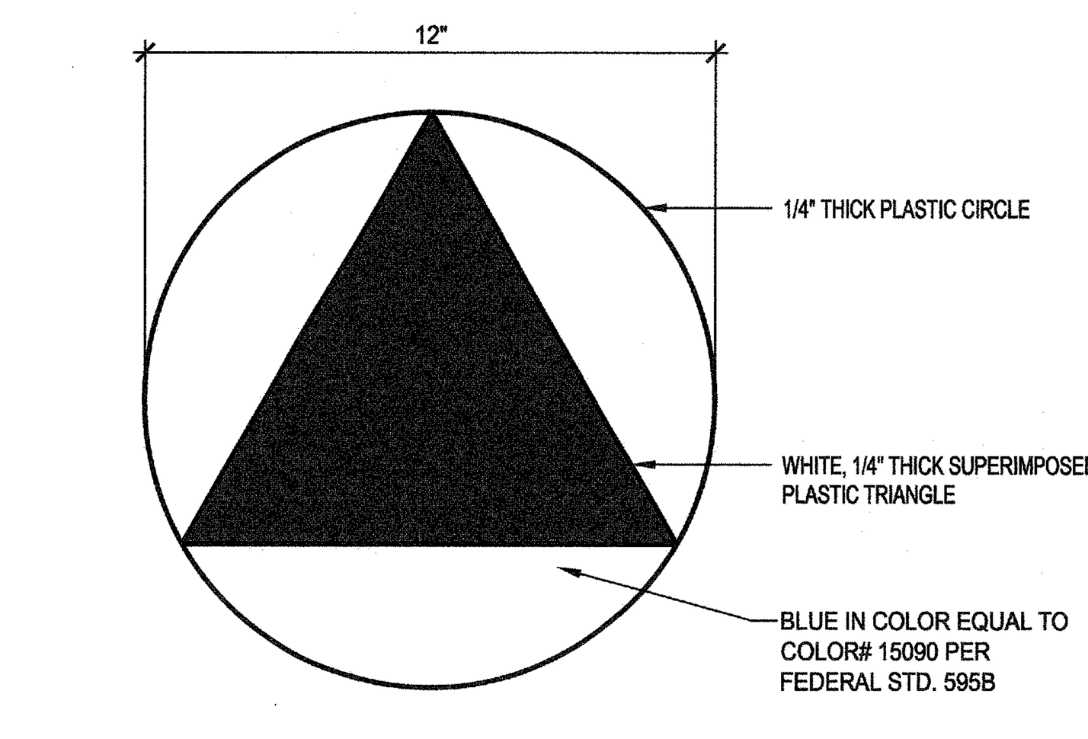


NOTE: SEE DETAIL 14/- FOR MOUNTING HEIGHT

WALL-MOUNTED TOILET ROOM SIGNAGE — SCALE: 3" = 1'-0" — 4



TACTILE EXIT SIGNAGE (ON INTERIOR SIDE) — SCALE: 3" = 1'-0" — 5

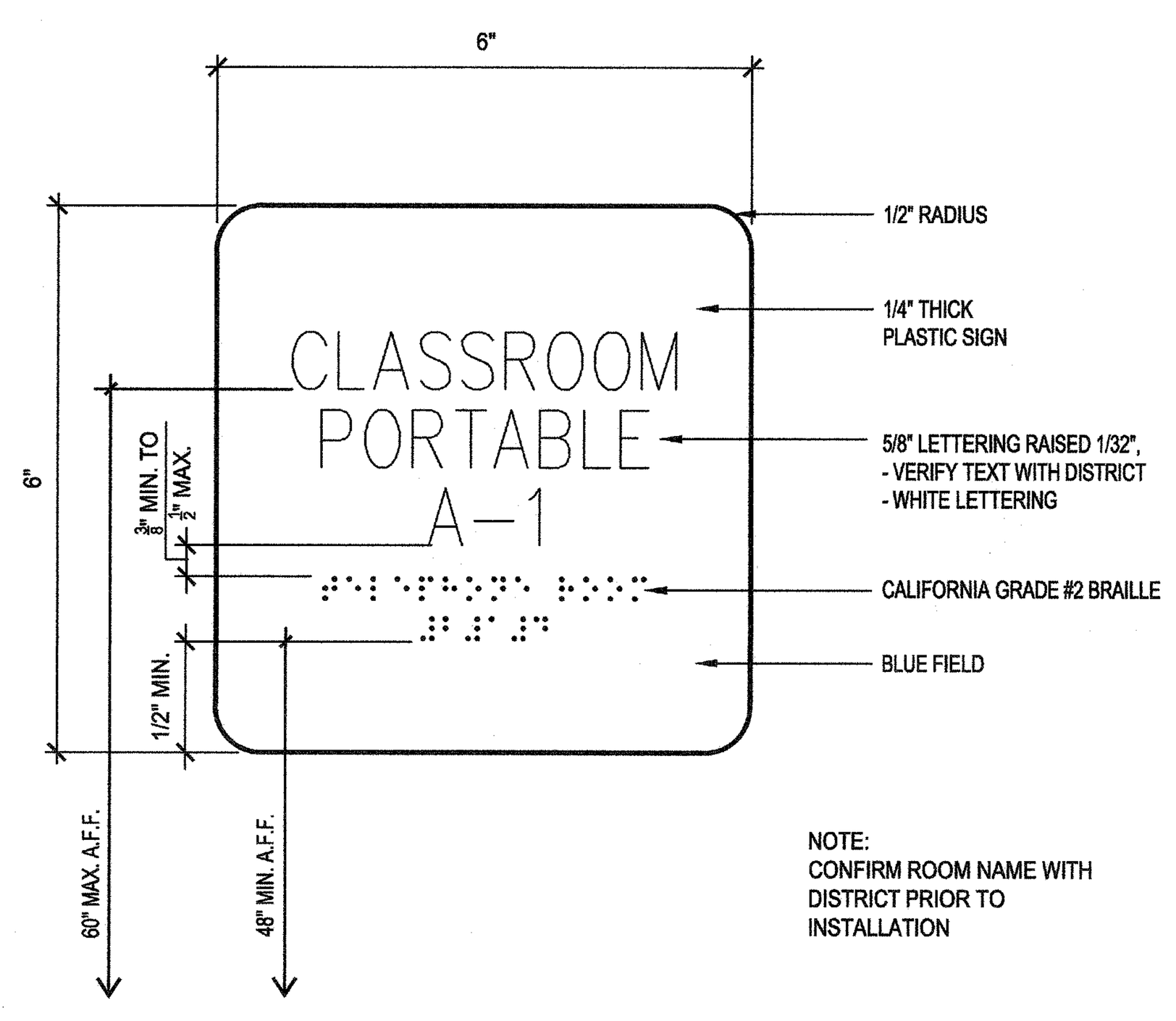


NOTES:

- SIGN COLOR SHALL BE MIN. 70% CONTRAST TO DOOR COLOR

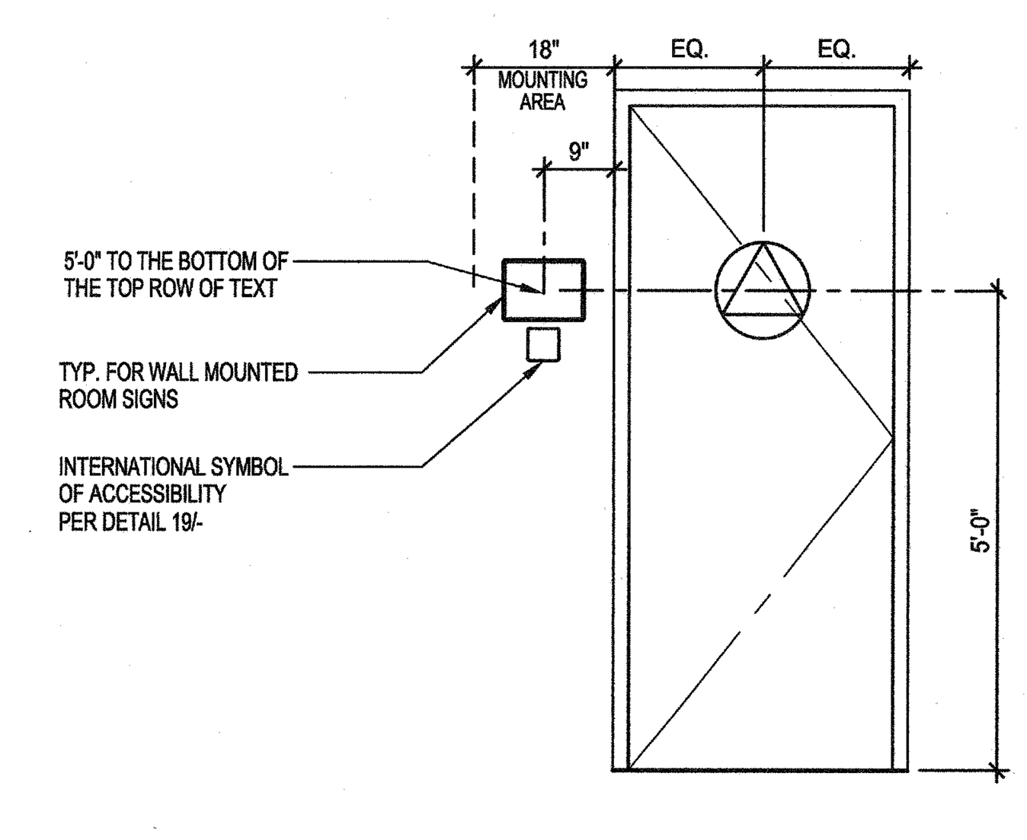
SEE DETAIL 14/- FOR MOUNTING HEIGHT

DOOR-MOUNTED TOILET RM. SIGNAGE — SCALE: 3" = 1'-0" — 9



NOTE:
CONFIRM ROOM NAME WITH DISTRICT PRIOR TO INSTALLATION

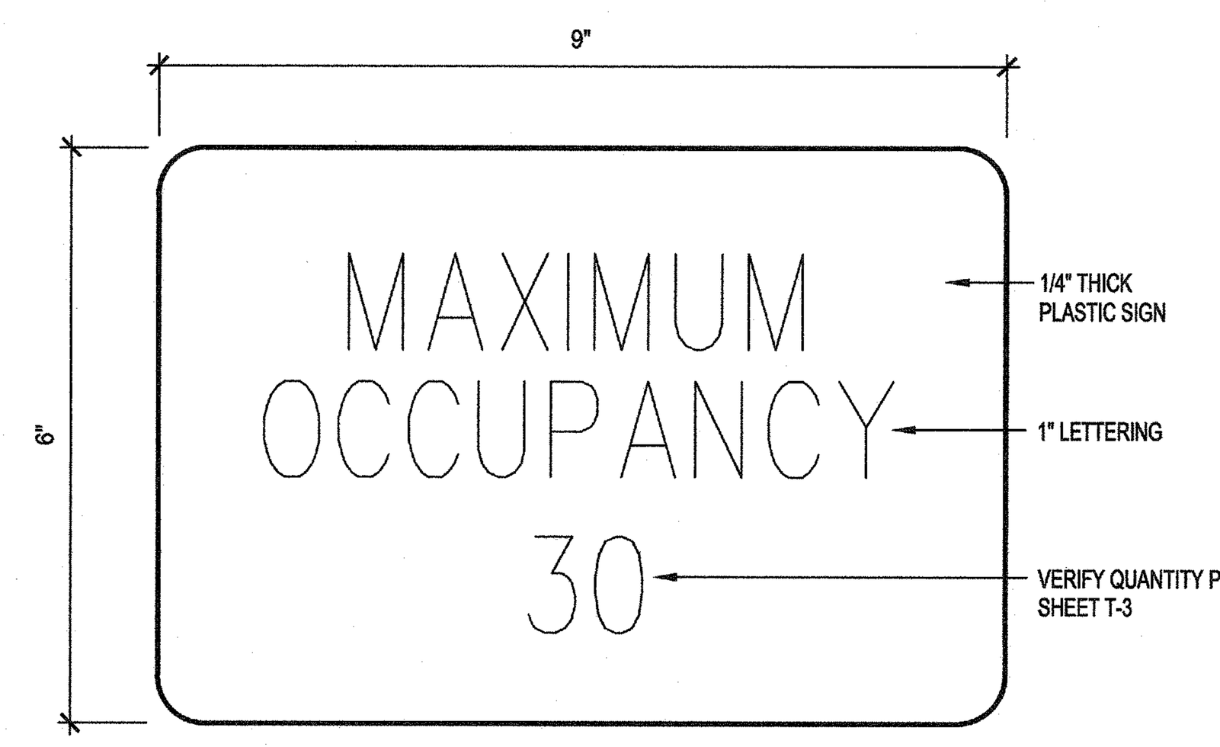
ROOM NAME/ NUMBER SIGNAGE — SCALE: HALF — 10



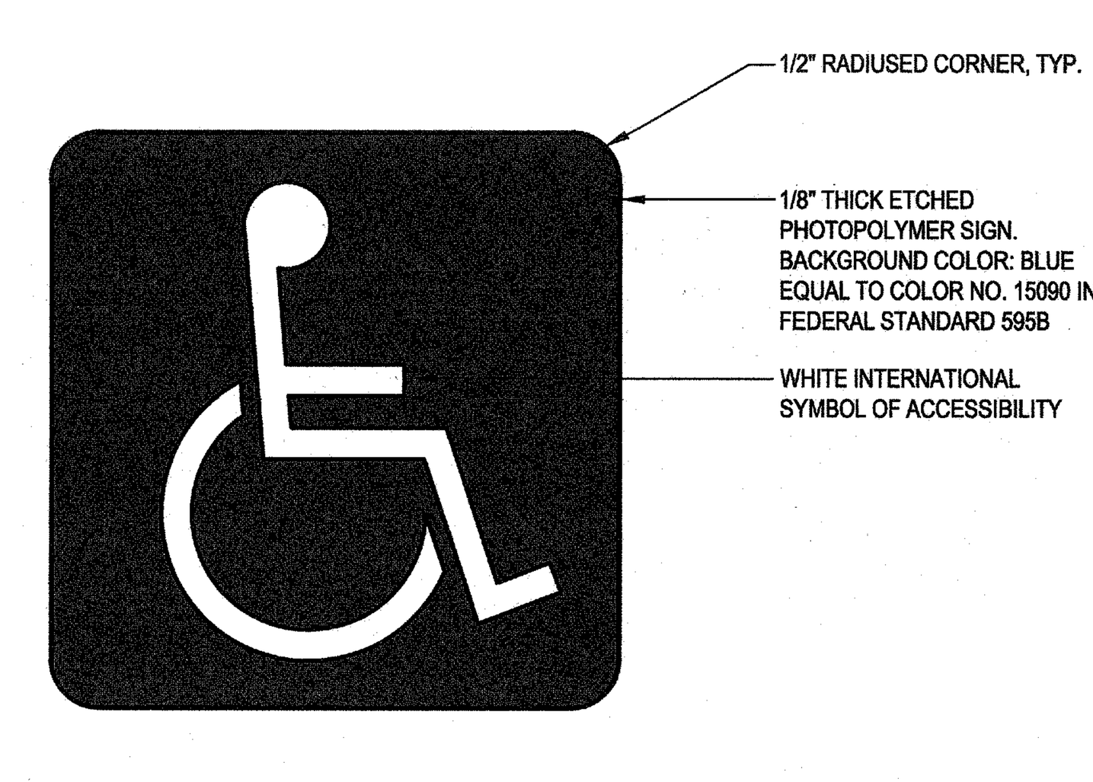
NOTES:

MOUNT SIGN ON THE WALL ADJACENT TO LATCH SIDE OF DOOR. WHERE THERE IS NO WALL SPACE ON LATCH SIDE OF DOOR, PLACE SIGNS ON NEAREST ADJACENT WALL, PREFERABLY ON THE RIGHT.

SIGNAGE LOCATION LEGEND — SCALE: 1/2" = 1'-0" — 14



OCCUPANCY SIGNAGE — SCALE: HALF — 15



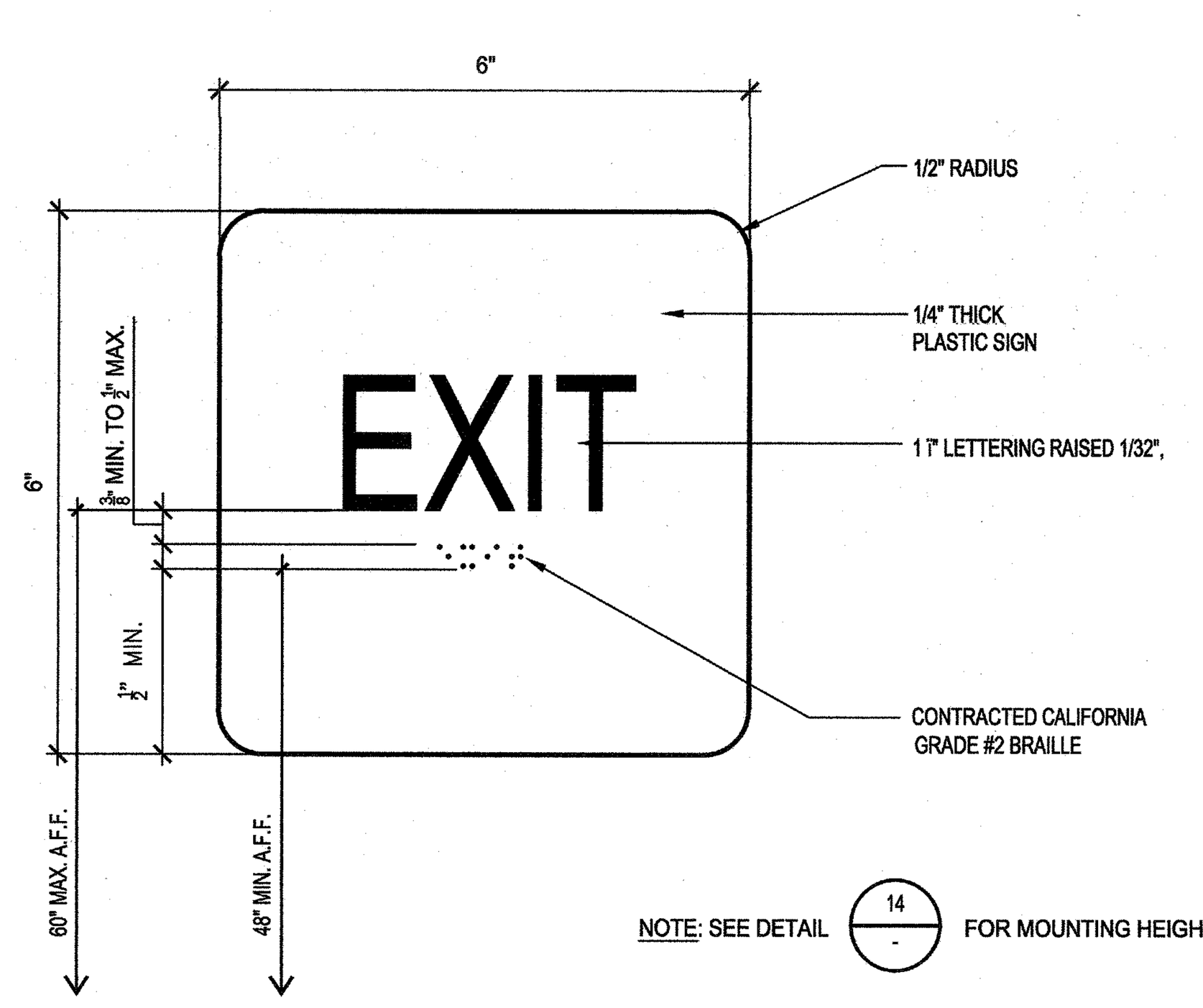
NOTES:

1) THE CHARACTERS AND BACKGROUND OF THE SIGN SHALL BE EGGSHELL, MATTE, OR OTHER NON-GLARE FINISH AND CHARACTERS SHALL CONTRAST WITH THEIR BACKGROUND.

2) MOUNT WITH 3M HIGH BOND TAPE AND SILICONE GLUE.

3) SEE 14/- FOR LOCATION.

INTERNATIONAL SYMBOL OF ACCESSIBILITY — SCALE: HALF — 19



NOTE: SEE DETAIL 14/- FOR MOUNTING HEIGHT

TACTILE EXIT SIGNAGE (ON INTERIOR SIDE) — SCALE: HALF — 20

tBP architecture planning interiors

tBP/Architecture
4611 Teller Avenue
Newport Beach, CA 92660
ph: 949.673.0300 fx: 949.732.3895

architect

consultant

FILE NO.: 19-41
IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
DEPARTMENT OF GENERAL SERVICES
A# 03-119149
AC [signature] FLS [signature] SS [signature]
DATE JAN 7 2019

DEPARTMENT OF GENERAL SERVICES
DSA Los Angeles Regional Office
700 N. Alameda Street, Suite 5-500
Los Angeles, California 90012
ph: (213)897-3995 fx: (213)897-3159/0726

CLOUD PRESCHOOL RELOCATABLES

4444 CLOUD AVENUE
LA CRESCENTA, CALIFORNIA 91214

GLENDALE UNIFIED SCHOOL DISTRICT

owner

tBP project number : 20778.10	
file name:	
drawn by:	checked by:
date: August 14, 2018	

Rev:	date:	description:

drawing title:
SIGNAGE DETAILS

drawing no.:
A7-1
drawing of

INTERIOR FINISH SCHEDULE

NO.	NAME	FLOOR MATERIAL	FLOOR TYPE	FLOOR FINISH	FLOOR COLOR	BASE MATERIAL	BASE TYPE	BASE FINISH	BASE COLOR	WALLS MATERIAL	WALLS TYPE	WALLS FINISH	WALLS COLOR	CEILING MATERIAL	CEILING TYPE	CEILING FINISH	CEILING COLOR	CEILING HEIGHT	REMARKS
CLASSROOM 1																			
100	CLASSROOM	V.C.T	-	F	VCT-1/2	RESIL.	4"	F	RB-1	V.W.C.	-	F	VWC-1/2	AC. TILE	(1)	F	ACP-1	9'-0"	-
101	SPEECH	V.C.T.	-	F	VCT-1/2	RESIL.	4"	F	RB-1	V.W.C.	-	F	VWC-1/2	AC. TILE	(1)	F	ACP-1	9'-0"	-
102	TOILET	SV	-	F	SV-1	SV	4"	F	SVB	GYP. BD. / FRP	-	PSG	P-2	GYP. BD.	(2)	PSG	P-2	8'-0"	-
CLASSROOM 2																			
200	CLASSROOM	V.C.T.	-	F	VCT-1/2	RESIL.	4"	F	RB-1	V.W.C.	-	F	VWC-1/2	AC. TILE	(1)	F	ACP-1	9'-0"	-
201	SPEECH	V.C.T.	-	F	VCT-1/2	RESIL.	4"	F	RB-1	V.W.C.	-	F	VWC-1/2	AC. TILE	(1)	F	ACP-1	9'-0"	-
202	TOILET	SV	-	F	SV-1	SV	4"	F	SVB	GYP. BD. / FRP	-	PSG	P-2	GYP. BD.	(2)	PSG	P-2	8'-0"	-
OFFICE PORTABLE																			
300	RECEPTION	CARPET	-	F	C-1	RESIL.	4"	F	RB-1	V.W.C.	-	F	VWC-1/2	AC. TILE	(1)	F	ACP-1	9'-0"	-
301	OFFICE	CARPET	-	F	C-1	RESIL.	4"	F	RB-1	V.W.C.	-	F	VWC-1/2	AC. TILE	(1)	F	ACP-1	9'-0"	-
302	OFFICE	CARPET	-	F	C-1	RESIL.	4"	F	RB-1	V.W.C.	-	F	VWC-1/2	AC. TILE	(1)	F	ACP-1	9'-0"	-
303	OFFICE	CARPET	-	F	C-1	RESIL.	4"	F	RB-1	V.W.C.	-	F	VWC-1/2	AC. TILE	(1)	F	ACP-1	9'-0"	-
304	OFFICE	CARPET	-	F	C-1	RESIL.	4"	F	RB-1	V.W.C.	-	F	VWC-1/2	AC. TILE	(1)	F	ACP-1	9'-0"	-
305	OFFICE	CARPET	-	F	C-1	RESIL.	4"	F	RB-1	V.W.C.	-	F	VWC-1/2	AC. TILE	(1)	F	ACP-1	9'-0"	-
306	OFFICE	CARPET	-	F	C-1	RESIL.	4"	F	RB-1	V.W.C.	-	F	VWC-1/2	AC. TILE	(1)	F	ACP-1	9'-0"	-
307	TOILET	SV	-	F	SV-1	SV	4"	F	SVB	GYP. BD. / FRP	-	PSG	P-2	GYP. BD.	(2)	PSG	P-2	8'-0"	-
308	HALL	CARPET	-	F	C-1	RESIL.	4"	F	RB-1	V.W.C.	-	F	VWC-1/2	AC. TILE	(1)	F	ACP-1	9'-0"	-

COLOR SCHEDULE

SPEC. SECTION	MATERIAL	DESIGNATION	MANUFACTURER	COLOR NO.	COLOR NAME	REMARKS
06 41 00 ARCHITECTURAL WOODWORK	DECORATIVE LAMINATE	LP-1	FORMICA	515-58	GRAPHITE GRAFIX	-
	DECORATIVE LAMINATE	LP-2	FORMICA	9260-58	BLONDE MAPLE	-
	FRP WALL PANELS	FRP-1	CRANE COMPOSITES VARIATEX	FIRE-X GLASBORD	SMOOTH WHITE	-
08 11 13 HOLLOW MTL. DOOR & FRAMES	METAL DOOR		-	-	-	TO MATCH DISTRICT STANDARD
	METAL FRAME		-	-	-	TO MATCH DISTRICT STANDARD
09 51 00 ACOUSTICAL CEILING PANELS	ACOUSTIC CEILING PANELS AND RUNNERS	ACP-1	ARMSTRONG SCHOOL ZONE FINE FISSURED	1714	WHITE	TO MATCH DISTRICT STANDARD
09 65 00 RESILIENT FLOORING	SV FIELD	SV-1	ARMSTRONG POSSIBILITIES	88067	PAINTED DESERT	SHEET VINYL LABORATORY
	VCT FIELD	VCT-1	ARMSTRONG BIO-BASED TILE, MIGRATIONS	T3502	PUMICE GREY	-
	VCT ACCENT	VCT-2	ARMSTRONG BIO-BASED TILE, MIGRATIONS	T3507	METAL GREY	-
	RUBBER BASE	RB-1	JOHNSONITE	28	MEDIUM GREY	-
09 68 00 CARPET AND TOPSET BASE	CARPET AND TOPSET BASE	C-1	TANDUS INDUSTRIES COLLINS AND AIKMAN	-	-	TO MATCH DISTRICT STANDARD
SPEC. SECTION	MATERIAL	DESIGNATION	MANUFACTURER	COLOR NO.	COLOR NAME	REMARKS
09 72 00 VINYL WALL COVERING	WALL COVERING TACK BOARD	VWC-1/2	KOROSEAL	-	-	ARCHITECT TO SELECT COLOR
09 90 00 PAINTING	PAINT	P-1	DUNN EDWARDS	-	-	ARCHITECT TO SELECT COLOR INTERIOR WALL
	PAINT	P-2	DUNN EDWARDS	-	-	ARCHITECT TO SELECT COLOR INTERIOR WALL
10 11 01 MARKER BOARD	MARKER BOARD	MB-1	CLARIDGE PRODUCTS	-	WHITE	-
10 14 00 SIGNS	PLASTIC SIGNS	PS-1	-	-	-	TO MATCH DISTRICT STANDARD
12 21 16 VERTICAL LOUVER BLINDS	VERTICAL LOUVER BLINDS		-	-	-	TO MATCH DISTRICT STANDARD

ABREVIATIONS

VCT.	VINYL COMPOSITION TILE
S.V.B.	SHEET VINYL BASE
R.S. F.	RESILIENT SHEET FLOORING
PG	PAINT GLOSS
PSG	PAINT SEMI GLOSS
PF	PAINT FLAT
F.	FACTORY FINISH
EXP.	EXPOSED
CONC.	CONCRETE
GYP. BD.	GYPSUM BOARD
FRP	FIBER REINFORCED PLASTIC PANEL
AC. TILE	ACOUSTICAL CEILING TILE
MTL	METAL
PNL	PANEL
SLR.	SEALER
PE	PAINT-EPOXY
G.L.	GLASS AND GLAZING
V.W.C	VINYL FABRIC ON WOOD FIBERBOARD
U.O.S.	UNDERSIDE OF STRUCTURE

TYPICAL FINISH NOTES

1. SUBMIT MANUFACTURES STANDARD COLORS FOR COLOR SELECTION
2. ALL INTERIOR FINISHES SHALL COMPLY WITH THE FLAME SPREAD AND SANITATION REQUIREMENTS OF CHAPTER 8, C.B.C.

PORTER CORP. A PLAYCORE Company

January 3, 2019

DSA Regional Office

Re: Cloud Preschool Poligon Structure
Glendale Unified School District
Applicability of Approved PC Design
A# 03-119149

To whom it may concern,

Even though there is no geotechnical report for the Cloud Preschool project, this letter proves that the spread pad foundation shown in the approved PC drawings (#02-113591) is sufficient. The following table compares the forces calculated in the approved PC structure and the allowable forces calculated using Class 5 soils:

	Approved PC			*Cloud Preschool*
	Orthogonal Corner Columns	*Non-Orthogonal Corner Columns*	*Non-Orthogonal Middle Column*	*All Columns*
Max. Bearing Pressure (psf)	647 (actual)	647 (actual)	606 (actual)	1500 (allowable)
Max. Allowable Residing Lateral Force (k)	5.522	5.532	5.694	7.31[1]

[1] *Per Table 1806.2 footnote (b.) of the 2016 California Building Code, the cohesion of 0.130 ksf is to be multiplied by the contact area. Based on load scenario 4 of the PC Design the contact area is a 7.5ft square spread pad (7.5ft x 7.5ft x 0.13ksf = 7.31k)*

The attached foundation calculations for the original PC illustrate the forces in the above table. The bearing pressure never exceeded the capacity of the conservative Class 5 soils. Additionally, the cohesive Class 5 soils resist more lateral force than the product of the coefficient of friction and axial force based on the assumed Class 4 soils in the PC design. Therefore, the foundation size indicated on the approved PC drawings can adequately resist the design forces present in the Cloud Preschool structure, even when considering Class 5 soils.

Furthermore, the s_1 value at Cloud Preschool is less than the maximum permitted in load scenario 4 on the approved PC drawings (2.717g instead of 3.000g). Moreover, the site-specific bay spacing is smaller than the maximum permitted in the approved calculations (18ft instead of 20ft). Also, the dead load for the Cloud Preschool structure is less than the maximum permitted on the approved PC drawings (1.8 psf instead of 2.0 psf). Even though I did not consider these additional reductions, it underscores the fact that the foundation size indicated on the approved PC drawings is adequate.

Sincerely,

Chris Evans, P.E.
Engineering Manager

REGISTERED PROFESSIONAL ENGINEER CHRIS A. EVANS NO. 4378 STATE OF CALIFORNIA

poligon · porterSIPS · ceas+

www.portercorp.com P: 616-888-3500 4240 N 136th Ave, Holland MI 49424

tBP architecture planning interiors
tBP/Architecture
4611 Teller Avenue
Newport Beach, CA 92660
ph: 949.673.0300 fx: 949.732.3895
architect

consultant

FILE NO.: 19-41
IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
DEPARTMENT OF GENERAL SERVICES
A# 03-119149
AP FLS BC SS
DATE JAN 7 2019

DEPARTMENT OF GENERAL SERVICES
DSA Los Angeles Regional Office
700 N. Alameda Street, Suite 5-500
Los Angeles, California 90012
ph: (213)897-3995 fx: (213)897-3159/0726

CLOUD PRESCHOOL RELOCATABLES
4444 CLOUD AVENUE
LA CRESCENTA, CALIFORNIA 91214
GLENDALE UNIFIED SCHOOL DISTRICT

owner

tBP project number : 20778.10
file name:
drawn by: checked by:
date: August 14, 2018
Rev: date: description:

drawing title:
FINISH SCHEDULE

drawing no.:
A8-1
drawing of

GENERAL NOTES:

1. DETAILS OF CONSTRUCTION NOT SHOWN SHALL BE OF SAME NATURE AS THOSE SHOWN FOR SIMILAR CONDITIONS. REFER TO THE TYPICAL DETAIL SHEETS FOR TYPICAL DETAILS OF CONSTRUCTION. TYPICAL DETAILS APPLY TO ALL CONSTRUCTION UNLESS SPECIFICALLY NOTED OR SHOWN OTHERWISE. WHERE CONDITIONS REQUIRE MODIFICATIONS OF A TYPICAL DETAIL, THE CONTRACTOR SHALL SUBMIT MODIFIED DETAIL FOR APPROVAL BY THE ENGINEER OF RECORD PRIOR TO FABRICATION AND INSTALLATION. DETAILS OF CONSTRUCTION NOT SHOWN SHALL BE OF SAME NATURE AS THOSE SHOWN FOR SIMILAR CONSTRUCTION.
2. CONTRACTOR SHALL CONSIDER THE PROJECT SPECIFICATIONS A PART OF THE CONTRACT DOCUMENTS. WHERE INFORMATION IS CONFLICTING, SPECIFIC DETAILS SHALL GOVERN OVER TYPICAL DETAILS WHICH SHALL GOVERN OVER THESE NOTES WHICH SHALL GOVERN OVER SPECIFICATIONS.
3. ALL DIMENSIONS ON STRUCTURAL DRAWINGS SHALL BE CHECKED AGAINST ARCHITECTURAL DIMENSIONS. DO NOT SCALE DRAWINGS. IF DIMENSIONS ARE OMITTED OR NOT CLEAR, CONTACT THE ARCHITECT (ARCH) OR STRUCTURAL ENGINEER OF RECORD (SEOR). ALL DIMENSIONS RELATED TO EXISTING CONDITIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR. DIMENSIONS ARE TO THE FACE OF STUDS, AND TO CENTERLINE OF COLUMNS UNO.
4. IT IS THE CONTRACTOR'S RESPONSIBILITY TO IMMEDIATELY NOTIFY THE SEOR OF ANY CONFLICTS BETWEEN THE STRUCTURAL DRAWINGS AND OTHER DRAWINGS; OR EXISTING CONDITIONS NOT SHOWN OR DIFFERENT FROM THOSE SHOWN ON DRAWINGS PRIOR TO COMMENCEMENT OF WORK. THE CONTRACTOR IS NOT TO ORDER MATERIAL OR CONSTRUCT ANY PORTION OF THE BUILDING THAT IS IN CONFLICT UNTIL THE CONFLICT IS RESOLVED WITH THE AFFECTED PARTIES.
5. THE STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. UNLESS OTHERWISE SHOWN THEY DO NOT INDICATE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE CONSTRUCTION AND ALL ADJACENT PROPERTIES DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE BUT ARE NOT LIMITED TO BRACING, SHORING OF LOADS DUE TO CONSTRUCTION EQUIPMENT, ETC. OBSERVATION VISITS TO THE SITE BY THE ARCHITECT OR SEOR SHALL NOT INCLUDE OBSERVATION OF THE ABOVE ITEMS.
6. SUBSTITUTION REQUESTS FOR MATERIALS SPECIFIED ON THE STRUCTURAL DRAWINGS MAY BE CONSIDERED WITH MATERIALS HAVING EQUIVALENT OR GREATER CAPACITY AND PERFORMANCE. CURRENT EVALUATION REPORTS AND PRODUCT INFORMATION SHALL BE PROVIDED TO THE STRUCTURAL ENGINEER DEMONSTRATING THE REQUIRED CAPACITY AND PERFORMANCE OF THE MATERIAL TO BE SUBSTITUTED. WRITTEN APPROVAL FROM THE SEOR SHALL BE OBTAINED PRIOR TO THE SUBSTITUTION OF ANY MATERIAL SPECIFIED ON THE STRUCTURAL DOCUMENTS.
7. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COMPLY WITH THE PERTINENT SECTIONS OF THE "CONSTRUCTION SAFETY ORDERS" ISSUED BY THE STATE OF CALIFORNIA, LATEST EDITION, AND ALL OSHA REQUIREMENTS AS THEY APPLY TO THIS PROJECT. THE ARCHITECT, SEOR, AND THE OWNER DO NOT ACCEPT ANY RESPONSIBILITY FOR THE CONTRACTOR'S FAILURE TO COMPLY WITH THESE REQUIREMENTS.
8. ALL WORK IS NEW (N) UNLESS INDICATED AS EXISTING (E).
9. CONSTRUCTION MATERIALS SHALL BE DISTRIBUTED WHEN PLACED ON THE STRUCTURE SUCH THAT LOADS DO NOT EXCEED DESIGN LIVE LOADS OR RESULT IN AN UNBALANCED CONDITION.
10. REFER TO THE PROJECT SPECIFICATIONS FOR SHOP DRAWING REQUIREMENTS AND SUBMITTALS.

STRUCTURAL DESIGN CRITERIA:

1. CODES:
   ALL WORK SHALL BE IN CONFORMANCE WITH THE CALIFORNIA BUILDING CODE (CBC) 2016 EDITION, INCLUDING ALL AMENDMENTS. ALL STANDARDS USED SHALL BE THE LATEST VERSION APPROVED BY THE CODE ENFORCEMENT AGENCY ON THE DATE OF THE PERMIT ISSUANCE UNLESS SPECIFICALLY NOTED OTHERWISE.
2. SEISMIC DESIGN INFORMATION:
   ANALYSIS METHOD : ELFP

I = 1.0	OCCUPANCY CAT. II		SITE CLASS D
S_S = 2.718	S_1 = 0.971	S_{DS} = 1.812	S_{D1} = 0.971
SEISMIC DESIGN CATEGORY = D		RHO = 1.3	
LFRS: STEEL ORDINARY MOMENT FRAME			
	R = 3.5	C_d = 3	Ω = 3	C_S = 0.51

3. GRAVITY DESIGN LOADS:

LIVE LOADS (REDUCIBLE, UNO):	
a. ROOF, UNIFORM	20 PSF
b. FLOOR	50 PSF
DEAD LOADS (ACTUAL DEAD LOADS SHALL BE INDEPENDENTLY DETERMINED):	
a. ROOF	
ROOF	9 PSF

4. WIND DESIGN INFORMATION:

RISK CAT. II		EXPOSURE C	
BASIC WIND SPEED V_{ult} = 110 MPH (3 SEC GUST)			
Kz = 0.95	Kd = 0.85	Kzt = 1	
G = 0.85	C_p = +/- 0.18		
DESIGN WIND PRESSURE FOR MWFRS (LRFD)			34.5 PSF

CONTRACTOR RESPONSIBILITY NOTE:

GENERAL:

1. EACH CONTRACTOR RESPONSIBLE FOR THE CONSTRUCTION OF A MAIN LATERAL-FORCE-RESISTING SYSTEM, DESIGNATED ON PLANS SHALL SUBMIT A WRITTEN STATEMENT OF RESPONSIBILITY TO DSA AND THE OWNER PRIOR TO THE COMMENCEMENT OF WORK ON THE SYSTEM OR COMPONENT. THE CONTRACTOR'S STATEMENT OF RESPONSIBILITY SHALL CONTAIN THE FOLLOWING:
   A. ACKNOWLEDGMENT OF AWARENESS OF THE SPECIAL REQUIREMENTS.
   B. ACKNOWLEDGMENT THAT CONTROL WILL BE EXERCISED TO OBTAIN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS APPROVED BY THE BUILDING OFFICIAL.
   C. PROCEDURES FOR EXERCISING CONTROL WITHIN THE CONTRACTOR'S ORGANIZATION, THE METHOD AND FREQUENCY OF REPORTING AND THE DISTRIBUTION OF THE REPORTS.
   D. IDENTIFICATION AND QUALIFICATIONS OF THE PERSON(S) EXERCISING SUCH CONTROL AND THEIR POSITION(S) IN THE ORGANIZATION.

EXISTING CONDITIONS NOTES:

1. FIELD VERIFY ALL CONDITIONS & DIMENSIONS PRIOR TO SHOP DRAWING PRODUCTION AND FABRICATION OF STRUCTURAL ELEMENTS.
2. WHERE ALL OTHER EXISTING CONDITIONS VARY SIGNIFICANTLY FROM THOSE SHOWN ON THESE DRAWINGS, THE STRUCTURAL ENGINEER SHALL BE NOTIFIED PRIOR TO CONTINUED CONSTRUCTION RELATED TO SUBJECT CONDITIONS.
3. SHORE ALL EXISTING CONSTRUCTION AS REQUIRED.
4. ALL EXISTING (E) CONNECTIONS AT ELEMENTS TO BE REPLACED SHALL BE REPLACED OR RE-ATTACHED TO MATCH EXISTING CONDITIONS.
5. VERIFY LOCATION OF EXISTING (E) REBAR BEFORE FABRICATION USING NON-DESTRUCTIVE TESTING.
6. SPECIAL INSPECTION IS REQUIRED FOR ALL WORK.
7. SEE "AS BUILT" DRAWINGS FOR EXISTING BUILDING DESIGN FOR ITEMS NOT SHOWN OR NOTED.

FOUNDATION AND SLAB ON GRADE NOTES:

1. NO SOILS REPORT AVAILABLE; THEREFORE, MINIMUM VALUES USED PER 2016 CBC.
2. ALLOWABLE VERTICAL BEARING PRESSURE = 1500 PSF
   ALLOWABLE LATERAL BEARING PRESSURE = 100 PSF PER FT OF DEPTH
3. THE CONTRACTOR SHALL CONFORM TO ALL RECOMMENDATIONS AND CONDITIONS INDICATED IN THE 2016 CBC.
4. NOT USED.
5. SPREAD FOOTINGS ARE CENTERED UNDER WALLS AND COLUMNS, UNO.
6. FOOTING ELEVATIONS ARE NOTED ON THE PLANS AND DETAILS AND SHALL BE USED FOR BIDDING. IN ANY CASE, FOOTINGS SHALL BEAR ON FIRM UNDISTURBED SOIL OR ENGINEERED FILL, IN ACCORDANCE WITH THE 2013 CBC AND DETAILS SHOWN.
7. CONTRACTOR SHALL PROTECT ALL UTILITY LINES, ETC. ENCOUNTERED DURING EXCAVATION AND BACKFILLING.
8. NOT USED.
9. ALL TRENCHES SHALL COMPLY WITH APPLICABLE OSHA REQUIREMENTS.
10. ALL EXCAVATIONS SHALL BE PROPERLY BACKFILLED BUT NOT BEHIND RETAINING WALLS BEFORE CONCRETE OR MASONRY ATTAINS ITS FULL DESIGN STRENGTH.
11. THE DESIGN OF ALL RETAINING WALLS AND SUBTERRANEAN BUILDING WALLS INDICATED ON THESE DRAWINGS IS BASED ON DRAINED SOILS.
12. CONSTRUCTION JOINTS (CJ) AND SAWCUT (SC) JOINTS IN SLABS SHALL OCCUR WHERE LOCATED ON PLANS AND DETAILS. CJ'S SHALL HAVE FORMED POUR STOPS. CONSTRUCTION JOINTS IN WALLS AND FOOTINGS NEED NOT OCCUR AT THE SAME LOCATION, UNO.
13. SEE ARCHITECT'S PLANS FOR LOCATIONS OF SLAB SLOPES, DEPRESSIONS, CURBS, DRAINS, NON-STRUCTURAL PARTITIONS AND OTHER EMBEDDED ITEMS NOT SHOWN ON THE STRUCTURAL PLANS.

STRUCTURAL CONCRETE NOTES:

1. CONCRETE SHALL BE MIXED, PLACED AND CURED IN ACCORDANCE WITH ACI 318, LATEST EDITION, AND PROJECT SPECIFICATIONS.
2. CONCRETE SHALL NOT BE DROPPED THROUGH REINFORCING STEEL (AS IN WALLS) SO AS TO CAUSE SEGREGATION OF AGGREGATES. IN SUCH CASES, HOPPERS AND VERTICAL CHUTES OR TREMIE SHALL BE USED. CHUTES OR TRUNKS SHALL BE OF VARIABLE LENGTHS SO THAT FREE UNCONFINED FALL OF CONCRETE SHALL NOT EXCEED SIX FEET. A SUFFICIENT NUMBER OF CHUTES OR TRUNKS SHALL BE USED TO ENSURE THE CONCRETE IS KEPT LEVEL AT ALL TIMES.
3. CONSTRUCTION JOINTS SHALL BE CLEANED AND ROUGHENED BY REMOVING THE ENTIRE SURFACE TO EXPOSE CLEAN AGGREGATE SOLIDLY EMBEDDED IN THE MORTAR MATRIX, DAMPEN THE JOINT PRIOR TO POUR CONC. SLUSH WITH A COAT OF NEAT CEMENT BEFORE PLACING CONCRETE. SEE PLANS AND DETAILS FOR LOCATION AND TYPE OF CONSTRUCTION JOINT. LOCATIONS OF ADDITIONAL CONSTRUCTION JOINTS NOT SHOWN ON THESE PLANS SHALL BE SUBMITTED FOR APPROVAL BY THE EOR PRIOR TO PLACING ANY CONCRETE.
4. STRUCTURAL CONCRETE SHALL MEET THE FOLLOWING DESIGN CRITERIA:

LOCATION	MIN-28 DAY COMP STRENGTH	CONC TYPE [4]	MAX AGGREGATE SIZE	MAX W/C RATIO	MAX SLUMP [3]
FOUNDATIONS	4000 psi	NWC	1 1/2"	0.45	4"
SLAB ON GRADE	3000 psi	NWC	1"	0.45	4"
STRUCT. WALL, COL. & BEAM	4000 psi	NWC	1"	0.45	4"
ALL OTHER STRUCTURAL CONCRETE NOT NOTED ABOVE	3000 psi	NWC	1"	0.45	5"

   a. MAXIMUM DRY WEIGHT OF LIGHTWEIGHT CONCRETE SHALL BE 115 PCF, UNLESS APPROVED BY SEOR.
   b. SLUMP MEASURED PRIOR TO SUPERPLASTICIZER, WHERE OCCURS.
5. CONCRETE MIX DESIGN AND TESTING SHALL MEET THE REQUIREMENTS OF THE BUILDING CODE, AND SPECIFICATIONS. ALL CONCRETE MIXES SHALL BE DESIGNED BY A RECOGNIZED TESTING LAB STAMPED AND SEALED BY A LICENSED CALIFORNIA CIVIL ENGINEER AND SUBMITTED TO THE SEOR FOR REVIEW PRIOR TO CONCRETE PLACEMENT. STRUCTURAL CONCRETE MIXES SHALL CONSIST OF 5 SACK MINIMUM, UNO.
6. AGGREGATES IN NORMAL WEIGHT CONCRETE SHALL CONFORM TO ASTM C-33 (HARDROCK). AGGREGATES IN LIGHT WEIGHT CONCRETE SHALL CONFORM TO ASTM C-330.
7. COMPRESSIVE STRENGTH TEST REPORTS SHALL BE SUBMITTED TO DSA AND THE SEOR.
8. PORTLAND CEMENT SHALL BE TYPE II/V, ALL CONCRETE CONFORMING TO ASTM C150, LOW ALKALI. MILL TESTS WITH CERTIFICATES OF COMPLIANCE SHALL BE SUBMITTED.
9. FLY ASH OR OTHER POZZOLANS CONFORMING TO ASTM C618 CLASS N OR F MAY BE USED AS A PARTIAL SUBSTITUTION FOR PORTLAND CEMENT UP TO A MAXIMUM OF 15% TOTAL CEMENTITIOUS MATERIALS BY WEIGHT IF THE MIX DESIGN IS PROPORTIONED PER ACI 318, SECTION 5.3.
10. CONCRETE MIXING OPERATIONS, ETC. SHALL CONFORM TO ASTM C94.
11. LEAN CONCRETE, WHERE SPECIFICALLY INDICATED, SHALL CONTAIN 2 SACKS OF CEMENT PER CUBIC YARD OF CONCRETE.
12. DRYPACK OR NONSHRINK GROUT SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 5000 PSI, AND CONSIST OF MASTERFLOW 713, FIVE STAR GROUT, SIKA GROUT 212, EMBECO 636, OR APPROVED EQUAL. FOR THICK GROUT LAYERS FOLLOW MANUFACTURER'S GUIDELINES TO ATTAIN THE REQUIRED STRENGTH, WHICH MAY INCLUDE THE ADDITION OF PEA GRAVEL.
13. DO NOT USE ANY CONCRETE OR GROUT CONTAINING CHLORIDES. WATER USED IN MIX SHALL BE CLEAN AND POTABLE.
14. FOR INTERIOR SLABS-ON-GRADE AND ALL OTHER SLABS RECEIVING ADHERED FLOORING FINISHES (I.E., GLUED, ETC.), THE MAXIMUM W/C RATIO SHALL NOT EXCEED 0.46. CURING COMPOUNDS USED ON CONCRETE THAT IS TO RECIEVE FINISHES SHALL BE COMPATIBLE WITH TILE AND ADHESIVES OR GROUTS IN ACCORDANCE WITH MANUFACTURER'S DATA AND BE APPROVED BEFORE USE.
15. MAINTAIN CONCRETE ABOVE 50 DEGREES FAHRENHEIT AND IN A MOIST CONDITION FOR A MINIMUM OF 7 DAYS AFTER PLACEMENT UNLESS OTHERWISE ACCEPTED BY SEOR.
16. SEE ARCHITECTURAL DRAWINGS FOR WALL OPENINGS, WALL OFFSETS, CHAMFERS, KERFS, DRIPS AND FOR EXTENT OF DEPRESSIONS, RAMPS, ETC. PROVIDE SLEEVES FOR ALL PIPES THROUGH CONCRETE WALLS AND FOOTINGS WHERE SHOWN ON THESE DRAWINGS. CORING IS NOT PERMITTED WITHOUT PRIOR APPROVAL BY THE SEOR.
17. EXPOSED CORNERS OF SLABS, BEAMS, WALLS, COLUMNS, ETC. SHALL BE FORMED WITH 3/4" CHAMFER, UNO.
18. CONCRETE SLAB ON GRADE IN BLDG. A IS USED AS DIAPHRAGM FOR LOAD DISTRIBUTION TO LFRS.

REINFORCING STEEL NOTES:

1. REINFORCING GRADES FOR CONCRETE OR MASONRY:
   A. ALL BARS EXCEPT THOSE TO BE WELDED..... ASTM A615, GRADE 60
   B. TIES AND STIRRUPS ..... ASTM A615, GRADE 60
   C. WELDED WIRE FABRIC ..... ASTM A185
   D. ALL BARS TO BE WELDED ..... ASTM A706, GRADE 60
2. MAINTAIN MINIMUM CONCRETE COVER FROM FACE OF CONCRETE TO EDGE OF ALL REINFORCEMENT AS FOLLOWS (UNO):

CONDITION	COVER
CONCRETE POURED AGAINST EARTH	3"
CONCRETE POURED IN FORMS AND EXPOSED TO WEATHER OR EARTH	
- #6 BARS AND LARGER	2"
- #5 BARS AND SMALLER	1 1/2"
INTERIOR COLUMNS AND BEAMS	1 1/2"
INTERIOR WALL FACES AND RAISED SLABS	1 1/2"
STRUCTURAL SLABS ON GRADE	
- FROM BOTTOM OF SLAB	2"
- FROM TOP OF SLAB	1 1/2"
OTHER CONCRETE NOT EXPOSED TO WEATHER OR EARTH FOR #11 BARS AND SMALLER.	3/4"

   PROVIDE THE LARGEST COVER REQUIRED FOR ALL APPLICABLE CONDITIONS. WHERE #3 STIRRUPS OR TIES ARE USED, ENSURE THAT THE COVER FOR LONGITUDINAL BARS IS ADEQUATE.
3. REINFORCEMENT SHALL BE PLACED IN ACCORDANCE WITH THE CONCRETE REINFORCING STEEL INSTITUTE (CRSI) "MANUAL OF STANDARD PRACTICE". EACH REINFORCING BAR SHALL BE WIRED TO A CROSS BAR AT A MAXIMUM SPACING OF 24" OC. PROVIDE ALL ACCESSORIES NECESSARY TO SUPPORT REINFORCING IN POSITIONS SHOWN ON THE PLANS.
4. SPLICES IN CONTINUOUS REINFORCEMENT AS USED IN WALLS, WALL FOOTINGS, ETC., SHALL HAVE A CLASS "B" LAP (1'-6" MIN) AND THE SPLICES IN ADJACENT BARS SHALL BE NOT LESS THAN 5'-0" APART. VERTICAL WALL BARS SHALL BE SPLICED AT OR NEAR FLOOR LINES. BARS MAY BE WIRED TOGETHER AT SPLICES OR LAPS EXCEPT FOR TOP REINFORCING OF BEAMS AND SLABS OR WHERE SPECIFICALLY DETAILED TO BE SEPARATED. WELDED WIRE FABRIC SHALL BE LAPPED 12" MINIMUM.
5. ALL DOWELS, ANCHOR BOLTS AND OTHER HARDWARE TO BE SET IN CONCRETE SHALL BE TIED IN PLACE PRIOR TO PLACEMENT OF CONCRETE. NO WET SETTING, STABBING, RODDING OR OTHER MOVEMENT OF EMBEDDED ITEMS SHALL BE PERFORMED DURING PLACEMENT OF CONCRETE.
6. BEND REINFORCING BARS COLD.
7. STEEL SHALL BE KEPT CLEAN AND FREE OF RUST.
8. DOWELS BETWEEN FOOTING AND WALLS OR COLUMNS SHALL BE THE SAME GRADE, SIZE AND SPACING AS THE MAIN REINFORCING UNO.
9. ALL BARS SHALL BE MARKED SO THEIR IDENTIFICATION CAN BE MADE WHEN THE FINAL IN PLACE INSPECTION IS MADE.
10. CHAIRS OR SPACERS FOR REINFORCING SHALL BE NON-FERROUS OR PLASTIC COATED WHEN RESTING ON EXPOSED SURFACES.

STRUCTURAL STEEL NOTES:

1. DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO THE SPECIFICATIONS AND STANDARD OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC), AS CONTAINED IN THE LATEST EDITION OF "AISC MANUAL OF STEEL CONSTRUCTION".
2. ALL STRUCTURAL STEEL SHALL BE ERECTED PLUMB AND TRUE TO LINE. TEMPORARY BRACING SHALL BE INSTALLED AND SHALL BE LEFT IN PLACE UNTIL OTHER MEANS IS PROVIDED TO ADEQUATELY BRACE THE STRUCTURE.
3. PROVIDE THE FOLLOWING MATERIALS FOR STRUCTURAL STEEL UNO:

STRUCTURAL STEEL GRADES:		
A.	ALL WIDE FLANGE SECTIONS	ASTM A992
B.	SQUARE OR RECTANGULAR HOLLOW STRUCTURAL SECTIONS (HSS)	ASTM A500, GRADE B (F_y=46 KSI)
C.	ROUND HOLLOW STRUCTURAL SECTIONS (HSS)	ASTM A500, GRADE B (F_y=42 KSI)
D.	PIPES	ASTM A53 TYPE E OR S, GRADE B, (F_y=35 KSI)
E.	PLATES, ANGLES, CHANNELS & TEES	ASTM A36
F.	MACHINE BOLTS (MB)	ASTM A307
G.	HIGH STRENGTH BOLTS (HSB)	ASTM A325 TYPE N
H.	WELDED HEADED STUDS	ASTM A108
I.	THREADED RODS FOR ANCHOR BOLTS	ASTM F1554, GRADE 36

4. N/A
5. ALL CONNECTIONS NOT SHOWN SHALL CONFORM TO THE "AISC MANUAL OF STEEL CONSTRUCTION" AND SHALL BE SUBMITTED ON SHOP DRAWINGS FOR REVIEW BY SEOR PRIOR TO FABRICATION.
6. ALL WELDED HEADED STUDS, THREADED STUDS, AND DEFORMED BARS SHALL BE NELSON, OR EQUIVALENT, AND WELDED (IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS BY CERTIFIED WELDERS) SO AS TO FULLY DEVELOP THE TENSILE CAPACITY OF THE CONNECTOR.
7. HIGH STRENGTH BOLTS SHALL BE INSTALLED IN ACCORDANCE WITH THE CURRENT EDITION OF THE "AISC SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS". SLIP CRITICAL BOLTS(SC) SHALL BE USED FOR ALL "LATERAL FORCE RESISTING SYSTEM"(LFRS) MEMBER STEEL-TO-STEEL CONNECTION. HIGH STRENGTH BOLTS NOT IN THE LFRS MAY BE INSTALLED HAND TIGHT. SEE HIGH STRENGTH BOLT NOTES FOR ADDT'L INFO.
8. BOLTS WITH UPSET THREADS ARE NOT ALLOWED. USE THE APPROPRIATE NUT AND WASHER TYPE FOR THE SPECIFIED BOLT.
9. ALL STEEL FABRICATION SHALL BE PERFORMED BY A LICENSED FABRICATOR.
10. ALL STRUCTURAL STEEL AND MISCELLANEOUS STEEL PERMANENTLY EXPOSED TO THE ELEMENTS SHALL BE HOT DIP GALVANIZED AFTER FABRICATION UNLESS A WEATHER PROOF COATING IS SPECIFIED BY THE ARCHITECT UNO. STAINLESS AND WEATHERING STEELS ARE EXCEPTED WHERE SPECIFIED.
11. SEE ARCHITECTURAL DRAWINGS FOR NAILER HOLES, WELDED STUDS OR OTHER ITEMS NOT SHOWN IN THESE DRAWINGS. WHERE STEEL IS EMBEDDED IN CONCRETE OR MASONRY, PROVIDE HOLES AS REQUIRED FOR PASSAGE OF CONTINUOUS REINFORCING BARS WHERE INDICATED ON DRAWINGS. DO NOT CUT HOLES IN STRUCTURAL STEEL WITHOUT PRIOR APPROVAL OF SEOR.
12. ALL ARCHITECTURALLY EXPOSED STRUCTURAL STEEL (AESS) SHALL COMPLY WITH AISC CODE OF STANDARD PRACTICE, SECTION 10.
13. PLACE NON-SHRINK OR DRYPACK GROUT UNDER ALL BASE PLATES AND ALLOW TO CURE BEFORE APPLYING LOADS. SEE NOTE 12 OF STRUCTURAL CONCRETE FOR GROUT INFORMATION.
14. ALL STEEL TUBES SHALL BE CAPPED AT ENDS.

WELDING NOTES:

1. WELDING PROCEDURES, ELECTRODES AND WELDER QUALIFICATIONS SHALL CONFORM TO THE STRUCTURAL WELDING CODE-STEEL, AMERICAN WELDING SOCIETY (AWS), D1.1 AND THE AISC "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS".
2. ALL WELDERS SHALL HAVE EVIDENCE OF PASSING THE AWS STANDARD QUALIFICATION TESTS, AND SHALL BE CERTIFIED FOR THE WORK THEY ARE PERFORMING.
3. PROJECT WELDING SHALL BE PERFORMED ONLY IN ACCORDANCE WITH WELDING PROCEDURE SPECIFICATIONS (WPS) SUBMITTED BY THE CONTRACTOR AND REVIEWED BY THE SEOR AND PROJECT WELDING INSPECTOR. THE WPS SHALL BE IN ACCORDANCE WITH AWS D1.1-D1.4 CURRENT EDITION.
4. WELDING OF STRUCTURAL STEEL SHALL BE PERFORMED PER AWS D1.1 USING E70XX ELECTRODES UNLESS OTHERWISED NOTED.
5. WELDING OF REINFORCING BARS SHALL BE PERFORMED PER AWS D1.4 USING E70XX ELECTRODES.
6. WELDING OF METAL DECK AND LIGHT GAGE STEEL SHALL BE IN ACCORDANCE WITH AWS D1.3.
7. ALL FULL PENETRATION WELDS SHALL BE ULTRA-SONIC TESTED PER AWS D1.1.
8. ALL GROOVE OR BUTT WELDS SHALL BE COMPLETE PENETRATION WELDS. ALL EXPOSED BUTT WELDS SHALL BE GROUND SMOOTH.
9. ALL EXPOSED WELDS ON ARCHITECTURALLY EXPOSED STRUCTURAL STEEL (AESS) SHALL COMPLY WITH AISC CODE OF STANDARD PRACTICE, SECTION 10.
10. FIELD WELDS HAVE BEEN INDICATED WHERE THEY ARE EXPECTED TO OCCUR. THE CONTRACTOR SHALL DETERMINE THE ACTUAL FIELD WELDING NECESSARY TO COMPLETE THE PROJECT AND INCLUDE ALL ASSOCIATED COSTS WITHIN THE BASE BID.
11. WHERE WELDS ARE DESIGNATED AS DEMAND CRITICAL, THEY SHALL BE MADE WITH A FILLER METAL CAPABLE OF PROVIDING A MINIMUM CHARPY V-NOTCH (CVN) TOUGHNESS OF 20 FT-LB AT 0°F AND 40 FT-LB AT 70°F. SEE AISC 341-10 SECTION A3.4b FOR ADDITIONAL REQUIREMENTS.
12. ALL WELDS WITHIN MEMBERS DESIGNATED AS PART OF THE LATERAL FORCE RESISTING SYSTEM (LFRS) SHALL CONFORM TO THE DETAILING, MATERIALS, WORKMANSHIP, TESTING, AND INSPECTION REQUIREMENTS PER AWS D1.8.

COLD-FORMED STEEL FRAMING NOTES:

1. DESIGN, FABRICATION AND ERECTION OF COLD-FORMED STEEL FRAMING SHALL CONFORM TO THE SPECIFICATIONS AND STANDARD OF THE AMERICAN IRON AND STEEL INSTITUTE (AISI), AS CONTAINED IN THE "SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS", LATEST EDITION, INCLUDING ALL APPLICABLE AMENDMENTS.
2. ALL COLD-FORMED STEEL FRAMING SHALL BE ERECTED PLUMB AND TRUE TO LINE. TEMPORARY BRACING SHALL BE INSTALLED AND LEFT IN PLACE UNTIL OTHER MEANS IS PROVIDED TO ADEQUATELY BRACE THE STRUCTURE.
3. COLD-FORMED STEEL GRADES:
   A. 18 GA (43 MILS) OR THINNER .....ASTM A1003 GRADE 33 (FY = 33 KSI)
   B. 16 GA (54 MILS) AND THICKER .....ASTM A1003 GRADE 50 (FY = 50 KSI)
4. ALL COLD-FORMED STEEL FRAMING SHALL BE BRACED AS REQUIRED BY SECTION D3 OF THE AISI SPECIFICATION.
5. SUBMIT COLD-FORMED STEEL FRAMING SHOP DRAWINGS AND SPECIFICATIONS TO THE SEOR FOR REVIEW PRIOR TO FABRICATION.
6. COLD-FORMED STEEL STUDS AND TRACKS ARE TO BE ATTACHED WITH SHEET METAL SCREWS (SMS) WITH SIZES CALLED OUT ON THE DETAILS. PENETRATION OF SCREWS THROUGH JOINED MATERIAL SHOULD NOT BE LESS THAN 3 EXPOSED THREADS. SCREWS ARE TO BE INSTALLED AND TIGHTENED IN ACCORDANCE WITH SCREW MANUFACTURER'S RECOMMENDATIONS.

tBP architecture planning interiors
tBP/Architecture
4511 Teller Avenue
Newport Beach, CA 92660
ph: 949.673.0300 fx: 949.732.3895
architect

VCA ENGINEERS INC
CIVIL • STRUCTURAL
2151 Michelson Dr. #242
Irvine, CA 92612
Tel. 949.679.0870
Fax. 949.679.9370
PROJECT NO. B113-1258
consultant

DEPARTMENT OF GENERAL SERVICES
DSA Los Angeles Regional Office
700 N. Alameda Street, Suite 5-500
Los Angeles, California 90012
ph: (213)897-3995 fx: (213)897-3159/0726

CLOUD PRESCHOOL RELOCATABLES
4444 CLOUD AVENUE
LA CRESCENTA, CALIFORNIA 91214
GLENDALE UNIFIED SCHOOL DISTRICT
owner

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POST INSTALLED ANCHORS (DSA):

1. ANCHOR DIAMETER REFERS TO THE THREAD SIZE FOR THE WEDGE & SHELL CATEGORIES AND TO THE ANCHOR OUTSIDE DIAMETER FOR THE SLEEVE CATEGORY.

2. APPLY PROOF TEST LOADS TO WEDGE & SLEEVE ANCHORS WITHOUT REMOVING THE NUT IF POSSIBLE. IF NOT, REMOVE NUT & INSTALL A THREADED COUPLER TO THE SAME TIGHTNESS OF THE ORIGINAL NUT USING A TORQUE WRENCH & APPLY LOAD.

3. FOR SLEEVE/SHELL INTERNALLY THREADED CATEGORIES, VERIFY THAT THE ANCHOR IS NOT PREVENTED FROM WITHDRAWING BY A BASEPLATE OR OTHER FIXTURES. IF RESTRAINT IS FOUND, LOOSEN AND SHIM OR REMOVE FIXTURE(S) PRIOR TO TESTING.

4. REACTION LOADS FROM TEST FIXTURES MAY BE APPLIED CLOSE TO THE ANCHOR BEING TESTED, PROVIDED THE ANCHOR IS NOT RESTRAINED FROM WITHDRAWING BY THE FIXTURE(S).

5. SHELL TYPE ANCHORS MUST BE TESTED AS FOLLOWS:
   VISUALLY INSPECT 25% FOR FULL EXPANSION AS EVIDENCED BY THE LOCATION OF THE EXPANSION PLUG IN THE ANCHOR BODY. PLUG LOCATION OF A FULLY EXPANDED ANCHOR SHOULD BE AS RECOMMENDED BY THE MANUFACTURER, OR, IN THE ABSENCE OF SUCH RECOMMENDATION, AS DETERMINED ON THE JOB SITE FOLLOWING THE MANUFACTURER'S INSTALLATION INSTRUCTIONS, AND; PROOF LOAD 5% AS INDICATED IN THE TABLE ABOVE, BUT NOT LESS THAN THREE ANCHORS PER DAY FOR EACH DIFFERENT PERSON OR CREW INSTALLING ANCHORS, OR; TEST 50% OF THE INSTALLED ANCHORS PER 1910A.5.3.

6. EXPANSION ANCHOR MUST BE TESTED AS FOLLOWS:
   WHEN POST-INSTALLED ANCHORS ARE USED FOR SILL PLATE BOLTING APPLICATIONS, 10 PERCENT OF THE ANCHORS SHALL BE TESTED.
   WHEN POST-INSTALLED ANCHORS ARE USED FOR OTHER STRUCTURAL APPLICATIONS, ALL SUCH ANCHORS SHALL BE TESTED.
   WHEN POST-INSTALLED ANCHORS ARE USED FOR NONSTRUCTURAL COMPONENTS, SUCH AS EQUIPMENT ANCHORAGE, 50 PERCENT OF ALTERNATE BOLTS IN A GROUP, INCLUDING AT LEAST ONE-HALF THE ANCHORS IN EACH GROUP, SHALL BE TESTED.
   THE TESTING OF THE POST-INSTALLED ANCHORS SHALL BE DONE IN THE PRESENCE OF THE SPECIAL INSPECTOR AND A REPORT OF THE TEST RESULTS SHALL BE SUBMITTED TO THE ENFORCEMENT AGENCY.

7. TEST EQUIPMENT IS TO BE CALIBATED BY AN APPROVED TESTING LABORATORY IN ACCORDANCE WITH STANDARD RECOGNIZED PROCEDURES.

8. TORQUE TEST VALUES FOR SHELL TYPE ANCHORS ARE OMMITTED DUE TO LACK OF DATA. TORQUE TESTING CAN OCCUR ON AN INDIVIDUAL BASIS WHEN TEST PROCEDURES ARE SUBMITTED AND APPROVED BY THE ENFORCEMENT AGENCY. TABULATED VALUES MAY BE FORTHCOMING ONCE THE ENFORCEMENT AGENCY HAS MORE DATA TO EVALUATE THE FEASIBILITY OF STANDARD TORQUE VALUES.

9. THE FOLLOWING CRITERIA APPLY FOR THE ACCEPTANCE OF INSTALLED ANCHORS:
   A. HYDRAULIC RAM METHOD: THE ANCHOR SHOULD HAVE NO OBSERVABLE MOVEMENT AT THE APPLICABLE TEST LOAD. FOR WEDGE AND SLEEVE TYPE ANCHORS, A PRACTICAL METHOD TO DETERMINE OBSERVABLE MOVEMENT IS THAT THE WASHER UNDER THE NUT BECOMES LOOSE.
   B. TORQUE WRENCH METHOD: THE APPLICABLE TEST TORQUE MUST BE REACHED WITHIN THE FOLLOWING LIMITS:
      WEDGE OR SLEEVE TYPE: ONE-HALF (1/2) TURN OF THE NUT.
      3/8 IN. SLEEVE ANCHOR ONLY: ONE-QUARTER (1/4) TURN OF THE NUT.

10. TESTING SHOULD OCCUR 24 HOURS MINIMUM AFTER INSTALLATION OF THE SUBJECT ANCHORS.

11. WHEN INSTALLING DRILLED-IN ANCHORS AND/OR POWDER DRIVEN PINS IN EXISTING NON-PRESTRESSED REINFORCED CONCRETE, USE CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE EXISTING REINFORCING BARS. WHEN INSTALLING THEM INTO EXISTING PRESTRESSED CONCRETE (PRE- OR POST-TENSIONED) LOCATE THE PRESTRESSED TENDONS BY USING A NON-DESTRUCTIVE METHOD PRIOR TO INSTALLATION. EXERCISE EXTREME CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE TENDONS DURING INSTALLATION. MAINTAIN A MINIMUM CLEARANCE OF ONE INCH BETWEEN THE REINFORCEMENT AND THE DRILLED-IN ANCHOR AND/OR PIN.

12. ALL TESTS SHALL BE PERFORMED IN ACCORDANCE W/ CBC 1910A.5. W/ THE PRESENCE OF THE SPECIAL INSPECTOR/INSPECTOR OF RECORD.

12. TEST LOADS:

EPOXY ANCHORS:

EPOXY ANCHORS			
IN NORMAL WEIGHT CONCRETE(3000PSI MIN)			IN CMU
THREADED ROD DIAMETER (IN)	EMBEDMENT (IN)	TENSION TEST VALUE (LBS)	
		SIMPSON SET-XP (ICC-ESR-2508)	SIMPSON SET-XP (IAPMO-265)
⅜	3	3650	2980
½	4	5540	3650
⅝	5	7440	3790
¾	6	9520	3790
⅞	7	9550	*
1	8	13830	
1 ¼	10	21610	
* LISTED EPOXY ADHESIVE MAY NOT BE USED WITH NOTED ROD SIZES			

EPOXY ANCHORS IN NORMAL-WEIGHT CONCRETE (3000 PSI MIN)		
REBAR SIZE	EMBEDMENT (IN)	TENSION TEST VALUE (LBS)
		SIMPSON SET-XP
#3	3	*
#4	4	5790
#5	5	6250
#6	6	8450
#7	7	11070
#8	8	17050
#9	9	*
#10	10	*
* LISTED EPOXY ADHESIVE MAY NOT BE USED WITH NOTED ROD SIZES		

1. TESTING OF EPOXY DOWELS AT JOINTS BETWEEN NEW AND EXISTING SLABS-ON-GRADE IS NOT REQUIRED

2. TESTING OF #3 EPOXY DOWELS AT CURBS AND HOUSEKEEPING PADS IS NOT REQUIRED.

SCREW ANCHOR: SIMPSON TITEN HD (ICC-ESR-2713)

SIMPSON TITEN HD IN NORMAL WEIGHT CONCRETE (3000PSI MIN)		
ANCHOR DIAMETER (IN)	NOMINAL EMBEDMENT (IN)	TENSION TEST VALUE (LBS)
⅜	2 ½	1200
½	3 ¼	2873
¾	5 ½	5895

EXPANSION ANCHOR IN MASONRY: HILTI KWIK-BOLT 3 (ICC-ESR-1385)

HILTI KWIK-BOLT 3 IN MASONRY		
ANCHOR DIAMETER (IN)	H (IN)	TORQUE TEST VALUE (FT-LBS)
⅜	2½	15
½	3 ½	25
⅝	4	65
¾	4⅝	120

1. H IS MEASURED FROM FACE OF CONCRETE SUBSTRATE TO THE END OF THE BOLT.

2. CONTRACTOR SHALL PROVIDE ANCHORS WITH SUFFICIENT TOTAL LENGTH FOR THE SPECIFIED EMBEDMENT LENGTH, THICKNESS OF FASTENED PART, WASHER, AND NUT.

EXPANSION ANCHOR IN CONCRETE: HILTI KWIK-BOLT TZ (ICC-ESR-1917)

HILTI KWIK BOLT TZ IN NORMAL-WEIGHT CONCRETE			
ANCHOR DIAMETER (IN)	Hef (IN)	MINIMUM HOLE DEPTH (IN)	TORQUE TEST VALUE (FT-LBS)
⅜	2	2⅜	25
½	2	2¾	40
⅝	4	4¾	60
¾	4¾	5¾	110

HILTI KWIK BOLT TZ IN LIGHTWEIGHT CONCRETE			
ANCHOR DIAMETER (IN)	Hef (IN)	MINIMUM HOLE DEPTH (IN)	TORQUE TEST VALUE (FT-LBS)
⅜	2	2¾	25
½	2	2¾	40
⅝	3⅛	3⅞	60

1. Hef IS MEASURED FROM FACE OF CONCRETE SUBSTRATE TO THE TEETH END OF THE EXPANSION ELEMENT.

2. CONTRACTOR SHALL PROVIDE ANCHORS WITH SUFFICIENT TOTAL LENGTH FOR THE SPECIFIED EMBEDMENT LENGTH, THICKNESS OF FASTENED PART, WASHER, AND NUT.

POWDER-ACTUATED FASTENER (PAF):

1. POWDER-ACTUATED FASTENERS SHALL BE ONE OF THE FOLLOWING, UON:

   HILTI X-U (ICC-ESR 2269) AT METAL.
   HILTI X-CP72(ICC-ESR 2379) AT PTDF.

2. PROVIDE 0.08" THK X 1.1" SQUARE OR 1.425" ROUND WASHERS FOR ALL PODER-ACTUATED FASTENERS.

3. FASTENER DIAMETER AND EMBEDMENT SHALL BE AS SPECIFICALLY DETAILED ELSEWHERE IN THE DRAWINGS.

4. TESTING OF POWDER-ACTUATED FASTENERS IS NOT REQUIRED WHEN USED TO ATTACH TRACKS OF INTERIOR NON-SHEAR WALL PARTITIONS FOR SHEAR ONLY, WHERE THERE ARE AT LEAST THREE FASTENERS PER SEGMENT OF TRACK.

STRUCTURAL OBSERVATIONS:

1. VISUAL OBSERVATIONS WILL BE PERFORMED AT THE DISCRETION OF THE OWNER, ARCHITECT, SEOR, AND AS REQUIRED BY THE BUILDING OFFICIAL IN ACCORDANCE WITH THE BUILDING CODE.

2. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO NOTIFY THE STRUCTURAL ENGINEER AS TO WHEN EACH MAJOR PHASE OF CONSTRUCTION IS READY FOR OBSERVATION A MINIMUM OF FIVE (5) WORKING DAYS IN ADVANCE.

3. THE FOLLOWING MAJOR PHASES OF CONSTRUCTION REQUIRE A SITE VISIT AND STRUCTURAL OBSERVATION REPORT FROM THE SEOR:
   - FOUNDATION REBAR AND ANCHORS - PRIOR TO POUR OF CONCRETE
   - STRUCTURAL FRAMING - AFTER ERECTION AND PRIOR TO CLOSING IN
   - RAISED FLOOR SLABS AND REBAR - PRIOR TO POUR OF CONCRETE
   - COMPLETION OF THE STRUCTURAL SYSTEM

4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT NAILING, REINFORCEMENT, WELDS, CONNECTIONS, ETC. ARE VISIBLE FOR OBSERVATION WHEN THE SEOR IS ON SITE AND FOR ANY SCHEDULING DELAYS DUE TO NONCOMPLIANT ITEMS FOUND DURING THE OBSERVATION.

STATEMENT OF SPECIAL INSPECTIONS:

1. THE OWNER SHALL EMPLOY ONE OR MORE SPECIAL INSPECTORS TO PROVIDE INSPECTIONS DURING CONSTRUCTION. THE SPECIAL INSPECTOR SHALL BE A QUALIFIED PERSON WHO SHALL DEMONSTRATE COMPETENCE, TO THE SATISFACTION OF THE BUILDING OFFICIAL, FOR INSPECTION OF THE PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING SPECIAL INSPECTION.

2. SPECIAL INSPECTIONS ARE NOT REQUIRED WHERE THE WORK IS DONE ON THE PREMISES OF A FABRICATOR REGISTERED AND APPROVED TO PERFORM SUCH WORK WITHOUT SPECIAL INSPECTION. APPROVED FABRICATORS MUST SUBMIT A CERTIFICATE OF COMPLIANCE FOR OFFSITE FABRICATIONS SUCH AS STRUCTURAL STEEL, PRECAST CONCRETE, GLUED LAMINATED TIMBER, ETC.

3. ALL INSPECTIONS SHALL BE PERFORMED BY INDEPENDENT SPECIAL INSPECTORS. JOB SITE VISITS BY THE STRUCTURAL ENGINEER DO NOT CONSTITUTE AND ARE NOT A SUBSTITUTE FOR INSPECTIONS BY A SPECIAL INSPECTOR.

4. ALL INSPECTION REPORTS SHALL BE SUBMITTED TO DSA AND SEOR. THE FINAL REPORTS BY THE SPECIAL INSPECTOR(S) MUST CERTIFY THAT THE ENTIRE STRUCTURAL SYSTEM COMPLIES WITH THE APPROVED PLANS AND SPECIFICATIONS.

5. IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO SEE THAT THESE INSPECTIONS ARE PERFORMED.

6. WORK REQUIRING SPECIAL INSPECTION SHALL BE INSPECTED BY THE SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK IS PERFORMED AND AT THE COMPLETION OF WORK. CONTINUOUS INSPECTION CONSISTS OF FULL-TIME INSPECTION; PERIODIC INSPECTION CONSISTS OF PART-TIME OR INTERMITTENT INSPECTION.

7. REFER TO DSA 103 SPECIAL INSPECTION FORM FOR ALL TEST AND INSPECTION REQUIRED, AS WELL AS CALIFORNIA BUILDING CODE CHAPTER 17A.

TYPICAL ABBREVIATIONS

AB	ANCHOR BOLT	INT	INTERIOR
ABV	ABOVE	JST	JOIST
ADDT'L	ADDITIONAL	KLF	KIPS PER LINEAR FOOT
ADJ	ADJACENT	KSL	KIPS PER SQUARE FOOT
AFF	ABOVE FINISH FLOOR	KSI	KIPS PER SQUARE INCH
ALT	ALTERNATE	L	ANGLE
ARCH	ARCHITECT(URAL)	LFRS	LATERAL FORCE RESISTING SYSTEM
BLDG	BUILDING		
BLKG	BLOCKING	LLH	LONG LEG HORIZONTAL
BLW	BELOW	LLV	LONG LEG VERTICAL
BM	BEAM	LP	LOW POINT
BN	BOUNDARY NAILING	LWC	LIGHTWEIGHT CONCRETE
B.O.	BOTTOM OF		
BOTT	BOTTOM	MAX	MAXIMUM
BRG	BEARING	MB	MACHINE BOLT
BS	BOTH SIDES	MECH	MECHANICAL
BTWN	BETWEEN	MFR	MANUFACTURER
C	CAMBER	MIN	MINIMUM
CIP	CAST IN PLACE	MTL	METAL
CJ	CONTROL/ CONSTRUCTION JOINT	(N)	NEW
		NS	NEAR SIDE OR NON-SHRINK
CL	CENTERLINE		
CLR	CLEAR	NTS	NOT TO SCALE
CMU	CONCRETE MASONRY UNIT	NWC	NORMAL WEIGHT CONCRETE
COL	COLUMN	OC	ON CENTER
CONC	CONCRETE	O.F.	OUTSIDE FACE
CONN	CONNECTION	OH	OPPOSITE HAND
CONT	CONTINUOUS	OPNG	OPENING
CP	COMPLETE PENETRATION	PDF	POWDER DRIVEN FASTENER
CSK	COUNTERSINK	PJ	PANEL JOIST
CTR(D)	CENTER(ED)	PL	PLATE
D_b	BAR OR BOLT DIAMETER	PLC(S)	PLACE(S)
DBL	DOUBLE	PLF	POUND PER LINEAR FOOT
DEMO	DEMOLITION		
DET	DETAIL	PLYWD	PLYWOOD
DIA	DIAMETER	PREFAB	PREFABRICATED
DIAG	DIAGONAL	PSF	POUND PER SQUARE FOOT
DIM	DIMENSION		
DO	DITTO	PSI	POUND PER SQUARE INCH
DWG	DRAWING		
(E)	EXISTING	PT	PRESSURE TREATED OR POST TENSION
EA	EACH		
EF	EACH FACE	QTY	QUANTITY
EJ	EXPANSION JOINT	RAD, R	RADIUS
EMBED	EMBEDMENT	REF	REFERENCE
ELEC	ELECTRICAL	REINF	REINFORCING
ELEV	ELEVATION	REQD	REQUIRED
EN	EDGE NAILING	SB	SILL BOLT
E.O.	EDGE OF	SC	SAW CUT OR SLIP CRITICAL
EOR	ENGINEER OF RECORD		
EQ	EQUAL	SCHED	SCHEDULE
EQUIP	EQUIPMENT	SEOR	STRUCTURAL ENGINEER ON RECORD
ES	EACH SIDE OR EDGE SCREW	SHTG	SHEATHING
		SIM	SIMILAR
EW	EACH WAY	SMS	SHEET METAL SCREW
EXP	EXPANSION	SN	SILL NAIL
EXT	EXTERIOR	SOG	SLAB ON GRADE
FIN	FINISH	SQ	SQUARE
FLR	FLOOR	SS	STAINLESS STEEL
FN	FIELD NAILING	STD	STANDARD
FND	FOUNDATION	STGRD	STAGGERED
F.O	FACE OF	STIFF	STIFFENER
FS	FAR SIDE OR FIELD SCREW	STL	STEEL
		STRUCT	STRUCTURAL
FRMG	FRAMING	T&B	TOP AND BOTTOM
FT	FOOT OR FEET	THK	THICK
FTG	FOOTING	T.O.	TOP OF
G	GIRDER	TOM	TOP OF MASONRY
GA	GAGE	TOS	TOP OF STEEL
GALV	GALVANIZED	TSG	TAPERED STEEL GIRDER
HAB	HEADED ANCHOR BOLT	TYP	TYPICAL
HD	HOLDDOWN	UNO	UNLESS NOTED OTHERWISE
HDR	HEADER		
HGR	HANGER	VERT	VERTICAL
HK	HOOK	W/	WITH
HORIZ	HORIZONTAL	W/O	WITHOUT
HP	HIGH POINT	WF	WIDE FLANGE
HS	HIGH STRENGTH	WLD	WELDED
HSS	HOLLOW STRUCTURAL STEEL	WO	WHERE OCCURS
		WP	WORK POINT
HT	HEIGHT	WT	WEIGHT
IN	INCH	WWF	WELDED WIRE FABRIC

Ø = DIAMETER ⌖ = REFERENCE ELEVATION OR WORK POINT

tBP architecture planning interiors

LICENSED ARCHITECT REGISTERED PROFESSIONAL ENGINEER STATE OF CALIFORNIA

tBP/Architecture
4611 Teller Avenue
Newport Beach, CA 92660
ph: 949.673.0300 fx: 949.732.3895

architect

REGISTERED PROFESSIONAL ENGINEER No. 34029 Exp. 9/30/20 STRUCTURAL STATE OF CALIFORNIA

VCA ENGINEERS INC
CIVIL • STRUCTURAL
2151 Michelson Dr. #242
Irvine, CA 92612
Tel. 949.679.0870
Fax. 949.679.9370
PROJECT NO. B113-1258

consultant

FILE NO.
IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
DEPARTMENT OF GENERAL SERVICES
APP 03 119149
AC. FLS. SS.
DATE JAN 7 2019

DEPARTMENT OF GENERAL SERVICES
DSA Los Angeles Regional Office
700 N. Alameda Street, Suite 5-500
Los Angeles, California 90012
ph: (213)897-3995 fx: (213)897-3159/0726

CLOUD PRESCHOOL RELOCATABLES
4444 CLOUD AVENUE
LA CRESCENTA, CALIFORNIA 91214
GLENDALE UNIFIED SCHOOL DISTRICT

owner

tBP project number : 20778.10

file name:

drawn by: checked by:

date: June 2017

Rev:	date:	description:

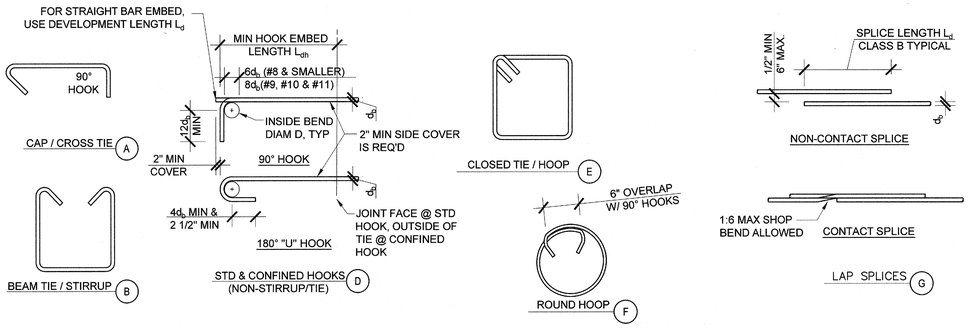
drawing title:

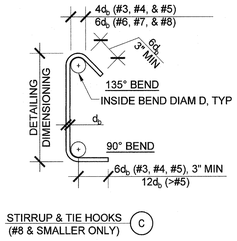
GENERAL NOTES

drawing no.:

SA-0.2

drawing of





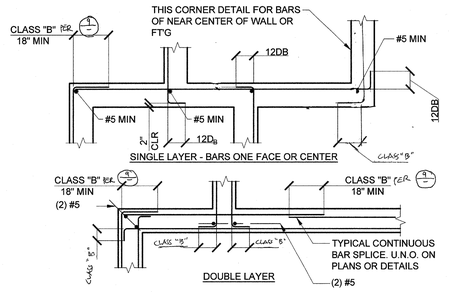
BAR SIZE	FINISHED BEND DIAMETER "D" IN INCHES
#9	9 1/2"
#10	10 3/4"
#11	12"
#14	18 1/4"
#18	24"

STANDARD HOOKS

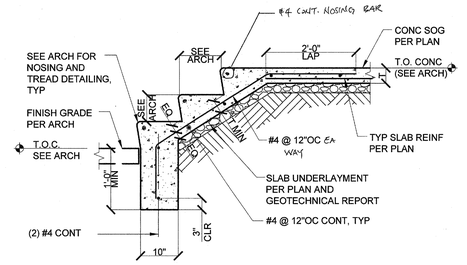
	BAR SIZE	L_{dh} (in) STD HOOK	LAP SPLICE (in) CLASS B TOP	LAP SPLICE (in) CLASS B OTHER	L_d (in) DEVELOPMENT LENGTH TOP	L_d (in) DEVELOPMENT LENGTH OTHER
3000 PSI NWC	#3	6	29	23	22	17
	#4	8	38	29	29	22
	#5	10	47	37	36	28
	#6	12	56	43	43	33
	#7	14	82	63	63	48
	#8	16	94	72	72	55
	#9	18	106	81	81	62
	#10	20	119	91	91	70
	#11	22	132	102	101	78
4000 PSI NWC	#3	6	25	20	19	15
	#4	7	33	25	25	19
	#5	9	41	32	31	24
	#6	10	49	38	37	29
	#7	12	71	55	54	42
	#8	14	81	63	62	48
	#9	15	91	71	70	54
	#10	17	103	80	79	61
	#11	19	114	88	87	67
5000 PSI NWC	#3	6	23	17	17	13
	#4	6	30	23	23	17
	#5	8	37	29	28	22
	#6	9	45	34	34	26
	#7	11	64	50	49	38
	#8	12	73	56	56	43
	#9	14	82	63	63	48
	#10	16	93	71	71	54
	#11	17	102	78	78	60

NOTES:
1. L_{dh} - HOOK DEVELOPMENT LENGTH.
2. L_d - DEVELOPMENT LENGTH.
3. SEE BUILDING CODE AND ACI 318-14 VERSION FOR ALL REQUIREMENTS NOT NOTED.
4. FOR LIGHTWEIGHT CONCRETE MULTIPLY L_{dh} AND L_d VALUES SHOWN BY 1.3.
5. "TOP" BARS ARE HORIZONTAL WITH MORE THAN 12" OF FRESH CONCRETE CAST BELOW BARS. ALL OTHER BARS ARE "OTHER" BARS.
6. STD HOOK L_{dh} DOES NOT ACCOUNT FOR THE EFFECT OF TIES. CONFINED HOOK L_{dh} MAY BE USED WHERE ACI 318-14 25.4.3.1 APPLIES.
7. VALUES SHOWN ABOVE ARE FOR GRADE 60 (FY=60 KSI) REINFORCEMENT.
8. SPLICE LENGTHS SHOWN ARE FOR CLEAR SPACING NOT LESS THAN $2d_b$, CONCRETE COVER NOT LESS THAN d_b.
9. FOR EPOXY-COATED REINFORCEMENT, SEE BUILDING CODE

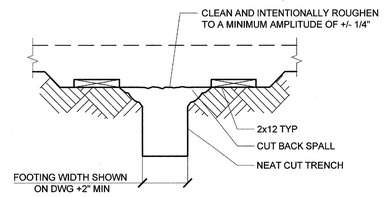
9 TYPICAL REINFORCEMENT DETAILS AND DEVELOPMENT LENGTHS @CONCRETE
SCALE: N.T.S.



3 REINFORCEMENT AT WALL & CONTUOUS FTG.
SCALE: N.T.S.

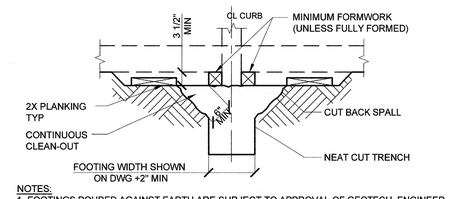


4 STAIR ON GRADE
SCALE: N.T.S.



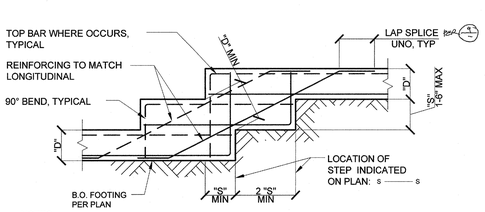
NOTES:
1. FOOTINGS POURED AGAINST EARTH ARE SUBJECT TO APPROVAL OF GEOTECHNICAL ENGINEER.
2. FOOTING WIDTHS SHALL NOT BE MORE THAN 4" WIDER THAN SHOWN ON PLAN.
3. FORMWORK NOT PERMITTED BELOW GRADE.
4. FOUNDATION CONCRETE MAY BE PLACED DIRECTLY INTO NEAT EXCAVATIONS PROVIDED THE FOUNDATION TRENCH WALLS ARE STABLE AS DETERMINED BY THE GEOTECHNICAL ENGINEER. THE 2x12 SHOWN IS MANDATORY TO ENSURE CLEAN EXCAVATIONS IMMEDIATELY PRIOR TO AND DURING THE PLACING OF CONCRETE.
5. STAKES NOT PERMITTED IN THE FOOTING AREA.

7 FOOTING POURED AGAINST EARTH
SCALE: N.T.S.



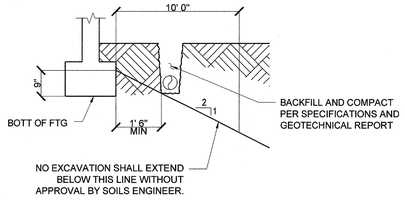
NOTES:
1. FOOTINGS POURED AGAINST EARTH ARE SUBJECT TO APPROVAL OF GEOTECH. ENGINEER.
2. FOOTING WIDTHS SHALL NOT BE MORE THAN 4" WIDER THAN SHOWN ON PLAN.
3. FORMWORK NOT PERMITTED BELOW GRADE UNLESS FULLY FORMED.
4. FOUNDATION CONCRETE MAY BE PLACED DIRECTLY INTO NEAT EXCAVATIONS PROVIDED THE FOUNDATION TRENCH WALLS ARE STABLE AS DETERMINED BY THE GEOTECHNICAL ENGINEER. THE MINIMUM FORMWORK SHOWN ON THE DRAWINGS IS MANDATORY TO ENSURE CLEAN EXCAVATIONS IMMEDIATELY PRIOR TO AND DURING THE PLACING OF CONCRETE.
5. CONT CLEAN-OUT STAKES NOT PERMITTED IN THE FTG AREA.
6. AFTER CONCRETE HAS SET, REMOVE LAITANCE AND SCUM.

8 FOOTING POURED AGAINST EARTH
SCALE: N.T.S.



NOTES:
1. FOR FTG REINFORCING SEE PLANS AND DETAILS.
2. VERTICAL WALL DOWELS SHALL EXTEND TO BOTTOM OF FOOTING.
3. TRANSVERSE STEEL NOT SHOWN FOR CLARITY.
4. TWO STEPS ARE SHOWN, DETAIL FOR SINGLE STEP OR ADDITIONAL STEPS IS SIMILAR.

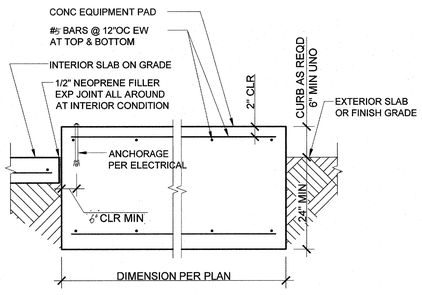
11 TYPICAL STEPS IN WALL FOOTING
SCALE: N.T.S.



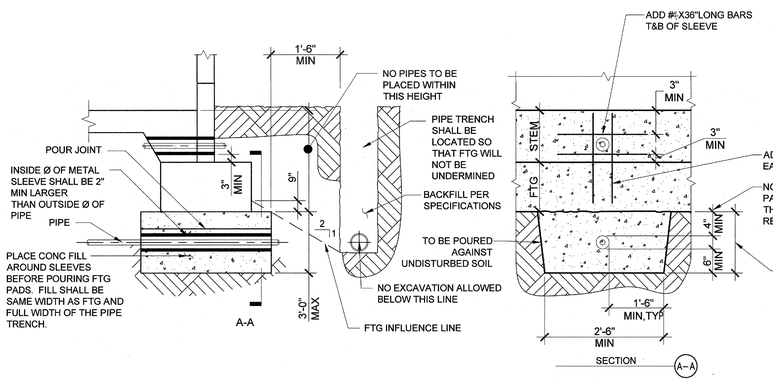
NOTE:
THE CONTRACTOR SHALL BE RESPONSIBLE FOR SHORING OR OTHERWISE MAINTAINING THE SIDES OF THE EXCAVATION FROM CAVE-INS UNTIL ALL BACKFILL IS COMPLETED PER SPECIFICATIONS AND GEOTECHNICAL REPORT.

12 TYPICAL EXCAVATION PARALLEL TO FOOTING
SCALE: N.T.S.

13 DETAIL
SCALE: N.T.S.



14 TYPICAL ISOLATED EQUIPMENT PAD
SCALE: N.T.S.



NOTES:
1. CONTRACTOR SHALL COORDINATE ALL PIPE LOCATIONS WITH BUILDING FOUNDATION REQUIREMENTS.
2. IF REQUIREMENTS AS SHOWN CANNOT BE MET, STEP FOOTING PER TYPICAL 'STEPPED FOOTING' DETAIL.
3. REFERENCE CBC SECTION 1805A.4.7

15 PIPE TRENCH FOOTING DETAIL
SCALE: N.T.S.

tBP architecture planning interiors
tBP/Architecture
4611 Teller Avenue
Newport Beach, CA 92660
ph: 949.673.0300 fx: 949.732.3895
architect

VCA ENGINEERS INC
CIVIL • STRUCTURAL
2151 Michelson Dr. #242
Irvine, CA 92612
Tel. 949.679.0870
Fax. 949.679.9370
PROJECT NO. B113-1258
consultant

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DEPARTMENT OF GENERAL SERVICES
DSA Los Angeles Regional Office
700 N. Alameda Street, Suite 5-500
Los Angeles, California 90012
ph: (213)897-3995 fx: (213)897-3159/0726

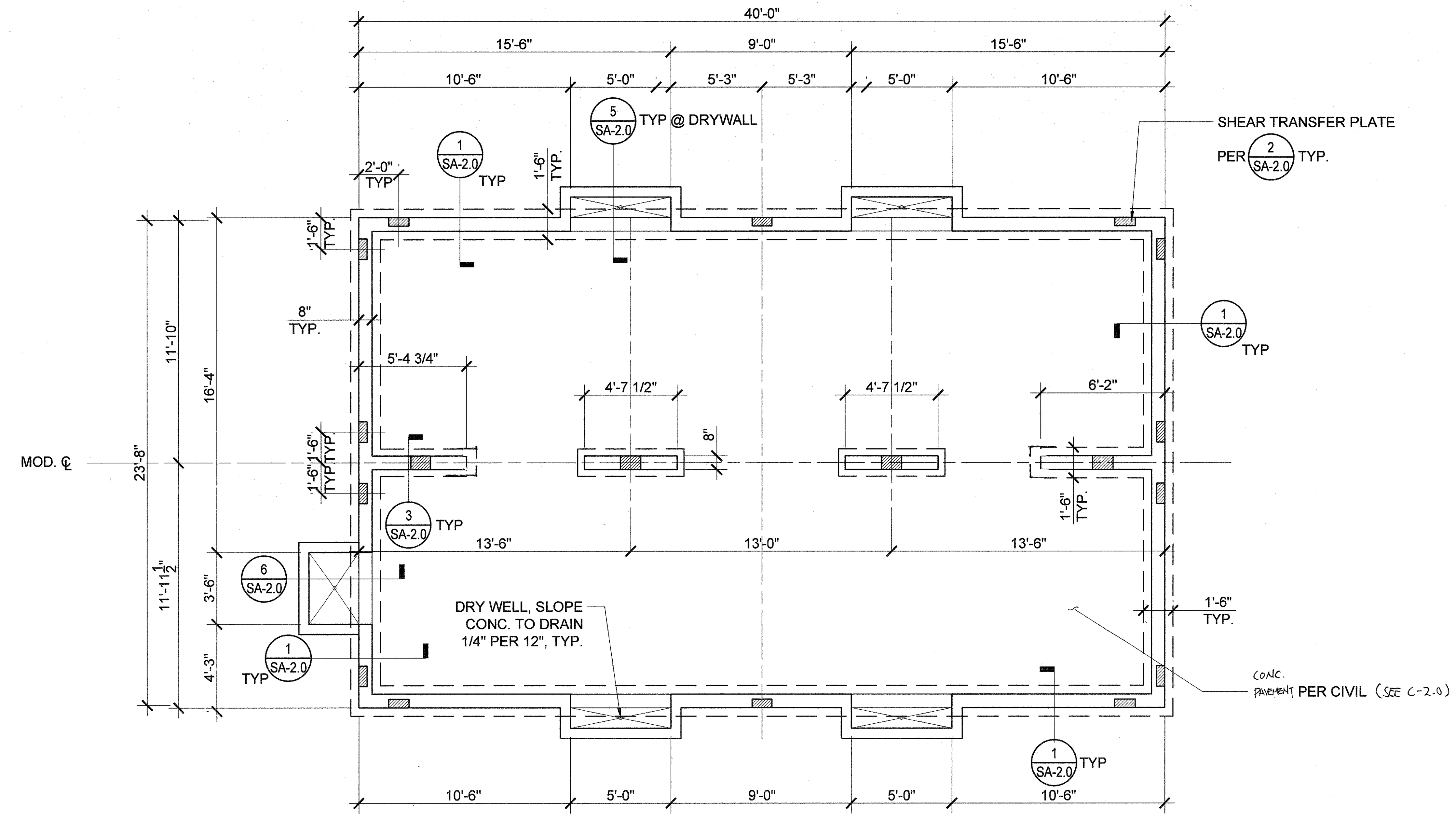
CLOUD PRESCHOOL RELOCATABLES
4444 CLOUD AVENUE
LA CRESCENTA, CALIFORNIA 91214
GLENDALE UNIFIED SCHOOL DISTRICT
owner

tBP project number : 20778.10
file name:
drawn by: checked by:
date: June 2017

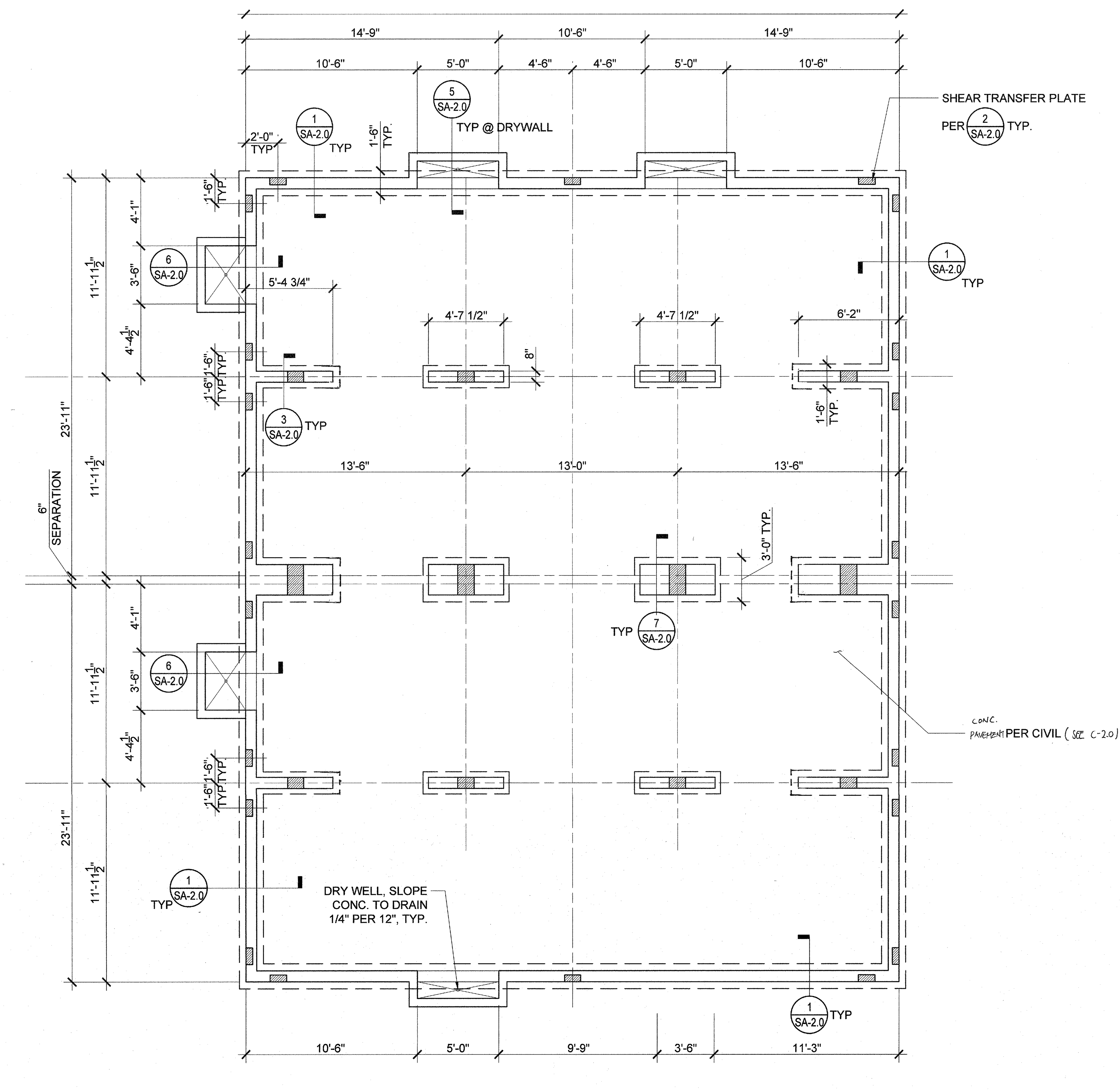
Rev:	date:	description:

drawing title:
TYPICAL DETAIL

drawing no.:
SA-0.3
drawing of



1 FOUNDATION PLAN FOR MODULAR BUILDING 24'X40'
1/4" = 1'-0"



2 FOUNDATION PLAN FOR MODULAR BUILDING 48'X40'
1/4" = 1'-0"

FOUNDATION PLAN NOTES

1. SEE SHEETS SA-0.1 FOR GENERAL NOTES.
   SEE SHEETS SA-0.3 FOR TYPICAL DETAILS.
2. SEE SPECIFICATIONS FOR ALL SITE AND SUBGRADE PREPARATIONS.
3. SEE ARCHITECTURAL AND/OR CIVIL DRAWINGS FOR FINISH FLOOR ELAVTIONS.
4. SEE ARCHITECTURAL AND CIVIL DRAWINGS FOR EXTERIOR CONCRETE PAVING, SLAB, BASES, CURBS, SITE WALL, ETC.
5. FOR ANY DIMENSIONAL INFORMATION NOT SHOWN, SEE ARCHITECTURAL DRAWINGS.
6. ALL DIMENSIONS SHOWN ARE FROM FACE OF STUD, CENTER LINE OF COLUMN, OR CENTER LINE OF WALL, UNLESS NOTED OTHERWISE.
7. CONTRACTOR SHALL FIELD VERIFY DIMENSIONS OF EXISTING MODULAR UNITS AND COORDINATE DIMENSIONS WITH FOUNDATION PLANS PRIOR TO START OF CONSTRUCTION.
8. VERIFY LOCATION OF ACCESS VENT DOES NOT OCCUR UNDER WALL-MOUNTED HVAC UNITS. NOTIFY ARCHITECT OF ANY DISCREPANCIES.
9. CONTRACTOR SHALL REMOVE ALL EXCESS SPOILS AND RECOMPACT PAD AFTER FOUNDATIONS HAVE BEEN POURED.

LEGEND

: INDICATES SHEAR TRANSFER PLATE. SEE DETAIL 2 / SA-2.0 AND 3 / SA-2.0 FOR ADDITIONAL INFORMATION.

tBP architecture planning interiors

tBP/Architecture
4611 Teller Avenue
Newport Beach, CA 92660
ph: 949.673.0300 fx: 949.732.3895

architect

VCA ENGINEERS INC
CIVIL • STRUCTURAL
2151 Michelson Dr. #242
Irvine, CA 92612
Tel. 949.679.0870
Fax. 949.679.9370
PROJECT NO. B113-1258

consultant

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AC FLS SS
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DEPARTMENT OF GENERAL SERVICES
DSA Los Angeles Regional Office
700 N. Alameda Street, Suite 5-500
Los Angeles, California 90012
ph: (213)897-3995 fx: (213)897-3159/0726

CLOUD PRESCHOOL RELOCATABLES

4444 CLOUD AVENUE
LA CRESCENTA, CALIFORNIA 91214

GLENDALE UNIFIED SCHOOL DISTRICT

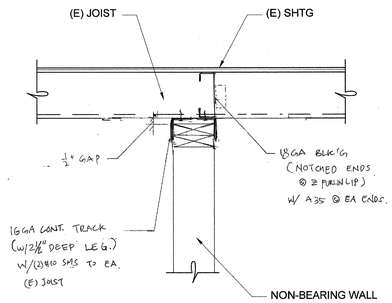
owner

tBP project number : 20778.10
file name:
drawn by: checked by:
date: June 2017
Rev: date: description:

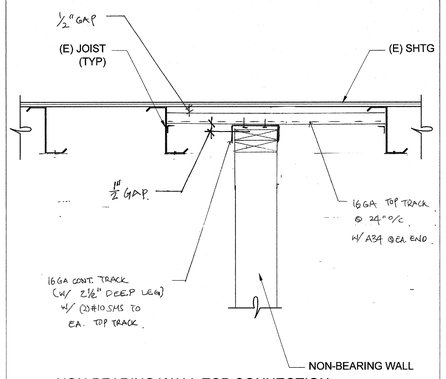
drawing title:
FOUNDATION PLAN FOR CLASS ROOM 1, 2 & 3

drawing no.:
SA-1.0

drawing of

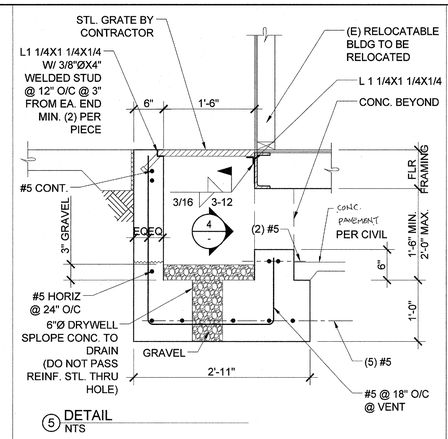


17 NON-BEARING WALL TOP CONNECTION
NTS

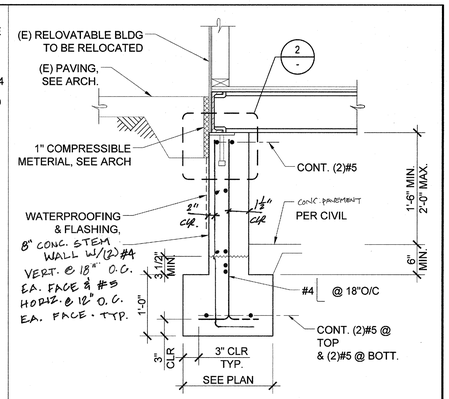


13 NON-BEARING WALL TOP CONNECTION
NTS

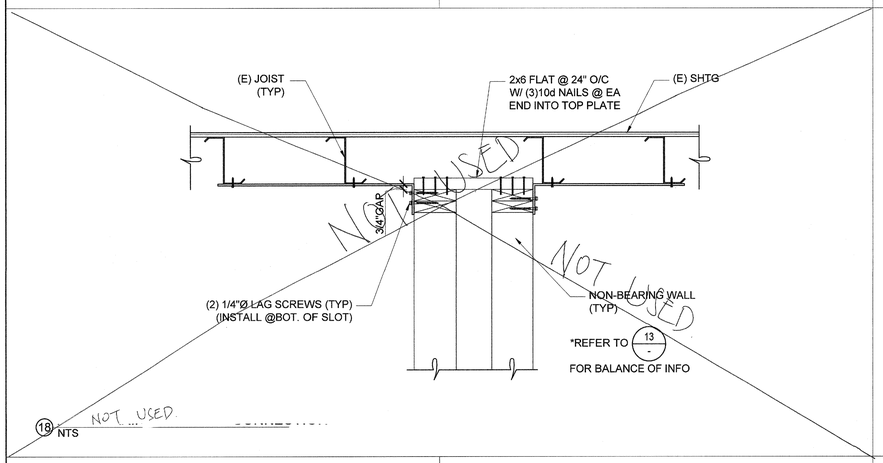
9 DETAIL
NTS



5 DETAIL
NTS

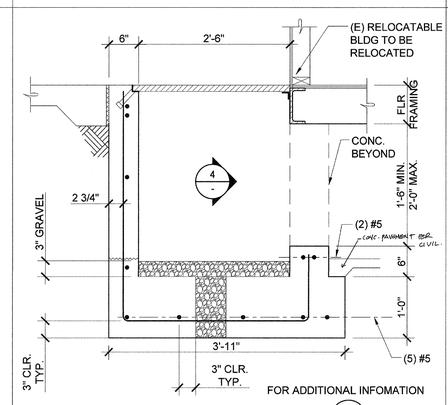


1 END WALL DETAIL
NTS

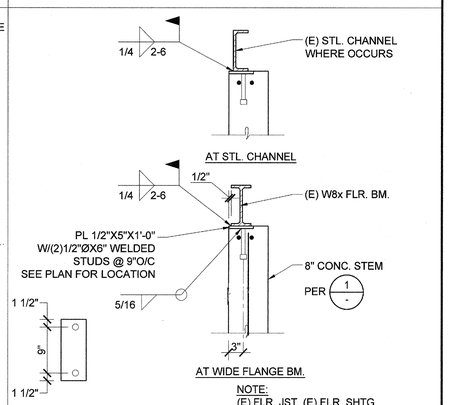


18 NOT USED
NTS

10 DETAIL
NTS

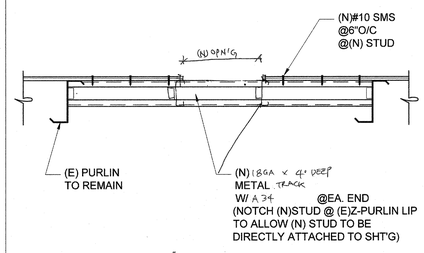


6 DETAIL
NTS



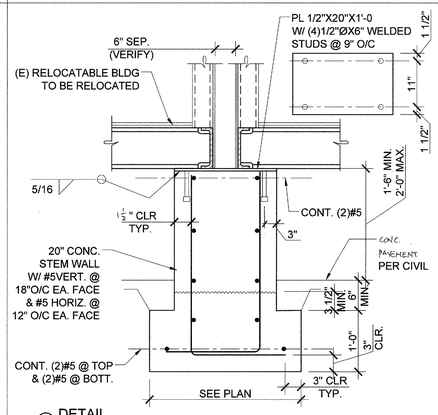
2 DETAIL
NTS

19 DETAIL
NTS



15 FRAMING AT NEW OPENING
NTS

11 DETAIL
NTS



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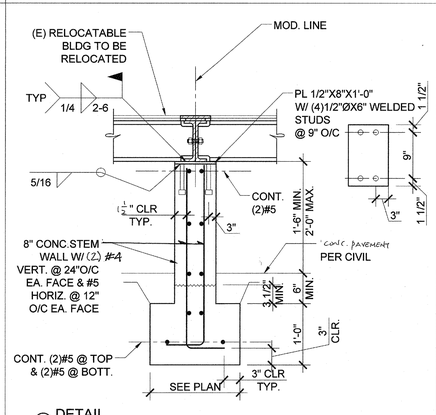


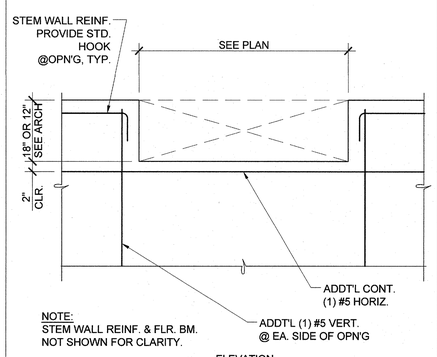
3 DETAIL
NTS

20 DETAIL
NTS

16 DETAIL
NTS

12 DETAIL
NTS

8 DETAIL
NTS



4 DETAIL
NTS

tBP
architecture
planning
interiors
LICENSED ARCHITECT REGISTERED PROFESSIONAL ENGINEER STATE OF CALIFORNIA
tBP/Architecture
4611 Teller Avenue
Newport Beach, CA 92660
ph: 949.673.0300 fx: 949.732.3895
architect

REGISTERED PROFESSIONAL ENGINEER No. S4029 Exp. 9/30/20 STRUCTURAL STATE OF CALIFORNIA
VCA ENGINEERS INC
CIVIL • STRUCTURAL
2151 Michelson Dr. #242
Irvine, CA 92612
Tel. 949.679.0870
Fax. 949.679.9370
PROJECT NO. B113-1258
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ph: (213)897-3995 fx: (213)897-3159/0726

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SA-2.0

drawing of

MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2016 CBC, SECTIONS 1616A.1.18 THROUGH 1616A.1.26 AND ASCE 7-10 CHAPTERS 13, 26 AND 30.

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER.
3. MOVABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THAN 400 POUNDS ARE REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.

THE ATTACHMENT OF THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED NOT BE DETAILED ON THE PLANS. THE PROJECT INSPECTOR WILL VERIFY THAT THESE ITEMS HAVE BEEN POSITIVELY ATTACHED. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT.

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD AND THE DSA DISTRICT STRUCTURAL ENGINEER. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM ANCHORAGE NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCE AND DISPLACEMENTS PRESCRIBED IN ASCE 7-10 SECTION 13.3, AS DEFINED IN ASCE 7-10 SECTION 13.6.8, 13.6.7, 13.6.5.6 AND 2016 CBC SECTIONS 1616A.1.23, 1615A.1.24, 1616A.1.25, AND 1616A.1.26.

THE BRACING AND ATTACHMENTS TO THE STRUCTURE SHALL BE DETAILED ON THE APPROVED DRAWINGS OR THEY SHALL COMPLY WITH ONE OF THE OSHPD PRE-APPROVALS (OPA#) AS MODIFIED TO SATISFY ANCHORAGE REQUIREMENTS OF ACI 318, APPENDIX D.

COPIES OF THE MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF HANGING AND BRACING OF THE PIPE, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS.

THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

CA GREEN BUILDING STANDARDS NOTES

ENTIRE INSTALLATION SHALL COMPLY WITH THE 2016 CALIFORNIA GREEN BUILDING STANDARDS (CALGREEN) CODE INCLUDING THE FOLLOWING APPLICABLE MANDATORY MEASURES:

1. 5.504.1.3 – PERMANENT HVAC SYSTEM SHALL ONLY BE USED DURING CONSTRUCTION IF NECESSARY TO CONDITION THE BUILDING WITHIN THE REQUIRED TEMPERATURE RANGE FOR MATERIAL AND EQUIPMENT INSTALLATION. IF THE HVAC SYSTEM IS USED DURING CONSTRUCTION, CONTRACTOR SHALL USE MERV 8 MINIMUM RETURN AIR FILTERS. REPLACE ALL FILTERS IMMEDIATELY PRIOR TO OCCUPANCY.
2. 5.504.3 – CONTRACTOR SHALL COVER ALL DUCT AND OTHER RELATED AIR DISTRIBUTION COMPONENT OPENINGS WITH TAPE, PLASTIC, SHEET METAL OR OTHER METHODS ACCEPTABLE TO THE ENFORCING AGENCY DURING STORAGE AND CONSTRUCTION AND UNTIL FINAL STARTUP.
3. 5.504.5.3 – MERV 8 FILTERS ARE REQUIRED FOR HVAC SYSTEMS SERVING REGULARLY OCCUPIED AREAS AND AS INDICATED IN THESE PLANS.
4. 5.504.7 – OUTDOOR SMOKING AREAS SHALL BE MINIMUM 25'-0" FROM ALL BUILDING ENTRIES, OUTDOOR AIR INTAKES, AND OPERABLE WINDOWS.
5. 5.505.1 – INSTALLATION SHALL COMPLY WITH CBC SECTION 1203 AND CHAPTER 14 FOR INDOOR MOISTURE CONTROL.
6. 5.506.2 – DEMAND CONTROL VENTILATION REQUIRED FOR ALL DENSELY OCCUPIED SPACES PER 2016 CALIFORNIA ENERGY CODE REQUIREMENTS.
7. 5.508.1 – HVAC, REFRIGERATION, AND FIRE SUPPRESSION EQUIPMENT SHALL NOT CONTAIN CFCS OR HALONS.

LEGEND

SYMBOL	ABBR.	DESCRIPTION
	–	SUPPLY AIR RISER
	–	RETURN AIR RISER
	–	EXHAUST AIR RISER
	SAG	SUPPLY AIR GRILLE
	RAG	RETURN AIR GRILLE
	EAG	EXHAUST AIR GRILLE
	SWR	SIDEWALL REGISTER
	(L)	LINED DUCTWORK
	–	FLEXIBLE CONNECTION
	FC	FLEXIBLE CONNECTION
	–	NEW DUCT (SEE PLAN)
	–	EXISTING DUCT (SEE PLAN)
	–	DEMO DUCT (SEE PLAN)
	MVD	MANUAL VOLUME DAMPER
	BDD	BACKDRAFT DAMPER
SFD	SFD	SMOKE / FIRE DAMPER
FD	FD	FIRE DAMPER
	DL	DOOR LOUVER
U.C.	UC	UNDERCUT DOOR 3/4"
RS	RS	REFRIGERANT SUCTION LINE
RL	RL	REFRIGERANT LIQUID LINE
CD	CD	CONDENSATE DRAIN
	S.D.	SMOKE DETECTOR
	P.O.C.	POINT OF CONNECTION
T	T-STAT	THERMOSTAT
H	H	HUMIDISTAT
TS	TS	TEMPERATURE SENSOR
OS	OS	OVERRIDE SWITCH
PD	PD	PRESSURE DIFFERENTIAL SWITCH
S	S	SWITCH
	O.C.	ON CENTER
	HWR	HOT-WATER RETURN
	HWS	HOT-WATER SUPPLY
	I.D.	INSIDE DIAMETER
	O.D.	OUTSIDE DIAMETER
	W/	WITH
	S/M	SHEET METAL
	S/S	STAINLESS STEEL
	G.C.	GENERAL CONTRACTOR
	VTR	VENT THRU ROOF
	EMS	ENERGY MANAGEMENT SYSTEM
	OBD	OPPOSED BLADE DAMPER
	FSC	FAN SPEED CONTROL

GENERAL NOTES

----- GENERAL NOTES -----

1. ENTIRE INSTALLATION SHALL CONFORM TO THE REQUIREMENTS OF THE 2016 CALIFORNIA MECHANICAL CODE, 2016 CALIFORNIA BUILDING CODE, AND ALL OTHER APPLICABLE CODES AND REGULATIONS, INCLUDING 2016 CALIFORNIA ENERGY CONSERVATION STANDARDS DIVISION T-24.
2. COORDINATE ENTIRE INSTALLATION OF THE HVAC SYSTEM WITH THE WORK OF ALL OTHER TRADES PRIOR TO ANY FABRICATION OR INSTALLATION. PROVIDE ALL FITTINGS, OFFSETS, AND TRANSITIONS AS REQUIRED FOR A COMPLETE WORKABLE INSTALLATION. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE ITEMS TO BE PROVIDED BY OTHER TRADES WHERE MENTIONED IN THE CONTRACT DOCUMENTS PRIOR TO BID – NO EXCEPTIONS.
3. COORDINATE THE LOCATIONS OF ALL CEILING DIFFUSERS, REGISTERS, AND GRILLES WITH THE ARCHITECTURAL REFLECTIVE CEILING PLAN, ELECTRICAL LIGHTING LAYOUT AND ARCHITECTURAL ROOM ELEVATIONS. THE ARCHITECT SHALL BE IMMEDIATELY NOTIFIED OF ANY CONFLICTS PRIOR TO FABRICATION AND INSTALLATION.
4. NOT USED.
5. ALL EQUIPMENT, DUCTS, PIPING, AND OTHER DEVICES AND MATERIALS INSTALLED OUTSIDE OF THE BUILDING OR OTHERWISE EXPOSED TO THE WEATHER SHALL BE COMPLETELY WEATHER-PROOFED AND PAINTED TO MATCH, COORDINATE WITH ARCHITECT PRIOR TO PAINTING.
6. ALL DIMENSIONS SHOWN ON THESE PLANS ARE APPROXIMATE AND MUST BE CONFIRMED ON SITE.
7. PRIOR TO OCCUPANCY, THE ENTIRE H.V.A.C. SYSTEMS SHALL BE BALANCED IN ACCORDANCE WITH (AABC) ASSOCIATED AIR BALANCE COUNCIL STANDARDS BY AN INDEPENDANT AIR BALANCE CONTRACTOR. CERTIFICATION SHALL BE PROVIDED BY THE CONTRACTOR FOR AIR AND HYDRONIC AS APPLICABLE. SYSTEMS SHALL BE BALANCED AS INDICATED ON PLANS INCLUDING FRESH AIR VENTILATION. WHERE THERE IS A CONFLICT WITH THE MECHANICAL PLANS, THE AIR BALANCE CONTRACTOR SHALL NOTIFY THE ARCHITECT PRIOR TO BALANCING OF SYSTEM. IF NOT THE AIR BALANCE CONTRACTOR SHALL BEAR ALL COSTS INCURRED FOR WORK THAT MUST BE RE-BALANCED DUE TO CONFLICTS ON CONTRACT DOCUMENTS. CONTRACTOR SHALL PROVIDE THREE COPIES OF THE AIR BALANCE REPORT TO THE ARCHITECT FOR REVIEW AND APPROVAL.
8. FOR INACCESSIBLE AREAS THE CONTRACTOR SHALL PROVIDE ACCESS PANELS FOR ALL DAMPERS, EQUIPMENT, SMOKE DETECTORS, AND CONTROL DEVICES. THESE PANELS SHALL MATCH THE RATING OF THE WALL AND/OR CEILING THAT THEY ARE LOCATED IN. MINIMUM ACCESS PANEL SIZES SHALL BE AS FOLLOWS:

   1) HAND ACCESS: 12"x12"

   2) BODY ACCESS: 30"x30" MIN. WHERE A LARGER ACCESS SIZE IS REQUIRED DUE TO INSTALLATION CONSTRAINTS, THE CONTRACTOR SHALL DO SO AT NO ADDITIONAL COST AND SHALL NOTIFY THE ARCHITECT OF DEVIATIONS PRIOR TO INSTALLATION.
9. ALL EQUIPMENT, ACCESSORIES, AND RELATED PIPING SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE EQUIPMENT MANUFACTURER'S RECOMMENDATIONS. PROVIDE ALL FITTINGS, TRANSITIONS, DAMPERS, VALVES, AND OTHER DEVICES REQUIRED FOR A COMPLETE WORKABLE INSTALLATION.
10. MAINTENANCE LABEL SHALL BE AFFIXED TO ALL MECHANICAL EQUIPMENT AND A MAINTENANCE MANUAL SHALL BE PROVIDED FOR THE ARCHITECT'S USE.
11. ALL EQUIPMENT WITH MOVING PARTS SHALL BE PROVIDED WITH FLEXIBLE DUCT AND PIPE CONNECTIONS.
12. ALL HVAC EQUIPMENT SHALL BE CERTIFIED BY THE CALIFORNIA ENERGY COMMISSION TO COMPLY WITH LATEST EFFICIENCY STANDARDS.
13. ALL FRESH AIR INTAKES SHALL MEET CODE REQUIRED CLEARANCES FROM EXHAUST, FLUE, FUEL BURNING APPLIANCE AND PLUMBING VENT OUTLETS. FOR GAS/ELECTRIC AIR CONDITIONING UNITS WHERE THE CODE REQUIRED CLEARANCES ARE NOT MET, A FACTORY FLUE GAS DEFLECTOR AND EXTENSION SHALL BE USED TO MINIMIZE THESE CLEARANCES. CONTRACTOR SHALL DETERMINE LOCATIONS WHERE REQUIRED PRIOR TO BID. THIS SHALL BE PROVIDED AT NO ADDITIONAL COST.
14. CONTRACTOR SHALL VERIFY ALL CLEARANCES AND AVAILIABLE SPACE FOR DUCTWORK PRIOR TO ORDERING AND/OR FABRICATING MATERIAL.
15. CONTRACTOR TO SUBMIT ALL EQUIPMENT, DUCTWORK, AIR DISTRIBUTION DEVICES, AND OTHER ACCESSORIES TO THE ENGINEER FOR APPROVAL PRIOR TO ANY ORDERING OF SUCH ITEMS.
16. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS WITHIN 35 DAYS OF AWARD OF CONTRACT. IF SHOP DRAWINGS ARE NOT PROVIDED TO THE ARCHITECT FOR APPROVAL, AND ANY CONFLICTS OCCUR BETWEEN TRADES, DURING CONSTRUCTION, & ETC. THEN THE CONTRACTOR SHALL BE RESPONSIBLE AND BEAR ALL COST INCURRED FOR ANY REVISIONS AT NO ADDITIONAL COST TO THE ARCHITECT. THE ARCHITECT SHALL BE NOTIFIED IMMEDIATELY PRIOR TO FABRICATION AND INSTALLATION OF ANY CONFLICTS BETWEEN TRADES, DURING CONSTRUCTION, & ETC.
17. CONTRACTOR SHALL BE RESPONSIBLE FOR COMMISSIONING OF EQUIPMENT AS STIPULATED ON MECH-1-C FORM ON PLANS UNLESS NOTED OTHERWISE.

----- CONTROLS -----

18. CONTROL SCHEMATICS ARE FOR SEQUENCE ONLY. REFER TO ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR ALL ELECTRICAL DEVICES REQUIRED.
19. ALL LINE VOLTAGE WIRING SHALL BE INSTALLED IN CONDUIT. ALL LINE VOLTAGE CONDUIT AND WIRING, INCLUDING FINAL CONNECTIONS, SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR AS INDICATED ON THE ELECTRICAL DRAWINGS OR SPECIFIED IN THE ELECTRICAL SECTION OF THE SPECIFICATIONS. ALL ELECTRICAL WORK SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE CODES AND REGULATIONS OF ALL GOVERNING BODIES HAVING JURISDICTION THEREOF.
20. ALL LOW VOLTAGE CONDUIT AND WIRING AS APPLICABLE, INCLUDING FINAL CONNECTIONS, SHALL BE FURNISHED AND INSTALLED BY THE MECHANICAL CONTRACTOR AS INDICATED ON THE MECHANICAL DRAWINGS OR SPECIFIED IN THE MECHANICAL SECTION OF THE SPECIFICATIONS.

   A1) ALL LOW VOLTAGE WIRING SHALL BE INSTALLED IN CONDUIT IN INACCESSIBLE AREAS.

   A2) ALL LOW VOLTAGE WIRING SHALL BE PLENUM – RATED ABOVE ACCESSIBLE CEILINGS.

   B) WHERE THE CONTROLS CONTRACTOR IS RETAINED BY THE OWNER, THEY SHALL BE RESPONSIBLE FOR THE FOLLOWING:

   1) FURNISH AND INSTALL ALL DEVICES, WIRING, AND TERMINATIONS REQUIRED FOR A COMPLETE AND FUNCTIONAL INSTALLATION.

   2) COORDINATE ALL WORK AND REQUIREMENTS WITH OTHER TRADES INCLUDING GENERAL, MECHANICAL, AND ELECTRICAL CONTRACTORS.

   3) CONTRACTOR SHALL FOLLOW ALL SUBMITTAL REQUIREMENTS PER DRAWINGS AND SPECIFICATIONS.
21. ALL THERMOSTATS SHALL BE OF THE ELECTRONIC, PROGRAMMABLE, AUTOMATIC CHANGEOVER TYPE TO SEQUENCE HEATING OR COOLING. SET POINT RANGE SHALL BE 10 DEGREES F. BETWEEN FULL HEATING AND COOLING. THEY SHALL HAVE CAPABILITY OF TERMINATING ALL HEATING AT A TEMPERATURE NO MORE THAN 70 DEGREES F., AND COOLING AT A TEMPERATURE NOT LESS THAN 78 DEGREES F. ADJUSTABLE TEMPERATURE DIFFERENTIAL SHALL BE FROM 1– 1/2 DEGREES F. CONTROL LIMITS SHALL BE FROM 55 DEGREES F. TO 85 DEGREES F. MOUNT AT 48 INCHES ABOVE FLOOR OR AS REQUIRED BY LOCAL AUTHORITIES OR HANDICAP CODES.

   NOTES: 1) THERMOSTATS THAT ARE PART OF AN ENERGY MANAGEMENT SYSTEM SHALL FOLLOW CONTROL SPECIFICATIONS AND DRAWING REQUIREMENTS.

   2) SHOULD THE LOCATION OF THE THERMOSTAT NOT MEET THE ADA HEIGHT REQUIREMENTS DUE TO OBSTRUCTIONS, THEN AN ALTERNATE LOCATION SHALL BE PROPOSED OR REQUESTED BY THE CONTRACTOR THAT SHALL BE APPROVED BY THE ARCHITECT.
22. CONTROLS CONTRACTOR AND AIR BALANCE CONTRACTOR SHALL COORDINATE WORK AND PERFORM NECESSARY TASKS AS REQUIRED TO OBTAIN AIR AND WATER FLOW QUANTITIES FOR SYSTEMS SHOWN HEREIN.
23. CONTROLS SHALL BE PROVIDED TO PROVIDE THE MINIMUM RATE OF OUTDOOR AIR REQUIRED BY THE STATE ENERGY REGULATIONS.

----- AIR DISTRIBUTION -----

24. ALL DUCTWORK SHALL BE SHEET METAL CONSTRUCTED OR SPIRAL, ERECTED, AND TESTED IN ACCORDANCE WITH THE MOST RESTRICTIVE OF LOCAL REGULATIONS, PROCEDURES DETAILED IN THE ASHRAE HANDBOOK OF FUNDAMENTALS, CHAPTER 6 OF THE MECHANICAL CODE, OR THE APPLICABLE STANDARDS ADOPTED BY THE SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION.
25. ALL FLEXIBLE DUCTWORK SHALL NOT EXCEED SEVEN FEET IN LENGTH TO RESPECTIVE DIFFUSERS, GRILLES, AND REGISTERS, OR OTHER AIR DEVICES.
26. PROVIDE SEISMIC RESTRAINTS TO ALL DUCTWORK, PIPE, AND EQUIPMENT SUPPORTS IN ACCORDANCE WITH THE LATEST SMACNA GUIDELINES FOR SEISMIC RESTRAINT OF MECHANICAL SYSTEMS. SUSPENDED EQUIPMENT SHALL BE PROVIDED WITH SEISMIC ANCHORAGE AND ISOLATION SUPPORTS. SUSPENDED DUCTWORK SHALL BE SUPPORTED PER DETAIL 2, SHEET M3.1.
27. ALL DUCT TURNS IN RECTANGULAR SUPPLY, RETURN, AND EXHAUST DUCTS SHALL HAVE TURNING VANES UNLESS OTHERWISE NOTED.
28. DUCTWORK HANDLING CONDITIONED AIR SHALL BE INSULATED OR LINED AS INDICATED ON DRAWINGS. SUPPLY AND RETURN DUCT INSULATION SHALL BE MIN. 1.5" THICK, 3/4 LB./CUBIC FT. DENSITY AND HAVE A MIN. VALUE OF R-8 WHERE LOCATED IN ONE OR MORE OF THE FOLLOWING SPACES:

   A) OUTDOORS, OR

   B) IN A SPACE BETWEEN THE ROOF AND AN INSULATED CEILING, OR

   C) IN A SPACE DIRECTLY UNDER A ROOF WITH FIXED VENTS OR OPENINGS TO THE OUTSIDE OR UNCONDITIONED SPACES, OR

   D) IN AN UNCONDITIONED CRAWLSPACE; OR

   E) IN OTHER UNCONDITIONED SPACES

   PER 2016 CEC, OTHERWISE PROVIDE R-4.2 WHEN LOCATED IN CONDITIONED ATTIC SPACES ABOVE CEILINGS . ALL DUCTWORK EXPOSED ON ROOF SHALL BE INTERNALLY LINED WITH 1.5" THICK, 1.5LB./CUBIC FT. DENSITY DUCT LINER UNLESS OTHERWISE INDICATED OR SPECIFIED. ALL DUCT SIZES ARE SHEET METAL SIZES. ALL DUCT JOINTS SHALL BE SEALED PER CHAPTER 6 MECHANICAL CODE REQUIREMENTS. PROVIDE PIPING AND DUCT INSULATION IN ACCORDANCE WITH THE LATEST STANDARDS OF THE CALIFORNIA ENERGY COMMISSION.
29. ALL INSULATION SHALL HAVE A FLAME SPREAD OF NOT MORE THAN 25 AND A SMOKE DENSITY NOT EXCEEDING 50.
30. MANUAL VOLUME DAMPERS SHALL BE PROVIDED IN ALL DUCT BRANCHES TO INDIVIDUAL DIFFUSERS, GRILLES, AND REGISTERS, AS WELL AS FRESH AIR INTAKE DUCTS. DAMPERS SHALL BE LOCATED AT THE BRANCH DUCT LOCATIONS. THE MECHANICAL CONTRACTOR SHALL COORDINATE LOCATIONS OF DAMPERS WITH THE AIR BALANCE CONTRACTOR, SO THEY ARE ACCESSIBLE PRIOR TO INSTALLATION. IN LOCATIONS WHERE THESE DAMPERS ARE INACCESSIBLE, CABLE OPERATED ADJUSTMENT CONTROLS SHALL BE PROVIDED AT NO ADDITIONAL COST. OPPOSED BLADE DAMPERS SHALL NOT BE PERMITTED UNLESS NOTED OTHERWISE.
31. AUTOMATIC FIRE DAMPER REQUIREMENTS ARE AS FOLLOWS:

   A) PROVIDE AUTOMATIC FIRE DAMPERS AT ALL PENETRATIONS OF FIRE-RATED CEILINGS AND WALLS THROUGHOUT. CONTRACTOR SHALL COORDINATE FIRE-RATED AREAS WITH THE ARCHITECTURAL DRAWINGS AND OTHER TRADES PRIOR TO INSTALL AND SHALL NOTIFY PERTINENT PARTIES PRIOR TO ANY WORK PERFORMED IN THESE AREAS. IN ADDITION, CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE PROPER ACCESS FOR DAMPERS INSTALLED. THE DAMPER FIRE RATING SHALL BE COMPATIBLE WITH THE CEILING/WALL RATING.

   B) LOCATION OF FIRE-RATED CEILINGS AND WALLS ARE AS INDICATED ON THE ARCHITECTURAL DRAWINGS.

   C) FIRE AND/OR SMOKE DAMPER(S) SHALL BE PROVIDED AS REQUIRED BY THE LATEST CALIFORNIA BUILDING CODE.

   D) CONTRACTOR SHALL FURNISH FLUSH MOUNTED FIRE AND/OR SMOKE DAMPERS, SO THAT DAMPER DO NOT EXTEND PASS WALLS, FOR AREAS WITHOUT CEILINGS FOR QUALITY WORKMENSHIP.
32. CONTRACTOR SHALL PERFORM MAINTENANCE ON ALL EXISTING FIRE AND SMOKE/FIRE DAMPERS PER MANUFACTURER'S PROVISIONS. ANY FAILURES OR NON-OPERATING DAMPERS SHALL BE REPLACED AND SHALL CONFORM TO CURRENT CODE REGULATIONS.
33. ALL DUCTWORK PASSING THROUGH FIRE RATED CORRIDORS AND LOBBIES SHALL BE MIN. 26 GAGE SHEET METAL CONSTRUCTION.
34. ALL DUCTWORK, PIPING, CONDUIT, & ETC. PENETRATING FIRE RATED CONSTRUCTION SHALL HAVE APPROVED FIRE STOPPING.

EXHAUST FAN SCHEDULE

SYM	MFR & MODEL #	CFM	ESP	WATTS	ELECTRICAL V	ELECTRICAL PH	FAN RPM	WT (LBS)	REMARKS	CONTROL DETAIL	ANCHORAGE DETAIL
EF 1	GREENHECK SP-A125	100	0.25	53	115	1	1100	20	1, 2, 3	5 M3.1	6 M3.1
EF 2	GREENHECK SP-A125	100	0.25	53	115	1	1100	20	1, 2, 3	5 M3.1	6 M3.1
EF 3	GREENHECK SP-A125	100	0.25	53	115	1	1100	20	1, 2, 3	5 M3.1	6 M3.1

1. BACKDRAFT DAMPER.
2. INTERLOCK WITH LIGHT SWITCH.
3. MANUFACTURER ROOF JACK.

AIR DISTRIBUTION SCHEDULE

SYM.	MANUF & MODEL	NECK SIZE	FACE SIZE	CFM RANGE	MAX. NECK VELOCITY	MAX. N.C.	S.P. DROP	TYPE	DAMPER	REMARKS
– SD–1	TITUS PMC	8"x8" 10"x10" 12"x12" 16"x16" 18"x18"	24"x24"	0-180 181-280 281-400 401-620 621-900	400	30	.07	MODULAR PERFOR.	MVD	BORDER TYPE 3 FOR T-BAR
– TG–1	TITUS PMC	8"x8" 10"x10" 12"x12" 16"x16" 18"x18"	24"x24"	0-180 181-280 281-400 401-620 621-900	400	30	.07	MODULAR PERFOR.	MVD	BORDER TYPE 3 FOR T-BAR
– RG–1	TITUS PMR	8"x8" 10"x10" 12"x12" 15"x15" 18"x18"	24"x24"	0-180 181-280 281-400 401-620 621-900	400	30	.06	PERFOR.	MVD	BORDER TYPE 3 FOR T-BAR

LEGEND

400 – CFM
SD–1 – AIR DISTRIBUTION DEVICE

SD	SUPPLY DIFFUSER
SR	SUPPLY REGISTER
RG	RETURN GRILLE
EG	EXHAUST GRILLE
TG	TRANSFER GRILLE

NOTES:
1. NOT ALL DIFFUSER/GRILLE TYPES OR SIZES MAY BE USED ON THIS PROJECT.

tBP architecture planning interiors
tBP/Architecture
4611 Teller Avenue
Newport Beach, CA 92660
ph: 949.673.0300 fx: 949.732.3695
architect

PDS Project Design Solutions Inc.
consultant

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP03 119149
AC FLS SS
DATE JAN 7 2019

DSA Los Angeles Regional Office
700 N. Alameda Street, Suite 5-500
Los Angeles, California 90012
ph: (213)897-3995 fx: (213)897-3159/0726

CLOUD PRESCHOOL RELOCATABLES
4444 CLOUD AVENUE
LA CRESCENTA, CALIFORNIA 91214
GLENDALE UNIFIED SCHOOL DISTRICT
owner

tBP project number : 2077B.10
file name:
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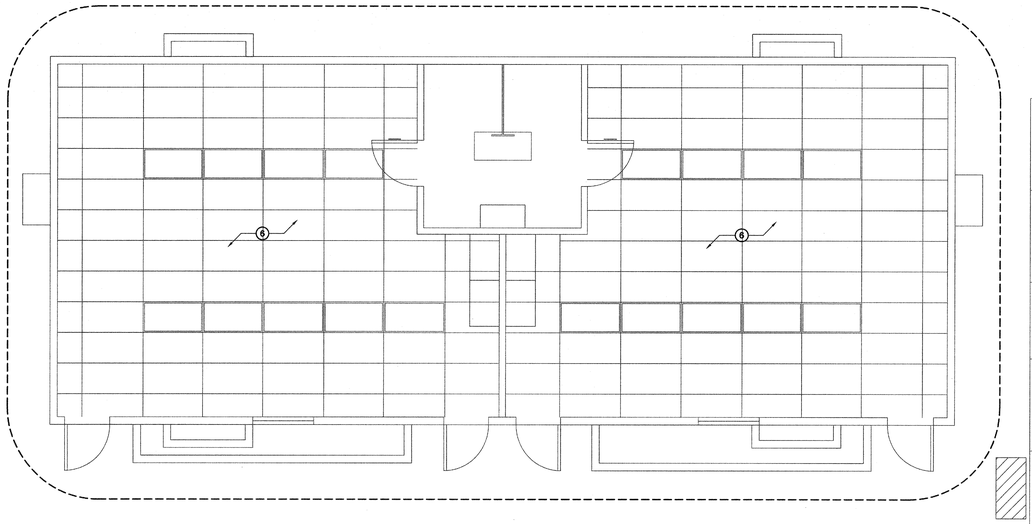
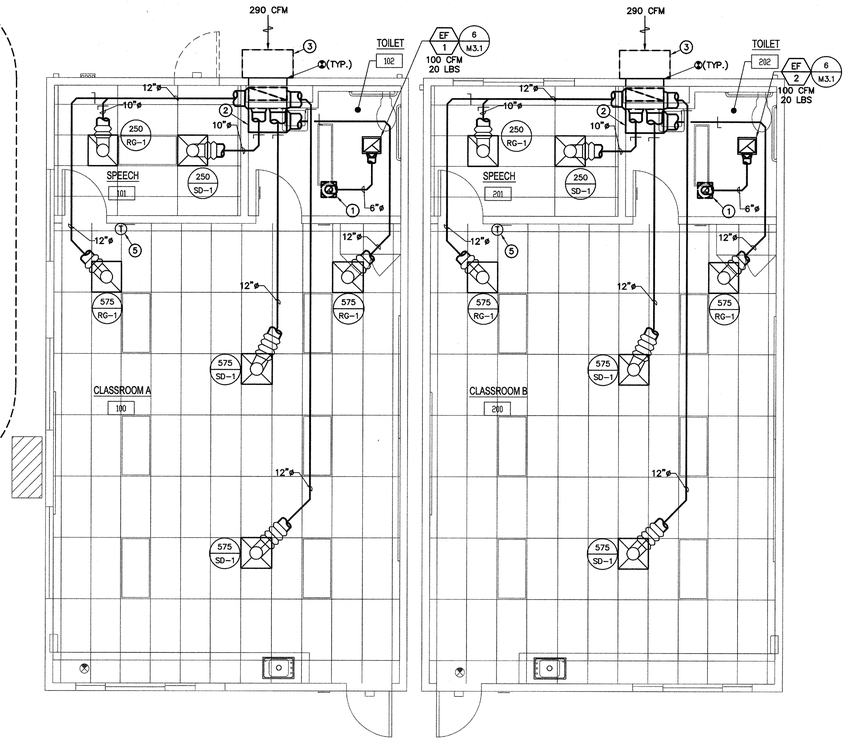
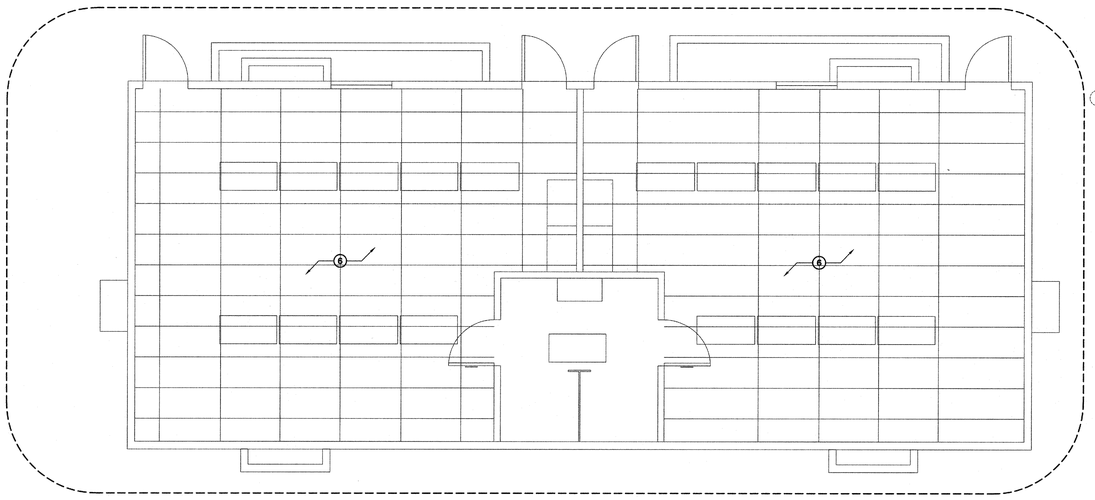
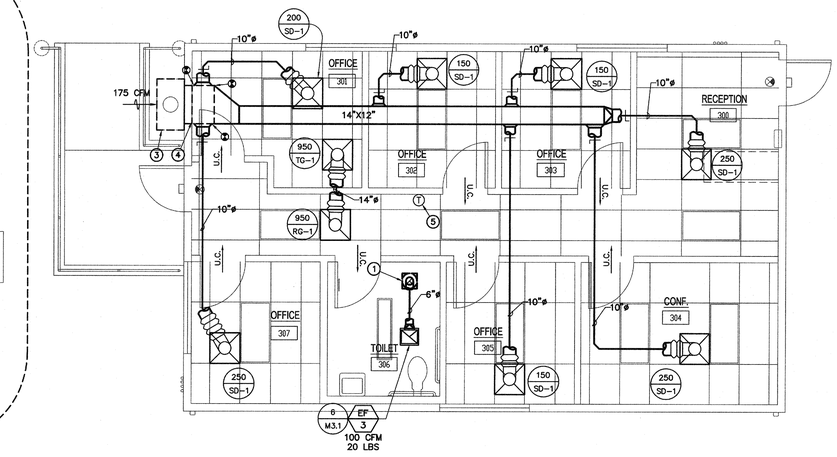
MECHANICAL TITLE AND GENERAL NOTES

drawing no.:
M0.1
drawing of









NORTH

CONSTRUCTION NOTES:

1. FIELD VERIFY ALL EXISTING DUCT DIMENSIONS INDICATED PRIOR TO FABRICATION. PROVIDE ALL TRANSITIONS AS REQUIRED TO CONNECT NEW DUCTWORK TO EXISTING.
2. COORDINATE ENTIRE INSTALLATION OF THE HVAC SYSTEM WITH THE WORK OF ALL OTHER TRADES PRIOR TO ANY FABRICATION OR INSTALLATION. PROVIDE ALL FITTINGS, OFFSETS, AND TRANSITIONS AS REQUIRED FOR A COMPLETE WORKABLE INSTALLATION.
3. COORDINATE THE LOCATIONS OF ALL CEILING DIFFUSERS, REGISTERS AND GRILLES WITH THE ARCHITECTURAL REFLECTIVE CEILING PLAN, ELECTRICAL LIGHTING LAYOUT AND ARCHITECTURAL ROOM ELEVATIONS.
4. CONTRACTOR SHALL VERIFY THE CONDITION OF EXISTING EQUIPMENT, DUCTWORK, ASSOCIATED CONTROLS, AND T-STATS. SHOULD ANY OF THESE ITEMS NOT BE PERFORMING SATISFACTORILY OR MALFUNCTIONING, CONTRACTOR SHALL NOTIFY THE DISTRICT AND PROVIDE PRICE TO ENSURE PROPER OPERATION PRIOR TO COMPLETION OF WORK.
5. BEFORE COMMENCEMENT OF WORK, THE MECHANICAL CONTRACTOR SHALL VERIFY THE EXACT LOCATIONS AND DIMENSIONS OF ALL EXISTING EQUIPMENT AND ELECTRICAL SERVICES IN THE AREA OF NEW CONSTRUCTION AND NOTIFY THE DISTRICT OF ANY DISCREPANCIES.

CONSTRUCTION KEY NOTES:

1. 6"Ø EXHAUST AIR DUCT UP TO ROOF JACK. SEE DETAIL 6, M3.1.
2. NEW 30"X10" RETURN PLENUM INSTALLED AS HIGH AS POSSIBLE UNDER EXISTING 30"X10" SUPPLY PLENUM.
3. (E) 4 TON WALL MOUNTED HEAT PUMP.
4. (E) WALL RETURN GRILLE.
5. RELOCATE (E) THERMOSTAT TO LOCATION SHOWN.
6. ALL HVAC SYSTEMS IN THIS BUILDING ARE EXISTING TO REMAIN.

MECHANICAL FLOOR PLAN

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

tBP
architecture
planning
interiors

tBP/Architecture
4611 Teller Avenue
Newport Beach, CA 92660
ph: 949.673.0300 fx: 949.732.3895

architect

PDS
Project Design Solutions, Inc.

consultant

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP03 119149
AC FLS SS
DATE JAN 7 2019

DSA Los Angeles Regional Office
700 N. Alameda Street, Suite 5-500
Los Angeles, California 90012
ph: (213)897-3995 fx: (213)897-3159/0726

CLOUD PRESCHOOL RELOCATABLES
4444 CLOUD AVENUE
LA CRESCENTA, CALIFORNIA 91214

GLENDALE UNIFIED SCHOOL DISTRICT

owner

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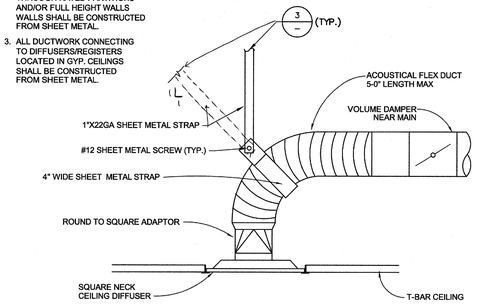
drawing title:
MECHANICAL FLOOR PLAN

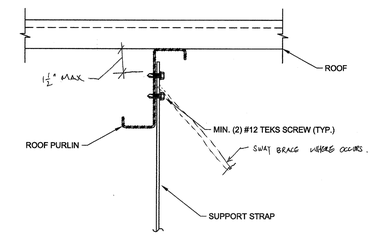
drawing no.:
M2.1
drawing of

NOTE:
1. FLEX DUCT SHALL HAVE MINIMUM 1 DUCT DIAMETER BEND RADIUS.
2. ALL DUCTWORK EXTENDING THROUGH RATED PARTITIONS AND/OR FULL HEIGHT WALLS WALLS SHALL BE CONSTRUCTED FROM SHEET METAL.
3. ALL DUCTWORK CONNECTING TO DIFFUSERS/REGISTERS LOCATED IN GYP. CEILINGS SHALL BE CONSTRUCTED FROM SHEET METAL.



TYP. CEILING DIFFUSER INSTALLATION DETAIL

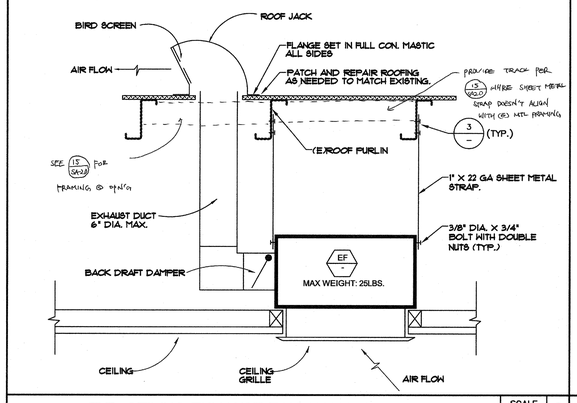
SCALE NONE | 4



NOTES:
1. NO STRAP ATTACHMENTS SHALL BE MADE DIRECTLY TO ROOF.

TYP. HANGER STRAP ATTACHMENT DETAIL

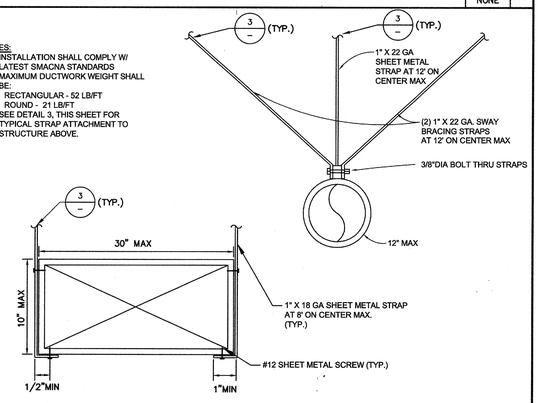
SCALE NONE | 3



TYP. CEILING EXHAUST FAN ANCHORAGE DETAIL

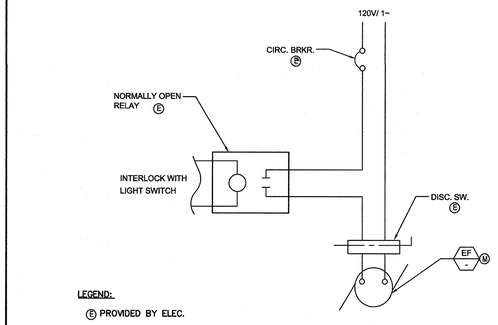
SCALE NONE | 6

NOTES:
1. INSTALLATION SHALL COMPLY W/ LATEST SMACNA STANDARDS
2. MAXIMUM DUCTWORK WEIGHT SHALL BE:
   RECTANGULAR - 52 LB/FT
   ROUND - 21 LB/FT
3. SEE DETAIL 3, THIS SHEET FOR TYPICAL STRAP ATTACHMENT TO STRUCTURE ABOVE.



TYP. DUCT ANCHORAGE DETAIL

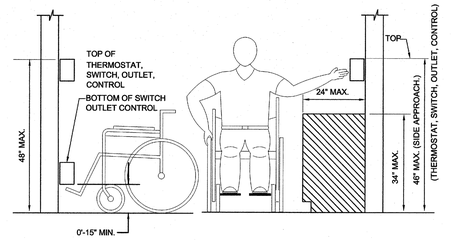
SCALE NONE | 2



LEGEND:
(E) PROVIDED BY ELEC.
(M) PROVIDED BY MECH.

TYP. CEILING EXHAUST FAN WIRING DETAIL

SCALE NONE | 5



NOTES:
1. PROVIDE MIN. 30"X48" CLEAR FLOOR SPACE AT EACH THERMOSTAT FOR PARALLEL OR PERPENDICULAR APPROACH.

CONTROL DEVICE MOUNTING DETAIL

SCALE NONE | 1

tBP
architecture
planning
interiors

IBP/Architecture
4611 Teller Avenue
Newport Beach, CA 92660
ph: 949.673.0300 fx: 949.732.3895

architect

PDS
Pocock Design Solutions Inc.

consultant

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP03 119149
AC FLS SS
DATE JAN 7 2019

DSA Los Angeles Regional Office
700 N. Alameda Street, Suite 5-500
Los Angeles, California 90012
ph: (213)897-3995 fx: (213)897-3159/0726

CLOUD PRESCHOOL RELOCATABLES

4444 CLOUD AVENUE
LA CRESCENTA, CALIFORNIA 91214

GLENDALE UNIFIED SCHOOL DISTRICT

owner

tBP project number : 20778.10

file name:

drawn by: checked by:

date: September 9, 2015

Rev:	date:	description:

drawing title:
MECHANICAL DETAILS

drawing no.:
M3.1
drawing of

GENERAL NOTES

1. BEFORE COMMENCEMENT OF WORK, THE CONTRACTOR SHALL VERIFY THE EXACT LOCATIONS, ELEVATIONS AND CHARACTERISTICS OF ALL UTILITIES AND PIPING, AND SHALL IMMEDIATELY NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.
2. ALL ACCESSIBLE WATER CLOSETS SHALL HAVE FLUSH VALVE WITH HANDLE ON OPEN SIDE.
3. ALL VALVES, UNIONS, ETC. TO BE SAME SIZE AS PIPE UNLESS OTHERWISE INDICATED ON DRAWINGS.
4. ALL PLUMBING FIXTURE VENTS TO TERMINATE A MINIMUM OF 12 INCHES FROM ANY VERTICAL SURFACE AND 10 FEET FROM ANY OUTSIDE AIR INTAKES.
5. EXACT LOCATIONS AND MOUNTING HEIGHTS OF PLUMBING FIXTURES SHALL BE OBTAINED FROM THE ARCHITECTURAL DRAWINGS.
6. CONNECTION BETWEEN INCOMPATIBLE MATERIALS ABOVE GRADE AND INSIDE BUILDING SHALL BE MADE WITH TWO (2) DIELECTRIC UNIONS SEPARATED BY A TWELVE INCH (12") SECTION OF RED BRASS PIPE.
7. ALL CLEANOUTS SHALL BE INSTALLED WHERE READILY ACCESSIBLE. THE CONTRACTOR SHALL COORDINATE ALL CLEANOUT LOCATIONS WITH EQUIPMENT, CABINETS, ETC., AND THE ARCHITECT PRIOR TO ANY INSTALLATION.
8. SEE ARCHITECTURAL DRAWINGS FOR ACCESSIBLE FIXTURE LOCATIONS AND MOUNTING HEIGHTS. INSULATE ALL EXPOSED HOT WATER AND DRAIN PIPING BELOW ACCESSIBLE LAVATORIES AND SINKS.
9. ALL PLUMBING WORK SHALL BE INSTALLED SO AS TO AVOID INTERFERENCE WITH ELECTRICAL AND MECHANICAL EQUIPMENT AND STRUCTURAL FRAMING.
10. ALL WORK AND MATERIAL SHALL BE PERFORMED AND INSTALLED IN COMPLIANCE WITH CALIFORNIA PLUMBING CODE 2016.
11. INSULATION (SEE SPECIFICATION FOR TYPE REQUIRED) AND COVERING ON PIPE AND TUBING SHALL HAVE A FLAME SPREAD RATING NOT TO EXCEED 25 AND A SMOKE DENSITY NOT TO EXCEED 50 WHEN TESTED IN ACCORDANCE WITH 2016 C.B.C. SECTION 719.7.
12. ANY ALTERATIONS TO A STRUCTURAL MEMBER, SUCH AS CUTTING, BORING, BRAZING, DRILLING, WELDING, ETC. SHALL HAVE PRIOR WRITTEN APPROVAL OF ARCHITECT, STRUCTURAL ENGINEER AND DSA.
13. M.E.P. COMPONENT ANCHORAGE NOTE:
    ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2016 CBC, SECTIONS 1616A.1.18 THROUGH 1616A.1.26 AND ASCE 7-10 CHAPTERS 13, 26 AND 30.
    1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
    2. TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER.
    3. MOVABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THAN 400 POUNDS ARE REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.

    THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED NOT BE DETAILED ON THE PLANS. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT.
    A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
    B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

    FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO FOR THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND THE DSA DISTRICT INSPECTOR. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.
14. PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE:
    PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCE AND DISPLACEMENTS PRESCRIBED IN ASCE 7-10 SECTION 13.3, AS DEFINED IN ASCE 7-10 SECTION 13.6.5.6, 13.6.7, 13.6.8, AND 2016 CBC SECTIONS 1616A.1.23, 1615A.1.24, 1616A.1.25, AND 1616A.1.26.

    THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G. SMACNA OR OSHPD OPM), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

    MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

    MP [ ] MD [ ] PP [X] E [ ] – OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

    MP [ ] MD [ ] PP [ ] E [ ] – OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVAL (OPM #) #_____.

    MP [ ] MD [ ] PP [ ] E [ ] – OPTION 3: SHALL COMPLY WITH THE SMACNA SEISMIC RESTRAINT MANUAL, OSHPD EDITION (2009),

    INCLUDING ANY ADDENDA. FASTENERS AND OTHER ATTACHMENTS NOT SPECIFICALLY IDENTIFIED IN THE SMACNA SEISMIC RESTRAINT MANUAL, OSHPD EDITION, ARE DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS. THE DETAILS SHALL ACCOUNT FOR THE APPLICABLE SEISMIC HAZARD LEVEL _____ AND CONNECTION LEVEL _____ FOR THE PROJECT AND CONDITIONS.

FIXTURE SCHEDULE

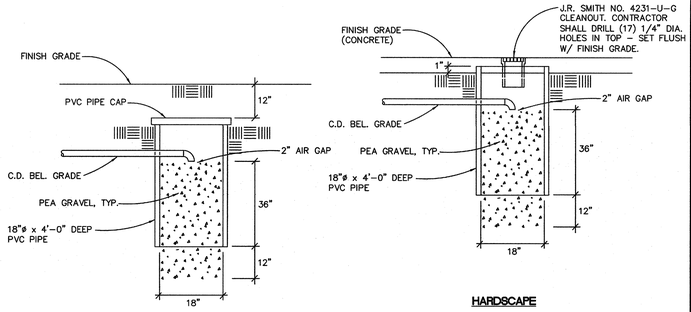
ITEM	FIXTURE	ROUGH-IN CONNECTIONS: TRAP	WASTE	VENT	HOT WATER	COLD WATER	GAS	DESCRIPTION
WC 1	WATER CLOSET (ELEMENTARY, ACCESSIBLE)	INT	4"	2"	--	1"	--	AMERICAN STANDARD (A/S) NO. 3451.001 "MADERA ELONGATED FLUSH VALVE TOILET", SIPHON JET, FLOOR MOUNTED, ELONGATED BOWL, 15" HIGH. COMPLETE WITH SLOAN ROYAL NO. 111-1.28 GPF FLUSH VALVE AND NO. F-190 1-1/2" X 2" OFFSET TUBE OUTLET, A/S NO. 5901.100 SEAT AND A/S BOLT CAPS.
WC 2	WATER CLOSET (ACCESSIBLE)	INT	4"	2"	--	1"	--	AMERICAN STANDARD (A/S) NO. 3461.001 "MADERA 16-1/8" UNIVERSAL HEIGHT ELONGATED FLUSH VALVE TOILET", SIPHON JET, FLOOR MOUNTED, ELONGATED BOWL, 17" HIGH. COMPLETE WITH SLOAN ROYAL NO. 111-1.28 GPF FLUSH VALVE, A/S NO. 5901.100 SEAT AND A/S BOLT CAPS.
L 1	LAVATORY (ELEMENTARY ACCESSIBLE, CW ONLY)	1-1/4"	2"	1-1/2"	--	1/2"	--	AMERICAN STANDARD (A/S) NO. 0321.075.012 "DECLYN WALL HUNG LAVATORY", 18" X 17", WALL HUNG, COMPLETE WITH CHICAGO NO. 857-E2805-665PSHAB METER FAUCET WITH 0.5 GPM NON-AERATING SPRAY, McGUIRE NO. 155A 1-1/4" OUTLET "OPEN GRID P.O. PLUG", LAV GUARD 2 P-TRAP, GALVANIZED NIPPLE AND CHROMIUM PLATED BRASS CASING, CHICAGO NO. 1017-ABCP LOOSE KEY STOP WITH RIGID SUPPLY, AND ZURN NO. Z-1231 CARRIER WITH STEEL PLATE. MOUNT AT ELEMENTARY ADA ACCESSIBLE HEIGHT.
L 2	LAVATORY (ACCESSIBLE, HW/CW)	1-1/4"	2"	1-1/2"	1/2"	1/2"	--	AMERICAN STANDARD (A/S) NO. 0321.075.012 "DECLYN WALL HUNG LAVATORY", 18" X 17", WALL HUNG, COMPLETE WITH CHICAGO NO. 857-E2805-665PSHAB METERING FAUCET WITH 0.5 GPM NON AERATING SPRAY AND VANDAL RESISTANT COVER PLATE, McGUIRE NO. 155A 1-1/4" OUTLET "OPEN GRID P.O. PLUG", LAV GUARD 2 P-TRAP AND SUPPLY COVERS, GALVANIZED NIPPLE AND CHROMIUM PLATED BRASS CASING, CHICAGO NO. 1017-ABCP LOOSE KEY STOPS WITH RIGID SUPPLIES, AND ZURN NO. Z-1231 CARRIER WITH STEEL PLATE. MOUNT AT ADA ACCESSIBLE HEIGHT.
S 1	SINK (CLASSROOM, ACCESSIBLE, STAINLESS STEEL, CW ONLY)	1-1/2"	2"	1-1/2"	--	3/4"	--	HAWS NO. 4210ADA "SINK" LESS STRAINER, 25" X 17" X 5" DEEP, SINGLE COMPARTMENT, 18 GAUGE TYPE 302 STAINLESS STEEL, SELF-RIMMING, COMPLETE WITH CHICAGO NO. 748-665ABCP BUBBLER, CHICAGO NO. 350-E35-244ABCP FAUCET WITH 1.5 GPM AERATOR, McGUIRE NO. 152 1-1/2" OUTLET "WIDE TOP SINK STRAINER", LAV GAURD 2 P-TRAP, GALVANIZED NIPPLE AND CHROMIUM PLATED BRASS CASING, AND CHICAGO NO. 1017-ABCP LOOSE KEY STOP WITH RIGID SUPPLY. MOUNT IN ACCORDANCE WITH ADA REQUIREMENTS.
WH 1	WATER HEATER	--	--	--	--	1/2"	--	CHRONOMITE NO. M-20L/208-MM "INSTA-FLOW MICRO MIX – LOW FLOW" INSTANTANEOUS DOMESTIC WATER HEATER, 208V/1Ph/60Hz, 20 AMP 4160 WATTS, 60 DEG F INLET, 104 DEG F OUTLET, 8 LBS., MUST HAVE ASHRAE STICKER OR OTHERWISE COMPLY WITH TITLE 24 REQUIREMENTS FOR SERVICE WATER HEATERS.

LEGEND

SYMBOL	ABBREVIATION	DESCRIPTION
	S OR W	SOIL OR WASTE BELOW FLOOR OR GRADE
	V	SANITARY VENT
	CW	COLD WATER
	HW	HOT WATER
CD	CD	CONDENSATE DRAIN
		DIRECTION OF FLOW
	SOV	SHUT-OFF VALVE
	SOV	SHUT-OFF VALVE IN YARD BOX
	FCO	FLOOR CLEANOUT
	WCO	WALL CLEANOUT
		RISER UP
		RISER DOWN
	ABV	ABOVE
	AP	ACCESS PANEL
	BEL	BELOW
	CLG	CEILING
	CONT	CONTINUATION
	COTG	CLEANOUT TO GRADE
	DN	DOWN
	FLR	FLOOR
	I.E.	INVERT ELEVATION
	POC	POINT OF CONNECTION
	PLCS	PLACES
	SLVE	SLEEVE
	VTR	VENT THRU ROOF
	PLCS	PLACES

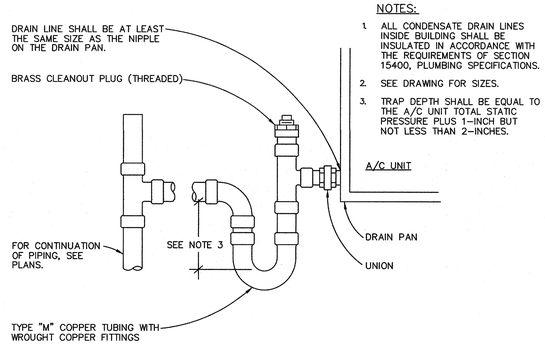
MATERIALS

1. SANITARY SOIL WASTE AND VENT SYSTEM BELOW GRADE: PIPING WITHIN THE BUILDING ITSELF AND OUTSIDE WITHIN FIVE FEET (5') OF THE FOUNDATION, SHALL BE ABS PIPE WITH SOLVENT WELD FITTINGS, DRAINAGE PATTERN AS APPROVED BE THE UNIFORM PLUMBING CODE.
2. WATER PIPING BELOW GRADE OUTSIDE THE BUILDING SHALL BE SCHEDULE 80 PVC.
3. WATER PIPING WITHIN THE BUILDING AND ABOVE GRADE SHALL BE TYPE "L" ASTM B88, HARD DRAWN COPPER TUBING WITH WROUGHT COPPER SWEAT FITTINGS ANSI B16.22 WITH 95-5 SILVER SOLDIER.
4. INDIRECT AND CONDENSATE DRAINS SHALL BE TYPE "M" ASTM B88, HARD DRAWN COPPER TUBING WITH WROUGHT COPPER SWEAT FITTINGS ANSI B16.22 WITH 95-5 SILVER SOLDIER.
5. CLEANOUTS: SHALL BE MANUFACTURED BY J.R. SMITH, ZURN OR JOSAM AS FOLLOWS:
   A. FINISHED ROOM FLOORS: J.R. SMITH NO. 4163 W/ N.B. TOP AND GASKETED WATERTIGHT COVER.
   B. WALLS: J.R. SMITH 4532 W/ BRONZE PLUG AND CHROME PLATED COVER.
   C. YARD AND PARKING LOT: J.R. SMITH NO. 4253 CAST IRON SURFACE LEVEL CLEANOUT.
6. VALVES: GATE VALVES 1-1/2" AND SMALLER SHALL BE NIBCO NO. T-113-LF, GATE VALVES 2" TO 3" SHALL BE NIBCO NO. F-607-RW OS&Y, BALL VALVES 2" AND SMALLER SHALL BE NIBCO NO. T-685-66-LF.
7. BEFORE ANY USE OF SYSTEM IS MADE FOR DOMESTIC PURPOSES, IT SHALL BE STERILIZED BY SLOWLY FILLING WITH WATER TO WHICH A STERILIZING AGENT HAS BEEN APPLIED, AT A RATE GIVING 50 PPM OF CHLORINE, AS DETERMINED BY RESIDUAL CHLORINE TEST AT EXTREMITIES OF THE LINE. AFTER LINES HAVE BEEN FILLED FOR A PERIOD OF THREE (3) HOURS, TESTS FOR RESIDUAL CHLORINE SHALL SHOW NOT LESS THAN 50 PPM. IF LESS THAN 50 PPM IS INDICATED, DRAIN OR FLUSH OUT THE LINE AND REPEAT STERILIZATION TREATMENT UNTIL TESTS INDICATE AT LEAST 50 PPM OF RESIDUAL CHLORINE AFTER THREE (3) HOURS. THE LINES SHALL BE FLUSHED UNTIL ALL TRACES OF CHEMICAL HAVE BEEN REMOVED.



DRYWELL DETAIL

SCALE NONE | 2



CONDENSATE TRAP DETAIL

SCALE NONE | 1

tBP architecture planning interiors
tBP/Architecture
4611 Teller Avenue
Newport Beach, CA 92660
ph: 949.673.0300 fx: 949.732.3895
architect

PDS Pocock Design Solutions Inc.
consultant

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP03 119149
AC FLS SS
DATE JAN 7 2016

DSA Los Angeles Regional Office
700 N. Alameda Street, Suite 5-500
Los Angeles, California 90012
ph: (213)897-3995 fx: (213)897-3159/0726

CLOUD PRESCHOOL RELOCATABLES
4444 CLOUD AVENUE
LA CRESCENTA, CALIFORNIA 91214
GLENDALE UNIFIED SCHOOL DISTRICT
owner

tBP project number : 20778.10
file name:
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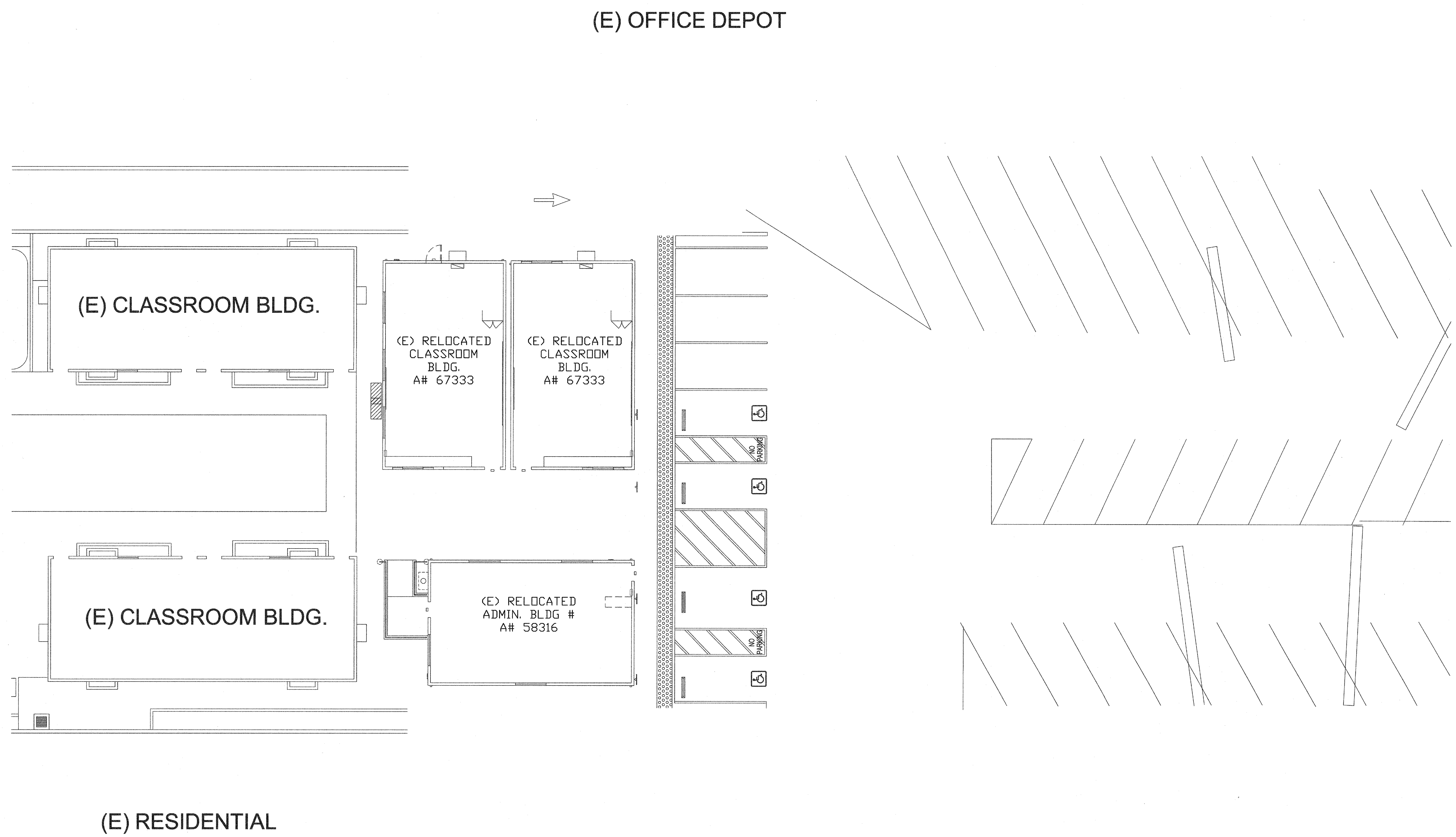
date: September 9, 2015

Rev:	date:	description:

drawing title:
PLUMBING LEGEND, SCHED. & GEN. NOTES

drawing no.:
P0.1
drawing of



NORTH

SCALE 1"=10'

1 PLUMBING SITE PLAN

tBP/Architecture
4611 Teller Avenue
Newport Beach, CA 92660
ph: 949.673.0300 fx: 949.732.3895

architecture
planning
interiors

architect

consultant

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APP03 119149
AC ___ FLS ___ SS ___
DATE JAN 7 2019

DSA Los Angeles Regional Office
700 N. Alameda Street, Suite 5-500
Los Angeles, California 90012
ph: (213)897-3995 fx: (213)897-3159/0726

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4444 CLOUD AVENUE
LA CRESCENTA, CALIFORNIA 91214

GLENDALE UNIFIED SCHOOL DISTRICT

owner

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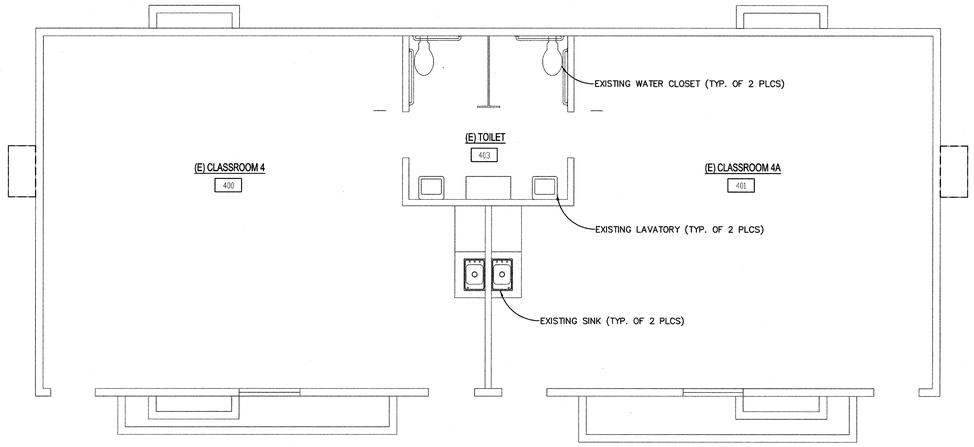
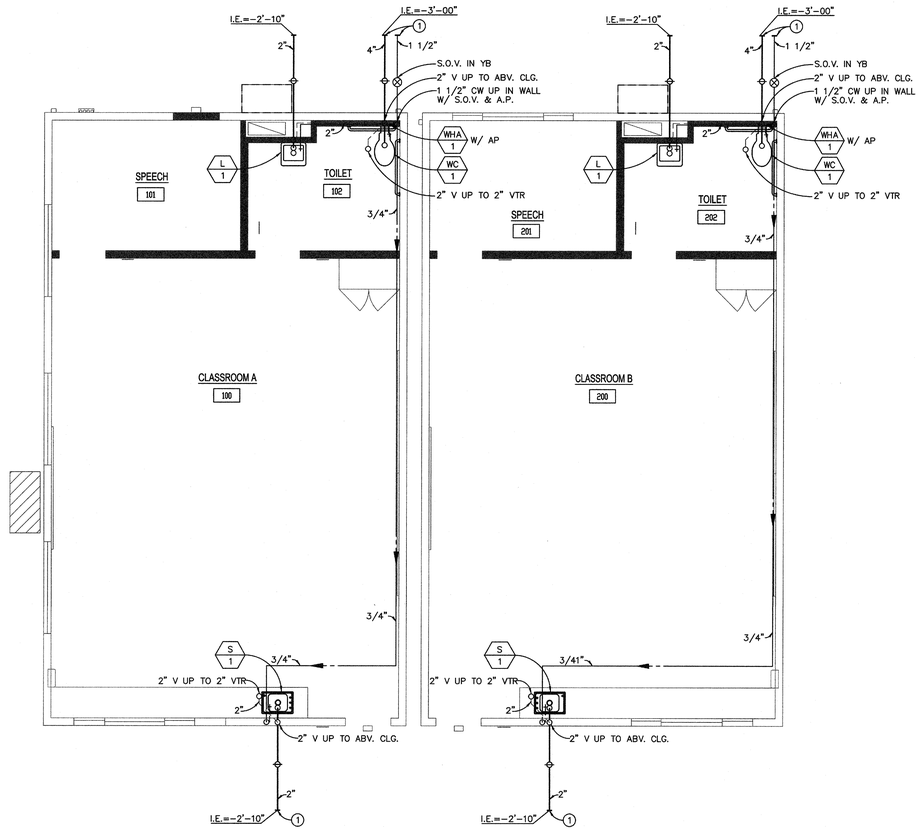
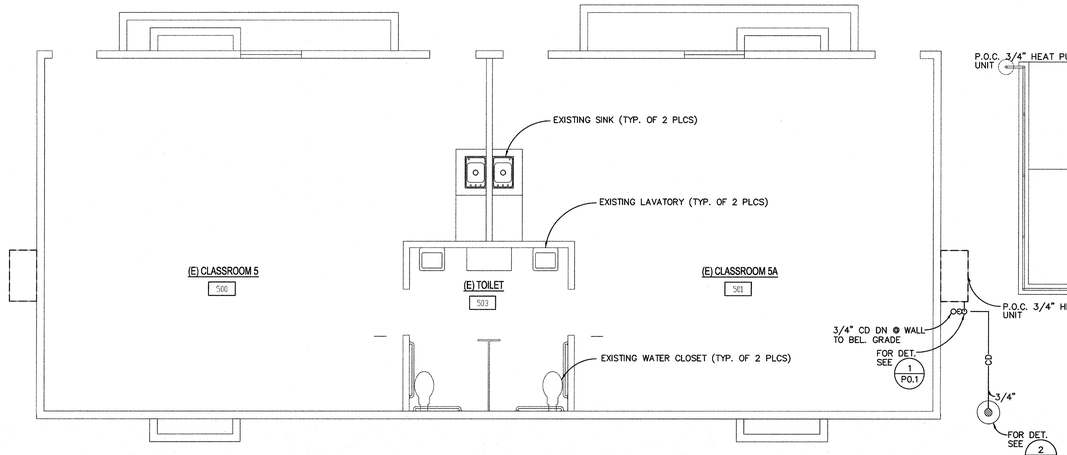
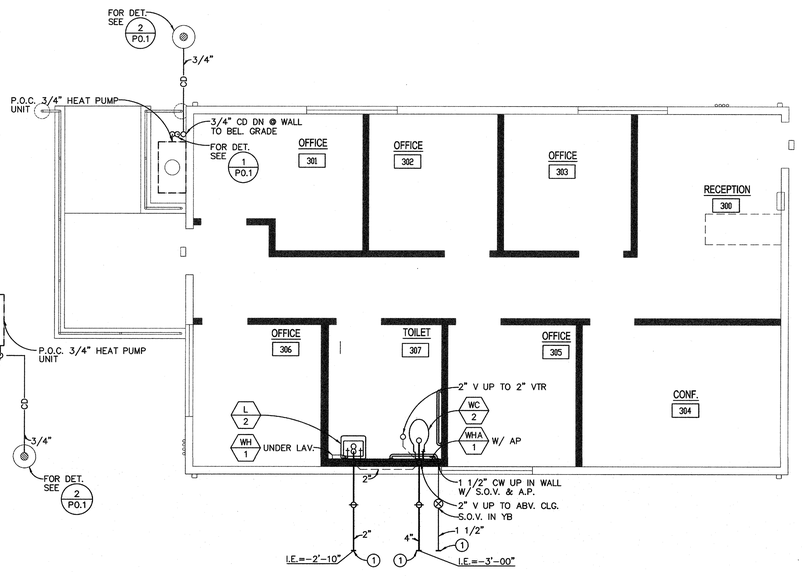
PLUMBING SITE PLAN

drawing no.:
P1.0
drawing of









CONSTRUCTION KEY NOTES:

(1) FOR CONTINUATION OF ALL UTILITIES SEE CIVIL ENGINEERING DRAWINGS.

NORTH

PLUMBING FLOOR PLAN

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

tBP architecture planning interiors

IBP/Architecture
4611 Teller Avenue
Newport Beach, CA 92660
ph: 949.673.0300 fx: 949.732.3895

architect

PDS Pocock Design Solutions Inc.

consultant

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP03 119149
ACCT FLS SS
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DSA Los Angeles Regional Office
700 N. Alameda Street, Suite 5-500
Los Angeles, California 90012
ph: (213)897-3995 fx: (213)897-3159/0726

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4444 CLOUD AVENUE
LA CRESCENTA, CALIFORNIA 91214

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Rev:	date:	description:

drawing title:
PLUMBING FLOOR PLAN

drawing no.:
P2.1
drawing of

FIRE ALARM BATTERY CALCULATIONS

FIRE ALARM CONTROL PANEL "FACP"

DEVICE		STAND-BY CURRENT	ALARM CURRENT
(1)	CONTROL	0.650	0.650
(1)	NCA-2	0.100	0.225
(21)	SMOKE DETECTOR	0.0045	0.090
(27)	HEAT DETECTOR	0.0051	0.102
(6)	75cd STROBE	-----	0.948
(15)	15cd STROBE	-----	0.990
	TOTAL	0.7596	3.005

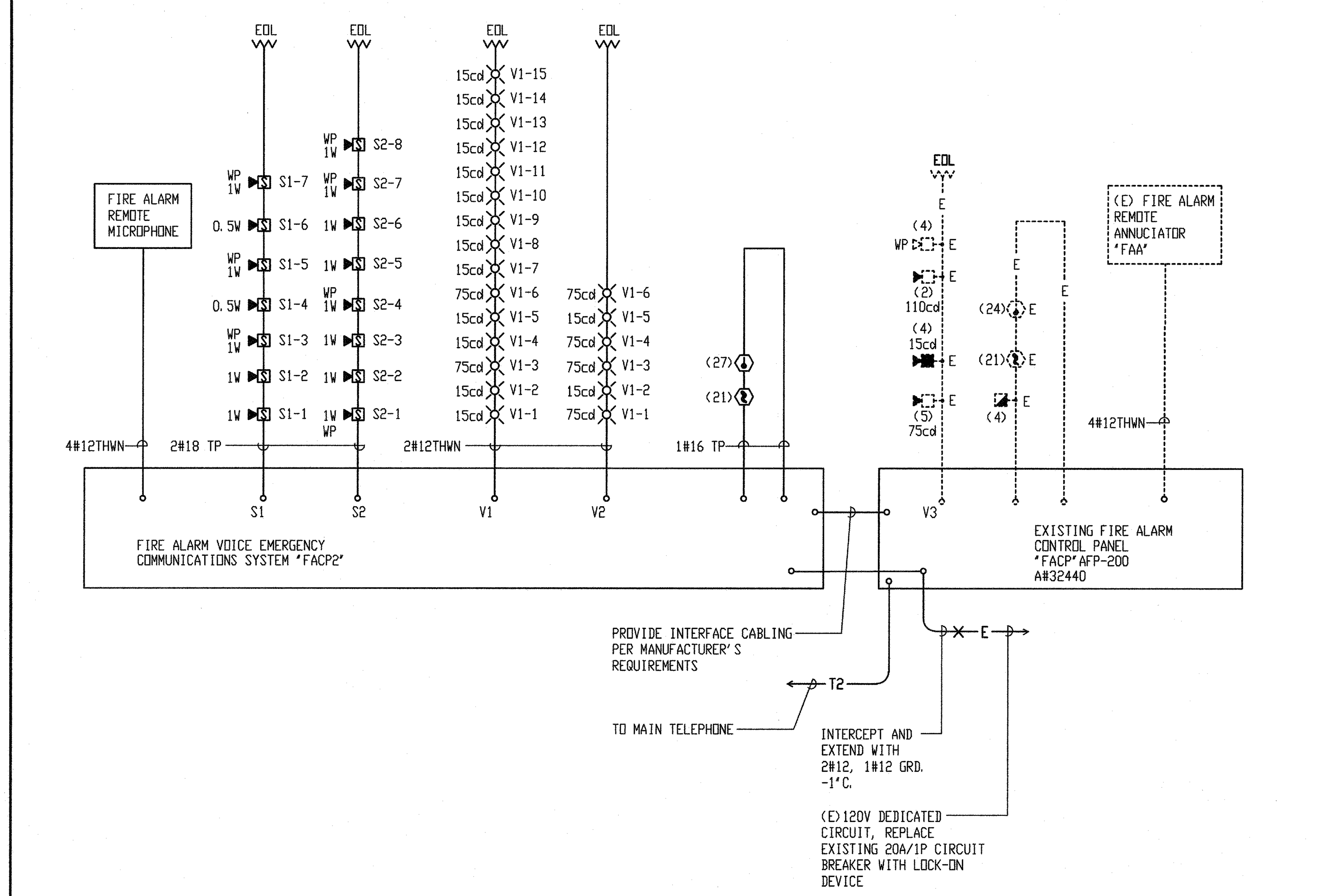
TOTAL NEW STANDBY CURRENT X 60 HOURS = 0.7596A x 60 HOURS = 45.576 A-HR
TOTAL NEW ALARM CURRENT X 10 MINUTES = 2.881A x 0.167HR = 0.7202 A-HR

TOTAL MINIMUM AMPERE - HOUR RATING OF BATTERIES = 46.2962 A-HR

NOTES:

1. BATTERY CALCULATION SHALL BE BASED ON A MINIMUM OF 60.0 HOURS STANDBY AND 10 MINUTES ALARM.
2. PROVIDE A MINIMUM OF 80 A-HR OF NEW BATTERY STANDBY POWER.

FIRE ALARM SINGLE LINE RISER DIAGRAM



FIRE ALARM EQUIPMENT SCHEDULE

ITEM DESCRIPTION	SYMBOL	MOUNTING	CATALOG NUMBER	CSFM LISTING NUMBERS	NOTES
FIRE ALARM CONTROL PANEL 'FACP' WITH BUILT-IN UDACT-2 DIGITAL VOICE COMMANDER, PAGING MICRIPHONE, AMPLIFIER, POWER SUPPLY		+48"	NOTIFIER NFS2-640	7165-0028:0243	0.650A 0.650A
FIRE ALARM NETWORK REMOTE ANNUNCIATOR 'FAAP'		+60" TO TOP OF CABIENT	NOTIFIER NCA-2	7165-0028:0224	0.100A 0.225A
FIRE ALARM REMOTE MICROPHONE 'RM'		+60" TO TOP OF CABIENT	NOTIFIER DVC-RPU	7165-0028:0224	0.040A 0.160A
FIRE ALARM INTELLIGENT AMPLIFER 'AMP_'		FIELD VERIFY LOCATION	NOTIFIER DAA2-5070E	7165-0028:0224	0.085A 0.525A
SMOKE DETECTOR ON FLUSH CEILING MOUNTED OUTLET BOX		CEILING	NOTIFIER FSP-851 B210LP BASE	7272-0028:0206	0.0003A 0.006A
HEAT DETECTOR ON SURFACE CEILING MOUNTED OUTLET BOX		ATTIC	NOTIFIER FST-851 B210LP BASE	7270-0028:0196	0.0003A 0.006A
SPEAKER ON WALL MOUNTED WEATHERPROOF OUTLET BOX	WP S 0.5W 1W	+96"	SYSTEM SENSOR SPRK	7320-1653:0201	0.02A, 0.04A
SPEAKER AND VISUAL DEVICE ON FLUSH CEILING MOUNTED OUTLET BOX	15cd 75cd 0.5W, 1W	CEILING	SYSTEM SENSOR SPSC SERIES	7125-1653:0188	15 & 75 CANDELA MINIMUM PER U.L. STANDARD 1971 0.066A, 0.158A, 0.02A, 0.02A, 0.04A
VISUAL DEVICE ON FLUSH CEILING MOUNTED OUTLET BOX	15cd	CEILING	SYSTEM SENSOR SC SERIES	7125-1653:0186	15 CANDELA MINIMUM PER U.L. STANDARD 1971 0.066A
EXISTING WEATHERPROOF HORN PER A#32440 TO REMAIN.	WP E				0.069A
EXISTING HORN/STROBE PER A#32440 TO REMAIN	E 110cd 75cd				0.212A 0.176A
EXISTING STROBE PER A#32440 TO REMAIN	E 15cd				0.066A
EXISTING HEAT DETECTOR PER A#32440 TO REMAIN	E				
EXISTING SMOKE DETECTOR PER A#32440 TO REMAIN	E				
EXISTING MANUAL PULL STATION PER A#32440 TO REMAIN	E				

FIRE ALARM SYSTEM NOTES

FIRE ALARM COMPLETE PLAN SUBMITTAL

1.0 PROJECT INFORMATION

A. OCCUPANCY GROUP

REFER TO ARCHITECTURAL DRAWING.

B. CONSTRUCTION TYPE

REFER TO ARCHITECTURAL DRAWING.

C. PENETRATIONS OF FIRE RATED WALLS SHALL BE PROTECTED IN ACCORDANCE WITH CALIFORNIA BUILDING CODE, PART 2, CHAPTER 7, TITLE 24. REFER TO THE ARCHITECTURAL PLANS FOR FIRE-RATE CORRIDOR(S), OCCUPANCY SEPARATION(S) AND AREA SEPARATION WALL(S).

D. UPON COMPLETION OF SYSTEM INSTALLATION, THE SYSTEM SHALL BE TESTED IN THE PRESENCE OF AND IN A MANNER ACCEPTABLE TO THE ENFORCING AGENCY.

E. PROVIDE A STATEMENT OF COMPLIANCE WHEN REQUESTING INSPECTION CFC 901.2.1

F. THE FIRE ALARM SYSTEM DESIGN FOR THIS PROJECT IS ADDRESSABLE AND FULLY AUTOMATIC.

2.0 APPLICABLE CODES AND STANDARDS

A. APPLICABLE CODES AS OF JANUARY 1, 2014

2016 BUILDING STANDARDS ADMINISTRATIVE CODE, PART 1, TITLE 24 C.C.R.
2016 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R.;

2016 CALIFORNIA AMENDMENTS)
2016 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R.; (2011 NATIONAL ELECTRICAL CODE AND 2016 CALIFORNIA AMENDMENTS)
2016 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 C.C.R.; (2012 UNIFORM MECHANICAL CODE AND 2016 CALIFORNIA AMENDMENTS)
2016 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 C.C.R.; (2012 UNIFORM PLUMBING CODE AND 2016 CALIFORNIA AMENDMENTS)
2016 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 C.C.R.: (2012 INTERNATIONAL FIRE CODE AND 2016 CALIFORNIA AMENDMENTS)
2016 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24 C.C.R. TITLE 19, CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS.
2016 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 C.C.R.
2007 ASME A17.1 (W/A17.1A/CSA B44A-08 ADDENDA) SAFETY CODE FOR ELEVATORS AND ESCALATORS

PARTIAL LIST OF APPLICABLE STANDARDS:

NFPA 13 AUTOMATIC SPRINKLER SYSTEMS 2016 EDITION
NFPA 14 STANDPIPE SYSTEMS 2016 EDITION
NFPA 17 DRY CHEMICAL EXTINGUISHING SYSTEMS 2016 EDITION
NFPA 17A WET CHEMICAL SYSTEMS 2016 EDITION
NFPA 20 STATIONARY PUMPS 2016 EDITION
NFPA 24 PRIVATE FIRE MAINS (INCLUDED IN 2002 NFPA 13) 2016 EDITION
NFPA 72 NATIONAL FIRE ALARM CODE (CALIFORNIA 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 2006 EDITION
NFPA 2001 CLEAN AGENT FIRE EXTINGUISHING SYSTEMS 2012 EDITION

REFERENCE CODE SECTION FOR NFPA STANDARDS-2016 CBC (SFM) CHAPTER 35. SEE CHAPTER 35 FOR STATE OF CALIFORNIA AMENDMENTS TO NFPA STANDARDS.

3.0 UPON RECEIPT OF THE CERTIFICATE OF COMPLIANCE, THE INSTALLER SHALL SUPPLY THE OWNER WITH A WRITTEN OPERATING, TESTING AND MAINTENANCE INSTRUCTIONS, POINT-TO-POINT AS BUILD DRAWINGS AND EQUIPMENT SPECIFICATIONS.

4.0 NFPA 72 CHAPTER 10,14 INSPECTION TESTING AND MAINTENANCE (2016) COMPLETE THE INSPECTION AND TESTING FORM IN ITS ENTIRETY SUBMIT A COPY TO THE DISTRICT, ARCHITECT AND DSA DIVISION OF FIRE AND LIFE SAFETY.

5.0 MANUAL FIRE ALARM BOXES SHALL COMPLY WITH CBC SECTIONS 907.4.2, 907.4.2.1 THROUGH 907.4.2.6.

FIRE ALARM NOTE:

FIRE ALARM SUBMITTAL IS A COMPLETE PLAN SUBMITTAL IN ACCORDANCE WITH PROJECT SUMITTAL GUIDELINE, GL-2 (FLS) DATED 2/10/11

FIRE ALARM VOLTAGE DROP CALCULATIONS

INDICATING CIRCUIT #	SERVICE TO	CONTROL PANEL TO BUILDING LENGTH (FEET)	CONTROL PANEL TO BUILDING CONDUCTOR SIZE (AWG)	DEVICE LOADS AMPS	LOAD CURRENT (AMPS)	VOLTS DROPPED (PERCENT)
S1	SPEAKER CIRCUIT	450'	18	2 @ 0.020 5 @ 0.040	0.240	2.057%
V1	VISUAL CIRCUIT	450'	12	13@ 0.066 2 @ 0.158	1.174	7.281%
S2	SPEAKER CIRCUIT	400'	18	7 @ 0.040	0.280	1.544%
V2	VISUAL CIRCUIT	400'	12	2 @ 0.066 4 @ 0.158	0.764	4.212%

FORMULA: $\frac{\text{AMPS} \times \text{DISTANCE} \times 21.6}{\text{CIRC. MILS.}} \times \frac{100}{\text{VOLTS}} = \text{PERCENT DROP}$

CIRCUIT V1: $\frac{1.174 \times 450' \times 21.6}{6530} \times \frac{100}{24} = 7.281\%$

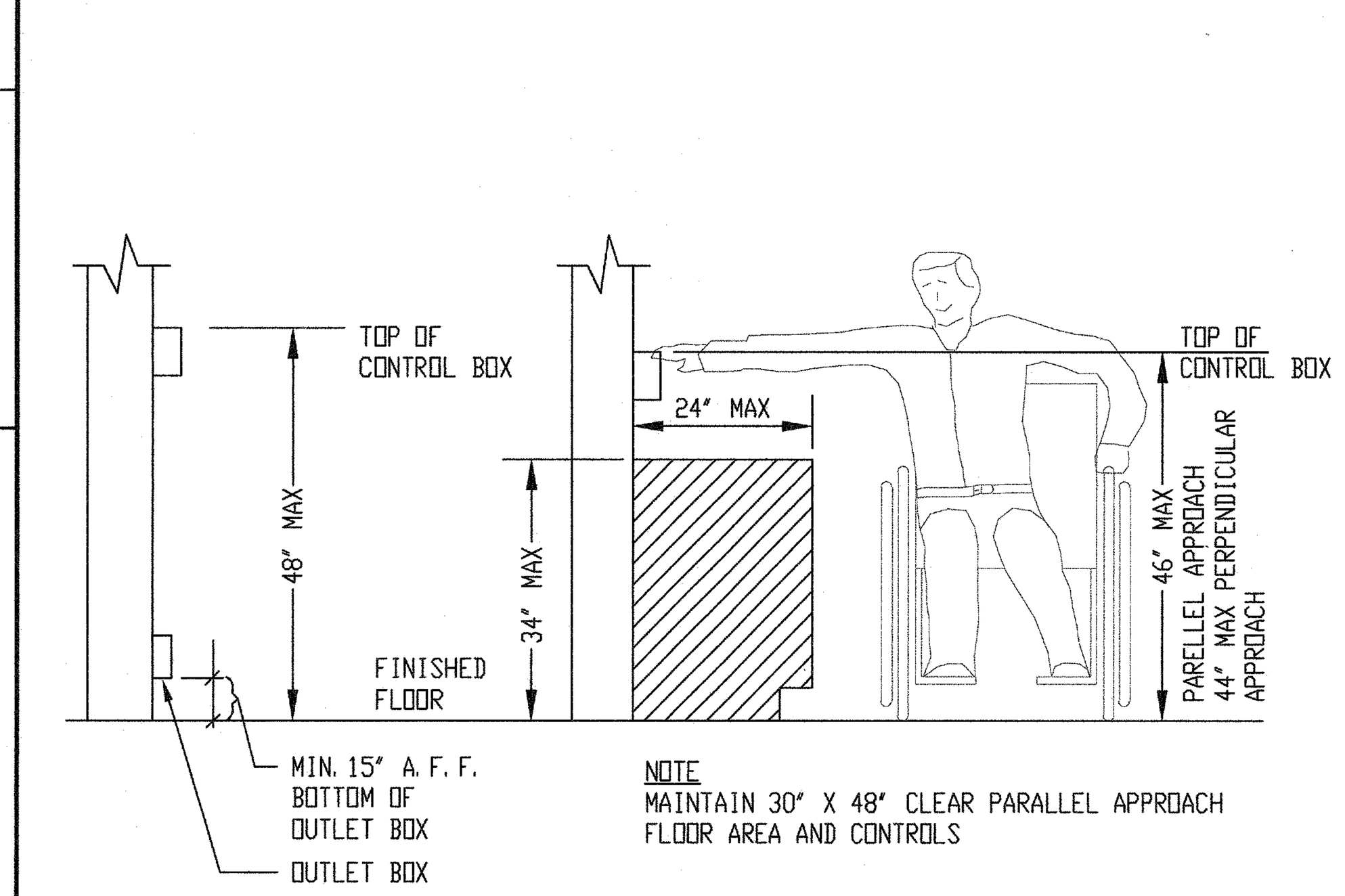
CIRCUIT S1: $\frac{0.240 \times 450' \times 21.6}{1620} \times \frac{100}{70} = 2.057\%$

CIRCUIT V2: $\frac{0.764 \times 400' \times 21.6}{6530} \times \frac{100}{24} = 4.212\%$

CIRCUIT S2: $\frac{0.280 \times 400' \times 21.6}{1620} \times \frac{100}{70} = 1.544\%$

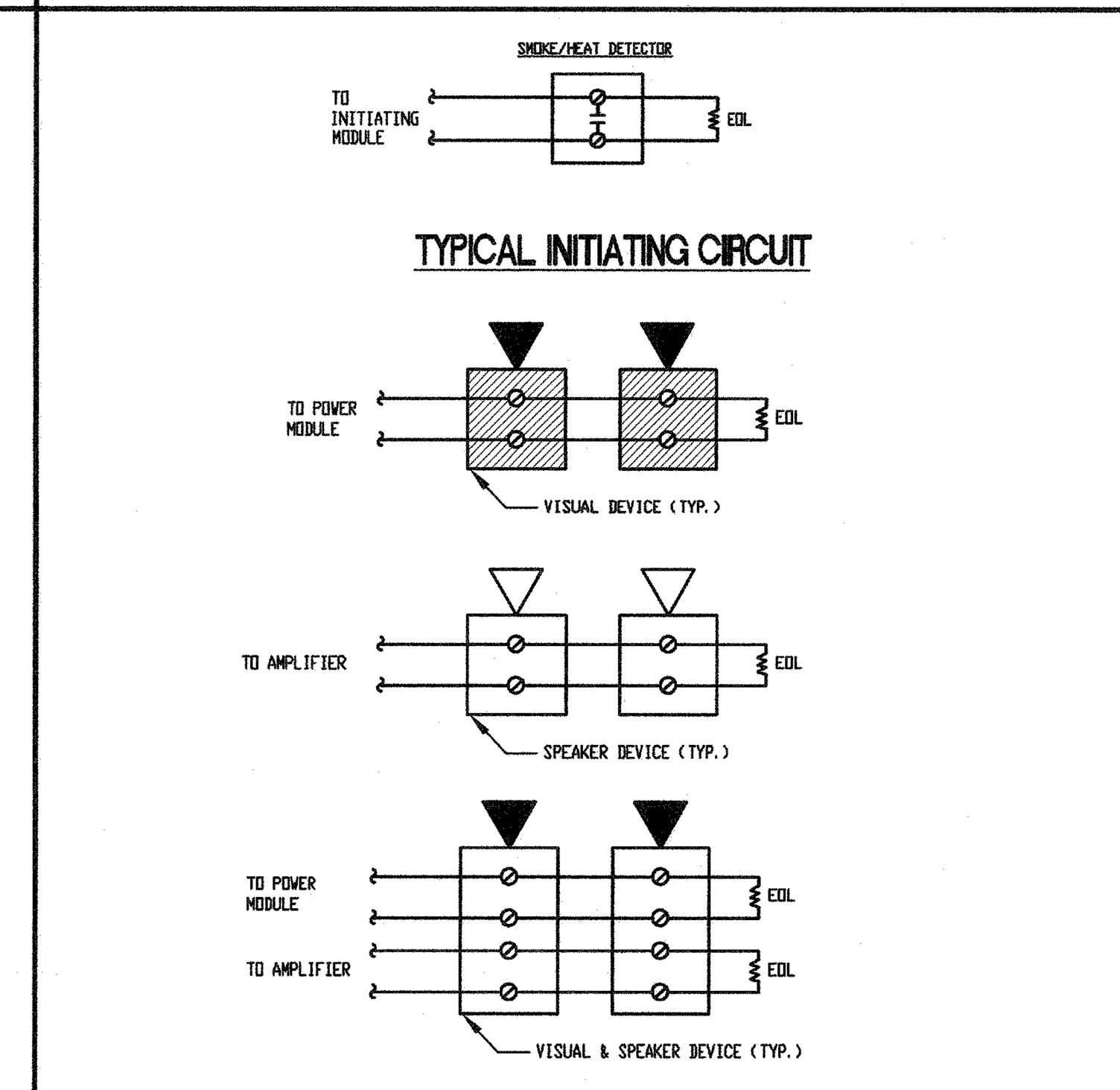
MOUNTING HEIGHT OVER OBSTRUCTION

SCALE NONE — B



NOTE: MAINTAIN 30" X 48" CLEAR PARALLEL APPROACH FLOOR AREA AND CONTROLS

FIRE ALARM WIRING DIAGRAM



TYPICAL NOTIFICATION CIRCUIT

PERFORMANCE NOTES

1. VISIT THE SITE PRIOR TO BID AND INVESTIGATE THE EXISTING FIRE ALARM, TELEPHONE, INTRUSION DETECTION, AND DATA SYSTEMS EQUIPMENT ON CAMPUS. COORDINATE WITH THE EXISTING SYSTEMS MANUFACTURERS FOR ALL REQUIRED EQUIPMENT MODIFICATIONS, CONDUIT, WIRING AND UPGRADING REQUIRED TO EXTEND THE EXISTING SYSTEMS TO THE NEW MODULAR BUILDINGS. INCLUDE ALL COSTS IN BID. ALL NEW COMPONENTS SHALL BE COMPATIBLE WITH THE EXISTING SYSTEM.

2 WHERE RACEWAYS BECOME EXPOSED TO VIEW ON THE INTERIOR OF BUILDINGS, THE CONTRACTOR SHALL PROVIDE WIREMOLD OR EQUAL TWO-PIECE, SURFACE MOUNTED STEEL RACEWAYS PAINTED TO MATCH SURROUNDING SURFACE COLOR. THE MINIMUM INTERIOR AREA OF THE SURFACE RACEWAY SHALL MATCH OR EXCEED THE INTERIOR AREA OF THE CONDUIT SIZE INDICATED ON THE DRAWINGS.

3 PAINT ALL EXPOSED RACEWAYS TO MATCH SURROUNDING SURFACE COLOR.

4 PROVIDE GROUNDING SYSTEM PER DETAIL "A" THIS SHEET. WHERE METAL RAMPS OR RAILWAYS ARE USED PROVIDE 1#2 BONDING ELECTRODE FROM THE RAMPS AND RAILWAYS TO THE STRUCTURAL STEEL MEMBER OF THE BUILDING.

5 PROVIDE WEATHERPROOF SEALANT AROUND PRECAST CONCRETE PULL BOX COVERS AFTER WORK IS COMPLETED WITHIN BOX.

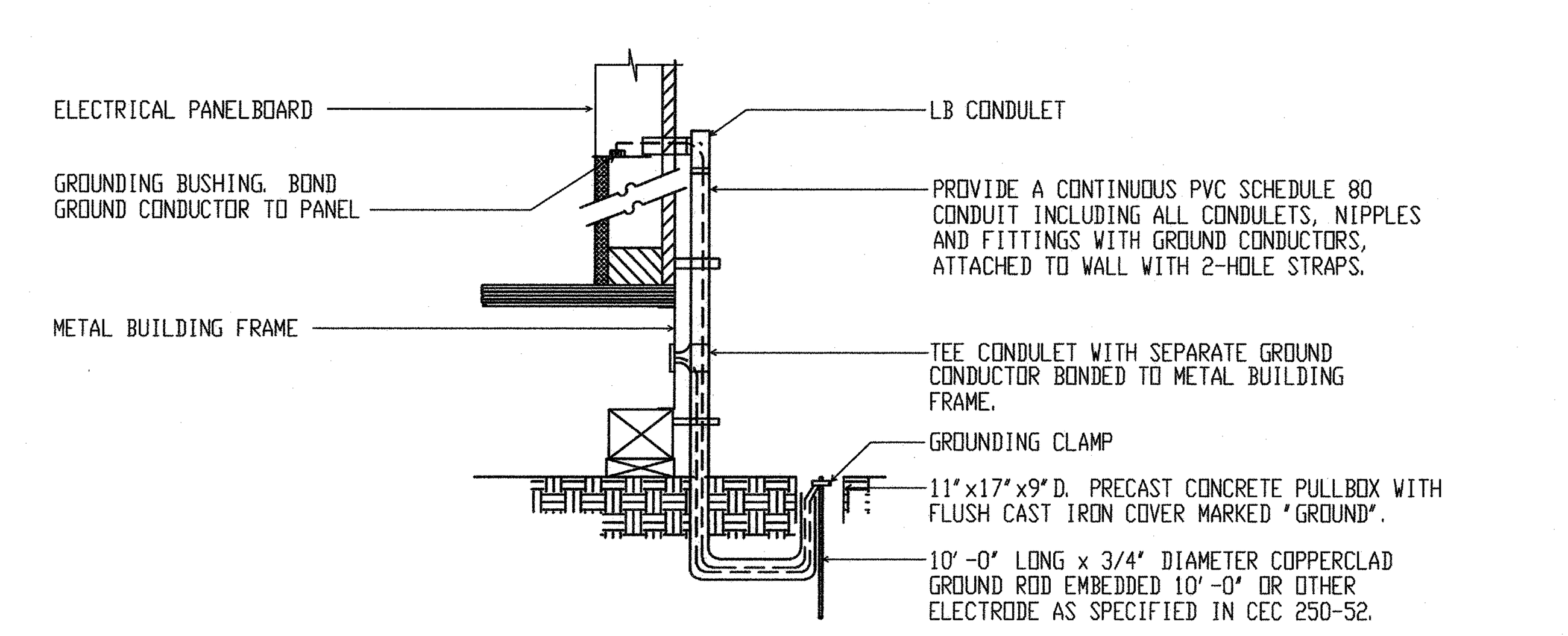
7 PROVIDE CORE DRILLING OF ALL STRUCTURES AS REQUIRED FOR RACEWAY ROUTING AND DISCOVERED SITE CONDITIONS.

8 RECONNECT EXISTING CIRCUITS FOR EQUIPMENT THAT IS TO REMAIN IF DISRUPTED BY WORK PERFORMED UNDER THIS CONTRACT. MAINTAIN CONTINUITY OF ALL FEED THRU WIRING.

9 WHERE NEW CONDUCTOR(S)/CABLING IS SPECIFIED IN EXISTING CONDUITS CONTAINING EXISTING WIRING THE CONTRACTOR SHALL REMOVE ENOUGH OF THE EXISTING WIRING TO PULL IN NEW PLUS REPLACEMENT OF EXISTING REMOVED.

MODULAR BUILDING GROUND DETAIL

SCALE NONE — A



NOTES:

1. SIZE OF CONDUCTORS SHALL COMPLY WITH CEC. TABLE 250-66.
2. BOND SEPARATE CONDUCTORS FROM GROUND ROD TO ELECTRICAL PANEL, AND TO METAL BUILDING FRAME (CEC. 250-104). PROVIDE BONDING CONDUCTOR BETWEEN THE BUILDING FRAME AND THE STEEL RAMPS. IN ADDITION TO THE DETAIL SHOWN ABOVE, BOND THE ELECTRICAL CONDUCTOR GROUND TO METAL WATER PIPE EMBEDDED AT LEAST 10 FEET INTO THE SOIL IF AVAILABLE (CEC. 250-90 THROUGH 250-106).
3. ALL MODULES OF METAL FRAME BUILDINGS AND RAMPS SHALL BE ELECTRICALLY BONDED TOGETHER (BOLTING ONLY IS NOT ACCEPTABLE BONDING).
4. CHECK RESISTANCE TO GROUND. IF RESISTANCE EXCEEDS 25 OHMS, INSTALL ADDITIONAL GROUND RODS WITH CONDUCTORS AS SHOWN, SEPARATED AT LEAST 6'-0" UNTIL RESISTANCE IS REDUCED TO 25 OHMS OR LESS. (CEC. 250-56).
5. SEE SPECIFICATIONS FOR TESTING OF GROUNDING REQUIRED.
6. STEEL RAMPS AND OTHER METAL COMPONENTS ATTACHED TO PORTABLE BUILDING(S) SHALL BE BONDED TO THE BUILDING FRAME.
7. ALL ELECTRICAL WORK TO MEET THE REQUIREMENTS OF THE STATE ELECTRICAL CODES. PART 3 OF TITLE 24, CAC, WHICH REQUIRES PROPER GROUNDING OF ALL ELECTRICAL CIRCUITS, EQUIPMENT, ETC. FOR PUBLIC SCHOOL BUILDING(S), REGARDLESS OF THE TYPE OF CONSTRUCTION.
8. METAL MODULAR BUILDINGS. WHEN METAL BUILDINGS ARE MADE OF COMPONENTS, EACH BUILDING COMPONENT, INCLUDING STEEL RAMPS, MUST BE ELECTRICALLY BONDED TOGETHER IN A MANNER ACCEPTABLE TO OSA/SSS. PAINT ON THE SURFACE WILL INHIBIT PASSAGE OF ELECTRICAL CURRENT; THEREFORE, BOLTED CONNECTIONS OF COMPONENT PARTS ARE NOT AN ACCEPTABLE ELECTRICAL BOND.
9. WOOD MODULAR BUILDINGS. IN WOOD FRAME MODULAR BUILDINGS, THE ELECTRICAL SYSTEM MUST BE GROUNDED AS REQUIRED IN TITLE 24, CAC.
10. GROUNDING. THE ELECTRICAL CIRCUITS ARE USUALLY PROPERLY GROUNDED, HOWEVER, IT IS ALSO NECESSARY TO INDEPENDENTLY GROUND THE STEEL FRAMES. THIS IS PARTICULARLY IMPORTANT WHEN THE BUILDING IS SUPPORTED ON A FOUNDATION MADE OF WOOD.

ALL BUILDING COMPONENTS MUST BE ELECTRICALLY BONDED TOGETHER AND MUST BE INDEPENDENTLY GROUNDED. ALL GROUNDING SYSTEMS ARE TO BE TESTED WITH A MEGGER UNIT OR IN AN OTHERWISE ACCEPTABLE MANNER. REFER TO SECTIONS 250-90 THROUGH 250-106. CALIFORNIA ELECTRICAL CODE, FOR SPECIFIC GROUNDING REQUIREMENTS. TESTING SHALL BE WITNESSED BY PROJECT INSPECTOR. SUBMIT A COPY OF THE REPORT TO THE ARCHITECT.

GENERAL NOTES

1 PORTIONS OF THESE PLANS HAVE BEEN DERIVED FROM INFORMATION TAKEN FROM ORIGINAL ELECTRICAL PLANS. THE INTENT OF THESE PLANS IS TO PROVIDE COMPLETE AND OPERABLE SYSTEMS.

2 IT IS THE CONTRACTOR'S RESPONSIBILITY TO VISIT THE SITE AND BECOME THOROUGHLY FAMILIAR WITH ALL THE FEATURES OF THE BUILDING AND SITE WHICH WAY AFFECT THE PROPER PERFORMANCE OF THIS WORK.

3 IT IS THE CONTRACTOR'S RESPONSIBILITY TO REFER TO THE DRAWINGS OF OTHER TRADES FOR ADDITIONAL DETAILS AND REQUIREMENTS WHICH AFFECT THE PROPER PERFORMANCE OF THIS WORK.

4 RACEWAY ROUTING, DIMENSIONS, AND EQUIPMENT LOCATIONS ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND EXACT RACEWAY ROUTING TO CONFORM TO FIELD CONDITIONS.

5 ELECTRICAL DOWN TIME MUST BE APPROVED BY THE DISTRICT. CONTRACTOR SHALL MAKE PROVISIONS TO ACCOMPLISH THE WORK OF THIS CONTRACT WITHOUT UNDUE INTERFERENCE WITH DISTRICT OPERATIONS.

6 ALL EQUIPMENT DEVICES, CONDUIT FITTINGS, JUNCTION BOXES, AND CONSTRUCTION LOCATED OUTDOORS SHALL BE WEATHERPROOF.

7 ALL SIGNAL AND FIRE ALARM SYSTEMS TERMINATIONS MADE IN JUNCTION BOXES SHALL BE EXECUTED USING TERMINAL BLOCKS.

8 SIGNAL AND/OR FIRE ALARM SYSTEMS SPLICES ARE NOT PERMITTED IN UNDERGROUND PULLBOXES.

9 ALL ELECTRICAL EQUIPMENT INCLUDING PANELS, OUTLET BOXES, CONDUITS, ETC. SHALL BE ANCHORED TO BUILDING STRUCTURE. ANCHORING SHALL BE DESIGNED FOR 1.0 GRAVITY LATERAL ACCELERATION OF THE EQUIPMENT.

10 VERIFY THE EXACT LOCATION OF THE RELOCATABLE BUILDING PANELBOARD WITH THE BUILDING MANUFACTURER PRIOR TO ROUGH-IN.

11 WHERE POSSIBLE ALL RACEWAYS SHALL BE ROUTED CONCEALED IN WALLS AND/OR ACCESSIBLE CEILING SPACE.

12. UNLESS SPECIFICALLY SHOWN ON THESE PLANS NO STRUCTURAL MEMBER SHALL BE CUT NEITHER DRILLED NOR NOTCHED WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE STRUCTURAL ENGINEER AND THE DIVISION OF THE STATE ARCHITECT.

13. CONDUITS RUN ABOVE GRADE: PROVIDE OZ COMPANY TYPE "DX" EXPANSION/DEFLEXION FITTINGS WITH BONDING JUMPER ON ALL CONDUITS AT ALL BUILDING EXPANSION OR SEISMIC JOINT CROSSINGS.

SCHOOL EQUIPMENT ANCHORAGE NOTES

MEP COMPONENT ANCHORAGE NOTE:

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2016 BC, SECTIONS 1616A.1.18 THROUGH 1616A.1.26 AND ASCE7-10 CHAPTER 13, 26 AND 30.

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY OR MOVEABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER.
3. MOVEABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THE 400 POUNDS ARE REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT THE ATTACHMENT NEED NOT BE DETAILED ON THE PLAN. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT.

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM ROOF OR FLOOR OR HUNG FROM A WALL.

FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND THE DSA DISTRICT STRUCTURAL ENGINEER. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTIN SYSTEM NOTE.

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-10 SECTION 13.3 AS DEFINED IN ASCE 7-10 SECTION 13.6.5.3, 13.6.7, 13.6.8, AND 2016 CBC, SECTIONS 1616A.1.24, 1616A.1.25 AND 1616A.1.26.

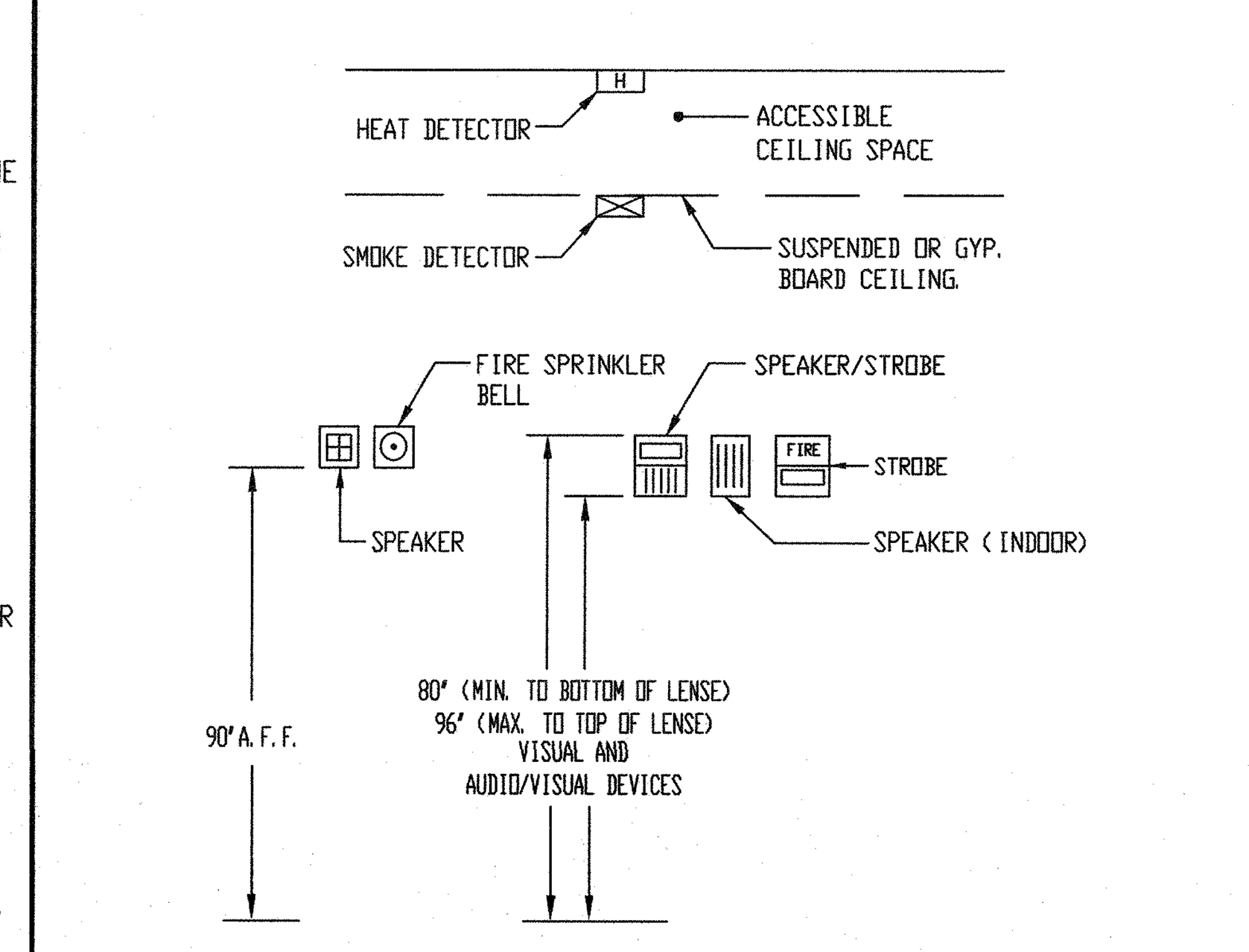
THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G., SMACNA OR OSHPD OPM), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS. MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPIMG (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

MP ☐ MD ☐ PP ☐ E ☒ -OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

MP ☐ MD ☐ PP ☐ E ☐ -OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVAL (OPM#) #_________________.

MP ☐ MD ☐ PP ☐ -OPTION 3: SHALL COMPLY WITH THE SMACNA SEISMIC RESTRAINT MANUAL, OSHPD EDITION (2009), INCLUDING ANY ADDENDA. FASTENERS AND OTHER ATTACHMENTS NOT SPECIFICALLY IDENTIFIED IN THE SMACNA SEISMIC RESTRAINT MANUAL, OSHPD EDITION, ARE DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS. THE DETAILS SHALL ACCOUNT FOR THE APPLICABLE SEISMIC HAXZARD LEVEL_______ AND CONNECTION LEVEL ______ FOR THE PROJECT AND CONDITIONS.

PULL STATION/HORN/STROBE ELEVATION



FIRE ALARM SEQUENCE OF OPERATION

ACTION \ DEVICE	SMOKE/HEAT DETECTOR	120V POWER FAILURE
SOUND ALARM AT EXISTING "FACP"	YES	NO
SOUND TROUBLE BUZZER AT EXISTING "FACP"	ON WIRING FAULT	YES
ACTIVATE AUDIBLE ALARM SIGNAL THROUGHOUT CAMPUS	YES	NO
ACTIVATE VISUAL ALARM SIGNAL THROUGHOUT CAMPUS	YES	NO

tBP/Architecture
4611 Teller Avenue
Newport Beach, CA 92660
ph: 949.673.0300 fx: 949.732.3895
architect

FBA Engineering
consultant

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP03 119149
AC FLS SS
DATE JAN 7 2019

DSA Los Angeles Regional Office
700 N. Alameda Street, Suite 5-500
Los Angeles, California 90012
ph: (213)897-3995 fx: (213)897-3159/0726

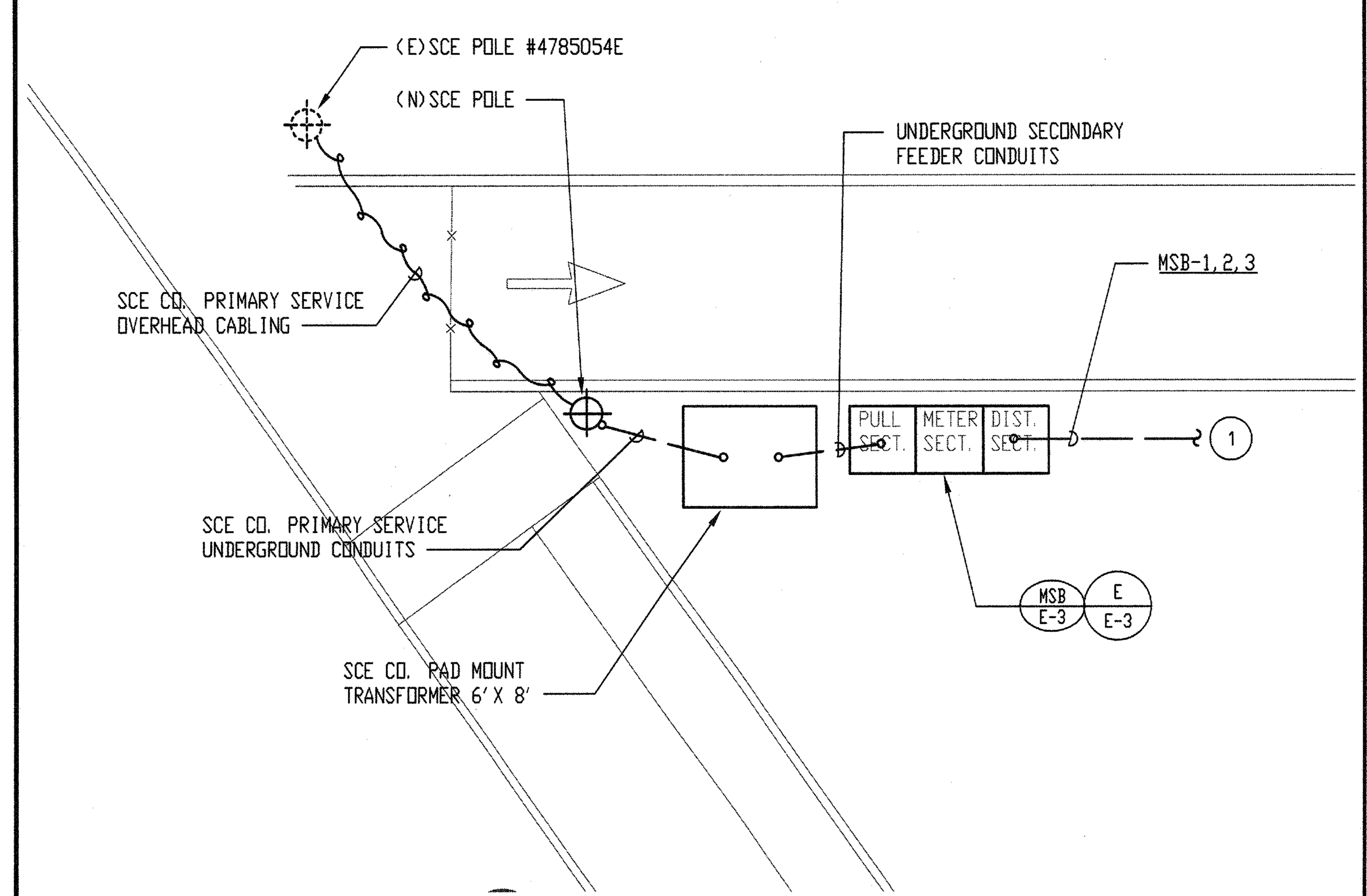
CLOUD PRESCHOOL RELOCATABLES
4444 CLOUD AVENUE
LA CRESCENTA, CALIFORNIA 91214
GLENDALE UNIFIED SCHOOL DISTRICT
owner

tBP project number : 20778.10
file name:
drawn by: checked by:
date: September 9, 2015
Rev: date: description:

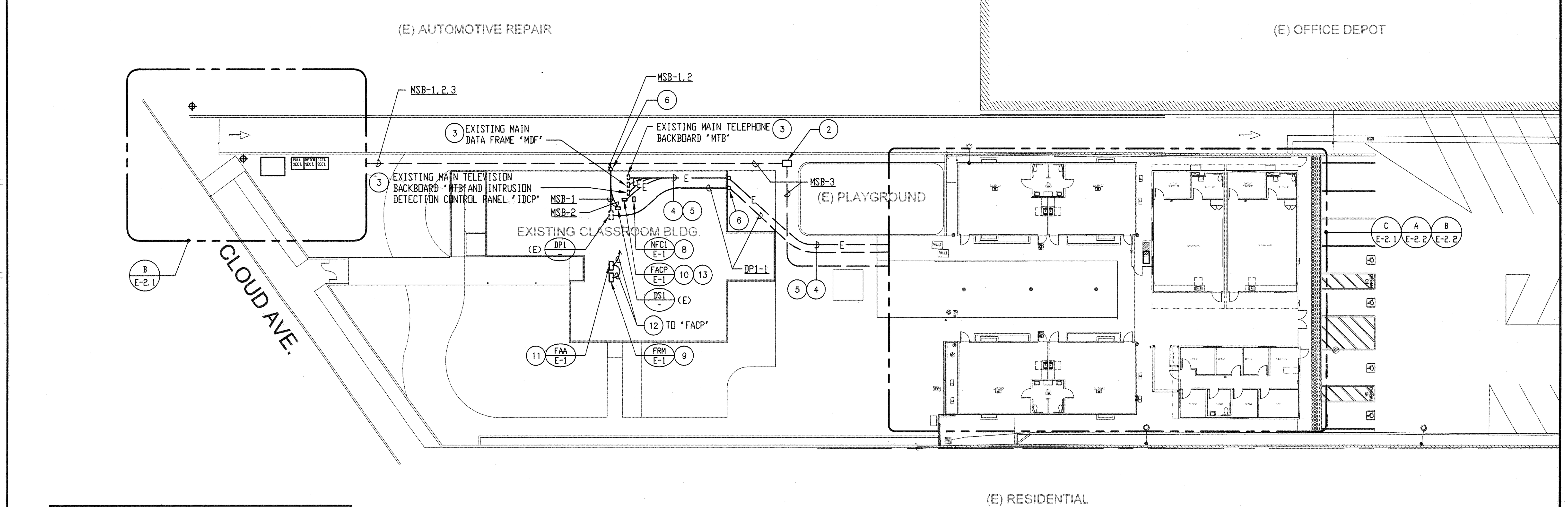
drawing title:
SYMBOL LIST, NOTES AND DETAILS

drawing no.:
E-1
drawing of

FBA Engineering / Plot Date: 12/11/2018 2:23 PM / Plotted by: William Ramirez / Drawing Location: I:\212\178\CAD with interior walls\E-1_212178.dwg



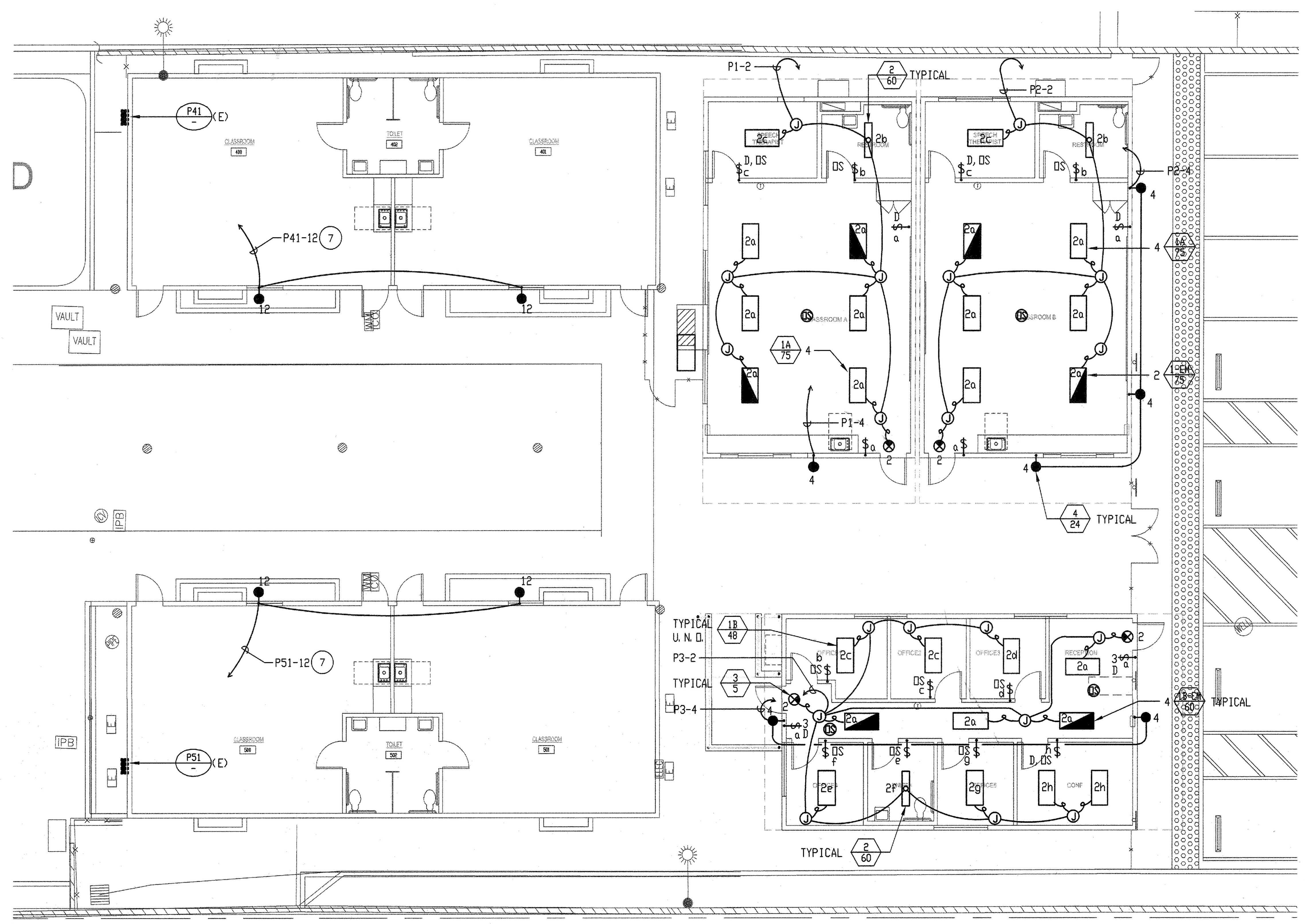
ENLARGED SITE ELECTRICAL PLAN — SCALE 1/8"=1'-0" — B



SITE PLAN GENERAL NOTE:

ELECTRICAL CONTRACTOR SHALL EXERCISE CAUTION IN EXCAVATING AND TRENCHING ON THIS SITE TO AVOID EXISTING DUCTS, PIPING, CONDUITS, ETC., AND SHALL PREVENT HAZARD TO PERSONNEL AND/OR DAMAGE TO EXISTING UNDERGROUND UTILITIES OR STRUCTURES, WHETHER OR NOT SHOWN, DETAILED OR INSTALLED BY THIS OR ANY OTHER CONTRACTS. THIS CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER SHOULD SUCH UNIDENTIFIED CONDITIONS BE DISCOVERED. THESE DRAWINGS AND SPECIFICATIONS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY.

SITE ELECTRICAL PLAN — SCALE 1"=20'-0" — A



NOTE:

-REFER TO LIGHTING CONTROL DIAGRAM ON SHEET E-6 FOR ADDITIONAL REQUIREMENTS.

LIGHTING PLAN — SCALE 1/8"=1'-0" — C

PLAN NOTES

1. REFER TO SITE ELECTRICAL PLAN FOR CONTINUATION.
2. PROVIDE 2'-0" X 2'-0" X 3'-0"D. PRECAST CONCRETE PULLBOX WITH BOLT DOWN TRAFFIC RATED COVER. ENGRAVE TO READ: "POWER".
3. MODIFY EXISTING HEADEND EQUIPMENT AS REQUIRED TO SERVE THE NEW CONSTRUCTION. PROVIDE ALL PROGRAMMING AND COMPONENTS FOR A COMPLETE INSTALLATION.
4. WHERE NEW CONDUCTORS/CABLING IS SPECIFIED IN EXISTING CONDUITS CONTAINING EXISTING CABLING. THE CONTRACTOR SHALL REMOVE ENOUGH OF THE EXISTING WIRING IN ORDER TO PULL IN NEW PLUS REPLACEMENT OF EXISTING REMOVED.
5. EXISTING SIGNAL SYSTEM CONDUITS TO REMAIN. PROVIDE ADDITIONAL FIBER OPTIC, FIRE ALARM, INTRUSION DETECTION, TELEVISION, AND TELEPHONE SYSTEMS CABLING AS REQUIRED TO SERVE THE NEW CONSTRUCTION.
6. ROUTE CONDUIT FROM BELOW GRADE EXPOSED ON BUILDING EXPOSED ON BUILDING EXTERIOR TO AN ELEVATION ABOVE ACCESSIBLE CEILING SPACE. PROVIDE WEATHER PROOF 'LB' FITTING AND SEALED PENETRATION THROUGH BUILDING WALLS.
7. ROUTE CIRCUIT THROUGH MULTI-POLE CONTACTOR/RELAY OPERATED BY TIME CLOCK SYSTEM WITH TIME "ON" AND TIME "OFF". FLUSH MOUNT TIME CLOCK CABINET ABOVE ELECTRICAL PANEL AS REQUIRED.
8. PROVIDE NEW FIRE ALARM VOICE COMMUNICATIONS SYSTEM CONTROL ADJACENT TO FIRE ALARM CONTROL PANEL AS REQUIRED.
9. PROVIDE FIRE ALARM REMOTE MICROPHONE FLUSH WALL MOUNTED AT THE ADMINISTRATION'S DESK AS REQUIRED.
10. EXISTING FIRE ALARM CONTROL PANEL NOTIFIER AFP-200 PER A #32440 TO REMAIN.
11. PROVIDE FIRE ALARM REMOTE ANNUCIATOR FLUSH WALL MOUNTED AT THE ADMINISTRATION'S DESK AS REQUIRED.
12. PROVIDE 8#12 (NOTIFICATION) - 1"C.
13. PROVIDE NEW FIRE ALARM CONTROL PANEL NOTIFIER NFS2640 ADJACENT TO EXISTING PANEL.

tBP architecture planning interiors
tBP/Architecture
4611 Teller Avenue
Newport Beach, CA 92660
ph: 949.673.0300 fx: 949.732.3895
architect

FBA Engineering
consultant

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP03 119149
DATE JAN 7 2019

DSA Los Angeles Regional Office
700 N. Alameda Street, Suite 5-500
Los Angeles, California 90012
ph: (213)897-3995 fx: (213)897-3159/0726

CLOUD PRESCHOOL RELOCATABLES

4444 CLOUD AVENUE
LA CRESCENTA, CALIFORNIA 91214

GLENDALE UNIFIED SCHOOL DISTRICT

owner

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date: September 9, 2015
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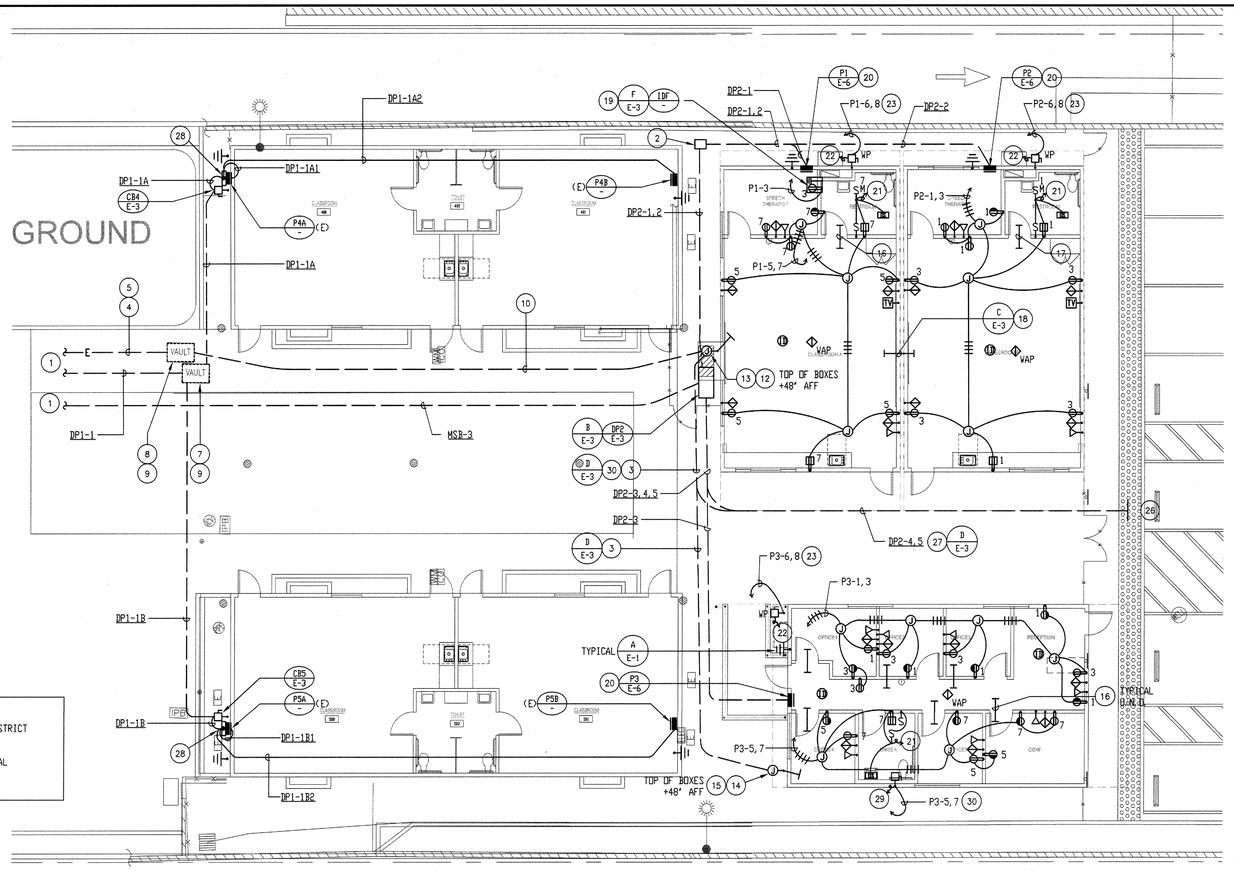
drawing title:
SITE ELECTRICAL PLANS AND DETAILS

drawing no.:
E-2.1
drawing of

FBA Engineering / Plot Date: 12/11/2018 4:36 PM / Plotted by: William Ramirez / Drawing Location: I:\212\178\CAD with interior walls\E-2.1_212178.dwg



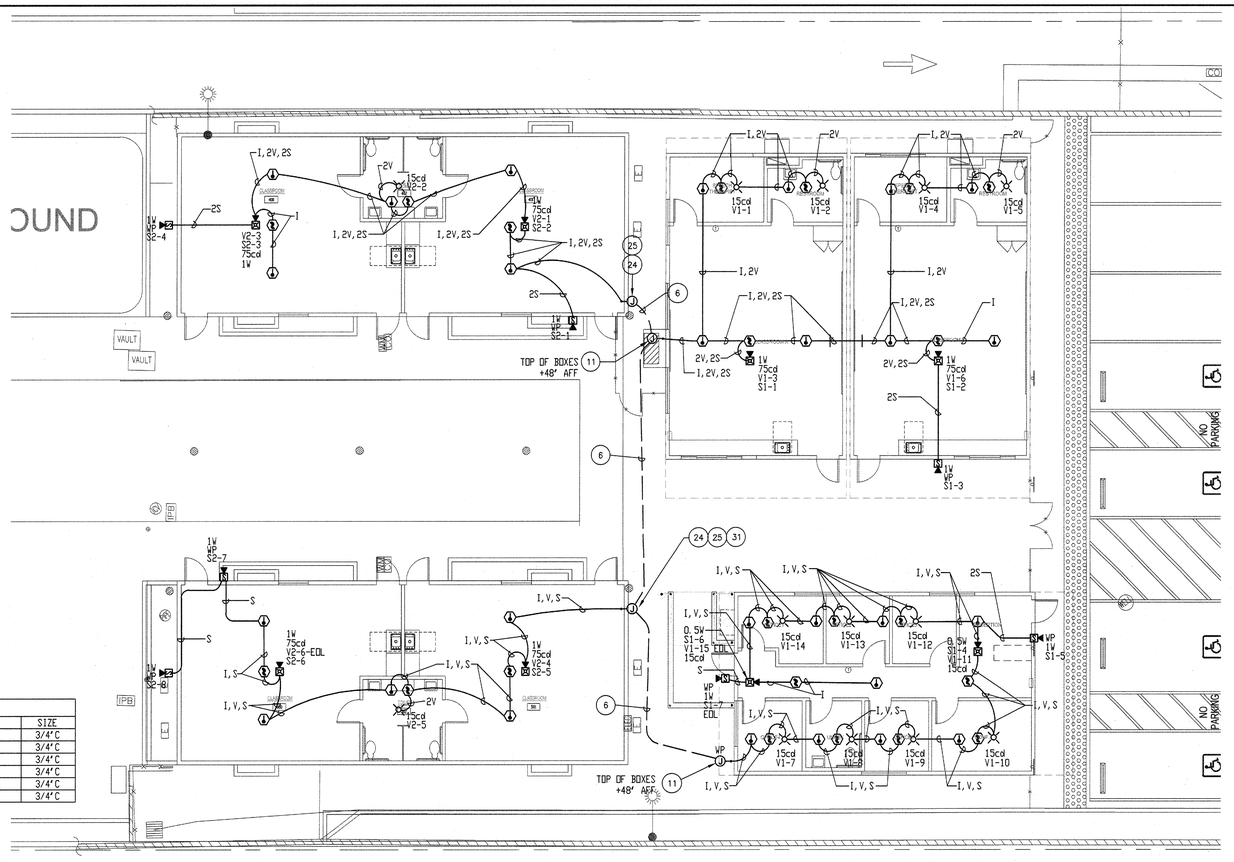
NOTE:

-VERIFY EXACT LOCATION OF EQUIPMENT WITH ARCHITECT/SCHOOL DISTRICT PRIOR TO ROUGH-IN-

-REFER TO LIGHTING CONTROL DIAGRAM ON SHEET E-6 FOR ADDITIONAL CONNECTION REQUIREMENTS TO CONTROLLED RECEPTACLE.

POWER AND SIGNAL PLAN

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



FIRE ALARM CONDUIT SCHEDULE		
SYMBOL	CONDUCTORS	SIZE
—I—	2#16 UNSHIELDED TWISTED-PAIR INITIATING CIRCUIT	3/4"C
—V—	2#12 AWG VISUAL CIRCUIT	3/4"C
—S—	2#18 AWG SPEAKER CIRCUIT (SHIELDED TWISTED-PAIR)	3/4"C
—2V—	4#12 AWG VISUAL CIRCUIT	3/4"C
—2S—	4#18 AWG SPEAKER CIRCUIT (SHIELDED TWISTED-PAIR)	3/4"C
I,2V,2S	MULTIPLE CONDUCTORS SHALL BE SHARED	3/4"C

FIRE ALARM PLAN

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

PLAN NOTES

1. REFER TO SITE ELECTRICAL PLAN ON SHEET E-2.1 DETAIL 'A' FOR CONTINUATION.
2. PROVIDE 2'-0" X 3'-0" X 3'-0"D. PRECAST CONCRETE PULLBOX WITH BOLT DOWN TRAFFIC RATED COVER. ENGRAVE TO READ 'POWER'. REFER TO DETAIL G/E-3
3. PROVIDE THE FOLLOWING SIGNAL SYSTEM CONDUITS WITH SPECIFIED SYSTEM CONDUCTORS:
   2"C. (DATA)
   2"C. (TELEPHONE)
   1"C. (INTRUSION DETECTION)
   1"C. (TELEVISION)
4. WHERE NEW CONDUCTORS/CABLING IS SPECIFIED IN EXISTING CONDUITS CONTAINING EXISTING CABLING. THE CONTRACTOR SHALL REMOVE ENOUGH OF THE EXISTING WIRING IN ORDER TO PULL IN NEW PLUS REPLACEMENT OF EXISTING REMOVED.
5. EXISTING SIGNAL SYSTEM CONDUITS TO REMAIN. PROVIDE ADDITIONAL FIBER OPTIC, FIRE ALARM, INTRUSION DETECTION, TELEVISION, AND TELEPHONE SYSTEMS CABLING AS REQUIRED TO SERVE THE NEW CONSTRUCTION.
6. PROVIDE 1"C. FOR FIRE ALARM. REFER TO FIRE ALARM SINGLE LINE RISER DIAGRAM ON SHEET E-1 FOR CABLING.
7. EXISTING POWER PULLBOX TO REMAIN.
8. EXISTING SIGNAL PULLBOX TO REMAIN.
9. INTERCEPT AND EXTEND WITH NEW CONDUITS AND CABLING AS INDICATED.
10. PROVIDE THE FOLLOWING SIGNAL SYSTEM CONDUITS WITH SPECIFIED SYSTEM CONDUCTORS:
    2"C. (DATA)
    2"C. (TELEPHONE)
    1"C. (FIRE ALARM)
    1"C. (INSTRUSION DETECTION)
    1"C. (TELEVISION)
11. REFER TO DETAIL 'A' FOR NOTES.
12. PROVIDE (3) 8'X8'X4' DEEP WEATHERPROOF JUNCTION BOXES FOR FIRE ALARM, INTRUSION DETECTION, TELEVISION, AND (2) 12"X12"X6"D. FOR TELEPHONE, DATA. PROVIDE ENGRAVED PLATE FOR EACH PULLBOX INDICATING SYSTEM.
13. ROUTE (2) 2"C. DATA, 2"C. TELEPHONE, 1"C. FIRE ALARM, 1"C. INTRUSION DETECTION, 1"C. TELEVISION FROM THE PULLBOXES EXPOSED ON EXTERIOR WALL OF BUILDING TO AN ELEVATION ABOVE ACCESSIBLE CEILING SPACE INSIDE BUILDING WHERE CONDUITS CAN EXTEND AND STUB INTO CEILING SPACE AND CONNECT TO EQUIPMENT AND DEVICES AS INDICATED. THE FIRE ALARM SYSTEM CONDUIT SHALL EXTEND FROM EXTERIOR PULLBOX INTO BUILDING AND ROUTE AS INDICATED.
14. PROVIDE (5) 8'X8'X4' DEEP WEATHERPROOF JUNCTION BOXES FOR FIRE ALARM, INTRUSION DETECTION, TELEVISION, TELEPHONE, AND DATA. PROVIDE ENGRAVED PLATE FOR EACH PULLBOX INDICATING SYSTEM.
15. ROUTE CONDUITS FROM THE PULLBOXES EXPOSED ON EXTERIOR WALL OF BUILDING TO AN ELEVATION ABOVE ACCESSIBLE CEILING SPACE INSIDE BUILDING WHERE CONDUITS CAN EXTEND AND STUB INTO CEILING SPACE. EXTEND RESPECTIVE SYSTEM CABLING THROUGH CEILING SPACE AND CONNECT TO EQUIPMENT AND DEVICES AS INDICATED. THE FIRE ALARM SYSTEM CONDUIT SHALL EXTEND FROM EXTERIOR PULLBOX INTO BUILDING AND ROUTE AS INDICATED.
16. PROVIDE (4) 2"C. SLEEVES FOR ROUTING SIGNAL SYSTEM CONDUCTORS.
17. PROVIDE 2"C. SLEEVE FOR ROUTING SIGNAL SYSTEM CONDUCTORS.
18. PROVIDE (3) 2"C. SLEEVE FOR ROUTING SIGNAL SYSTEM CONDUCTORS AND (1) 3/4"C. SLEEVE FOR FIRE ALARM
19. PROVIDE WALL MOUNTED IDF COMPUTER/DATA EQUIPMENT RACK 6' BELOW CEILING. PROVIDE 1#6 GRD. - 3/4"C. TO APPROVED GROUNDING LOCATION.
20. EXISTING ELECTRICAL PANEL TO BE REPLACED WITH THE NEW PANEL AS INDICATED.
21. PROVIDE CONNECTION TO EXHAUST FAN AS REQUIRED.
22. PROVIDE CONNECTION TO HEAT PUMP AS REQUIRED.
23. PROVIDE 3#2, 1#8 GRD. - 1 1/4"C.
24. PROVIDE 8"x8"x4"D. WEATHERPROOF JUNCTION BOX FOR FIRE ALARM AS REQUIRED. . MOUNT PULLBOX JUST ABOVE CEILING LEVEL.
25. ROUTE CONDUIT FROM THE PULLBOX EXPOSED ON EXTERIOR WALL OF BUILDING TO AN ELEVATION ABOVE ACCESSIBLE CEILING SPACE INTO BUILDING AND ROUTE AS INDICATED.
26. STUB AND CAP CONDUITS BELOW GRADE. PROVIDE FLUSH IN GRADE MARKER.
27. PROVIDE THE FOLLOWING SIGNAL SYSTEM CONDUITS FOR FUTURE SIGNAL SYSTEM CONDUCTORS:
    2"C.D. (DATA)
    2"C.D. (TELEPHONE)
    1"C.D. (FIRE ALARM)
    1"C.D. (INSTRUSION DETECTION)
    1"C.D. (TELEVISION)
    2"C.D. (SPARE)
28. PROVIDE 12"x12"x6"D. WEATHERPROOF WALL MOUNTED PULLBOX FOR POWER.
29. PROVIDE CONNECTION TO WATER HEATER AS REQUIRED. VERIFY EXACT LOCATION WITH PLUMBING DRAWINGS PRIOR TO ROUGH IN.
30. PROVIDE 2#10, 1#10 GRD. - 3/4"C.
31. MOUNT JUNCTION BOX JUST ABOVE ACCESSIBLE CEILING LEVEL.

tBP architecture planning interiors
tBP/Architecture
4611 Teller Avenue
Newport Beach, CA 92660
ph: 949.673.0300 fx: 949.732.3895
architect

FBA Engineering
Consulting Electrical Engineers
156 Paularino Avenue Suite A100
Costa Mesa, California 92626
949.302.9996 • 949.852.1607 (fax)
fbaengr.com
FBA Job Number: 212.178
consultant

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP03 119149
AC FLS SS
DATE JAN 7 2019

DSA Los Angeles Regional Office
700 N. Alameda Street, Suite 5-500
Los Angeles, California 90012
ph: (213)897-3995 fx: (213)897-3159/0726

CLOUD PRESCHOOL RELOCATABLES

4444 CLOUD AVENUE
LA CRESCENTA, CALIFORNIA 91214

GLENDALE UNIFIED SCHOOL DISTRICT

owner

tBP project number : 20778.10
file name:
drawn by: checked by:
date: September 9, 2015

Rev:	date:	description:

drawing title:
SITE ELECTRICAL PLANS AND DETAILS

drawing no.:
E-2.2
drawing of

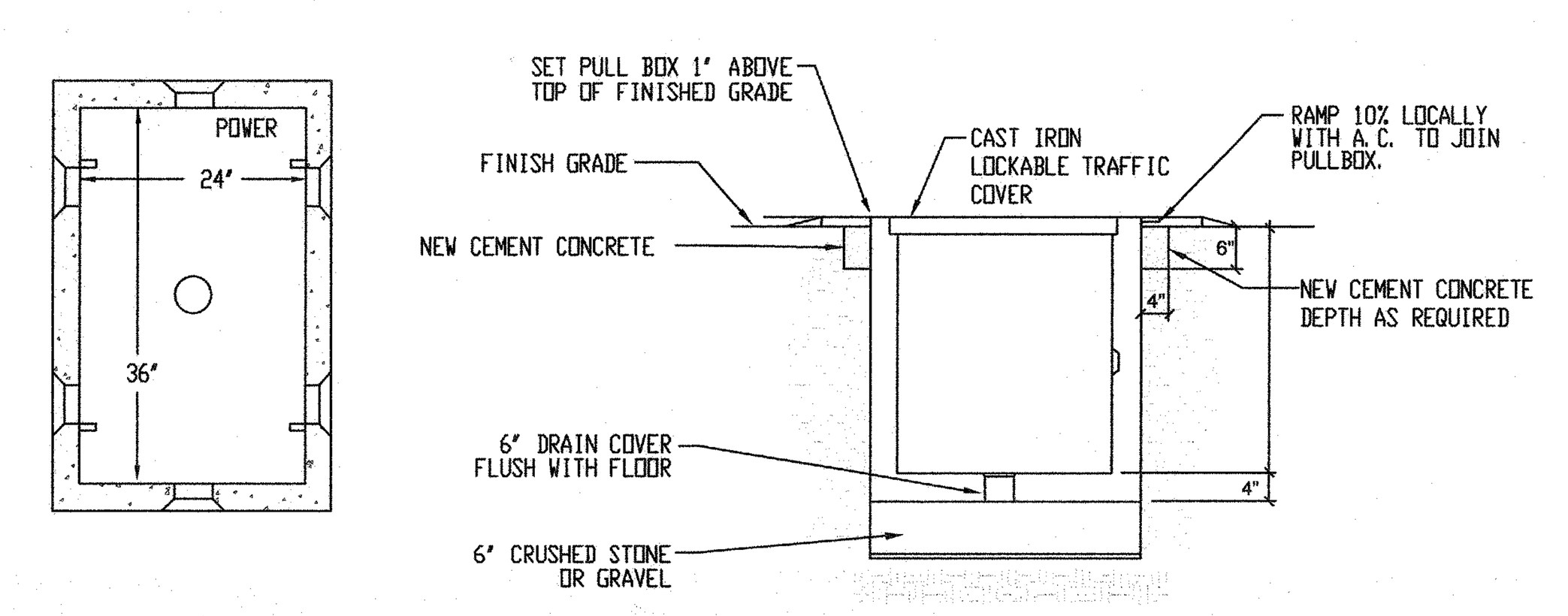
SYMBOL LIST

(ALL SYMBOLS NOT NECESSARILY USED ON THESE DRAWINGS) ALL SYMBOL DESCRIPTIONS ARE SUBJECT TO MODIFICATION AS NOTED ON THE DRAWINGS

- JUNCTION BOX, FLUSH WALL MOUNTED, +18".
- JUNCTION BOX CONCEALED ABOVE ACCESSIBLE CEILING AREA OR MOUNTED ON ROOF.
- INDICATES CONNECTION TO EQUIPMENT AS REQUIRED, TYPICAL.
- PANELBOARD, ADJACENT LINE INDICATES PANEL FRONT. ADJACENT BALLOON INDICATES PANEL DESIGNATION ''A'', SEE DRAWING E-1 FOR PANEL SCHEDULE.
- TERMINAL CABINET. ADJACENT LINE INDICATES CABINET FRONT.
- EQUIPMENT CABINET. ADJACENT LINE INDICATES CABINET FRONT.
- LIGHTING FIXTURE RECESSED MOUNTED WITH OUTLET BOX AND REMOTE MOUNTED JUNCTION BOX CONCEALED ABOVE ACCESSIBLE CEILING. PROVIDE FLEXIBLE CONDUIT CONNECTION 6 FT. MAXIMUM LENGTH, 1/2" DIAMETER MINIMUM, FROM JUNCTION BOX TO FIXTURE OUTLET. PROVIDE CONDUCTORS IN CONDUIT, QUANTITY AS REQUIRED FOR INDICATED CIRCUITS AND SWITCHING CONTROLS, #12 (AWG) MINIMUM.
- LIGHTING FIXTURE RECESSED MOUNTED WITH OUTLET BOX AND REMOTE MOUNTED JUNCTION BOX CONCEALED ABOVE ACCESSIBLE CEILING. PROVIDE FLEXIBLE CONDUIT CONNECTION 6 FT. MAXIMUM LENGTH, 1/2" DIAMETER MINIMUM, FROM JUNCTION BOX TO FIXTURE OUTLET. PROVIDE CONDUCTORS IN CONDUIT, QUANTITY AS REQUIRED FOR INDICATED CIRCUITS AND EMERGENCY BATTERY PACK.
- LIGHTING FIXTURE, SURFACE OR FLUSH MOUNTED, U.L. LISTED FOR WET LOCATION ON WALL MOUNTED OUTLET BOX, +90". STEM INDICATES WALL MOUNTED OUTLET BOX, TYPICAL, FILLED INDICATES FIXTURE TO BE PROVIDED WITH EMERGENCY.
- EXIT SIGN, ON FLUSH CEILING MOUNTED OUTLET BOX. REFER TO ARCHITECTURAL DRAWINGS FOR PHOTOLUMINESCENT, FLOOR-LEVEL EXIT MARKERS AND EXIT PATH MARKINGS.
- CONDUIT, INSTALLED CONCEALED IN WALL OR IN CEILING SPACE.
- CONDUIT, INSTALLED CONCEALED IN OR UNDER FLOOR OR BELOW GRADE, 3/4"C. MINIMUM.
- CONDUIT, INSTALLED EXPOSED.
- B-5,7 — HOMERUN TO PANEL 'B' FOR CIRCUITS 5, 7 WITH SEPARATE NEUTRAL
- UNDERGROUND CONDUIT STUBOUT, STUB 5'-0'' FROM BUILDING OR WALKWAY, CAP, MARK AND RECORD.
- E — EXISTING CONDUIT.
- F — FIRE ALARM SYSTEM - 3/4"C. WITH FIRE ALARM SYSTEM CONDUCTORS AS SPECIFIED.
- T2 — TELEPHONE SYSTEM 3/4"C. WITH ONE (2) SET OF CONDUCTORS AS SPECIFIED.
- P — PUBLIC ADDRESS SYSTEM - 3/4"C., WITH CONDUCTORS AS SPECIFIED. P2 - 3/4"C WITH CONDUCTORS AS SPECIFIED.
- TV — TELEVISION SYSTEM - 1"C. WITH CONDUCTORS AS SPECIFIED.
- ID — INTRUSION DETECTION SYSTEM - 3/4"C. WITH CONDUCTORS AS SPECIFIED.
- TELECOMMUNICATIONS OUTLET ON FLUSH WALL MOUNTED OUTLET BOX +18", WITH DESK MOUNTED DEVICE. PROVIDE 1"C. WITH CONDUCTORS AS SPECIFIED STUBBED INTO ACCESSIBLE CEILING SPACE.
- D1 — COMPUTER/DATA PROCESSING SYSTEM - 3/4"C., WITH CONDUCTORS AS NOTED.
  D2 - 1 1/4"C., WITH CONDUCTORS AS SPECIFIED.
  D3 - 1 1/2"C., WITH CONDUCTORS AS SPECIFIED.
- COMPUTER/DATA OUTLET WITH TWO (2) DATA OUTLET CONNECTORS, ON FLUSH IN WALL OUTLET BOX, +18". PROVIDE OUTLET BOX, DATA JACKS, FACE PLATE, ETC. AND 1" CONDUIT TO THE ACCESSIBLE CEILING SPACE UNLESS NOTED OTHERWISE. PROVIDE TWO (2) CAT 6E DATA NETWORK CABLES AS SPECIFIED FROM THE OUTLET TO THE RESPECTIVE MDF/IDF.
- WAP — COMPUTER/DATA OUTLET WITH TWO (2) DATA OUTLET CONNECTORS, ON CEILING MOUNTED OUTLET BOX, FOR WIRELESS ACCESS POINT. PROVIDE OUTLET BOX, DATA JACK, FACE PLATE, ETC. PROVIDE TWO (2) CAT 6E DATA NETWORK CABLE AS SPECIFIED FROM THE OUTLET TO THE RESPECTIVE MDF/IDF.
- DUPLEX CONVENIENCE RECEPTACLE VERTICAL ON FLUSH WALL MOUNTED OUTLET BOX, +18". STEM INDICATES WALL MOUNTED OUTLET BOX, TYPICAL.
- TV — TELEVISION OUTLET, ON FLUSH WALL MOUNTED OUTLET BOX, +18", WITH 1" CONDUIT TO ACCESSIBLE CEILING SPACE. PROVIDE COAXIAL CABLE AS SPECIFIED FROM OUTLET TO THE RESPECTIVE IDF/MDF.
- OS — OCCUPANCY MOTION SENSOR ON FLUSH CEILING MOUNTED OUTLET BOX.
- OS — LOW VOLTAGE OCCUPANCY MOTION SENSOR ON FLUSH CEILING MOUNTED OUTLET BOX.
- ID — INTRUSION DETECTION SENSOR ON FLUSH CEILING MOUNTED OUTLET BOX.
- 3 / D,OS / a,b — LOW VOLTAGE LIGHTING ON/OFF CONTROL SWITCH IN FLUSH IN WALL OUTLET BOX, +45". SUBSCRIPT OR SUPERSCRIPT AT SWITCH SYMBOL INDICATES THE FOLLOWING:
  D - DIM UP/DOWN; 3 - THREE WAY; OS - WITH OCCUPANCY SENSOR
  K - KEY OPERATED; P - PILOT LIGHT
  a, b - MULTIPLE SWITCHES WITH IDENTIFICATION OF OUTLET CONTROLLED.
- 2,P / a,b — SINGLE POLE TOGGLE SWITCH, ON FLUSH WALL MOUNTED OUTLET BOX, +45". INSTALL MULTIPLE SWITCHES UNDER COMMON COVER PLATE. SUBSCRIPT OR SUPERSCRIPT AT SWITCH SYMBOL INDICATES THE FOLLOWING:
  2 - DOUBLE POLE; 4 - FOUR WAY; M - MANUAL MOTOR STARTERS
  3 - THREE WAY; P - PILOT LIGHT; K - KEY OPERATED
  R - SPDT MOMENTARY CONTACT RELAY SWITCH; V - VAPOR PROOF
  a, b, c, d, ETC. - MULTIPLE SWITCHES WITH IDENTIFICATION OF OUTLET CONTROLLED.
- FUSED SAFETY SWITCH (DISCONNECT), HORSE POWER RATED. MOUNT ON WALL +45", OR ON EQUIPMENT +36". PROVIDE SWITCH AND FUSES SIZED PER EQUIPMENT MANUFACTURER REQUIREMENTS.
- CONTROLLED DUPLEX CONVENIENCE RECEPTACLE SPLIT WIRED, ON FLUSH WALL MOUNTED OUTLET BOX, +18". REFER TO SHEET E-6 FOR ADDITIONAL INFORMATION.
- CIRCUIT BREAKER STATIONARY (NON-DRAWOUT) SECONDARY VOLTAGE.
- DENOTES CONDUIT(S) RISING UP.
- MODULAR BUILDING GROUND ROD. SEE DETAIL.

A.F.F.	ABOVE FINISH FLOOR
AMP, A	AMPERE
C.O.	CONDUIT ONLY.
E	EXISTING EQUIPMENT TO BE REUSED
FA	FIRE ALARM
GFI	GROUND FAULT INTERRUPTER.
GRD	GROUND
KW	KILOWATT
1P	SINGLE POLE
2P	DOUBLE POLE
3P	TRIPLE POLE
PROVIDE	FURNISH, INSTALL AND CONNECT.
U.N.O.	UNLESS NOTED OTHERWISE
WP	WEATHERPROOF

2 / 100	FIXTURE SCHEDULE DESIGNATION: "2" INDICATES FIXTURE TYPE, "100" INDICATES FIXTURE TOTAL WATTAGE.
C / E-2	DETAIL CALLOUT, ''C'' INDICATES DETAIL, "E-22" INDICATES DRAWING WHERE DETAIL OCCURS.
(1)	PLAN NOTE CALLOUT. REFER TO CORRESPONDING NOTE ON DRAWING WHERE CALLOUT OCCURS.
RGS	RIGID GALVANIZED STEEL
EMCS	ENERGY MANAGEMENT CONTROL SYSTEM
TP	UNSHIELDED TWISTED PAIR



TYPICAL PULLBOX

DETAIL NOTES:

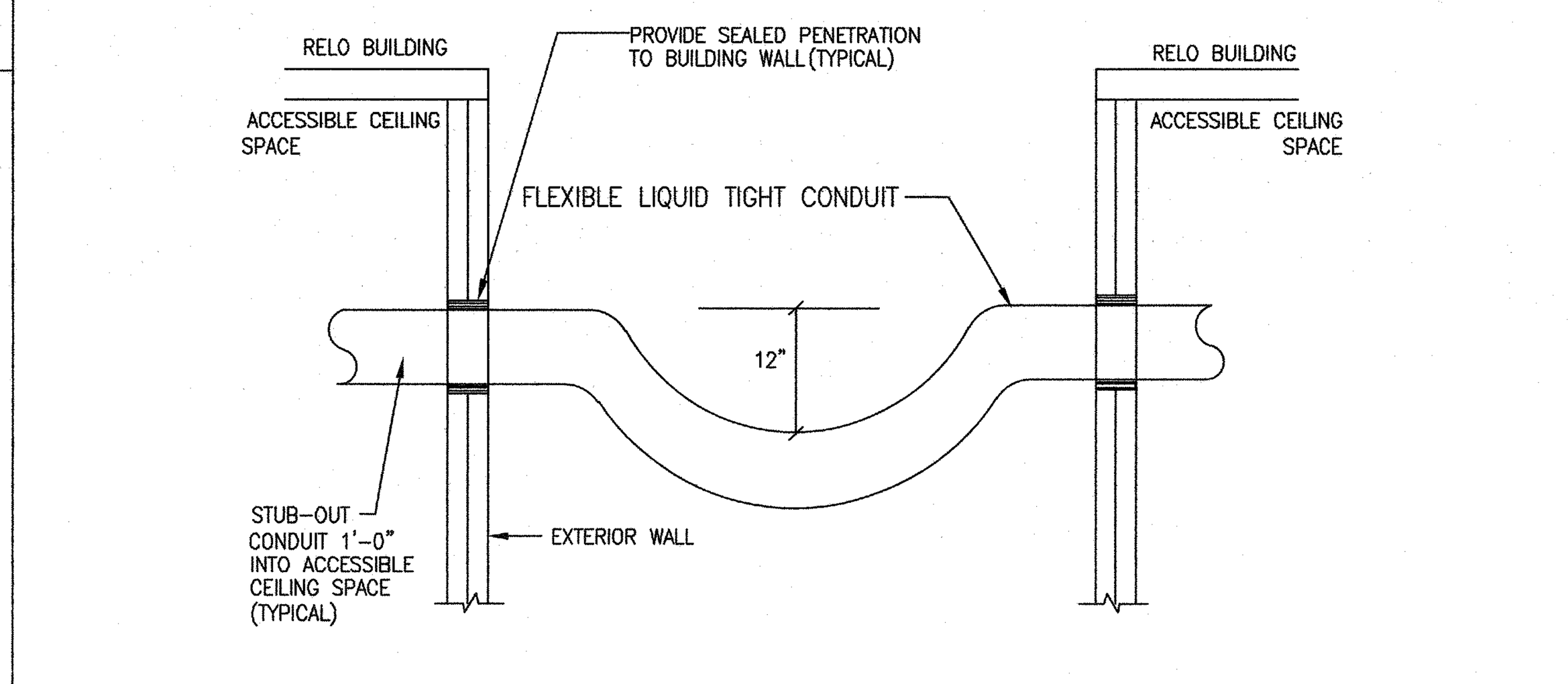
1. IN THE PRECAST CONCRETE PULL BOXES FURNISH AND INSTALL CABLE RACKS ON WALLS INDICATED. EACH RACK SHALL BE EQUIPPED WITH THREE PORCELAIN CABLE HOLDERS ON A VERTICAL STEEL MOUNTING BAR. BOLT HOLES SHALL BE PRE-CAST PULL BOXES JENSEN PRECAST OR EQUAL WITH STAINLESS STEEL FLAT HEAD SCREWS AND SELF CLEANING HOLES. LOOP ALL CABLES AROUND THE LONGEST LENGTH IN THE PULL BOX.

2. PROVIDE NON SLIP COATING ON COVER.

3. ALL METAL PARTS SHALL BE HOT-DIPPED GALVANIZED AFTER FABRICATION.

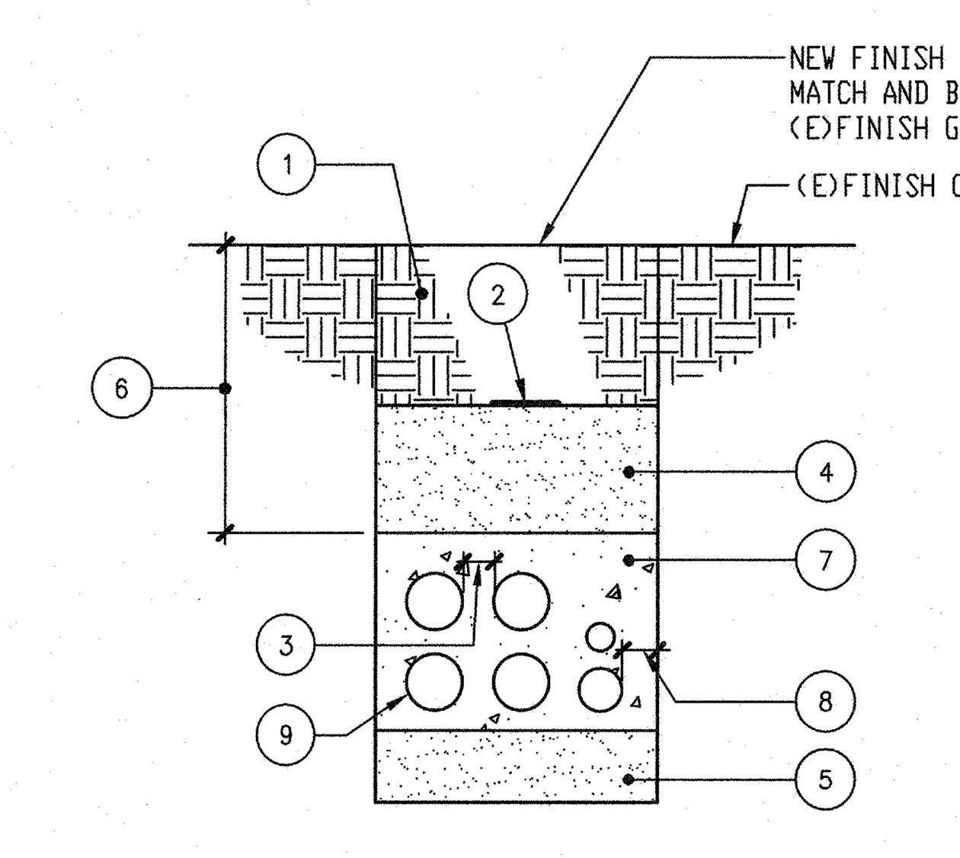
4. 'BROOKS' YARD BOX OR EQUAL WITH 9 1/2" X 16" I.D. CONCRETE BOX (NO. 3 BODY) WITH 3-TL CAST IRON COVER, UTILITY NAME (ELECTRICAL, SIGNAL, FIRE ALARM, ETC.) EMBOSSED 1/16"ABOVE SURFACE, 1" HIGH UPPERCASE.

PRECAST CONCRETE PULLBOX DETAIL	SCALE: NONE	G



NOTES:
TO BE USED WHEN CONNECTING TWO BUILDINGS FOR NO MORE THAN 6' SEPARATION. SIZE OF CONDUIT AS REQUIRED. FOR DISTANCES IN EXCESS OF 6' PROVIDE UNDERGROUND INSTALLATION.

CONDUIT SLEEVE SEISMIC DETAIL	SCALE: NONE	C

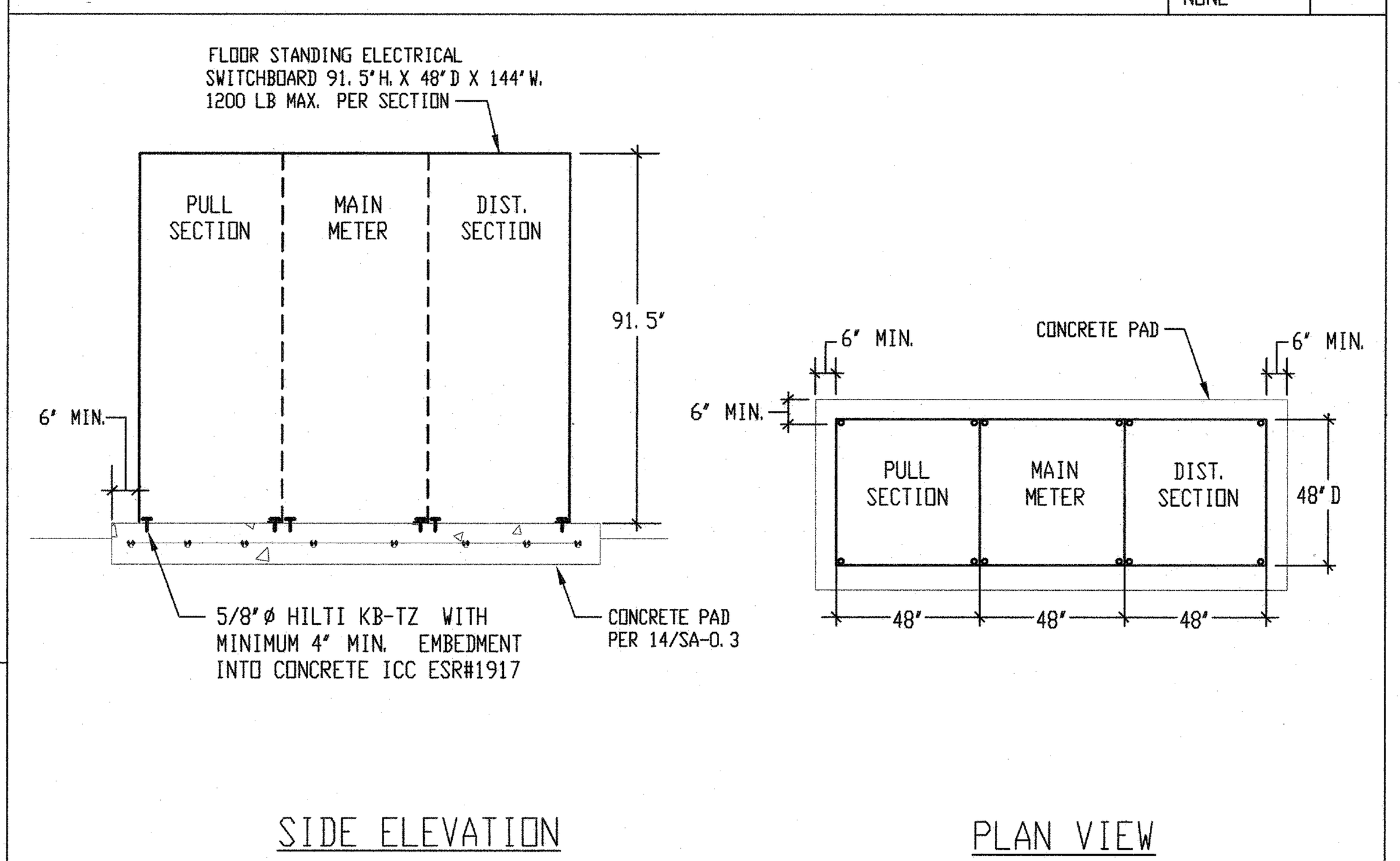


NOTE: SEE SPECIFICATION FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

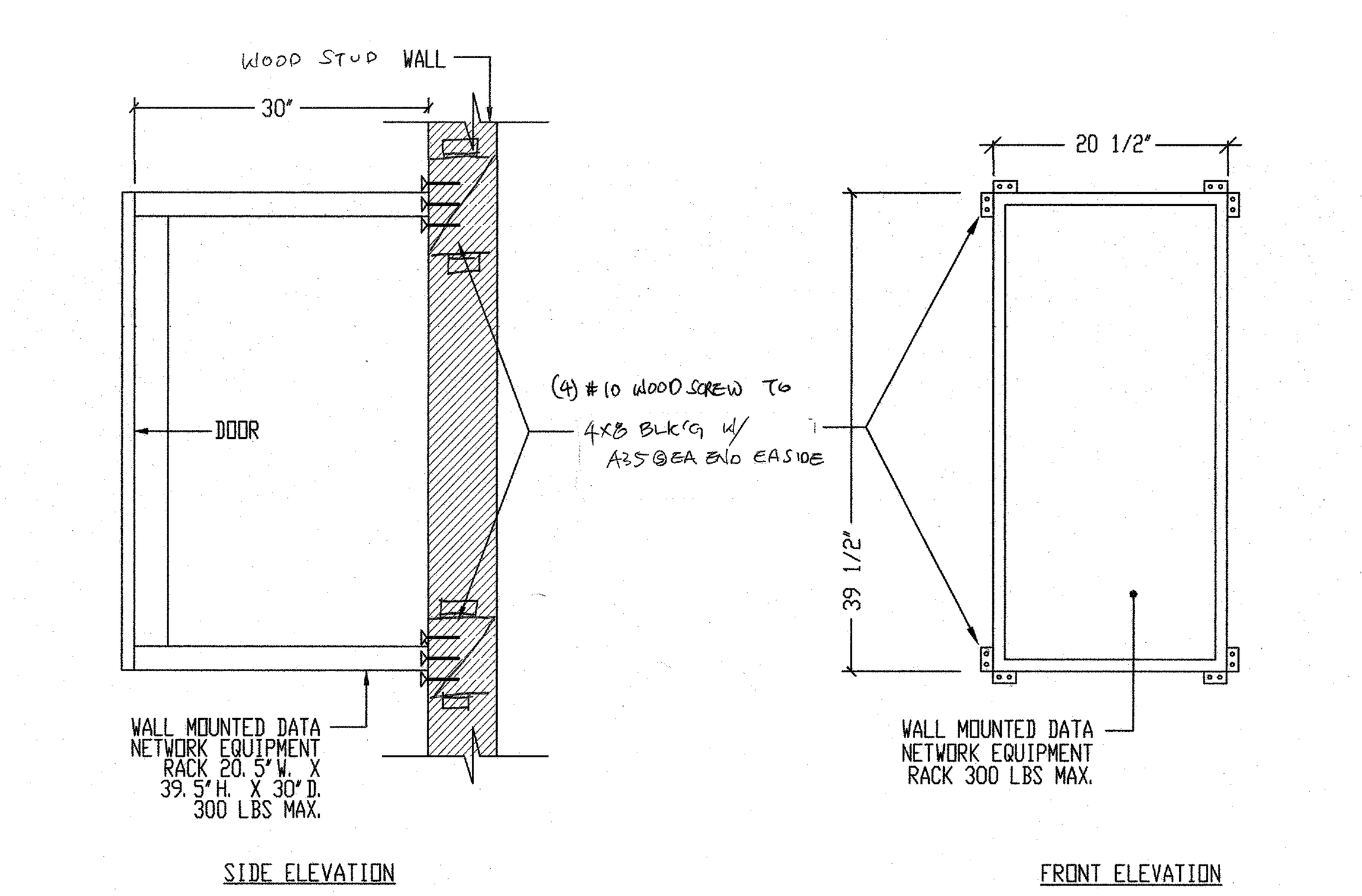
DUCT BANK NOTES:

1. NATIVE SOIL BACK FILL.
2. 3" WIDE WARNING TAPE LOCATED 12" BELOW GRADE. TAPE SHALL INDICATE: CAUTION BURIED ELECTRICAL CONDUIT".
3. 3" BETWEEN IDENTICAL SYSTEM CONDUITS OR 24" BETWEEN DIFFERENT SYSTEM CONDUITS.
4. DAMP SAND BACK FILL TO WITHIN 12" OF FINISH GRADE.
5. 6" BED OF DAMP SAND.
6. 36" IN TRAFFIC AREAS, 24" IN NON-TRAFFIC AREAS.
7. CONCRETE ENCASEMENT.
8. 3" MINIMUM COVERAGE.
9. REFER TO PLANS FOR CONDUITS SIZE AND QUANTITIES.

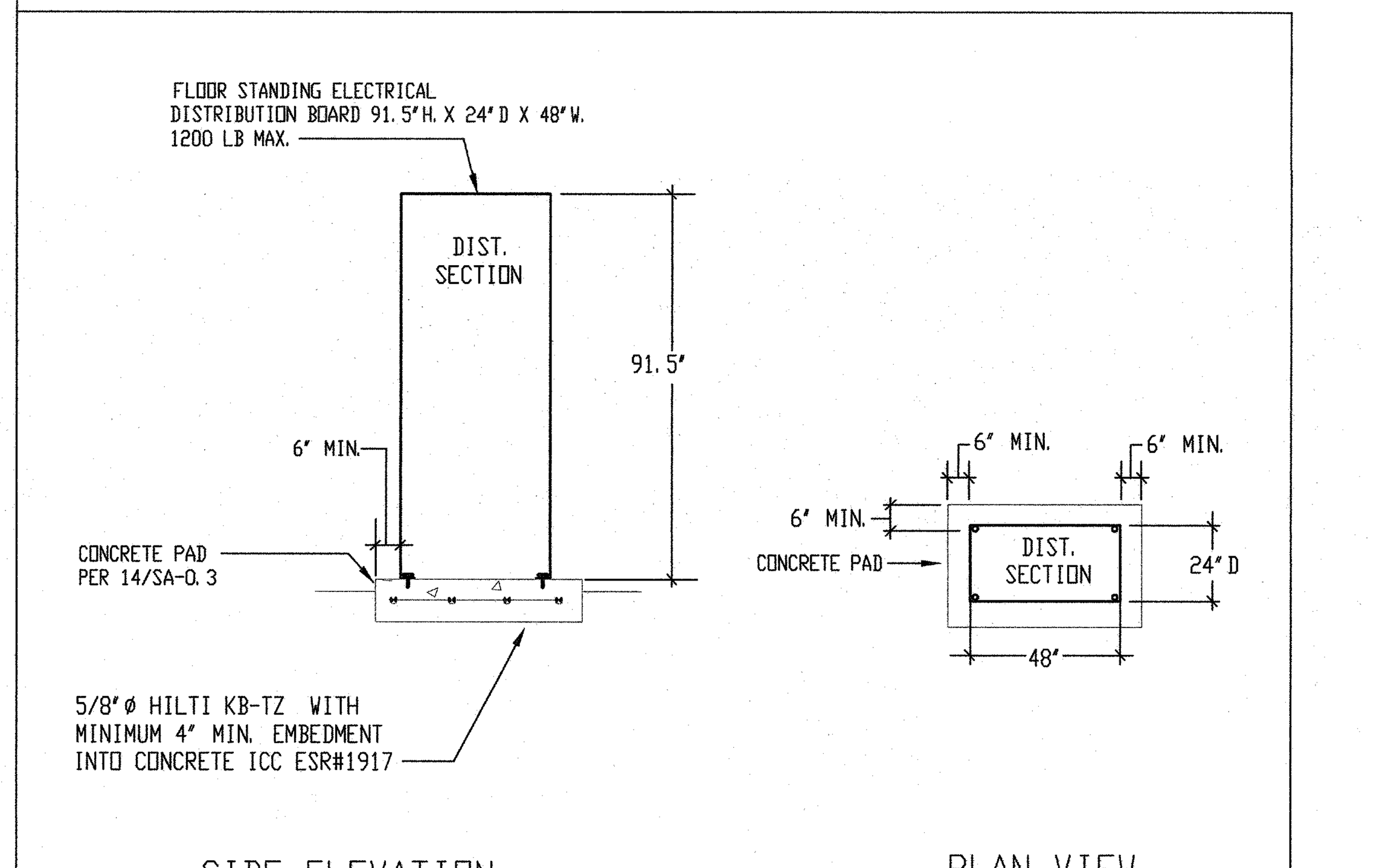
CONDUIT DUCT BANK DETAIL	SCALE: NONE	D



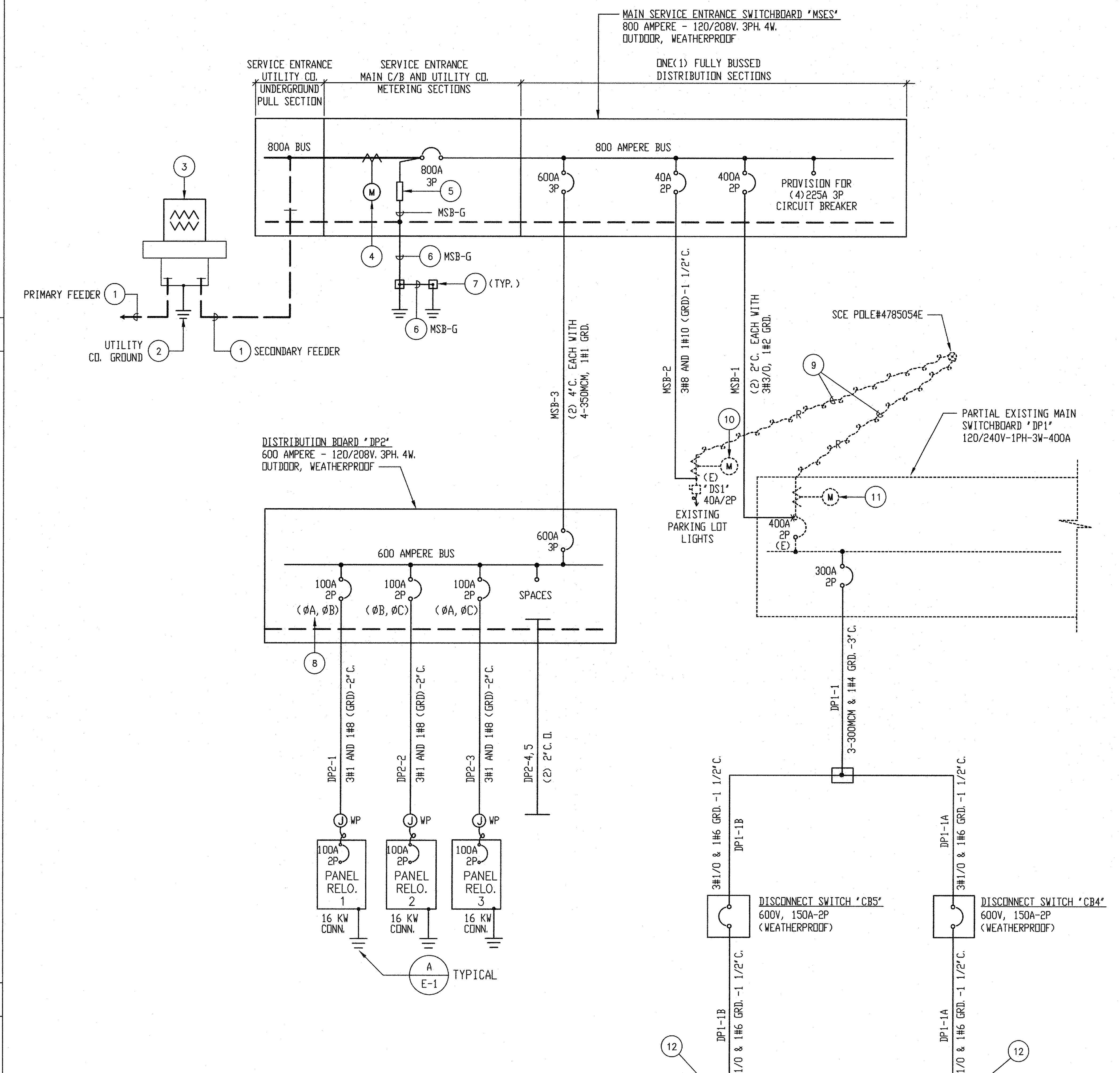
FLOOR STANDING ELECTRICAL EQUIPMENT "MSB" ANCHORAGE DETAIL	SCALE: NONE	E



WALL MOUNTED DATA EQUIPMENT RACK	SCALE: NONE	F



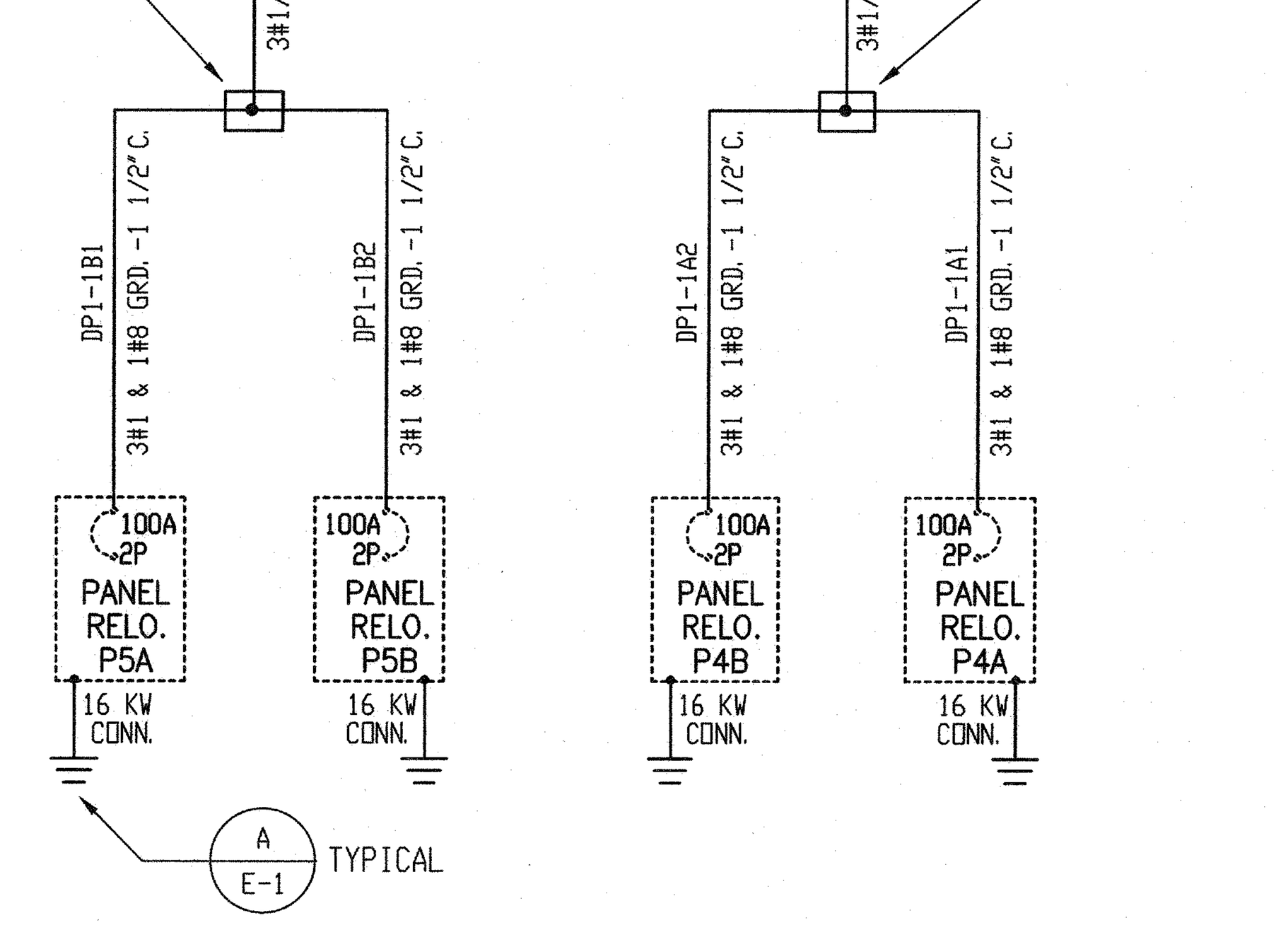
FLOOR STANDING ELECTRICAL EQUIPMENT 'DP2' ANCHORAGE DETAIL	SCALE: NONE	B



SERVICE LOAD CALCULATION:	
HIGH PEAK DEMAND (SCE METER #223000-005382)	
HIGH PEAK DEMAND (SCE METER #222010-524134)..........	= 58.0 KVA
X 125%..........	= 72.5 KVA
THREE (3) NEW BUILDINGS (16KW EACH)..........	= 48.0 KVA
TOTAL..........	= 120.5 KVA
	334 AMPS @ 120/208V. 3PH. 4W

SINGLE LINE DIAGRAM NOTES:

1. DASHED LINE WORK INDICATES EXISTING EQUIPMENT, DEVICES AND FEEDERS. SOLID LINE WORK INDICATES EQUIPMENT, DEVICES, FEEDERS AND WORK PROVIDED IN THIS CONTRACT.
2. ALL FEEDERS SHALL BE COPPER WITH 90° C. (THHN/THWN) INSULATION.



PLAN NOTES:

1. PROVIDE UNDERGROUND CONDUIT AND CONDUCTORS AS REQUIRED BY SERVING ELECTRICAL UTILITY COMPANY.
2. TERMINATE AS DIRECTED BY SERVING ELECTRICAL UTILITY COMPANY.
3. SERVING ELECTRICAL UTILITY COMPANY TRANSFORMER, TRANSFORMER PAD, SLAB BOX AND GROUNDING. PROVIDE AS REQUIRED BY SERVING ELECTRICAL UTILITY COMPANY.
4. METERING PROVISION SHALL COMPLY WITH SERVING ELECTRICAL UTILITY COMPANY REQUIREMENTS.
5. NEUTRAL TO GROUND REMOVABLE BUS LINK.
6. PROVIDE 1#1 - 1"C.
7. PROVIDE 12" X 12" X 12"D. BOTTOMLESS CONCRETE PULLBOX WITH PEA GRAVEL BASE AND CHEMICAL ASSEMBLY GROUND ROD. MOUNT PULLBOX FLUSH ON GRADE AND ENGRAVE COVER "GROUND" QUANTITY AS REQUIRED TO ACHIEVE 25 OHMS TO GROUND MAXIMUM.
8. CONNECT BUILDING LOAD TO PHASE BUSSING SO THAT THE LOADS ARE BALANCED ACROSS ALL THREE PHASES.
9. EXISTING OVERHEAD POWER CABLINGS TO BE REMOVED.
10. EXISTING SCE METER#222010-524134 TO BE REMOVED.
11. EXISTING SCE METER#223000-00382 TO BE REMOVED.
12. PROVIDE 12" X 12" X 6"D. WEATHERPROOF WALL MOUNTED PULLBOX FOR POWER.

SINGLE LINE DIAGRAM	SCALE: NONE	A

tBP architecture planning interiors
tBP/Architecture
4611 Teller Avenue
Newport Beach, CA 92660
ph: 949.673.0300 fx: 949.732.3895
architect

FBA Engineering
consultant

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP03 119149
AC FLS SS
DATE JAN 7 2019

DSA Los Angeles Regional Office
700 N. Alameda Street, Suite 5-500
Los Angeles, California 90012
ph: (213)897-3995 fx: (213)897-3159/0726

CLOUD PRESCHOOL RELOCATABLES
4444 CLOUD AVENUE
LA CRESCENTA, CALIFORNIA 91214
GLENDALE UNIFIED SCHOOL DISTRICT
owner

tBP project number : 20778.10
file name:
drawn by: checked by:
date: September 9, 2015
Rev: date: description:

drawing title:
SINGLE LINE DIAGRAM AND DETAILS

drawing no.:
E-3
drawing of

STATE OF CALIFORNIA
INDOOR LIGHTING
CEC-NRCC-LTI-01-E (Revised 04/16) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-01-E
Indoor Lighting	(Page 5 of 6)
Project Name: Cloud Preschool Relocatables	Date Prepared: 09-25-2017

A Separate Lighting Schedule Must Be Filled Out for Conditioned and Unconditioned Spaces. Installed Lighting Power listed on this Lighting Schedule is only for:
[X] CONDITIONED SPACE ☐ UNCONDITIONED SPACE

H. Indoor Lighting Schedule and Field Inspection Energy Checklist

Luminaire Schedule 01 Name or Item Tag	02 Complete Luminaire Description (i.e, 3 lamp fluorescent troffer, F32T8, one dimmable electronic ballast)	Installed Watts 03 Watts per Luminaire	04 How wattage was determined: CEC Default from NA8	04 According to §130.0(c)	05 Number Luminaires	06 Total Installed Watts in this area (H03 xH05)	Location 07 Primary Function area in which these luminaires are installed	Field Inspector[1] 08 Pass	Fail
1A	LED 2' X 4'	75	☐	[X]	12	900	CLASSROOMS	○	○
1B	LED 2' X 4'	48	☐	[X]	13	624	OFFICES	○	○
4	LED 8" X 48"	60	☐	[X]	3	180	RESTROOMS	○	○
			☐	☐				○	○
			☐	☐				○	○
			☐	☐				○	○
			☐	☐				○	○
			☐	☐				○	○
			☐	☐				○	○
				INSTALLED WATTS PAGE TOTAL:		1,704	Enter sum total of all pages into NRCC-LTI-01-E; Page 2		

STATE OF CALIFORNIA
INDOOR LIGHTING
CEC-NRCC-LTI-01-E (Revised 04/16) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-01-E
Indoor Lighting	(Page 3 of 6)
Project Name: Cloud Preschool Relocatables	Date Prepared: 09-25-2017

E. Declaration of Required Certificates of Acceptance
Declare by selecting yes for all of the Certificates of Acceptance that will be submitted. (Retain copies and verify forms are completed and signed.)

YES	NO	FORM/TITLE	
○	○	NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	☐ Field Inspector
○	○	NRCA-LTI-03-A - Must be submitted for automatic daylight controls.	☐ Field Inspector
○	○	NRCA-LTI-04-A - Must be submitted for demand responsive lighting controls.	☐ Field Inspector
○	○	NRCA-LTI-05-A - Must be submitted for institutional tuning power adjustment factor (PAF).	

A Separate Lighting Schedule Must Be Filled Out for Conditioned and Unconditioned Spaces. Installed Lighting Power listed on this Lighting Schedule is only for: [X] CONDITIONED SPACE ☐ UNCONDITIONED SPACE

F. Indoor Lighting Schedule and Field Inspection Energy Checklist
- ☐ The actual indoor lighting power listed on the next 2 pages includes all installed permanent and planned portable lighting systems.
- ☐ When Complete Building Method is used for compliance, list each different type of luminaire on separate lines.
- ☐ When Area Category Method or Tailored Method is used for compliance, list each different type of luminaire by each different function area on separate lines
- ☐ Also include track lighting in schedule, and submit the track lighting compliance document (NRCC-LTI-05-E) when line-voltage track lighting is installed.

STATE OF CALIFORNIA
INDOOR LIGHTING
CEC-NRCC-LTI-01-E (Revised 04/16) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-01-E
Indoor Lighting	(Page 2 of 6)
Project Name: Cloud Preschool Relocatables	Date Prepared: 09-25-2017

C. Summary of Allowed Lighting Power
Conditioned and Unconditioned space Lighting must not be combined for compliance

	Indoor Lighting Power for Conditioned Spaces		Watts	Indoor Lighting Power for Unconditioned Spaces		Watts
01	**Installed** Lighting NRCC-LTI-01-E, Table H, page 5	+	1,704	**Installed** Lighting NRCC-LTI-01-E, Table H, page 5	+	
02	Portable Only for Offices NRCC-LTI-01-E, Table G, page 4	+	0			
03	Minus Lighting Control Credits NRCC-LTI-02-E, page 2	-	0	Minus Lighting Control Credits NRCC-LTI-02-E, page 2	-	
04	Adjusted **Installed** Lighting Power (row 1 plus row 2 minus row 3)	=	1,704	Adjusted **Installed** Lighting Power (row 1 minus row 3)	=	
	Complies ONLY if **Installed ≤ Allowed** (Box 04 < Box 05)			Complies ONLY if **Installed ≤ Allowed** (Box 04 < Box 05)		
05	**Allowed** Lighting Power Conditioned NRCC-LTI-03-E, page 1. Alterations with replacement luminaires that have at least 50/35%lower power compared to the original existing luminaires, may instead use the allowed wattage from NRCC-LTI-06, page 2		2,736	**Allowed** Lighting Power Unconditioned NRCC-LTI-03-E, page 1. Alterations with replacement luminaires that have at least 50/35% lower power compared to the original existing luminaires, may instead use the allowed wattage from NRCC-LTI-06, page 2		

D. Declaration of Required Certificates of Installation
Declare by selecting yes for all of the Certificates that will be submitted. (Retain copies and verify forms are completed and signed.)

YES	NO	Form/Title	
⊗	○	NRCI-LTI-01-E - Must be submitted for all buildings	☐ Field Inspector
⊗	○	NRCI-LTI-02-E - Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance.	☐ Field Inspector
⊗	○	NRCI-LTI-03-E - Must be submitted for a line-voltage track lighting integral current limiter, or for a supplementary overcurrent protection panel used to energize only line-voltage track lighting, to be recognized for compliance.	☐ Field Inspector
○	⊗	NRCI-LTI-04-E - Must be submitted for two interlocked systems serving an auditorium, a convention center, a conference room, a multipurpose room, or a theater to be recognized for compliance.	☐ Field Inspector
○	⊗	NRCI-LTI-05-E - Must be submitted for a Power Adjustment Factor (PAF) to be recognized for compliance.	☐ Field Inspector
○	⊗	NRCI-LTI-06-E - Must be submitted for additional wattage installed in a video conferencing studio to be recognized for compliance.	☐ Field Inspector

STATE OF CALIFORNIA
INDOOR LIGHTING
CEC-NRCC-LTI-01-E (Revised 04/16) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-01-E
Indoor Lighting	(Page 1 of 6)
Project Name: Cloud Preschool Relocatables	Date Prepared: 09-25-2017

A. General Information 2,880

Climate Zone: 3	Conditioned Floor Area:					
	Unconditioned Floor Area:					
Building Type:	☐	Nonresidential	☐	High-Rise Residential	☐	Hotel/Motel
[X] Schools	☐	Relocatable Public Schools	☐	Conditioned Spaces	☐	Unconditioned Spaces
Phase of Construction:	☐	New Construction	[X]	Addition	☐	Alteration
Method of Compliance:	[X]	Complete Building	☐	Area Category	☐	Tailored
Project Address:						

B. Lighting Compliance Documents (select yes for each document included)
For detailed instructions on the use of this and all Energy Efficiency Standards compliance documents, refer to the Nonresidential Manual published by the California Energy Commission.

YES	NO	COMP. DOC.	TITLE
⊗	○	NRCC-LTI-01-E	Certificate of Compliance. All Pages required on plans for all submittals.
⊗	○	NRCC-LTI-02-E	Lighting Controls, Certificate of Compliance, and PAF Calculation. All Pages required on plans for all submittals.
⊗	○	NRCC-LTI-03-E	Indoor Lighting Power Allowance
○	⊗	NRCC-LTI-04-E	Tailored Method Worksheets
○	⊗	NRCC-LTI-05-E	Line Voltage Track Lighting Worksheets
○	○	NRCC-LTI-06-E	Indoor Lighting Existing Conditions

STATE OF CALIFORNIA
INDOOR LIGHTING – LIGHTING CONTROLS
CEC-NRCC-LTI-02-E (Revised 01/16) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-02-E
Indoor Lighting - Lighting Controls	(Page 3 of 3)
Project Name: Cloud Preschool Relocatables	Date Prepared: 09-25-2017

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT
1. I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Stephen R. Zajicek PE	Documentation Author Signature:
Company: FBA Engineering	Signature Date: 09-25-2017
Address: 150 Paularino Ave., Suite A120	CEA Certification Identification (if applicable): N/A
City/State/Zip: Costa Mesa, CA 92626	Phone: (949) 852 9995

RESPONSIBLE PERSON'S DECLARATION STATEMENT
I certify the following under penalty of perjury, under the laws of the State of California:
1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Stephen R. Zajicek PE	Responsible Designer Signature:
Company: FBA Engineering	Date Signed: 09-25-2017
Address: 150 Paularino Ave., Suite A120	License: E10372
City/State/Zip: Costa Mesa, CA 92626	Phone: (949) 852 9995

STATE OF CALIFORNIA
INDOOR LIGHTING – LIGHTING CONTROLS
CEC-NRCC-LTI-02-E (Revised 01/16) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-02-E
Indoor Lighting - Lighting Controls	(Page 2 of 3)
Project Name: Cloud Preschool Relocatables	Date Prepared: 09-25-2017

A separate document must be filled out for Conditioned and Unconditioned Spaces. This page is used only for the following:
☐ CONDITIONED SPACES ☐ UNCONDITIONED SPACES

B. Mandatory and Prescriptive Indoor Lighting Control Schedule, PAF Calculation, and Field Inspection Checklist

01 Location in Building	02 Type/ Description of Lighting Control (i.e.: occupancy sensor, automatic time switch, dimmer, automatic daylight, etc...)	03 # of Units	04 §130.1(a)	05 §130.0(b)	06 §130.1(c)	07 §130.1(d)	08 §130.1(e)	09 §140.6(a)2	10 §140.6(d)	11 Watts of Controlled Lighting	12 PAF	13 Control Credit (11 x 12)	14 ✓ if Acceptance Test Required	15 Field Inspector Pass	Fail
BUILDING 1,2,3	OCCUPANCY SENSOR									1,704			☐	○	○
													☐	○	○
													☐	○	○
													☐	○	○
													☐	○	○
													☐	○	○
													☐	○	○

Columns 04–10: Standards Complying With[1] (✓ all that apply, or leave empty if Exempted). Columns 11–13: PAF Credit Calculation[2].

Control Credit PAGE TOTAL (Sum of Column 13):
IF MULTIPLE PAGES ARE USED, ENTER SUM TOTAL OF Control Credit for all pages HERE (Sum of all Column 13):
Enter Control Credit total into NRCC-LTI-01-E; Page 1.

1. §130.1(a) = Manual area controls; §130.0(b) = Multi Level; §130.1(c) = Auto Shut-Off; §130.1(d) = Mandatory Daylight; §130.1(e) = Demand Responsive; §140.6(d) = Additional lighting controls installed to earn a PAF; §140.6(d) = Prescriptive Secondary Sidelit Daylight Controls.
2. Check Table 140.6-A for correct Factor. PAFs shall not be traded between conditioned and unconditioned spaces. As a condition to earn a PAF, an Installation Certificate is also required to be filled out, signed, and submitted.

STATE OF CALIFORNIA
INDOOR LIGHTING – LIGHTING CONTROLS
CEC-NRCC-LTI-02-E (Revised 01/16) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-02-E
Indoor Lighting - Lighting Controls	(Page 1 of 3)
Project Name: Cloud Preschool Relocatables	Date Prepared: 09-25-2017

A. Mandatory Lighting Control Declaration Statements (Indicate if the measure applies by checking yes or no below.)

YES	NO	Control Requirements
⊗	○	Lighting shall be controlled by self-contained lighting control devices which are certified to the Energy Commission according to the Title 20 Appliance Efficiency Regulations in accordance with Section 110.9.
⊗	○	Lighting shall be controlled by a lighting control system or energy management control system in accordance with §110.9. An Installation Certificate shall be submitted in accordance with Section 130.4(b).
○	⊗	One or more Track Lighting Integral Current Limiters shall be installed which have been certified to the Energy Commission in accordance with §110.9 and §130.0. Additionally, an Installation Certificate shall be submitted in accordance with Section 130.4(b).
○	⊗	A Track Lighting Supplementary Overcurrent Protection Panel shall be installed in accordance with Section 110.9 and Section 130.0. Additionally, an Installation Certificate shall be installed in accordance with Section 130.4(b).
○	⊗	All lighting controls and equipment shall comply with the applicable requirements in §110.9 and shall be installed in accordance with the manufacturer's instructions in accordance with Section 130.1.
⊗	○	All luminaires shall be functionally controlled with manual ON and OFF lighting controls in accordance with Section 130.1(a).
⊗	○	General lighting shall be separately controlled from all other lighting systems in an area. Floor and wall display, window display, case display, ornamental, and special effects lighting shall each be separately controlled on circuits that are 20 amps or less. When track lighting is used, general, display, ornamental, and special effects lighting shall each be separately controlled; in accordance with Section 130.1(a)4.
⊗	○	The general lighting of any enclosed area 100 square feet or larger, with a connected lighting load that exceeds 0.5 watts per square foot shall meet the multi-level lighting control requirements in accordance with Section 130.1(b).
⊗	○	All installed indoor lighting shall be equipped with controls that meet the applicable Shut-OFF control requirements in Section 130.1(c).
○	⊗	Lighting in all Daylit Zones shall be controlled in accordance with the requirements in Section 130.1(d) and daylit zones are shown on the plans.
○	⊗	Lighting power in buildings larger than 10,000 square feet shall be capable of being automatically reduced in response to a Demand Responsive Signal in accordance with Section 130.1(e).
⊗	○	Before an occupancy permit is granted for a newly constructed building or area, or a new lighting system serving a building, area, or site is operated for normal use, indoor lighting controls serving the building, area, or site shall be certified as meeting the Acceptance Requirements for Code Compliance in accordance with Section 130.4.(a). The controls required to meet the Acceptance Requirements include automatic daylight controls, automatic shut-OFF controls, and demand responsive controls.

STATE OF CALIFORNIA
INDOOR LIGHTING
CEC-NRCC-LTI-01-E (Revised 04/16) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-01-E
Indoor Lighting	(Page 6 of 6)
Project Name: Cloud Preschool Relocatables	Date Prepared: 09-25-2017

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT
1. I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Stephen R. Zajicek PE	Documentation Author Signature:
Company: FBA Engineering	Signature Date: 09-25-2017
Address: 150 Paularino Ave., Suite A120	CEA Certification Identification (if applicable): N/A
City/State/Zip: Costa Mesa, CA 92626	Phone: (949) 852 9995

RESPONSIBLE PERSON'S DECLARATION STATEMENT
I certify the following under penalty of perjury, under the laws of the State of California:
1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Stephen R. Zajicek PE	Responsible Designer Signature:
Company: FBA Engineering	Date Signed: 09-25-2017
Address: 150 Paularino Ave., Suite A120	License: E10372
City/State/Zip: Costa Mesa, CA 92626	Phone: (949) 852 9995

STATE OF CALIFORNIA
INDOOR LIGHTING POWER ALLOWANCE
CEC-NRCC-LTI-03-E (Revised 04/16) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-03-E
Certificate of Compliance - Indoor Lighting Power Allowance	(Page 4 of 4)
Project Name: Cloud Preschool Relocatables	Date Prepared: 09-25-2017

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT
1. I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Stephen R. Zajicek PE	Documentation Author Signature:
Company: FBA Engineering	Signature Date: 20-25-2017
Address: 150 Paularino Ave., Suite A120	CEA Certification Identification (if applicable): N/A
City/State/Zip: Costa Mesa, CA 92626	Phone: (949) 852 9995

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Company: FBA Engineering	Date Signed: 09-25-2017
Address: 150 Paularino Ave., Suite A120	License: E10372
City/State/Zip: Costa Mesa, CA 92626	Phone: (949) 852 9995

STATE OF CALIFORNIA
INDOOR LIGHTING POWER ALLOWANCE
CEC-NRCC-LTI-03-E (Revised 04/16) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-03-E
Certificate of Compliance - Indoor Lighting Power Allowance	(Page 1 of 4)
Project Name: Cloud Preschool Relocatables	Date Prepared: 09-25-2017

A separate page must be filled out for Conditioned and Unconditioned Spaces. This page is only for:
[X] CONDITIONED spaces ☐ UNCONDITIONED spaces

A. SUMMARY TOTALS OF LIGHTING POWER ALLOWANCES
If using Complete Building Method for compliance, use only the total in column (a) as total allowed building watts.
If using Area Category Method, Tailored Method, or a combination of Area Category and Tailored Method for compliance, use only the total in column (b) as the total allowed building watts

	(a)	(b)
01 Complete Building Method Allowed Watts. Documented in section B of NRCC-LTI-03-E (below on this page)	2,736	
02 Area Category Method Allowed Watts. Documented in section C-1 of NRCC-LTI-03-E (below on this page)		
03 Tailored Method Allowed Watts. Documented in section A of NRCC-LTI-04-E		
TOTAL ALLOWED BUILDING WATTS. Enter number into correct cell on NRCC-LTI-01, Page 2, Row 1		

☐ Check here if building contains both conditioned and unconditioned areas.

B. COMPLETE BUILDING METHOD LIGHTING POWER ALLOWANCE

01 TYPE OF BUILDING (From §140.6 Table 140.6-B)	02 WATTS PER ft^2	X	03 COMPLETE BLDG. AREA	=	04 ALLOWED WATTS
SCHOOL	0.95		2,880		2,736
	Total Area:				
Total Watts. Enter Total Watts into section A, row 1 (Above on this page)					

C -1 AREA CATEGORY METHOD TOTAL LIGHTING POWER ALLOWANCES	Watts
Total from section C-2.	
Total from section C-3.	
Total Watts. Enter Total Watts into section A, row 2 (Above on this page).	
For Alterations Only – Reduced lighting power option (Total Allowed Watts x 0.85). Enter this value into section A, row 2 if using this option.	

LIGHT FIXTURE SCHEDULE

FBA # 212.178

TYPE	LIGHT FIXTURE DESCRIPTION	FIXTURE MAXIMUM TOTAL INPUT WATTS	FIXTURE MINIMUM LUMEN OUTPUT EFFICIENCY	FIXTURE MOUNTING	LAMP TYPE	LAMP COLOR TEMPERATURE K°	LAMP CRI, NOT LESS THAN	EACH LAMP INITIAL MINIMUM LUMEN OUTPUT	TOTAL ALL LAMPS INITIAL MINIMUM LUMEN OUTPUT	LAMP QUANTITY
1A	LED, RECESSED, 2 X 4 WITH SINGLE PIECE EXTRUDED DIFFUSE LENS; STEEL HOUSING IN WHITE FINISH; 0-10V. INTEGRAL DIMMABLE DRIVER(S); SUITABLE FOR T-BAR CEILINGS. PINNACLE #LU24W-4075-W OR EQUAL BY CORELITE, LEDALITE	75	-	RECESSED	LED	4000	82	-	7443	-
1B	LED, RECESSED, 2 X 4 WITH SINGLE PIECE EXTRUDED DIFFUSE LENS; STEEL HOUSING IN WHITE FINISH; 0-10V. INTEGRAL DIMMABLE DRIVER(S); SUITABLE FOR T-BAR CEILINGS. PINNACLE #LU24W-4047-W OR EQUAL BY CORELITE, LEDALITE	48	-	RECESSED	LED	4000	82	-	4741	-
2	LED, SURFACE, VANDAL RESISTANT, 8" X 48" WITH OPAL POLYCARBONATE LENS; STEEL HOUSING IN WHITE FINISH; 0-10V INTEGRAL DIMMABLE DRIVER (S); DAMP LOCATION LISTED. FAIL-SAFE #HVL8-4-LD3-2-LO-40-UNV-O-ED OR EQUAL	60	-	SURFACE	LED	4000	85	-	4250	-
3	LED, EXIT SIGN; EDGE-LIT WITH GREEN LETTERS; BRUSHED ALUMINUM HOUSING; CEILING OR WALL MOUNT; INTEGRAL BATTERY PACK FOR 90 MINUTES OF EMERGENCY ILLUMINATION. LITHONIA #LRP-1/2-GMR-X-120/277 ISOLITE #ELT-AC-G-XX-BA-XX-XX	5	-	CEILING/WALL	LED	-	-	-	-	-
4	LED TRAPEZOIDAL WALL LIGHT IN FINISH AS SELECTED BY ARCHITECT; ONE PIECE HEAVY DUTY DIE-CAST ALUMINUM HOUSING, ELECTRONIC LED DRIVER; WET LOCATION LISTED; IP66 RATED; TYPE IV DISTRIBUTION; INTEGRAL EMERGENCY BATTERY BACK-UP FOR 90 MINUTES OF EMERGENCY ILLUMINATION; COLOR AS SELECTED BY ARCHITECT. LITHONIA WST LED SERIES OR EQUAL GARDCO, McGRAW	24	-	WALL +8'-0" A.F.F.	LED	4000	-	-	1959	-

tBP
architecture planning interiors
LICENSED ARCHITECT HUNG L. CHENG NO. C34187 REN. 5-30-17 STATE OF CALIFORNIA
tBP/Architecture
4611 Teller Avenue
Newport Beach, CA 92660
ph: 949.673.0300 fx: 949.732.3895
architect

FBA Engineering
Consulting Electrical Engineers
150 Paularino Avenue Suite A120
Costa Mesa, CA 92626
949.852.9995 • 949.852.1657 (fax)
fbaengr.com
FBA Job Number: 212.178
REGISTERED PROFESSIONAL ENGINEER STEPHEN R. ZAJICEK No. E 10372 Exp. 09-30-18 ELECTRICAL STATE OF CALIFORNIA
consultant

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP03 119149
AC N.N. FLS SC SS PJ
DATE JAN 7 2019

DSA Los Angeles Regional Office
700 N. Alameda Street, Suite 5-500
Los Angeles, California 90012
ph: (213)897-3995 fx: (213)897-3159/0726

CLOUD PRESCHOOL RELOCATABLES
4444 CLOUD AVENUE
LA CRESCENTA, CALIFORNIA 91214
GLENDALE UNIFIED SCHOOL DISTRICT
owner

tBP project number : 20776.10
file name:
drawn by: checked by:
date: September 9, 2015
Rev: date: description:

drawing title:
INDOOR TITLE 24

drawing no.:
E-4
drawing of

FBA Engineering / Plot Date: 12/6/2018 5:13 PM / Plotted by: William Ramirez / Drawing Location: I:\212\178\CAD with interior walls\E-4_212178.dwg

STATE OF CALIFORNIA
OUTDOOR LIGHTING
CEC-NRCC-LTO-01-E (Revised 04/16) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-01-E
Outdoor Lighting	(Page 4 of 4)
Project Name: Cloud Pre-School Relocatables	Date Prepared: 09-25-2017

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT
1. I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name:	Documentation Author Signature:
Stephen R. Zajicek PE	SJaR
Company: FBA Engineering	Signature Date: 09-25-2017
Address: 150 Paularino Ave., Suite A120	CEA Certification Identification (if applicable): N/A
City/State/Zip: Costa Mesa, CA 92626	Phone: (949) 852 9995

RESPONSIBLE PERSON'S DECLARATION STATEMENT
I certify the following under penalty of perjury, under the laws of the State of California:
1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name:	Responsible Designer Signature:
Stephen R. Zajicek PE	SJaR
Company: FBA Engineering	Date Signed: 09-25-2017
Address: 150 Paularino Ave., Suite A120	License: E10372
City/State/Zip: Costa Mesa, CA 92626	Phone: (949) 852 9995

STATE OF CALIFORNIA
OUTDOOR LIGHTING
CEC-NRCC-LTO-01-E (Revised 04/16) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-01-E
Outdoor Lighting	(Page 3 of 4)
Project Name: Cloud Preschool Relocatables	Date Prepared: 09-25-2017

I. Outdoor Lighting Schedule and Field Inspection Energy Checklist

Luminaire Schedule		Installed Watts				Location	Cutoff	Field Inspector	
01	02	03	04	05	06	07	08	09	
Name or Item Tag	Complete Luminaire Description	Watts per Luminaire	How wattage was determined: CEC Default from NA8	How wattage was determined: According to §130.0(c)	Number of Luminaires	Total Installed Watts this area (03 x 05)	Primary Function area in which these luminaires are installed (Outdoor Lighting Zone)	BUG Rating	Pass	Fail
4	LED WALL LIGHT	24	☐	☒	10	240	HARDSCAPE	UH: UL: FVH: BVH: FH: BH:	○	○
			☐	☐				UH: UL: FVH: BVH: FH: BH:	○	○
			☐	☐				UH: UL: FVH: BVH: FH: BH:	○	○
		INSTALLED WATTS PAGE TOTAL:					Enter sum total of all pages (Sum Total INSTALLED Outdoor lighting wattage) into NRCC-LTO-01-E; Page 1			

STATE OF CALIFORNIA
OUTDOOR LIGHTING
CEC-NRCC-LTO-01-E (Revised 04/16) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-01-E
Outdoor Lighting	(Page 2 of 4)
Project Name: Cloud Preschool Relocatables	Date Prepared: 09-25-2017

G. Schedule of Luminaires Exempt from the Cutoff Requirements in §130.2(b)

01	02
Name or Symbol	Description of exempt luminaire in accordance with the exemptions

H. Schedule of Luminaires Exempt from the Outdoor Lighting Control Requirements in §130.2(c)

01	02
Name or Symbol	Description of exempt luminaire in accordance with the exemptions

STATE OF CALIFORNIA
OUTDOOR LIGHTING
CEC-NRCC-LTO-01-E (Revised 04/16) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-01-E
Outdoor Lighting	(Page 1 of 4)
Project Name: Cloud Preschool Relocatables	Date Prepared: 09-25-2017

A. General Information

Project Address: 4444 Cloud Ave., La Crescenta, CA 91214	Total Illuminated Hardscape Area:
Phase of Construction: ☐ New Construction ☒ Addition ☐ Alteration	
Outdoor Lighting Zone (LZ) ☐ LZ-1 ☐ LZ-2 ☒ LZ-3 ☐ LZ-4	

I have confirmed with the AHJ which LZ applies to this site. For default lighting zone designations, see Title 24 Part 6, §10-114

B. Lighting Compliance Documents (check box for each document included)

For detailed instructions on the use of this and all Energy Efficiency Standards compliance documents, refer to the Nonresidential Manual published by the California Energy Commission.

☒	NRCC-LTO-01-E	Certificate of Compliance
☒	NRCC-LTO-02-E	Outdoor Lighting Controls Certificate of Compliance
☒	NRCC-LTO-03-E	Outdoor Lighting Power Allowance Certificate of Compliance
☐	NRCC-LTO-04-E	Outdoor Lighting Existing Conditions Certificate of Compliance

C. Summary of Allowed Outdoor Lighting Power

		Watts
01	**Sum Total ALLOWED** Outdoor Lighting Wattage from NRCC-LTO-03-E, page 1. Alterations with NO increase of connected lighting load may instead use the allowed wattage from NRCC-LTO-04, page 2.	831
	Complies ONLY if **Installed** (Box 02) ≤ **Allowed** (Box 01)	
02	**Sum Total INSTALLED** Outdoor Lighting Wattage from NRCC-LTO-01-E, page 3.	240

D. Declaration of Required Installation Certificates
Declare by checking all Installation Certificates that will be submitted. (Retain copies and verify compliance documents are completed and signed.)

☐ NRCI-LTO-01-E - Must be submitted for all buildings	☐ Field Inspector
☐ NRCI-LTO-02-E - Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance.	☐ Field Inspector

E. Declaration of Required Certificates of Acceptance
Declare by checking all of the Certificates of Acceptance that will be submitted. (Retain copies and verify compliance documents are completed and signed.)

☐ NRCA-LTO-02-A - Must be submitted for outdoor lighting controls.	☐ Field Inspector

F. Schedule of Luminaires Exempt from the Outdoor Lighting Power Requirements in §140.7

01	02
Name or Symbol	Description of exempt luminaire in accordance with the exemptions

STATE OF CALIFORNIA
OUTDOOR LIGHTING CONTROLS
CEC-NRCC-LTO-02-E (Revised 09/16) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-02-E
Outdoor Lighting Controls	(Page 3 of 3)
Project Name: Cloud Pre-School Relocatables	Date Prepared: 09-25-2017

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT
1. I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name:	Documentation Author Signature:
Stephen R. Zajicek PE	SJaR
Company: FBA Engineering	Signature Date: 09-25-2017
Address: 150 Paularino Ave., Suite A120	CEA Certification Identification (if applicable): N/A
City/State/Zip: Costa Mesa, CA 92626	Phone: (949) 852 9995

RESPONSIBLE PERSON'S DECLARATION STATEMENT
I certify the following under penalty of perjury, under the laws of the State of California:
1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name:	Responsible Designer Signature:
Stephen R. Zajicek PE	SJaR
Company: FBA Engineering	Date Signed: 09-25-2017
Address: 150 Paularino Ave., Suite A120	License: E10372
City/State/Zip: Costa Mesa, CA 92626	Phone: (949) 852 9995

STATE OF CALIFORNIA
OUTDOOR LIGHTING CONTROLS
CEC-NRCC-LTO-02-E (Revised 09/16) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-02-E
Outdoor Lighting Controls	(Page 2 of 3)
Project Name: Cloud Preschool Relocatables	Date Prepared: 09-25-2017

B. Mandatory Outdoor Lighting Control Schedule and Field Inspection Checklist

Outdoor Lighting Control Schedule		Standards Complying With (✓ all that apply, or leave empty if Exempted)						✓ If Acceptance Test Required	Field Inspector	
01	02	03	04	05	06	07	08	09	10	11	
Location and Application of Luminaires Being Controlled	Type/ Description of Lighting Control (i.e. outdoor motion sensor, outdoor photocontrol, outdoor astronomical time-switch control, automatic scheduling control, part-night outdoor lighting control)	# of Units	§130.2(b)1	§130.2(b)2	§130.2(b)3	§130.2(b)4	§130.2(b)5	§130.2(b)6		Pass	Fail
EXTERIOR LIGHTING	TIME CLOCK ON/TIME CLOCK OFF	10	X	X	X	X	X	X	☐	○	○
									☐	○	○
									☐	○	○
									☐	○	○
									☐	○	○
									☐	○	○
									☐	○	○
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									☐	○	○
									☐	○	○

STATE OF CALIFORNIA
OUTDOOR LIGHTING CONTROLS
CEC-NRCC-LTO-02-E (Revised 09/16) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-02-E
Outdoor Lighting Controls	(Page 1 of 3)
Project Name: Cloud Preschool Relocatables	Date Prepared: 09-25-2017

A. Mandatory Outdoor Lighting Control Declaration Statements
Check all that apply:
- ☒ Lighting shall be controlled by self-contained lighting control devices which are certified to the Energy Commission according to the Title 20 Appliance Efficiency Regulations in accordance with §110.9(a).
- ☒ Lighting shall be controlled by a lighting control system or energy management control system in accordance with §110.9. An Installation Certificate shall be submitted in accordance with §130.4(b).
- ☒ All lighting controls and equipment shall comply with the applicable requirements in §110.9 and shall be installed in accordance with the manufacturer's instructions in accordance with §130.0(d).
- ☐ Part-Night Outdoor Lighting Controls, as defined in Section 100.1(b), shall meet the requirements in Section 110.9(b)5.
- ☐ All outdoor incandescent luminaires rated over 100 watts, determined in accordance with Section 130.0(c), shall be controlled by a motion sensor.
- ☐ All outdoor luminaires rated for use with lamps greater than 150 lamp watts, determined in accordance with Section 130.0(c), shall comply with Uplight and Glare requirements in accordance with Section 130.2(b)
- ☒ All installed outdoor lighting shall be controlled by a photocontrol or outdoor astronomical time-switch control, or other control capable of automatically switching OFF in accordance with Section 130.2(c)1.
- ☒ All installed outdoor lighting shall be circuited and independently controlled from other electrical loads by an automatic scheduling control in accordance with Section 130.2(c)2.
- ☐ All installed outdoor lighting, where the bottom of the luminaire is mounted 24 feet or less above the ground, shall be controlled with automatic lighting controls in accordance with Section 130.2(c)3.
- ☐ For Outdoor Sales Frontage, an automatic lighting control shall be installed in accordance with Section 130.2(c)4.
- ☐ For Building Facade, Ornamental Hardscape and Outdoor Dining lighting, an automatic lighting control shall be installed in accordance with Section 130.2(c)5
- ☒ Before an occupancy permit is granted for the newly constructed building or for the addition, or for any altered outdoor lighting controls, shall be certified as meeting the Acceptance Requirements for Code Compliance in accordance with §130.4.(a). Outdoor lighting controls shall comply with the applicable requirements of Section 130.2(c) and Reference Nonresidential Appendix NA7.8.

STATE OF CALIFORNIA
OUTDOOR LIGHTING POWER ALLOWANCES
CEC-NRCC-LTO-03-E (Revised 01/16) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-03-E
Outdoor Lighting Power Allowances	(Page 4 of 4)
Project Name: Cloud Pre-School Relocatables	Date Prepared: 09-25-2017

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT
1. I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name:	Documentation Author Signature:
Stephen R. Zajicek PE	SJaR
Company: FBA Engineering	Signature Date: 09-25-2017
Address: 150 Paularino Ave., Suite A120	CEA Certification Identification (if applicable): N/A
City/State/Zip: Costa Mesa, CA 92626	Phone: (949) 852 9995

RESPONSIBLE PERSON'S DECLARATION STATEMENT
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4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name:	Responsible Designer Signature:
Stephen R. Zajicek PE	SJaR
Company: FBA Engineering	Date Signed: 09-25-2017
Address: 150 Paularino Ave., Suite A120	License: E10372
City/State/Zip: Costa Mesa, CA 92626	Phone: (949) 852 9995

STATE OF CALIFORNIA
OUTDOOR LIGHTING POWER ALLOWANCES
CEC-NRCC-LTO-03-E (Revised 01/16) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-03-E
Outdoor Lighting Power Allowances	(Page 1 of 4)
Project Name: Cloud Preschool Relocatables	Date Prepared: 09-25-2017

A. OUTDOOR LIGHTING POWER ALLOWANCE SUMMARY

1. General Hardscape Lighting Power Allowance (Site Total from Section B of NRCC-LTO-03-E)	1.
2. Additional Specific "use it or lose it" Lighting Power Allowances listed in each of these cells shall be identical to total allowed watts determined in Section C-1 to C-4 of NRCC-LTO-03-E.	

PER APPLICATION from Section C-1		PER UNIT LENGTH (SALES FRONTAGE) from Section C-2		PER HARDSCAPE AREA (ORNAMENTAL LIGHTING) from Section C-3		PER SPECIFIC AREA from Section C-4.		
	+		+		+		=	2.
								3.

3. Sum Total ALLOWED Outdoor Lighting Wattage (add rows 1 and 2)

B. GENERAL HARDSCAPE LIGHTING POWER ALLOWANCE FROM TABLE 140.7-A

Area Wattage Allowance (AWA)				Linear Wattage Allowance (LWA)			Initial Wattage Allowance (IWA)	Total General Hardscape Lighting Allowance
01	02	03	04	05	06	07	08	09
Name of Area	Illuminated Hardscape Area	AWA Per Square Foot	AWA (B02 x B03)	Perimeter Length of General Hardscape	LPA per Linear Foot	LWA (B05 x B06)	IWA (Watts)	B04 + B07 + B08
HARDSCAPE	3,400	0.040	136	500	0.35	175	520	831
							TOTAL	

tBP architecture planning interiors
tBP/Architecture
4511 Teller Avenue
Newport Beach, CA 92660
ph: 949.673.0300 fx: 949.732.3895
architect

FBA Engineering
Consulting Electrical Engineers
150 Paularino Avenue Suite A120
Costa Mesa, CA 92626
(949) 852-9995 FAX (949) 852-1857 (fax)
FBA Job Number: 212.178
fbaeng.com
consultant

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP# 03 119149
ACC FLS SS PI
DATE JAN 7 2019

DSA Los Angeles Regional Office
700 N. Alameda Street, Suite 5-500
Los Angeles, California 90012
ph: (213)897-3995 fx: (213)897-3159/0726

CLOUD PRESCHOOL RELOCATABLES
4444 CLOUD AVENUE
LA CRESCENTA, CALIFORNIA 91214
GLENDALE UNIFIED SCHOOL DISTRICT

owner

tBP project number : 20778.10
file name:
drawn by: checked by:
date: September 9, 2015

Rev:	date:	description:

drawing title:
OUTDOOR TITLE 24

drawing no.:
E-5
drawing of

STATE OF CALIFORNIA
Electrical Power Distribution
CEC-NRCC-ELC-01-E (Revised 01/16) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-ELC-01-E
Electrical Power Distribution	Page 4 of 4
Project Name: Cloud Preschool Relocatables	Date Prepared: 09-25-2017

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

1. I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name:	Stephen R. Zajicek PE	Documentation Author Signature:	SZajR
Company:	FBA Engineering	Signature Date:	09-25-2017
Address:	150 Paularino Ave., Suite A120	CEA/ HERS Certification Identification (If applicable):	N/A
City/State/Zip:	Costa Mesa, CA 92626	Phone:	(949) 852 9995

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Responsible Designer Name:	Stephen R. Zajicek PE	Responsible Designer Signature:	SZajR
Company:	FBA Engineering	Date Signed:	09-25-2017
Address:	150 Paularino Ave., Suite A120	License:	E10372
City/State/Zip:	Costa Mesa, CA 92626	Phone:	(949) 852 9995

STATE OF CALIFORNIA
Electrical Power Distribution
CEC-NRCC-ELC-01-E (Revised 01/16) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-ELC-01-E
Electrical Power Distribution	Page 3 of 4
Project Name: Cloud Preschool Relocatables	Date Prepared: 09-25-2017

C. Voltage Drop

Check all boxes below if he electrical power distribution system is in compliance with Section 130.5(c).

	Enforcement Agency Check that the system complies
[X] The electrical power distribution system meets the voltage drop requirement of Section 130.5(c). The maximum combined voltage drop on feeder conductors and branch circuit conductors to the farthest connected load or outlet, do not exceed 5%.	☐
[X] Voltage drop calculation documents showing compliance to Section 130.5(c) are submitted as part of the compliance document submittal.	☐

D. Circuit Controls for 120-Volt Receptacles and Controlled Receptacles

Check one or more boxes below for applicable requirements of Section 130.5(d) for the electrical power distribution system.

	Field Inspector Check that the system complies
☐ The control is capable of automatically shutting OFF the controlled receptacles when the space is typically unoccupied, either at the receptacle or circuit level. For the automatic time switch control, it incorporates an override control that allows the controlled receptacle to remain ON for no more than 2 hours when an override is initiated and an automatic holiday "shut-OFF" feature that turns OFF all loads for at least 24 hours and then resumes the normally scheduled operation. Countdown timer switches are not be used to comply with the automatic time switch control requirements. The controls meet the requirement of Section 130.5(d)1.	☐
☐ There is at least one controlled receptacle within 6 ft from each uncontrolled receptacle. Where receptacles are installed in modular furniture in open office area, at least one controlled receptacle is installed at each workstation. The receptacles meet the requirement of Section 130.5(d)2.	☐
☐ There are installed split wired receptacles with at least one controlled and one uncontrolled receptacle. Where receptacles are installed in modular furniture in open office area, at least one controlled receptacle is installed at each workstation. The receptacles meet the requirement of Section 130.5(d)2.	☐
☐ Permanent and durable marking for controlled receptacles or circuits to differentiate them from uncontrolled receptacles or circuits is provided. The markings meet the requirement of Section 130.5(d)3.	☐
☐ For hotel and motel guest rooms, there are controlled receptacles for at least one-half of the 120-volt receptacles in each guest room. Electric circuits serving controlled receptacles in guestrooms are installed to have captive key controls, occupancy sensing controls, or automatic controls so the power is switched off no longer than 30 minutes after the guest room has been vacated. The receptacles meet the requirement of Section 130.5(d)4.	☐
☐ Receptacles that are only for the following purposes are excepted from Section 130.5(d): - Receptacles specifically for refrigerators and water dispensers in kitchen areas. - Receptacles located a minimum of six ft above the floor that are specifically for clocks. - Receptacles for network copiers, fax machines, A/V and data equipment other than personal computers in copy rooms. - Receptacles on circuits rated more than 20 amperes. - Receptacles connected to an uninterruptible power supply (UPS) that are intended to be in continuous use, 24 hours per day/365 days per year, and are marked to differentiate them from other uncontrolled receptacles or circuits.	☐

STATE OF CALIFORNIA
Electrical Power Distribution
CEC-NRCC-ELC-01-E (Revised 01/16) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-ELC-01-E
Electrical Power Distribution	Page 2 of 4
Project Name: Cloud Preschool Relocatables	Date Prepared: 09-25-2017

B. Separation of Electrical Circuits for Electrical Energy Monitoring

Check all boxes below if the electrical power distribution system is in compliance with Section 130.5(b).

☐ The electrical power distribution system meets the separation of electrical circuits for electrical energy monitoring requirement of Section 130.5(b). The electrical power distribution systems is designed so that measurement devices can monitor the electrical energy usage of load types according to TABLE 130.5-B.

☐ Describe the electrical power distribution system installed and the compliance method chosen in meeting the requirement of Section 130.5(b). Use the space below to include the information. Examples of compliance methods are detailed in Nonresidential Compliance Manual Chapter 8.

Fill out Column 1 thru 3 with the compliance information.

General Information	Electrical Power Distribution System Information and Method of compliance	Electrical Service Rating	Enforcement Agency
01	02	03	04
Electrical Service Designation/Location/Description	Describe the electrical power distribution system installed and the compliance method used	kVA	Check that the system complies
			☐

Field Inspector Notes:

STATE OF CALIFORNIA
Electrical Power Distribution
CEC-NRCC-ELC-01-E (Revised 01/16) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-ELC-01-E
Electrical Power Distribution	Page 1 of 4
Project Name: Cloud Preschool Relocatables	Date Prepared: 09-25-2017

General Information

Project Address:	Climate Zone:	Conditioned Floor Area :
4444 Cloud Ave., La Crescenta, CA 91214	3	Unconditioned Floor Area :

Building Type: ☐ Nonresidential ☐ High-Rise Residential ☐ Hotel/Motel
[X] Schools ☐ Relocatable Public Schools ☐ Conditioned Spaces ☐ Unconditioned Spaces
Phase of Construction: ☐ New Construction [X] Addition ☐ Alteration

In the table below identify all applicable construction documents that specify the requirements for the scope of responsibility reported by this certificate. Use additional pages as needed to list all construction documents related to compliance of Section 130.5.

Document Number	Document Title/Descriptions (include description information for Table or Schedule if it contains compliance information)	Document Sheet # or Page #	Indicate which subsection of Section 130.5 is related to the document (e.g. 130.5(a) for service electrical metering)

Add Row | Remove Last

A. Service Electrical Metering

Check one of the three boxes below if the electrical power distribution system is in compliance with Section 130.5(a).

☐ For newly installed electrical service in newly constructed buildings, Service Electrical Metering is required according to Section 130.5(a). *Fill out Column 1 through 6 of table below.*

☐ For new or replacement electrical service equipment in existing buildings, Service Electrical Metering is required according to Section 141.0(b)2PI. *Fill out Column 1 through 6 of table below.*

☐ EXCEPTION to Electrical Service Metering: Service or feeder for which the utility company provides a metering system that indicates instantaneous kW demand and kWh for a utility-defined period. *Fill out Column 1, 2 and 6 of table below with the compliance information.*

Fill out a separate line for each electrical service that is connected to the building.

Electrical Service Schedule	Electrical Service Rating	Metering Capabilities (check all that are present)				Exception to 130.5 (a)	Field Inspector
01	02	03	04	05	06	07	08
Electrical Service Designation/ Location/Description	kVA	Instantaneous (at the time) kW	Historical peak (kW)	Tracking kWh for a user-definable period	kWh per rate period	Utility metering system	Check that the metering complies
RELOCATABLE BUILDINGS	48 kVA	[X]	[X]	☐	☐	☐	☐

Add Row | Remove Last

SHORT CIRCUIT AND VOLTAGE DROP CALCULATIONS

FEEDERS

DESIGNATION	FEEDER LENGTH (ft)	PHASE ϕ	CONDUCTORS Cu	SIZE	PARALLEL RUNS	CONDUIT MAG=1 NON=2	L-L VOLTAGE	L-N VOLTAGE	STARTING Isc	FEEDER AMPACITY	BUS AVAILABLE Isc 3 ϕ	BUS AVAILABLE Isc 1 ϕ L-L	BUS AVAILABLE Isc 1 ϕ L-N	VOLTAGE DROP %
Panel "P1"	40	1	Cu	#1	1	2	240	120	65,000	63	N/A	16,703	10,078	0.33
Panel "P2"	60	1	Cu	#1	1	2	240	120	65,000	63	N/A	12,178	6,958	0.49
Panel "P3"	60	1	Cu	#1	1	2	240	120	65,000	63	N/A	12,178	6,958	0.49
Distribution Panel "DP2"	400	3	Cu	350 kcmil	2	2	208	120	65,000	189	11,282	N/A	N/A	1.62

tBP architecture planning interiors
tBP/Architecture
4611 Teller Avenue
Newport Beach, CA 92660
ph: 949.673.0300 fx: 949.732.3895
architect

FBA Engineering
Sustainable Design and Consulting
150 Paularino Avenue, Suite A120
Costa Mesa, CA 92626
(949) 852 9995 (949) 852 9997 (fax)
fba@fbaeng.com
fbaeng.com
FBA Job Number: 212178
consultant

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP03 119149
AC FLS SS
DATE JAN 7 2019

DSA Los Angeles Regional Office
700 N. Alameda Street, Suite 5-500
Los Angeles, California 90012
ph: (213)897-3995 fx: (213)897-3159/0726

CLOUD PRESCHOOL RELOCATABLES

4444 CLOUD AVENUE
LA CRESCENTA, CALIFORNIA 91214

GLENDALE UNIFIED SCHOOL DISTRICT

owner

tBP project number : 20778.10
file name:
drawn by: checked by:
date: September 9, 2015

Rev:	date:	description:

drawing title:
POWER DISTRIBUTION
TITLE 24

drawing no.:
E-6
drawing of

CLOUD PRESCHOOL		PROJECT NO. 212 178
VOLTS 120/240 PHASE 1PH, 3W MTG SURFACE	PANELBOARD P1 LOCATION BUILDING #1	MAIN 100A/2P BUS 100A

CKT	(<- LOAD (VA) ->) A	B	LOAD TYPE	BKR	OUTLET QUAN	DESCRIPTION		CKT	(<- LOAD (VA) ->) A	B	LOAD TYPE	BKR	OUTLET QUAN	DESCRIPTION
1	720	-----	R	20/1	4	CONV. REC.	A	2	600	-----	L	20/1	8	INDOOR LIGHTS
3	-----	720	R	20/1	4	CONV. REC.	B	4	-----	24	L	20/1	1 R1	OUTDOOR LIGHT
5	500	-----	R	20/1	1	IDF	A	6	6840	-----	M1	80/2	1	HP-1
7	-----			20/1		SPARE	B	8	-----	6840	M1	-	-	---
9		-----		20/1		SPARE	A	10		-----		20/1		SPARE
11	-----			20/1		SPARE	B	12	-----			20/1		SPARE
13		-----		20/1		SPARE	A	14		-----				PROVISION
15	-----			20/1		SPARE	B	16	-----					PROVISION
17		-----		20/1		SPARE	A	18		-----				PROVISION
19	-----			20/1		SPARE	B	20	-----					PROVISION
21		-----				PROVISION	A	22		-----				PROVISION
23	-----					PROVISION	B	24	-----					PROVISION

CONNECTED:
VA AMPS
PHASE A = 8660 72
PHASE B = 7584 63
TOTAL = 16244 68

L.C.L. @ 125% = 17880
RECEPT. (> 10 kVA @ 50%) = 1940
KITCHEN @ 65% =
OTHER LOAD @ 100% =
TOTAL VA = 19820
TOTAL AMPS = 83

LOAD TYPE:
G - GENERAL (100%) M - MOTOR (100%)
L - L.C.L. (125%) M1 - MOTOR (125%)
R - RECEPTACLE (50%) (10 kVA @ 100%) X - X-RAY (100%)
K - KITCHEN (65%) X1 - X-RAY (50%)

R1 INDICATES CIRCUIT CONTROLLED BY MULTI-POLE CONTACTOR/RELAY OPERATED BY PHOTOCELL ON/TIME CLOCK OFF.
NOTE: MOUNT TIME CLOCK CABINET FLUSH IN WALL ABOVE ELECTRICAL PANEL.

CLOUD PRESCHOOL		PROJECT NO. 212 178
VOLTS 120/240 PHASE 1PH, 3W MTG SURFACE	PANELBOARD P2 LOCATION BUILDING #2	MAIN 100A/2P BUS 100A

CKT	(<- LOAD (VA) ->) A	B	LOAD TYPE	BKR	OUTLET QUAN	DESCRIPTION		CKT	(<- LOAD (VA) ->) A	B	LOAD TYPE	BKR	OUTLET QUAN	DESCRIPTION
1	720	-----	R	20/1	4	CONV. REC.	A	2	600	-----	L	20/1	8	INDOOR LIGHTS
3	-----	720	R	20/1	4	CONV. REC.	B	4	-----	72	L	20/1	3 R1	OUTDOOR LIGHTS
5		-----		20/1		SPARE	A	6	6840	-----	M1	80/2	1	HP-1
7	-----			20/1		SPARE	B	8	-----	6840	M1	-	-	---
9		-----		20/1		SPARE	A	10		-----		20/1		SPARE
11	-----			20/1		SPARE	B	12	-----			20/1		SPARE
13		-----		20/1		SPARE	A	14		-----				PROVISION
15	-----			20/1		SPARE	B	16	-----					PROVISION
17		-----		20/1		SPARE	A	18		-----				PROVISION
19	-----			20/1		SPARE	B	20	-----					PROVISION
21		-----				PROVISION	A	22		-----				PROVISION
23	-----					PROVISION	B	24	-----					PROVISION

CONNECTED:
VA AMPS
PHASE A = 8160 68
PHASE B = 7632 64
TOTAL = 15792 66

L.C.L. @ 125% =
RECEPT. (> 10 kVA @ 50%) = 1440
KITCHEN @ 65% =
OTHER LOAD @ 100% = 14352
TOTAL VA = 15792
TOTAL AMPS = 66

LOAD TYPE:
G - GENERAL (100%) M - MOTOR (100%)
L - L.C.L. (125%) M1 - MOTOR (125%)
R - RECEPTACLE (50%) (10 kVA @ 100%) X - X-RAY (100%)
K - KITCHEN (65%) X1 - X-RAY (50%)

R1 INDICATES CIRCUIT CONTROLLED BY MULTI-POLE CONTACTOR/RELAY OPERATED BY PHOTOCELL ON/TIME CLOCK OFF.
NOTE: MOUNT TIME CLOCK CABINET FLUSH IN WALL ABOVE ELECTRICAL PANEL.

CLOUD PRESCHOOL		PROJECT NO. 212 178
VOLTS 120/240 PHASE 1PH, 3W MTG SURFACE	PANELBOARD P3 LOCATION BUILDING #3	MAIN 100A/2P BUS 100A

CKT	(<- LOAD (VA) ->) A	B	LOAD TYPE	BKR	OUTLET QUAN	DESCRIPTION		CKT	(<- LOAD (VA) ->) A	B	LOAD TYPE	BKR	OUTLET QUAN	DESCRIPTION
1	540	-----	R	20/1	3	CONV. REC.	A	2	600	-----	L	20/1	8	INDOOR LIGHTS
3	-----	540	R	20/1	3	CONV. REC.	B	4	-----	48	L	20/1	2 R1	OUTDOOR LIGHTS
5	2400	-----	G	30/2	1	WATER HEATER	A	6	6840	-----	M1	80/2	1	HP-1
7	-----	2400	G	--	-	---	B	8	-----	6840	M1	-	-	---
9		-----		20/1		SPARE	A	10		-----		20/1		SPARE
11	-----			20/1		SPARE	B	12	-----			20/1		SPARE
13		-----		20/1		SPARE	A	14		-----				PROVISION
15	-----			20/1		SPARE	B	16	-----					PROVISION
17		-----		20/1		SPARE	A	18		-----				PROVISION
19	-----			20/1		SPARE	B	20	-----					PROVISION
21		-----				PROVISION	A	22		-----				PROVISION
23	-----					PROVISION	B	24	-----					PROVISION

CONNECTED:
VA AMPS
PHASE A = 10380 87
PHASE B = 9828 82
TOTAL = 20208 84

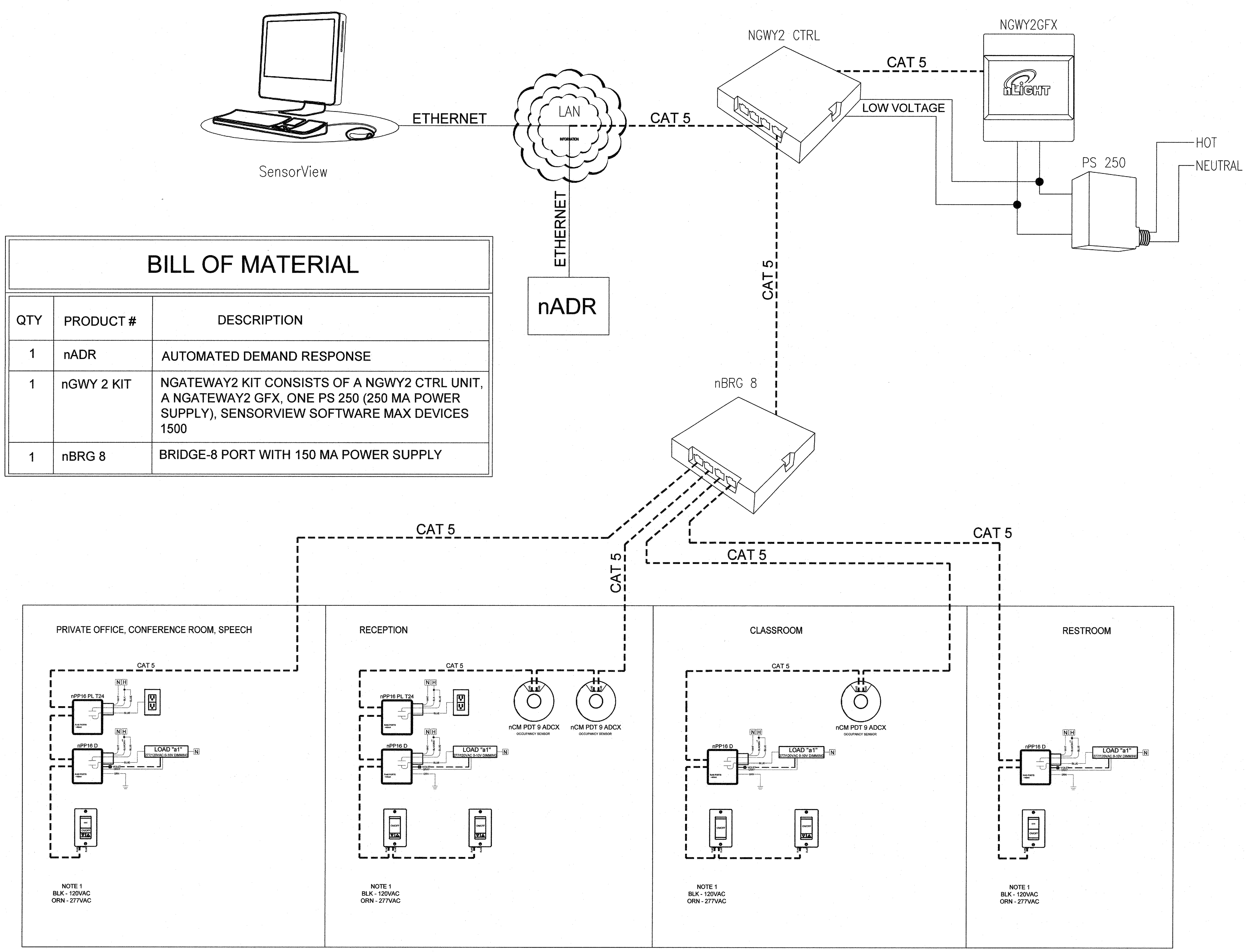
L.C.L. @ 125% = 17910
RECEPT. (> 10 kVA @ 50%) = 1080
KITCHEN @ 65% =
OTHER LOAD @ 100% = 4800
TOTAL VA = 23790
TOTAL AMPS = 99

LOAD TYPE:
G - GENERAL (100%) M - MOTOR (100%)
L - L.C.L. (125%) M1 - MOTOR (125%)
R - RECEPTACLE (50%) (10 kVA @ 100%) X - X-RAY (100%)
K - KITCHEN (65%) X1 - X-RAY (50%)

R1 INDICATES CIRCUIT CONTROLLED BY MULTI-POLE CONTACTOR/RELAY OPERATED BY PHOTOCELL ON/TIME CLOCK OFF.
NOTE: MOUNT TIME CLOCK CABINET FLUSH IN WALL ABOVE ELECTRICAL PANEL.

NOTES

1. IF TOTAL BUILDING SQUARE FOOTAGE IS >10,000 SQ.FT. AUTOMATIC DEMAND RESPONSE IS REQUIRED PER 2013 T24. *per section 130.1(E)



BILL OF MATERIAL

QTY	PRODUCT #	DESCRIPTION
1	nADR	AUTOMATED DEMAND RESPONSE
1	nGWY 2 KIT	NGATEWAY2 KIT CONSISTS OF A NGWY2 CTRL UNIT, A NGATEWAY2 GFX, ONE PS 250 (250 MA POWER SUPPLY), SENSORVIEW SOFTWARE MAX DEVICES 1500
1	nBRG 8	BRIDGE-8 PORT WITH 150 MA POWER SUPPLY

SINGLE LINE DIAGRAM

SCALE NONE | A

tBP architecture planning interiors

tBP/Architecture
4611 Teller Avenue
Newport Beach, CA 92660
ph: 949.673.0300 fx: 949.732.3895

architect

FBA Engineering

consultant

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP03 119149
AC FLS SS
DATE JAN 7 2019

DSA Los Angeles Regional Office
700 N. Alameda Street, Suite 5-500
Los Angeles, California 90012
ph: (213)897-3995 fx: (213)897-3159/0726

CLOUD PRESCHOOL RELOCATABLES

4444 CLOUD AVENUE
LA CRESCENTA, CALIFORNIA 91214

GLENDALE UNIFIED SCHOOL DISTRICT

owner

tBP project number : 20778.10
file name:
drawn by: checked by:
date: September 9, 2015
Rev: date: description:

drawing title:
LIGHTING CONTROL DIAGRAM

drawing no.:
E-7
drawing of

FBA Engineering / Plot Date: 12/6/2018 5:13 PM / Plotted by: William Ramirez / Drawing Location: I:\212178\CAD with interior walls\E-7_212178.dwg

ELECTRICAL SPECIFICATIONS:

PART 1.00 GENERAL

1.01 RELATED DOCUMENTS

A. The requirements of the General Conditions, Supplementary General Conditions and pertinent provisions of sections in Division One of these specifications apply to the work specified in this section.

1.02 SCOPE

A. Work Included: All labor, materials, appliance, tools, equipment, facilities, transportation and service necessary for, and incidental to, performing all operations in connection with furnishing, delivery and installation of the work of this Section, complete, as shown on the drawings and/or specified herein.

1.03 GENERAL SUMMARY OF ELECTRICAL WORK

A. The specifications and drawings are intended to cover a complete installation of systems. The omission of expressed reference to any item of labor or materials for the proper execution of the work in accordance with present practice of the trade shall not relieve the Contractor from providing such additional labor and materials.

B. Refer to the drawings and shop drawings of other trades for additional details which affect the proper installation of this work.

C. The Electrical Drawings are diagrammatic in many respects. It is not within the scope of these drawings to show all necessary bends, offsets, or pullboxes required. Sizes and locations of equipment and wiring may be distorted for clarity on the drawings. Exact locations of all lighting fixtures, outlets, exit signs, wiring devices, and the like, shall be shown on Architectural Drawings, as dimensioned on plans, or as approved by Architect.

D. Before submitting a bid, the Contractor shall familiarize himself with all features of the existing building, and all building drawings and site drawings which may affect the execution of the work. No extra payment will be allowed for failure to obtain this information.

E. The project scope is the additions of modular buildings to an existing school site. Refer to the Architectural Drawings for notes and other electrical requirements not shown on the Electrical Drawings and to determine existing construction to remain as well as new construction. If there are omissions or conflicts between the Electrical Documents and the documents of other trades or between the Electrical Drawings and Specifications, clarify these points with the Architect before submitting a bid. No extra payment will be allowed for failure to obtain this information.

F. Provide all line voltage electrical work, materials and control equipment required for proper operation of the air conditioning, heating, ventilating and plumbing equipment, as specified by the respective trade. This work may or may not be included on the Electrical Drawings.

1.04 LOCATIONS OF EQUIPMENT

A. The drawings indicate diagrammatically the desired locations of arrangements of conduit runs, outlets, equipment, etc., and are to be followed as closely as possible. Proper judgment must be exercised in executing the work so as to secure the best possible installation in the available space and to overcome local difficulties due to space limitations or interference of structural conditions encountered.

B. In the event changes in the indicated locations or arrangements are necessary, due to developed conditions in the building construction or rearrangement of equipment, such changes shall be made without cost providing the change is ordered before the conduit runs, etc., and work directly connected to same is installed and no extra materials are required.

C. The drawings indicate approximate locations of existing conduits. The exact routing shall be verified in field and length of conductors shall be adjusted to the length required.

D. Coordinate and cooperate in every way with other trades in order to avoid interference and assure a satisfactory job.

1.05 QUALITY ASSURANCE, STANDARDS AND SYMBOLS

A. Work and materials in full accordance with the latest rules and regulations of the California Code of Regulations, Title 24, Title '8 Division of Industrial Safety', the Division of the State Architect, California Electrical Code, the National Life Safety Code, pertinent N.F.P.A. Publications and other federal state or other city agencies having jurisdiction.

B. Keep a copy of all applicable codes available at the job site at all times while performing work under this section. Nothing in plans or specifications shall be construed to permit work not conforming to the most stringent of codes.

C. Should any changes be necessary in the drawings or specifications to make the work comply with these requirements, the Contractor shall notify the Architect at once in writing and cease work in parts of the contract which are affected.

1.06 SUBMITTALS

A. Material Lists and Shop Drawings

1. Submit 6 copies of materials list and shop drawings for approval. The materials list of installation materials shall indicate proposed equipment manufacturers. Submittals shall be organized in completed bound groups for materials (i.e., all lighting fixtures or all switchgear, etc.). Departure from the above procedure will result in resubmittals and delays. The Contractor shall verify dimensions of equipment and be satisfied as to fit and that they comply with all code requirements relating to clear working space about electrical equipment prior to submitting shop drawings for approval. Where current limiting fuse devices are specified, submit technical data to indicate fuses adequately protect equipment and that the fuses are selective to the circuit breakers that it protects.

2. Submit shop drawings for all electrical items except installation materials such as conduit, conduit fittings, outlet boxes, 600-volt conductors, wiring devices, etc.

3. Submittals which are intended to be reviewed as a substitution or departure from the contract documents must be specifically noted as such or the requirements of the contract documents will prevail, regardless of the acceptance of the submittal.

4. Shop drawings shall include dimensioned plans, elevations, details, wiring diagrams and descriptive literature of component parts where applicable. Structural calculations and mounting details, signed by a structural engineer registered by the State of California, shall be submitted for all equipment weighing over four hundred pounds, and shall be in compliance with Title 21 of the California Administrative Code.

5. Shop drawings shall include the manufacturer's projected days for shipment from the factory of completed equipment, after the equipment is released for production by the Contractor. It shall be the responsibility of the Contractor to ensure that all material and equipment is ordered in time to provide an orderly progression of the work. The Contractor shall notify the Architect of any changes in delivery which would affect the project completion date.

B. Maintenance and Operation Manuals

1. Contractor shall furnish three copies of typewritten maintenance and operating manuals for all electrical equipment to the Owner and instruct Owner's personnel in correct operation of all equipment at completion of project.

2. Maintenance and operating manuals shall be bound in three-ring, hard-cover, plastic binders and shall be delivered to the Owner with letter of transmittal, carbon copy to the Architect.

C. Portable or Detachable Parts: The contractor shall retain in his possession and be responsible for all portable and detachable parts or portions of the installation such as fuses, keys, locks adapters, locking clips, and inserts until final completion of his work. These parts shall then be delivered to the Owner or his authorized representative and an itemized receipt obtained, with copies of receipt sent to the Architect.

1.07 RECORD DRAWINGS

A. Provide and maintain in good order a complete set of electrical contract prints. Changes to the contract to be clearly recorded on this set of prints. At the end of the project, the Contractor shall transfer all changes to one set reproducible drawings to be delivered unfolded to the Architect.

B. The Contractor shall keep the 'as-built' prints up to date current with all work performed.

1.08 CLEANING EQUIPMENT, MATERIALS, PREMISES

A. All parts of the equipment shall be thoroughly cleaned of dirt, rust, cement, plaster, etc., and all cracks and corners scraped out clean. Surfaces to be painted shall be carefully cleaned of grease and oil spots and left smooth, clean and in proper condition to receive paint finish.

1.09 JOB CONDITIONS - PROTECTION

A. Protect all work, materials and equipment from damage from any cause whatever and provide adequate and proper storage facilities during the progress of the work. Provide for the safety and good condition of all the work until final acceptance of the work by the Owner and replace all damaged or defective work, materials and equipment before requesting final acceptance.

B. Provide UL listed fire stop for all penetration through fire rated floor, wall, ceiling and roof assemblies to maintain all fire ratings. The fire stop materials shall be re-enterable and reusable, as manufactured by Nelson, type 'FSP', or equal by 3M Company.

1.10 CUTTING AND PATCHING

A. Perform cutting and patching on the construction work which may be required for the proper installation of the electrical work. Patching shall be of the same material, workmanship and finish as specified and accurately match surrounding work to satisfaction of the Architect.

1.11 IDENTIFICATION

A. Panelboards, terminal cabinets, circuit breakers, disconnect switches, starters, relays, time switches, contactors, pushbutton control stations, and other apparatus used for operation of controls of feeders, circuits, appliances, or equipment shall be properly identified by means of descriptive nameplates or tags permanently attached to the apparatus and wiring.

B. Nameplates shall be engraved laminated phenolic. Shop drawings with dimensions and format shall be submitted to the Architect before installation. Attachment to equipment shall be with escutcheon pins, rivets, self-tapping screws or machine screws. Self-adhering or adhesive backed nameplates shall not be used.

C. Provide black-on-white laminated plastic nameplate engraved in minimum 1/4" high letters to correspond with the designations on the drawings. Provide other additional information on nameplates where indicated.

D. For equipment containing or operating on circuits of more than 240 volts nominal, provide red-on-white laminated warning signs engraved in 1/2" high letters to read 'CAUTION - 480 (or as applicable) VOLTS'.

E. Tags shall be attached to feeder wiring in conduits at every point where runs are broken or terminated and shall include pull wires in empty conduits. Circuit, phase, and function shall be indicated. Branch circuit shall be tagged on panelboards. Tags may be made of pressure sensitive plastic or embossed, self-attached, stainless steel or brass ribbon.

F. Cardholders and cards shall be provided for circuit identification in panelboards. Cardholders shall consist of a metal frame retaining a clear plastic cover permanently attached to the inside of panel door. List of circuits shall be typewritten on card. Circuit description shall include name or number of circuit, area, and connected load.

G. Junction and pullboxes shall have covers stenciled with box number when shown on the drawings, or circuit numbers according to panel schedule. Data shall be lettered in an inconspicuous manner with a color contrasting to finish.

1.12 ELECTRICAL WORK CLOSEOUT

A. Prepare the following items and submit to the Architect before final acceptance.

1. Two copies of all test results as required under this section.

2. Two copies of local and/or state code enforcing authorities final inspection certificates.

3. Copies of as-built record drawings as required under the General Conditions, pertinent Division One Section and Electrical General Provisions.

4. Two copies of all receipts transferring portable or detachable parts to the Owner when requested.

5. Notify the Architect in writing when installation is complete and that a final inspection of this work can be performed. In the event defects or deficiencies are found during this final inspection, they shall be corrected to the satisfaction of the Architect before final acceptance can be issued.

6. Three copies of operating and maintenance instruction books covering all electrical equipment and systems.

1.13 EQUIPMENT SEISMIC REQUIREMENTS

A. Equipment supports and anchorage's provided as part of the contract shall be designed, constructed and installed in accordance with the earthquake regulations of the California Building Code, Title 24, Section 1616A, and the Uniform Building Code, (UBC).

B. For equipment weighing over four hundred pounds provide equipment anchorage details, coordinated with the equipment mounting provision, prepared, signed and 'stamped' with PE registration by a civil or structural engineer licensed as a Professional Engineer (PE) in the State of California.

C. Mounting recommendations shall be provided by the manufacturer based upon approved shake table tests used to verify the seismic design of that type of equipment.

D. The seismic requirements are typical for each equipment item exceeding 100 pounds.

1.14 TESTING

A. The Contractor shall obtain an independent NETA certified testing laboratory that will provide all instrumentation and tests on the electrical system and equipment as hereinafter described and further directed by the Architect. The test shall be performed after the completion of all electrical systems. All tests shall be recorded and documented and submitted to the Architect for review.

1. Test for Phase to Ground Condition:

a. Open main service disconnect.
b. Isolate the system neutral from ground by removing the neutral disconnect link located in the service switchboard.
c. Close all submain disconnects.
d. Close all branch feeder circuit breakers.
e. Measure the resistance of each phase to ground. A properly calibrated 'megger' type test instrument to be used. The test voltage shall be 500 volts.
f. Record all readings after one minute duration and document into a complete report.

2. Isolating Grounds: In the event that low resistance grounds are found in the system, they shall be isolated and located by testing each circuit individually as outlined above. Make proper corrections to restore the resistance values to an acceptable value.

C. Method of obtaining ground resistance shall be in accordance with the latest edition of the James G. Biddle (Plymouth Meeting, Pennsylvania) manual published on this subject.

1. Perform 'fall-of-potential' tests on each grounding electrode of system per IEEE Standard No. 81, Section 8.2.1.5. When suitable locations for test rods are not available, a low resistance dead earth or reference ground will be utilized.

2. Perform the two-point method test per IEEE Standard No. 81, Section 8.2.1.1, to determine the ground resistance at each ground bus in distribution boards and distribution panels and transformer neutrals.

D. All instrumentation and personnel required for testing shall be furnished by the Contractor.

E. The testing, calibrating and setting of all ground and ground fault equipment circuit breakers, device protection relays, and meters adjustable settings shall be by an independent testing laboratory. Set as recommended by the respective manufacturer and coordination study so as to be coordinated with other protection devices within the electrical design. Four (4) bound and tabulated copies of the test and settings shall be sent to the ARCHITECT.

F. Ampere and voltage measurements:

1. Take and record ampere and line voltage measurements under full load on all panel feeders, switchboard and switchgear feeders, motor control centers and motor circuits provided in the contract. Record measurements at the equipment tested and submit to the ARCHITECT for review.

2. Ampere voltage readings shall be:

a. Phase A-B, A-C and B-C.
b. Phase A-Neutral, B-Neutral and C-Neutral.

3. The ampere and voltage readings shall be not less than 20 minutes duration for each test. Record and submit the measured minimum, maximum and 20 minute average for each ampere and voltage value and test location. Voltage and ampere measurements shall occur at the connected load end of each respective feeder, not at the source of supply end of each feeder.

4. Test equipment shall be accurate within plus or minus 1-percent.

5. Branch circuit devices 40 ampere or less and motor boards 10 horsepower or smaller are excluded from ampere and voltage testing requirement.

G. If, in the opinion of the Architect, the voltages and regulations are not met within acceptable limits, make arrangements with the serving utility for proper electrical service and then verify that such has been provided.

PART 2 - PRODUCTS

2.01 CONDUIT

A. Rigid metal conduit: Steel, hot-dip galvanized, sherardized or zinc coated.

B. Electrical metallic tubing: Steel, galvanized or sherardized. Couplings and connectors, seamless steel construction and of the set screw or watertight compression type equal to Thomas & Betts Co. #5123 or #5031 Series, complete with insulated throats.

C. Flexible Conduit: Steel, galvanized. Connector shall be equal to Thomas & Betts Co. #3312 and/or #3332 Series complete with insulated throat.

D. Liquid-tight flexible conduit: Sealtite Type U.A. with Appleton Series 'ST' connectors.

E. Polyvinyl Chloride (PVC)

1. PVC-schedule 40 heavy wall construction.

2. PVC-schedule 80 extra heavy wall construction

2.02 WIRE AND CABLE

A. Copper conductors: #12 AWG minimum unless specifically noted otherwise on the drawings. Conductors #10 AWG and smaller shall be solid and #8 AWG and larger shall be stranded. Type of wire as noted on drawings or as follows:

1. Type THWN/THHN insulation used for all conductors unless otherwise noted.

2. Type THHN insulation used for circuit conductors installed in fluorescent lighting fixture raceways, for conductors connected to the secondary of fluorescent or mercury vapor fixture ballast or other hot locations.

3. Type XHHW or THWN insulation shall be used where conductors are installed in conduit exposed to the weather.

4. The following color code for 120/208 volt branch circuits: Neutral - White (Tape feeder neutrals with white tape near connections); Ground - Green; Isolated Ground - Green with yellow stripe; Phase A - Black; Phase B - Red; Phase C - Blue.

5. The following color code for 277/480 volt branch circuits: Neutral - Grey - Tape feeder neutrals with Grey tape near connections); Ground - Green; Phase A - Brown; Phase B - Orange; Phase C - Yellow.

6. When individual neutral conductors are required for each branch circuit, the color code for the neutral conductors shall be as follows: Phase A - White with Black stripe; Phase B - White with Red Stripe; Phase C - White with Blue stripe. All common neutral conductors, when required, shall be White without any stripes.

7. Feeders identified as to phase or leg in each panelboard with printed identifying tape.

8. Color coding for mechanical and plumbing control wiring shall be an agreed upon color code between the Mechanical/Plumbing Contractor and the Electrical Contractor.

2.03 OUTLET AND JUNCTION BOXES

A. Outlet junction boxes used in concealed work, except masonry, shall be galvanized or sherardized, one-piece, pressed steel, knock-out type sized in accordance with the code for the number of conductors or the number and size of conduit centering box, but shall not be less than 4" square and 1-1/2" deep. Plaster rings shall be provided for all flush mounted boxes.

B. Outlet and junction boxes used outside of building, on roof or in landscaped area shall be case aluminum as manufactured by Crouse-hinds, type 'FS' or equal with conduit hubs as required.

C. Surface mounted outlet boxes shall be cast type with threaded hubs.

D. All boxes for data, telephone, fire alarm, clock, television, public address, speaker and intrusion detection outlets shall be 4-11/16" square by 2-1/2" deep minimum, with extension ring as required to accommodate the outlet assembly to be installed.

2.04 SWITCHES

A. Switches shall be totally enclosed, specification grade, toggle switch type, color white with 277 volt A.C. rating for full capacity of contacts with incandescent or fluorescent lamp loads. Switch ratings shall be 20 ampere only. Hubbell #CS1221 or equal by P & S or Leviton. Color as selected by Architect.

B. Where switches are mounted in multiple gang assembly and are operating at 277 volts and/or 277 volts and 120 volts mounted in same outlet boxes, there shall be a barrier installed between each switch.

C. Color of switches shall be as selected by Architect.

2.05 RECEPTACLES

A. All receptacles in flush type outlet boxes shall be installed with a bonding jumper for ground between the grounded outlet box and the receptacle ground terminal. Grounding through the receptacle mounting straps is not acceptable. The bonding jumper shall be sized in accordance with the branch circuit protective device as tabulated herein under 'grounding'. Bonding jumper shall be attached at each outlet to the back of the box using drilled and tapped holes and washer head screws 6-32 or larger. For receptacles in surface mounted outlet boxes direct metal-to-metal contact between receptacle mounting strap (if it is connect to the ground contacts) and outlet boxes may be used.

B. All receptacles shall be Type "TR" tamper resistant.

C. Duplex convenience receptacles shall be specification grade, color white, 120 volt, 15 ampere, NEMA 5-15R grounding type with grounding contact which is internally connected to the frame. Outlet shall accommodate standard parallel blade cap and shall be back and side wired. Hubbell #CR5252 or equal by P & S or Leviton.

D. Where duplex receptacle is supplied by separate 20-ampere, circuit, receptacle shall be NEMA 5-20R. Hubbell #CR5352 or equal by P & S or Leviton.

E. Ground fault type duplex receptacle shall be 15 ampere outlet with 20 ampere feed through, NEMA 5-15R. Hubbell #GFR5252 or equal by P & S or Leviton.

F. Isolated Ground receptacles shall be identified with an orange triangle on an orange receptacle body. Hubbell #CR5252IG or equal by P&S or Leviton.

G. Weatherproof receptacle: Ground fault type duplex receptacle. On exposed conduit runs, weatherproof ground fault type receptacles as hereinbefore specified, installed in 'FS' condulet. Covers shall be one of the following door type covers: Hubbell #WP26M or equal by P&S.

H. Special outlets as indicated on drawings.

I. Color of receptacles shall be as selected by Architect.

2.06 PLATES

A. Provide plates for every switch, receptacle, telephone outlet, data outlet. All plates shall be thermoplastic or nylon on all outlets, unless specifically noted otherwise. Color as selected by Architect.

2.07 LIGHTING FIXTURES

A. Lighting fixtures shall have all parts and fittings necessary to complete and properly install the fixture. All fixtures shall be wired from outlet to socket with #14 AWG Underwriters' Type 'AF' or 'CF' fixture wire. All fixtures shall be equipped with lamps of size and type specified.

B. Lighting fixtures recessed in ceiling or wall which have a fire resistive rating of 1 hour or more shall be fully enclosed in a box which has a fire rating equal to that of the ceiling or wall. The space from the fixture to the enclosure to be a minimum of 3 inches.

C. It is the Contractor's responsibility to verify actual ceiling construction type as defined on the architectural drawings and furnish all lighting fixture with the correct mounting devices and proper operating voltage whether or not such variations are indicated by fixture catalog number. The Contractor shall verify depth of all recessed lighting fixture with architectural drawings prior to ordering fixtures. Any discrepancies that would cause recessed fixtures not to fit into ceiling shall be reported to the Architect prior to ordering of the fixtures.

D. Existing lighting fixtures may be reused where indicated on the drawings, if the fixture is in good working condition. All existing fixtures shall be cleaned and relamped. All defective ballasts and damaged louvers and lenses shall be replaced.

2.08 LIGHTING STANDARDS (SUPPORT POLES, POLE MOUNTED LIGHTING FIXTURES AND LUMINAIRES)

A. General

1. Lighting poles, pole bases, pole arms, lighting fixtures (luminaires), supports with all lighting pole attachments and anchors shall be designed and constructed to withstand not less than 100 mile per hour steady horizontal wind loading and 130 mile per hour horizontal wind gust loading, without any damage to the lighting standards.

2. Provide tamper-resistant 'hand-hole' and cover on the pole, for access into wiring terminations inside the pole. Provide ground 'lug' attachment for equipment bond conductor.

3. Provide factory applied weather protective base undercoat and final finish on all exposed and internal components. Color as indicated or as selected by OWNER'S Representative.

B. Base

1. Provide a base plate at the bottom of each pole to attach and secure the pole to the pole anchor bolts. The base plate shall be permanently attached to the bottom of the pole.

C. Anchors

1. Anchor bolts shall be threaded the entire bolt length, not less than four (4) bolts for each pole equally spaced around the pole base. Provide a minumum of 2 threaded nuts for each anchor bolt. Install a nut on the top and bottom sides of each base plate anchor bolt location. Not less than four (4) threads shall be exposed after pole is installed and leveled.

2.09 LAMPS

A. Lamps shall be new of wattage indicated and shall be as manufactured by General Electric, Philips or Osram/Sylvania. Each fixture or lighting outlet shall be supplied with the proper lamp.

B. General purpose incandescent lamps shall be inside frosted, medium base for 200 watts and smaller.

C. Reflector lamps shall be PAR38 as required, unless otherwise specified in fixture schedule.

D. Fluorescent lamps shall be energy saving type, 4100 deg. K, bi-pin, rapid-start, T-8, 48", except as specified differently, General Electric type SP41, minimum 2850 lumen.

2.10 STRUCTURAL AND MISCELLANEOUS STEEL

A. Structural and miscellaneous steel used in connection with electrical work and located out-of-doors or in damp locations, to be hot-dip galvanized unless otherwise specified. Included are underground pullbox covers and similar electrical items. Galvanizing average 2.0 ounce per square foot and conform to ASTM A123.

2.11 CIRCUIT BREAKER

A. Where two or three pole breakers occur in the panels, they shall be common trip units. Single pole breakers with tie-bar between handles will not be accepted.

B. Circuit breakers shall be arranged in the panels so that the breakers on the proper trip settings and numbers correspond to the numbering in the panel schedules on the drawings. Circuit numbers of breakers shall be black-on-white micarta tabs or other previously approved method. Circuit number tabs which can readily be changed from front of panel will not be accepted. Circuit number tabs which can shall not be attached to or be a part of the breaker.

C. Circuit breakers shall be bolt on type.

2.12 DISCONNECTS

A. Disconnect switches shall be 250 volt or 600 volt AC, NEMA Type HD, quick-made, quick-break, h.p. rated, fusible or non-fusible Class "R", in NEMA Type I enclosure, lockable, with number of poles and amperage as indicated on the drawings. Where enclosure is indicated W.P. (weatherproof) switches shall be in rain-tight NEMA Type 3R enclosure, lockable. Maximum voltage, current and horsepower rating clearly marked on the switch enclosure and switches having dual element fuses shall have rating indicated on the metal plate. Manufactured by GE, Square-D or approved equal.

2.13 PANELBOARDS

A. Panelboards shall be flush or surface mounting as indicated with circuit breakers as shown on panel schedule, hinged lockable doors, index card holders and proper bussing.

B. Where indicated on the drawings, panelboards shall be furnished with subfeed breakers and/or lugs, split bussing, contactors, time switches, relays, etc., as required.

C. All panelboards shall be keyed alike.

D. All panelboards shall be finished with one coat of zinc chromate and coat of primer sealer after a thorough cleaning where exposed to public view (e.g., corridors, covered passages, offices, etc.) and gray in switchboard, janitor's heater and storage rooms. Prime coated panelboard shall be painted to match surroundings after installation. Panelboards shall be fabricated of sheet steel of the following minimum gauges; Door and trim #12; enclosure - code gauge steel.

E. Furnish all panelboards and terminal cabinets with manufacturer flush locks and keys except where indicated otherwise herein. Fasten the trim to panelboards and terminal cabinets by means of concealed, bolted or screwed fasteners accessible only when the door is open.

F. Panelboard 208/120 volt, three phase, 4 wire, S/N or 120/240 volt, single phase, 3 wire, S/N.

Panelboard types as manufactured by:

1. Cutler-Hammer.........Type Pow-R-Line 1
2. General Electric......Type AQ
3. Square D.............Type NQD
4. Siemens..............Type S series

G. Panelboards for 480/277 volt, three phase, 4 wire, S/N.

Panelboard types as manufactured by:

1. Cutler Hammer.........Type Pow-R-Line 1
2. General Electric......Type 'A' Series
3. Square D.............Type NEHB

tBP architecture planning interiors

tBP/Architecture
4611 Teller Avenue
Newport Beach, CA 92660
ph: 949.673.0300 fx: 949.732.3895

architect

FBA Engineering

consultant

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP03 119149
AC FLS SS
DATE JAN 7 2019

DSA Los Angeles Regional Office
700 N. Alameda Street, Suite 5-500
Los Angeles, California 90012
ph: (213)897-3995 fx: (213)897-3159/0726

CLOUD PRESCHOOL RELOCATABLES
4444 CLOUD AVENUE
LA CRESCENTA, CALIFORNIA 91214
GLENDALE UNIFIED SCHOOL DISTRICT

owner

tBP project number: 20778.10
file name:
drawn by: checked by:
date: September 9, 2015
Rev: date: description:

drawing title:
SPECIFICATIONS

drawing no.:
E-8
drawing of

H. Panelboards shown on the drawings with relays, time clocks or other control devices shall have a separate metal barriered compartment mounted above panel with separate hinged locking door to match panelboard. Provide mounting subbase in cabinet for control devices and wiring terminal strips.

I. Panelboard shall have a circuit index card holder removable type, with clear plastic cover. Index card shall have numbers imprinted to match circuit breaker numbers.

J. Bussing shall be rectangular cross section copper, or silver or tin-plated aluminum. Bussing shall be full length of the enclosure.

K. Panelboards indicated to be suitable for non-linear loads shall be UL listed for connection to non-linear loads. Neutral bus shall be rated to carry 200% of the phase bus current rating.

L. Isolated ground bus panelboards supplying circuits with isolated ground receptacles or panelboards indicated to contain isolated grounds on the drawings shall be supplied with an additional ground bus electrically isolated from the panelboard interior, the raceway ground and the non-isolated ground equipment ground bus.

2.14 OCCUPANCY MOTION SENSORS

A. General

1. All sensors shall be California Energy Commission Title 24 approved and certified.

2. Motion sensors shall be white.

B. Wall Mount Motion Sensors

1. Wall mount motion sensors shall be passive infrared type, capable of detection of motion at desk top up to 300 square feet within a volume dimension of up to approximately 20' x 25'. Wall switch sensors shall be U.L. listed and have a load capacity of 0-800 watts, 120V, 0-1200 watts, 277V.

2. Wall mounted motion sensors with automatic-on or manual-on operation and equipped with push-button to turn 'on' the lights and turn 'off' the lights. Sensor shall automatically turn 'off' lights if there is no movement after the preset time delay interval, yet lights shall remain 'on' with movement. In the manual-on mode, there shall be a 'grace' period after the unit turns itself off (because of lack of motion) during which a new motion will automatically turn lights on without the push-button having to be pressed.

3. Light level sensing feature shall hold lighting off when a user-adjusted level of ambient light is available.

4. Dual relay feature to allow bi-level illumination.

5. Switching by motion sensor shall occur at voltage zero crossing to reduce relay stress.

6. Wall mount motion sensors shall be Watt Stopper #PW-200, Hubbell #LHIRD2 or Leviton #OSSMD.

C. Ceiling Mounted Motion Sensors

1. Ceiling mounted motion sensors shall be ultrasonic type. Two-way type capable of detection of motion up to 1200 square feet.

2. Ceiling mounted motion sensors shall operate with power pack capable of switching up to 20 amps of ballast lighting load or 15 amps of incandescent load and shall be compatible with all types of electronic ballasts. The power pack shall provide the required low voltage control power to operate a minimum of two (2) occupancy sensors.

3. Power packs shall be powered from the lighting circuit, which they control.

4. Ceiling mounted motion sensors shall be Watt Stopper #WT-2200, Hubbell #OMNI-US or Leviton #ODC20-UOW.

2.15 COMMUNICATIONS SYSTEMS

A. Work included: all labor, materials, appliances tools, equipment, facilities transportation and services necessary for and incidental to performing all operations in connection with furnishing, delivery and installation of the work of This Section, complete as shown on the drawings and/or specified herein. Work includes, but is not necessarily limited to the Following:

1. Examine all other Sections for work Related to those other Sections and required to be included as work UNDER This Section.

2. General provisions and requirements for electrical work.

B. Submit product data sheets and descriptive literature for all component parts.

C. All equipment shall conform to all local applicable codes and ordinances, and shall be listed by Underwriters Laboratories.

D. All new Electronic equipment shall match existing equipment at each site.

E. The supplier of the equipment shall be the factory authorized distributor and service facility for the brand of equipment provided.

F. To Qualify as an acceptable bidder, whether the Bid is submitted to the District, his agent, a General Contractor or a Sub-Contractor, the system bidder or Contractor shall be qualified sound Contractor and shall hold a Valid C61 license issued by the Contractors State license Board of California. The system bidder or Contractor shall hereinafter be referred to as the Contractor. The Contractor shall hold all other licenses required by the legally Constituted authorities Having Jurisdiction over the work. The Contractor shall be the factory authorized distributor for the brand of equipment offered and shall Have been engaged in the business of supplying and installing the specified type of system for at Least five years. The Contractor shall maintain a fully equipped service organization Capable of Furnishing adequate repair service to the equipment. The Contractor shall be financially able to provide a performance Bond Covering the work and the guarantee described. The Contractor shall provide that bond if requested.

G. Materials

1. Comply with pertinent provisions of Section 2.01, 2.02, 2.03, 3.02, 3.03, 3.04, 3.05.

H. Existing Central Equipment

1. Visit the site and become familiar with the existing television, public address paging, master clock, intrusion Detection and telephone equipment prior to submitting a Bid. Include within This Contract all costs to modify and/or add to the existing NEC telephone system and the Bogen Multi-Comm 2000 Series public address/paging/clock central equipment with new telephone/speaker modules, power SUPPLIES and wiring as required to expand and FULLY SERVE the new Construction.

2. Provide auxiliary components and/or accessories where required to interface new and existing equipment.

I. Television Signal distribution

1. The Contractor shall furnish all materials, equipment, labor and services required for the expansion of the existing Blonder TongueTV signal distribution system.

2. Equipment Specifications:

a. In order to match existing, establish Quality and Standards of performance of equipment required by the Owner, the specified equipment for the distribution system is that of Blonder Tongue.
b. Amplifiers if required shall be Bid a 450-50 with FILTERS as required.
c. Room taps shall be V-2488 Isolation as required.
d. Trunk cable shall be WEST PENN 821 for runs of 500' or LESS, Ja500 for over 500'. Drop cable shall be WEST PENN 842.

J. Cabling

1. Cable run in Conduits below Grade shall be Teflon-coated or otherwise approved by the Manufacturer for the purpose. Repull any existing site runs and add Conductors necessary to add new Stations and return existing ROOMS to Operation.

2. Cable serving new Handsets outlets shall be four twisted pairs of #24 AWG SOLID with overall shield and jacket. Cable shall be UL category 5.

3. Cable Serving clocks shall be 2 or 3-conductors solid copper #16 AWG with overall jacket.

K. Telephones

1. All telephone instruments shall be Standard Dual-tone multi frequency (DTMF) dialing instrument, complete with Solid-State pretuned Oscillators and Network, identical to those SUPPLIED by public telephone Companies without modifications. All the telephones shall be by the same Manufacturer as those currently used on site.

2. Provide a modular, UL category 5 RJ-type Connector to each telephone outlet in the system.

3. Where plans indicate a wall-mounted telephone outlet, provide nominal 6-inches long Portable category 5 cord and RJ-type connector at each end, plus a wall -mounted single-line Telephone instrument Bolted directly over the outlet. single line Wall-mounted Telephones shall match existing equipment on site.

L. Accessories

1. Analog clocks shall be 12-inches round, 120 or 24 volt to match existing, Synchronous surface mounted with sweep Second Hand and quick disconnect.

2. Interior speakers shall be 8-inch diameter paper cone type with T25 25V line matching transformer. Frequency range to be 30 to 15,000 Hz. Complete with matching back -box and grill for flush mounting into ceiling.

3. Exterior speaker assembly shall consist of an atlas #aPF-15 Series loudspeaker with T-11 Transformer, complete with matching surface mounted enclosure with Vandal proof grill.

2.16 FIRE ALARM SYSTEM

A. All equipment shall be exclusively as produced by the manufacturers names herein and on the drawings in order to match existing equipment on the site or operational and maintenance systems within the District. No substitutions or equals will be approved.

B. To qualify as an acceptable bidder, whether the bid is submitted to the District, his agent, a General Contractor or a sub-contractor, the system bidder or Contractor shall be qualified Fire Alarm Contractor and shall hold a valid C10 License issued by the Contractors State License Board of California. The system bidder or Contractor shall hereinafter be referred to as the Contractor. The Contractor shall hold all other licenses required by the legally constituted authorities having jurisdiction over the work. The Contractor shall be the factory authorized Distributor for the branch of equipment offered and shall have been engaged in the business of supplying and installing the specified type of system for at least five years. The Contractor shall maintain a fully equipped service organization capable of furnishing adequate repair service to the equipment. The Contractor shall be financially able to provide a performance bond covering the work and the guarantee described. The Contractor shall provide that bond if requested.

C. Installation Certification

1. Work and material for cables, cable terminations and related components shall be performed by Certified Installers. The Installer shall be certified by the respective product manufacturers.

2. The manufacturers of the indicated work and material, shall provide a installer education/training and certification program for the supplied products.

3. The installers performing the Contract work for the indicated products, shall have attended and successfully completed each of the respective manufacturer's installation training education programs for the specified products.

4. Submit six (6) copies of the manufacturer's certifications for each installer performing the work. The submittal shall be approved by prior to initiating any related contract work.

D. Contract material installed and work performed by Installers not complying with these requirements shall be removed. Removal of work and material not in compliance with these requirements shall done at the CONTRACTOR'S expense, without any additional cost to the contract and without any additional contract completion due date extensions. New material and work required to replace the non-compiling removed work and material shall be provided at the CONTRACTOR'S expense, without any additional cost to the contract and without any additional contract completion due date extensions.

E. Alarm Conditions

1. Actuation of any manual or automatic alarm initiating device, connected to the system shall cause the following automatic functions.

a. All alarm signaling units shall activate continuously. Audible alarms shall sound the California State coded signal.
b. The respective zone alarm lamp or annunciator alpha numeric readout on the central control panel, and remote annunciator panel, shall be activated.

2. Evacuation signal duration shall be capable of continuous sounding or adjustable from three to ten minutes.

3. Perform any additional functions as specified herein or shown on the drawings.

F. Trouble Condition

1. A single open or single trouble condition in a manual or automatic fire initiating wiring circuit shall light the respective zone trouble lamp or annunciator readout on the fire alarm control panel and sound a trouble signal at the control panel.

2. A single open or single trouble condition in the evacuation alarm signaling wiring circuit shall light the trouble lamp or annunciator readout in the control panel and sound a trouble signal at the control panel. A signaling circuit 'activated' lamp shall be provided for each signaling loop for system testing and trouble signaling in the control panel.

3. 120 volt AC normal power shall be monitored with indication by a 'power on' lamp. Upon normal power outage, the system shall light a power trouble condition lamp or annunciator readout, and indicate a trouble condition.

4. The control panel shall monitor the standby batteries and, upon a low battery condition, activate the low battery lamp or annunciator readout and indicate a trouble condition.

5. System ground detection shall be provided for the entire system. Upon ground detection, activate the ground detection lamp or annunciator readout and a trouble signal shall sound.

PART 3 - EXECUTION

3.01 GROUNDING

A. Grounding shall be executed in accordance with all applicable codes and regulations and local authorities having jurisdiction.

B. Provide ground conductor in all branch circuit conduits serving receptacle loads.

C. Ground conductors for branch circuit wiring shall be attached at each outlet to the back of the box using drilled and tapped holes and washer head screws, 6-32 or larger.

D. Each panelboard, switchboard, pullbox or any other enclosure in which several ground wires are terminated shall be equipped with a ground bus secured to the interior of the enclosure. The bus shall have a separate lug for each ground conductor. No more than one conductor shall be installed per lug.

3.02 CONDUIT

A. The sizes of the conduits for the various circuits as indicated on the drawings and as required by code for the size and number of conductors to be pulled therein. Open ends capped with approved manufactured conduit seals as soon as installed and kept capped until ready to pull in conductors. Where running thread unions are necessary, only approved manufactured conduit unions used. No bends or offsets will be permitted unless absolutely necessary. Conduits to be concealed except as noted otherwise.

B. Rigid steel conduit or intermediate metal conduit shall be used where placed underground in concrete, in brick or masonry walls or exposed on roofs. Rigid steel conduit shall not be installed in direct contact with the earth or sand. Conduits installed in a wet, or exposed location in concrete have threads filled with red lead. For short runs of conduits installed in the ground and with Architect's approval, conduits may be 'half' lapped with polyvinyl chloride tape equal to Scotch Wrap. Joints to be 'double' wrapped. Tape shall be 10 mil. thick.

C. Electrical metallic tubing up to and including 4 inch may be installed as permitted by codes reference within specification.

D. Flexible conduit may be installed as permitted by codes referenced within specifications. Sealtite, flexible conduit used for final connections to motors and in wet, damp or outdoor areas where drawings indicate the use of flexible conduit.

E. Conduits throughout the work shall be securely and rigidly supported. Supports placed not more than 10' apart and with a support provided not more than 3' from any outlet or bend.

F. RNMC Installation Locations

RNMC conduit and RNMC fittings shall be installed in the following locations containing only 'non-hazardous material':

1. Underground, concealed below earth grade, unless specifically noted or specified otherwise.

2. Exposed on utility service poles, for pole risers at 9 feet or higher above finish grade, schedule 80 PVC only.

3. RNMC type 'EB' conduit(s) shall be concrete encased along the entire length of the conduits for all installation locations.

G. Conduit over metal channel, lath and plaster ceilings securely tied to the furring channels with #16 gauge galvanized wire ties space not over 4' apart.

H. Conduit placed against concrete above ground fastened to the concrete with pipe straps or one-screw conduit clamps attached to the concrete by means of expansion screw anchors and screws.

I. Conduits which are installed at this time and left empty for future shall have polyvinyl rope left in place for future use.

J. Conduit stub ups shall be provided with insulated throat bushings

K. Conduit exposed shall be run at right angles or parallel to the walls or structures. All changes in direction, either horizontally or vertically shall be made with conduit outlet bodies as manufactured by Crouse Hinds or equal. Conduits run on exposed beams or trellis work shall be painted to match surrounding surfaces. Conduits run exposed on roofs shall be rigid steel or intermediate metal conduit and shall be installed on 4 x 4 redwood sleepers, maximum 5 foot on centers. Sleepers shall be set on non-hardening mastic.

L. Re-route conduit where necessary to clear structural and mechanical obstructions.

M. Provide expansion and deflection fittings, with bonding jumper at all building expansion or seismic joint crossings.

3.03 ELECTRONIC NETWORK SYSTEMS INFRASTRUCTURE

A. Provide electronic network systems infrastructure for the following systems:

1. Computer Data Network

B. Submit manufacturer certified test reports showing test documentation for the proposed material that the material meets or exceeds the performance standards defined in the contract documents. The testing and results shall reflect worst case performance based on a minimum of ten samples. Tests shall be certified by a Nationally recognized independent test lab (i.e., ETL, UL, etc.). The manufacturer shall certify in writing the material has been manufactured and tested to comply with the requirements defined in the contract documents.

C. Applicable Standards

1. The equipment shall be UL listed, labeled, and approved for the application shown in the contract documents.

D. Equipment Qualifications

1. Equipment

a. The supplier of the equipment shall be the factory authorized distributor and service facility for the brands of equipment and material provided.
b. Network systems infrastructure equipment and materials shall all be the product of one of the individual same manufacturers as follows. Typical unless specifically described otherwise:

Siecor/Leviton (or to match existing on site)

E. Materials and Methods

1. System Performance Requirements

a. The work, performance and type of materials provided as part of the contract shall comply with the following ANSI/TIA/EIA-568C and related standards for all Electronics Network Systems Infrastructure work and materials described in the specifications and shown the drawings:

1) Computer/data network systems: Category-6.

b. The Electronic Network Systems Infrastructure system shall be based on star-topology?for MDF to IDF backbone connections and workstation outlet to MDF/IDF horizontal connections.

F. Fiber Optics Cables

1. Multimode (50/125)

a. 50/125-fiber optic cables optical fibers, graded index multimode optical glass fibers, 50.0-micron fiber core and 125-micron fiber cladding, 0.2 numerical aperture. Optical fibers shall be 100kpsi proof tested, with maximum 0.7-micron flaw size for dual operation at 850nm and 1300nm wavelengths.

2. Single mode:

a. Fiber optic cables optical fibers, (8.3/125) single mode optical glass fibers, 8.3 micron core fiber and 125-micron fiber cladding, 0.11 numerical aperture. Optical fibers shall be 100kpsi proof tested, with maximum 0.7 micron flaw size. For operation at 1310nm and 1550nm wave lengths.

G. Copper Wire Cables (Twisted Pairs)

1. General

a. Conductors shall be copper wire, individually insulated and color-coded, with multiple conductors arrange in twisted pairs.

2. Category-6 Computer/Data Cables ?UTP

a. Category-6 cables shall be tested and shall pass the ANSI/TIA/EIA test recommendations for Category-6.

H. Fiber Optic Fiber Connectors and Interconnection Couplers

1. General

a. The connectors and interconnection couplers shall be compatible, maintain the same performance Category rating and be compatible with the corresponding fiber-optic cable type attached to the connectors.

I. Copper Wire Outlet Connectors

1. General

a. Connectors shall comply with FCC part 68 Subpart F for gold plating.
b. Connectors shall be UL listed and shall comply with UL94V-0.
c. Copper wire outlet connectors shall be the product of the same manufacturer.

J. Copper Wire Patch Panels

1. Equipment Rack Mounted Patch Panel

a. Standard EIA 19-inches wide metal panel, manufacturers standard color. Prepunched for copper wire outlet connectors. Panel shall mount on a EIA standard 19-inches wide enclosed or open frame equipment rack assembly. Nominal (24) copper wire outlet connectors in a horizontal row, quantity of rows as required for total quantity of connectors. Provide not less than (2) spare empty rows for future copper wire outlet connectors.

K. Equipment Rack - 300 lbs Max.

1. Mini-Equipment Racks Sectional ?Surface Wall Mount (Indoor Locations Only)

a. The mini-equipment rack shall be fully metal enclosed, tamper resistant, wall surface mounted, multiple section construction. The rack shall consist of three (3) sections; a fixed wall mounting pan; a hinged center section and a hinged door. The rack shall provide a minimum of 30-inches clear internal depth for mounting of equipment inside the rack. Provide brackets inside the pan for stress relief, training/lacing, support of cables.

b. The mini-equipment racks nominal dimensions shall be as follows:

1) Overall depth 33-inches.
2) Overall width 22-inches.
3) 24-inches minimum over all height, for termination of up to a quantity of 144-copper wire workstation patch panel outlets and up to a quantity of eighteen (18) individual fiber strands, combined into a mini-equipment rack.
4) 30-inches minimum overall height, for termination of up to a quantity of 192-copper wire workstation patch panel outlets and up to a quantity of eighteen (18) individual fiber strands combined, into the mini-equipment rack.
5) 48-inches minimum overall height, for termination of up to quantity of 288-copper wire workstation patch panel outlets and up to a quantity of eighteen (18) individual fiber strands combined, into the mini-equipment rack.

2. Outlet Boxes

a. Wall mounted

1) Flush or surface wall mounted outlet box as indicated on the drawings, but in no case less than 4.69 inches by 4.69-inches by 2.125-inches deep.

L. Equipment Racks - Anchorage

1. Mini-Equipment Racks:

a. Install surface mount on the wall, see detail F/E-3
b. In public spaces the bottom of the rack shall not be less than 6-feet 6-inches above finish floor. Top of rack shall be tight to ceiling.
c. Position the rack to allow the door section, and center section to swing open a full 90 degrees Arc without obstructions.
d. Connect raceways to the non-moveable pan section.

M. Ground (ADDITIONAL REQUIREMENTS)

1. Equipment Racks:

a. Provide a separate #12AWG copper stranded green insulated ground conductor from each individual equipment element in the rack to the respective rack ground bus.

b. Provide a separate #8AWG copper insulated ground conductor from each equipment rack ground bus to the TEGB terminal equipment ground bus located in the same space.

3.04 OUTLET JUNCTION BOXES

A. Flush mounted boxes shall be attached to two studs or structural members by means of metal supports.

B. Boxes located above suspended ceiling shall be attached to structural members. Where boxes are suspended, they shall be supported independently of the conduit system by means of hanger rods and/or preformed steel channels. Boxes shall be supported independent of all piping, duct work, equipment ceiling hanger wires and suspended ceiling grid systems.

C. Boxes installed in common party separation walls, in corridor walls and service walls shall be acoustically sealed on the exterior back and sides of the box, including wall openings around the box, with a 1/8' minimum thickness resilient sound absorbing sealant, as manufactured by Lowry and Assoc., Inc.

3.05 WIRE AND CABLE

A. Branch circuit and fixture joints for #10 AWG and smaller wire shall be made with UL-approved connectors listed for 600 volts, approved for use with copper and/or aluminum wire. Connector to consist of a cone-shaped, expandable coil spring insert, insulated with a nylon shall and 2 wings placed opposite each other to serve as a built-in wrench or shall be molded one-piece as manufactured by 'Scotchlok'.

B. Branch circuit joints #8 and larger screw pressure lugs made of high strength structural aluminum alloy and UL-approved for use with both copper and/or aluminum wire as manufactured by Thomas & Betts.

C. Splices insulated with plastic splicing tape, half-lapped and at least the thickness of the wire insulation. Tape shall be fresh and quality equal to Scotch.

D. Correspond each circuit to the branch number indicated on the panel schedule shown on the drawings except where departures are approved by the Architect or the Owner's inspectors.

E. All wiring, including low voltage, shall be installed in conduit, unless otherwise noted. Conduit may be omitted for low voltage interconnect wiring between ceiling mounted occupancy sensors where plenum rated wiring is installed above accessible ceilings.

F. Control wiring to conform to the wiring diagrams shown on the mechanical drawings and the manufacturer's wiring diagrams. Control the equipment in the manner specified under the 'Mechanical' section of the specifications. Control wire to be color-coded for each in making final connections. Tag all spare conductors.

G. Wiring within panel enclosures to be neatly grouped and laced with Thomas & Betts 'Ty-rap' spaced 3' apart and fanned out to the terminals. Tag all spare conductors.

3.06 PANELBOARD MOUNTING

A. Flush mounted panelboards and terminal cabinets shall be securely fastened to at least two studs or structural members. Trim shall be flush with finished surface.

B. Surface mounted panelboards and terminal cabinets shall be secured to walls by means of preformed steel channels securely fastened to at least two studs or structural members.

C. Panelboards shall be installed to insure the top circuit protective device (including top compartment control devices) are not more than 6'-6' above finish floor in front of the panel and the bottom device is a minimum of 12' above the floor. Manufacturer shall specifically indicate on shop drawing submittals each panel where these conditions can not be met.

3.10 OCCUPANCY MOTION SENSOR

A. Control units shall be powered from the lighting circuit which they control.

B. Adjust and test each sensor/control unit in accordance with the manufacturers recommendations. Be certain that no obstructions block proper sensor coverage of areas desired, and minimize sensor pickup zone.

NOTE: Occupancy sensors may be affected by various conditions in the room. It may be necessary for the Contractor to make adjustments, change the location or type of sensor to obtain proper operation in a specific room. The CONTRACTOR shall have final responsibility for proper operation of the system in each room and should therefore make labor allowances for changes and adjustments.

ASSISTIVE LISTENING SYSTEM

PART 1 - GENERAL

1.1 SCOPE

A. Work Included: All labor, materials, appliances tools, equipment, facilities transportation and services necessary for and incidental to performing all operations in connection with furnishing, delivery and installation of the work of this Section, complete as shown on the drawings and/or specified herein. Work includes, but is not necessarily limited to the following:

1. Examine all other sections for work related to those other sections and required to be included as work under this section.

2. General provisions and requirements for electrical work.

1.2 SUBMITTALS (ADDITIONAL REQUIREMENTS)

A. Submit block wiring diagrams showing component interconnection and descriptive literature for all component parts and cabinets.

1.3 EQUIPMENT QUALIFICATION

A. The specification is based on the equipment of manufacturers who have been approved by the District and the manufacturers herein named shall be considered as meeting the requirements of this specification. For all items which are identified by part number and manufacturer the Performance specifications which are published in the most recent manufacturer's data sheets available at the time of bidding this project shall be applicable to the present work as though fully written out herein.

B. All equipment shall conform to all federal, state and local applicable codes and ordinances, and shall be listed by Underwriters Laboratories.

C. The Contractor shall have been engaged in the business of supplying and installing the specified type of system for at least five years. The Contractor shall maintain a fully equipped service organization to provide adequate repair service to the proposed system.

PART 2 - PRODUCTS

2.2 PORTABLE ASSISTIVE LISTENING SYSTEM

A. Provide portable assistive listening system for conference rooms, meeting rooms, and classrooms.

B. Portable assistive listening system shall be Phonic Ear or equal to meet the ADA requirements for hard-of-hearing.

C. Provide the following Phonic Ear equipment from each of the above listed locations:

1. One (1) PE550 base station with standard antenna.
2. One (1) AT2094 wall transformer.
3. One (1) PE300CS changer with transformer.
4. One (1) AT571 dynamic microphone with AT572 25-feet XLR to XLR cable.
5. PE350FSR receiver with rechargeable batteries. Quantity equal to 4% of the occupant load of the multi-purpose room area (2 minimum).
6. AT541-S headsets. Quantity equal to 4% of the seating load of the multi-purpose room area (2 minimum).

PART 3 - EXECUTION

3.1 Provide a minimum of two (2) 4-hour periods to instruct district personnel in proper operation of system. The first instructional period shall be and held prior to final acceptance of the systems. The second instructional period shall be within a period of 1-year after final acceptance of the systems, upon request of the District.

tBP
architecture planning interiors
LICENSED ARCHITECT HUNG L. CHENG NO. C34187 REN. 5-30-17 STATE OF CALIFORNIA
tBP/Architecture
4611 Teller Avenue
Newport Beach, CA 92660
ph: 949.673.0300 fx: 949.732.3895
architect

FBA Engineering
Consulting Electrical Engineers
150 Paularino Avenue Suite A120
Costa Mesa, CA 92626
949.852.9995 • 949.852.1657 (fax)
fbaengr.com
FBA Job Number: 212.178
REGISTERED PROFESSIONAL ENGINEER No. E 10372 Exp. 09-30-20 ELECTRICAL STATE OF CALIFORNIA
consultant

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DATE JAN 7 2019

DSA Los Angeles Regional Office
700 N. Alameda Street, Suite 5-500
Los Angeles, California 90012
ph: (213)897-3995 fx: (213)897-3159/0726

CLOUD PRESCHOOL RELOCATABLES
4444 CLOUD AVENUE
LA CRESCENTA, CALIFORNIA 91214
GLENDALE UNIFIED SCHOOL DISTRICT
owner

tBP project number : 20778.10
file name:
drawn by: checked by:
date: September 9, 2015
Rev: date: description:

drawing title:
SPECIFICATIONS

drawing no.:
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drawing of

Plot Date: 12/6/2018 5:13 PM / Plotted by: William Ramirez / Drawing Location: I:\212\178\CAD with interior walls\E-9_212178.dwg

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STOCKPILE # 33

MODEL PC 266

(34)-24'X40' RELOCATABLE BUILDINGS

FOR

CLASS LEASING INC.

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DATE OCT 19 2011

SYMBOLS

TYPE	SYMBOL	DESCRIPTION
DETAIL	(1 / -)	DETAIL ON SAME SHEET AS SYMBOL
DETAIL	(1 / 2)	DETAIL NUMBER (1) ON SHEET NUMBER (2)
NOTE	(1)	NOTE NO. 1. ON SAME SHEET AS SYMBOL.
NOTE	(4 / 5)	NOTE NO. 4 ON SHEET NUMBER (5)
WALL PANEL	(A / 1)	WALL PANEL TYPE "A" ON SHEET (1).
SECTION	(A / 2)	SECTION "A" ON SHEET (2)
REV.	(1)	REVISION.CHANGE IN DWG. NO. (1), FIRST REVISION
REV.	CLOUD	HIGHLIGHTS CHANGED AREA
REF.	A	DOOR
REF.	A	WINDOW
REF.	ST	SEE STRUC. DWG'S.
REF.	HV	SEE MECH. DWG.
REF.	EL	SEE ELEC. DWG.

SHEET INDEX

ARCHITECTURAL	A.0 - COVER SHEET A1.0 - FLOOR PLAN ~~A2.0 - ROOF PLAN (DUAL SLOPE)~~ AA2.0 - ROOF PLAN (MONO SLOPE) ~~A3.0 - EXTERIOR ELEVATIONS (DUAL SLOPE)~~ AA3.0 - EXTERIOR ELEVATIONS (MONO SLOPE) A4.0 - INTERIOR ELEVATIONS A5.0 - FINISH SCHEDULE A6.0 - ARCHITECTURAL DETAILS A6.1 - ARCHITECTURAL DETAILS ~~[illegible] - ARCHITECTURAL DETAILS METAL STUDS~~ ~~[illegible] - ARCHITECTURAL DETAILS METAL STUDS~~ A7.0 - REFLECTED CEILING PLAN A7.1 - REFLECTED CEILING PLAN DETAILS
STRUCTURAL	~~F0.1 - FOUNDATION PLAN WOOD SILL~~ ~~F3.0 - FOUNDATION DETAILS WOOD SILL~~ ~~[illegible]~~ ~~[illegible]~~ ~~[illegible]~~ ~~[illegible]~~ S1.0 - FLOOR FRAMING PLAN END MODULES (50 PSF) ~~[illegible]~~ ~~[illegible]~~ ~~[illegible]~~ ~~[illegible]~~ ~~[illegible]~~ SA2.0 - ROOF FRAMING PLAN END MODULES (MONO) ~~[illegible]~~ ~~[illegible]~~ ~~[illegible]~~ SA3.0 - STRUCTUAL ELEVATIONS AND DETAILS (MONO) SA3.1 - FRAMING ELEVATIONS AND DETAILS (MONO) S4.0 - STRUCTUAL DETAILS S5.0 - WALL FRAMING S5.1 - WALL FRAMING DETAILS S5.2 - WALL FRAMING DETAILS ~~[illegible] - WALL FRAMING METAL STUDS~~ ~~[illegible]~~ ~~[illegible]~~
MECHANICAL	M.1 - HVAC PLAN
PLUMBING	
ELECTRICAL	E1.0 - ELECTRICAL PLAN
RAMP	R1.0 - RAMP PLAN R2.0 - RAMP/STAIRS DETAILS

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NOTE: SPECIFICATIONS SUBJECT TO CHANGE DUE TO OSA REQUIREMENTS AND OR PRODUCT IMPROVEMENTS.

MACHINE APPLIED NAILING

USE OF MACHINE NAILING IS SUBJECT TO A SATISFACTORY JOB SITE DEMONSTRATION FOR EACH PROJECT AND THE APPROVAL BY THE PROJECT ARCHITECT OR STRUCTURAL ENGINEER AND THE OFFICE OF THE STATE ARCHITECT. THE APPROVAL IS SUBJECT TO CONTINUED SATISFACTORY PERFORMANCE. MACHINE NAILING WILL NOT BE APPROVED IN 5/16" PLYWOOD.IF NAILHEADS PENETRATE THE OUTER PLY MORE THAN WOULD BE NORMAL FOR A HAND HAMMER OR IF MINIMUM ALLOWABLE EDGE DISTANCES ARE NOT MAITAINED THE PERFORMANCE WILL BE DEEMED UNSATISFACTORY.

*-"MACHINE APPLIED 16 d FASTENERS SHALL HAVE AN EMBEDMENT OF NOT LESS THAN 1 1/2" INTO SECOND MEMBER AND SHALL BE NOT LESS THAN 3" IN OVEALL LENGTH."

THE ABOVE NAILS SHALL ALSO BE ACCEPTABLE FOR HAND NAILING, PROVIDED THE REQUIRED EMBEDMENT IS MAINTINED.

"AS ALTERNATE FOR ALL SHOT PIN ATTACHMENTS, USE #10 S.T.S.M.S. AT THE SAME SPACING."

BUILDING DATA

24'X40'BLD'G.	
OCCUPANCY	E-2
TYPE OF CONSTRUCTION	V-N
WIND LOAD	70 MPH. EXP. "C"
FLOOR LIVE LOAD	50 P.S.F.
ROOF LIVE LOAD	20 P.S.F.
BUILDING AREA	960 SQ.FT.
STRUCTURAL DESIGN	RIGID FRAME

ACS: HARRY GOLBARAN
CLLS.033 4012-074

WITH THE SIGNING OF THE 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 ADDENDUMS. WHEN THESE PLANS AND SPECIFICATIONS HAVE BEEN APPROVED BY THE OFFICE OF THE STATE ARCHITECT, THEY SHALL PRESIDE OVER CONFLICTING AREAS IN THE BID DRAWING AND SPECIFICATIONS, AND ANY ADDENDUMS THERETO.

APPLICABLE CODES - NEW CONSTRUCTION

1994 UBC AND 1995 CALIFORNIA AMEDMENTS (95 CALIFORNIA BUILDING CODE-PART 2,TITLE 24,CCR)
1995 NEC AND 1995 CALIFORNIA AMEDMENTS (95 CALIFORNIA ELECTRICAL CODE PART 3 TITLE 24,CCR)
1994 UMC AND 1995 CALIFORNIA AMEDMENTS (95 CALIFORNIA MECHANICAL CODE-PART 4,TITLE 24,CCR)
1994 UPC AND 1995 CALIFORNIA AMEDMENTS (95 CALIFORNIA PLUMBING CODE-5 TITLE 24,CCR)
1994 UNIFORM FIRE CODE WITH STATE AMEDMENTS (CALIFORNIA CODE-PART 9,TITLE 24,CCR
1994 BUILDING STANDARDS CODE (95 STATE REFERENCED STANDARDS CODE-PART 12,CCR)
TITLE 19,C.C.R., PUBLIC SAFETY,STATE FIRE MARSHALL REGULATIONS.

LICENSE EXPIRES [illegible]

JOB # 250, 2515, 2514

DRAWN BY: G.E.
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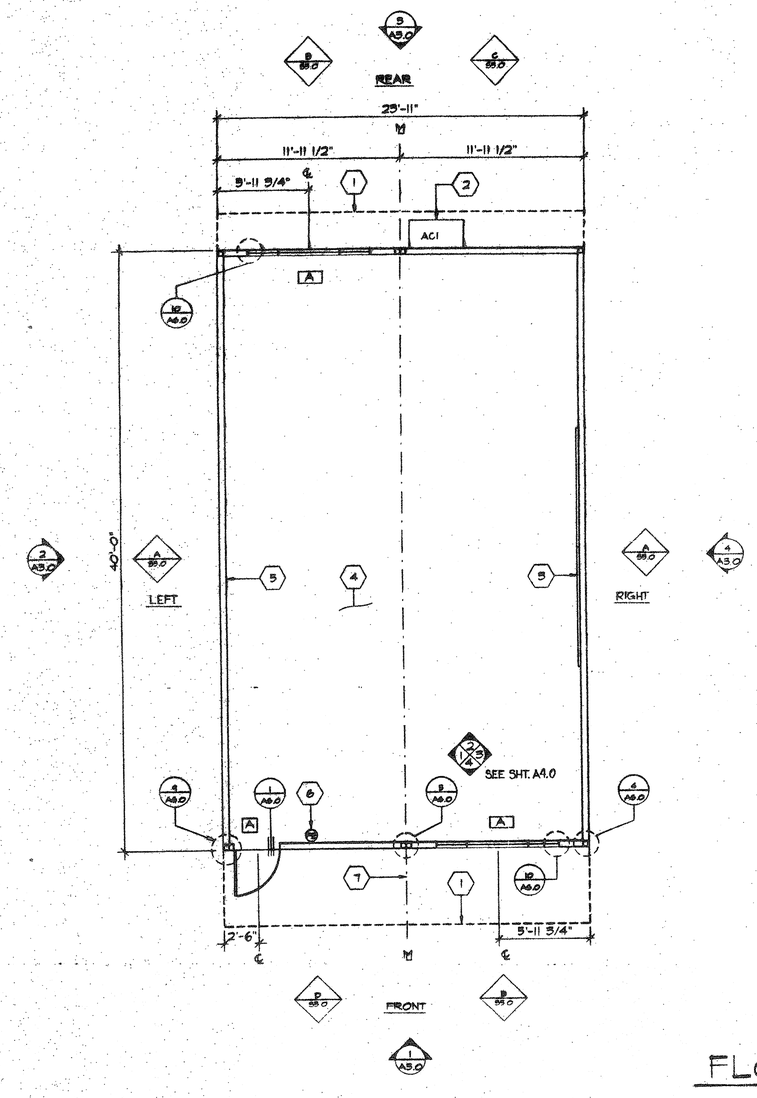
DATE

TITLE SHEET

A0

JOB# 2510 CLASS LEASING



FLOOR PLAN

SCALE 1/4"=1'-0"

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KEY NOTES

1. ROOF OVERHANG
2. HVAC UNIT HV
3. 2- 8'X4' MARKER BOARDS (SEE SPEC'S FOR TYPE)
4. FINISH FLOORING (SEE FINISH SCHED.) A5.0
5. TYPICAL INTERIOR FINISH (SEE FINISH SCHEDULE) A5.0
6. FIRE EXTINGUISHER - 5 LBS. DRY CHEMICAL WITH 2A-10BC U.L. RATING ON WALL MTD. BRACKET AT 48". A.F.F.
7. MODLINE (TYP. TYPICAL)

GENERAL NOTES

1. METAL TAG ON ALL MODULES, MECHANICALLY ATTACHED TO REAR EXTERIOR OF BUILDING SHOWING DSA APPLICATION NUMBER, MANUFACTURER'S NAME AND SERIAL NUMBER AND ROOF & FLOOR DESIGN LIVE LOAD.
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 SEC. 2603. 2. WHEN MATERIALS ARE INSTALLED IN CONCEALED SPACES OF TYPES I, II, 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. (SEC. 107.5 CBC)

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			LICENSE EXPIRES 6-30-1998		IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES APPL 07333 DATE OF MAR 11 1997

MODTECH INC,
2850 BARRETT AVE.
PERRIS, CA. 92572
PH. (909) 943-4014
FX. (909) 940-0427

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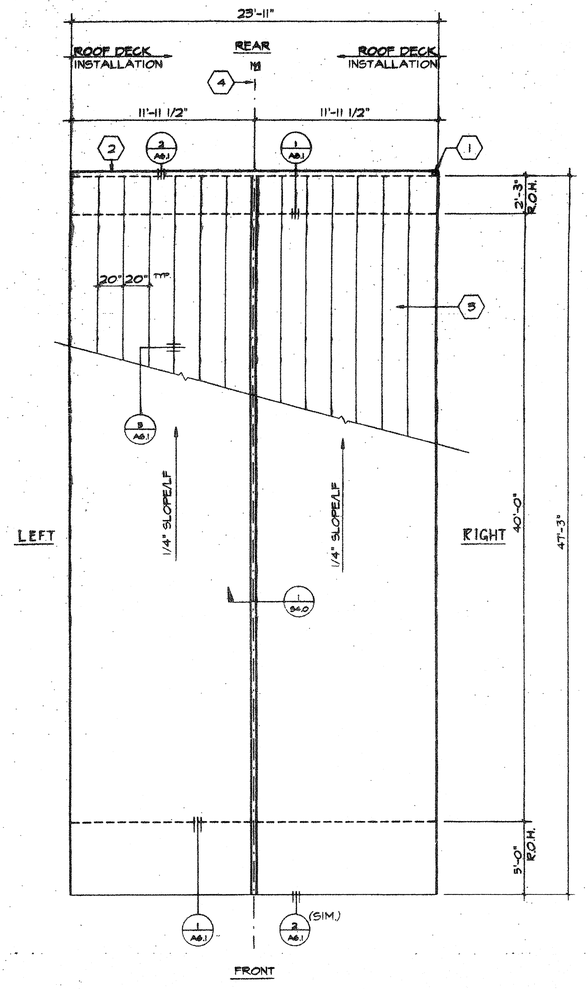
FLOOR PLAN

A1.0



KEY NOTES

1. DOWNSPOUT (TYP. FOR (1) 5"X2"X26 GA
2. CONTINUOUS GUTTER 26 GA.
3. 26 GA. MIN. INTERLOCKING ROOF PANELS OVER 3/4" CDX PLYWOOD OVER SOLB. SATURATED FELT UNDERLAYMENT
4. MODLINE

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AC 1/1 FLS 6C SS M
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ROOF PLAN (MONO SLOPE)

SCALE 1/4"=1'-0"

NOTE
BUILDING HOUSING GROUP E OCCUPANCIES SHALL HAVE ROOF COVERINGS AS SPECIFIED IN TABLE 15A, C.B.C. CLASS A

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MODTECH INC.

MODTECH INC.
2830 BARRETT AVE.
PERRIS, CA. 92572
PH. (909) 943-4014
FX. (909) 940-0427

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2614

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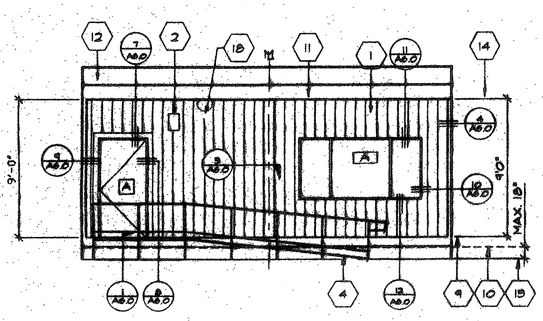
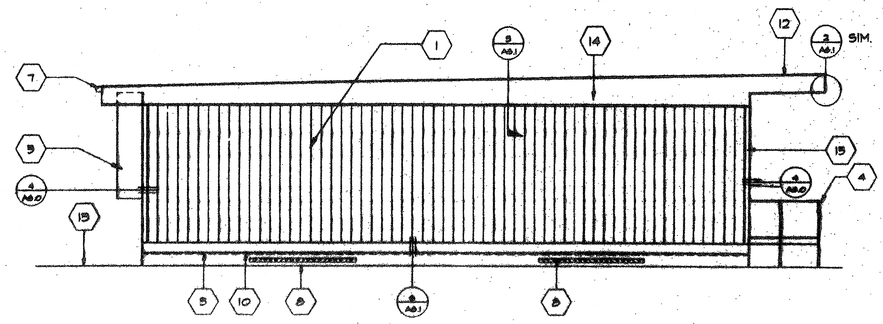
ROOF PLAN

AA2.0



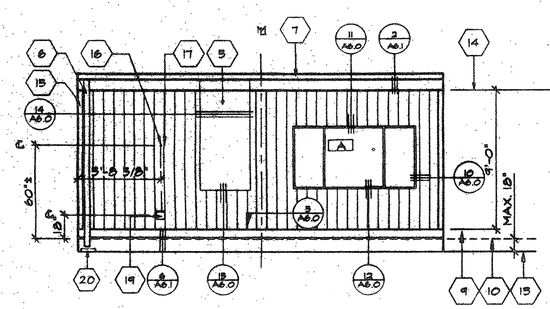
① FRONT ELEVATION

SCALE 1/4"=1'-0"



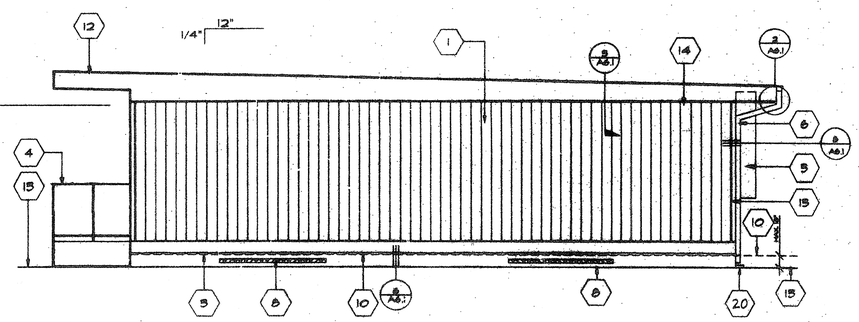
② SIDE ELEVATION (LEFT)

SCALE 1/4"=1'-0"



③ REAR ELEVATION

SCALE 1/4"=1'-0"



④ SIDE ELEVATION (RIGHT)

SCALE 1/4"=1'-0"

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(MONO SLOPE)
SCALE : 1/4"=1'-0"

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AC XX FLS XX CSS VC
DATE OCT 19 2011

KEY NOTES

1. TYPICAL EXTERIOR SIDING (SEE SCEC'S)
2. EXTERIOR LIGHT FIXTURE OVER DOOR (SEE SPECIFICATIONS)
3. TOP OF SKIRTING
4. RAMP AND LANDING SEE SHT. R-1
5. HVAC UNIT [HV]
6. DOWNSPOUT (TYP.) ONE FASTEN TO BLDG.TYP. 2 PLACES (SEE 8/A8.1)
7. CONTINUOUS GUTTER WITH DOWNSPOUT (LOCATION OF DOWNSPOUT SHOW ON ROOF PLAN A2.0) SEE 9/A6.1
8. VENT-SEE FOUNDATION DETAILS 9/FA1.1
9. FINISH FLOOR LINE
10. BOTTOM FLANG OF FLOOR BEAM
11. ROOF HEADER
12. ROOF OVERHANG
13. FINISH GRADE
14. ROOF BEAM [ST]
15. COLUMN [ST]
16. ELECTRICAL STUB-OUT 1 1/2"ø (TYPICAL)
17. GROUND STUB-OUT 3/4"ø (TYPICAL)
18. FIRE ALARM HORN. [EL]
19. NEMA 6"X6" GUTTER BOX. [EL]
20. SPLASH BLOCK (BY OTHERS)

CLLS. 033 4012-074

REVISIONS	ELECTRICAL	MECHANICAL	STRUCTURAL	ARCHITECT	DIVISION OF THE STATE ARCHITECT
			JAMES T. SMITH No. 3802 REGISTERED PROFESSIONAL ENGINEER STATE OF CALIFORNIA LICENSE EXPIRES 6-30-1998	LICENSED ARCHITECT GEORGE C. EDWARDS No. 9358 STATE OF CALIFORNIA	IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES APP03 67333 AC XX FLS XX CSS XX DATE JAN 1 1997

MODTECH INC.
2830 BARRETT AVE.
PERRIS, CA. 92572
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EXTERIOR ELEVATIONS

AA3.0

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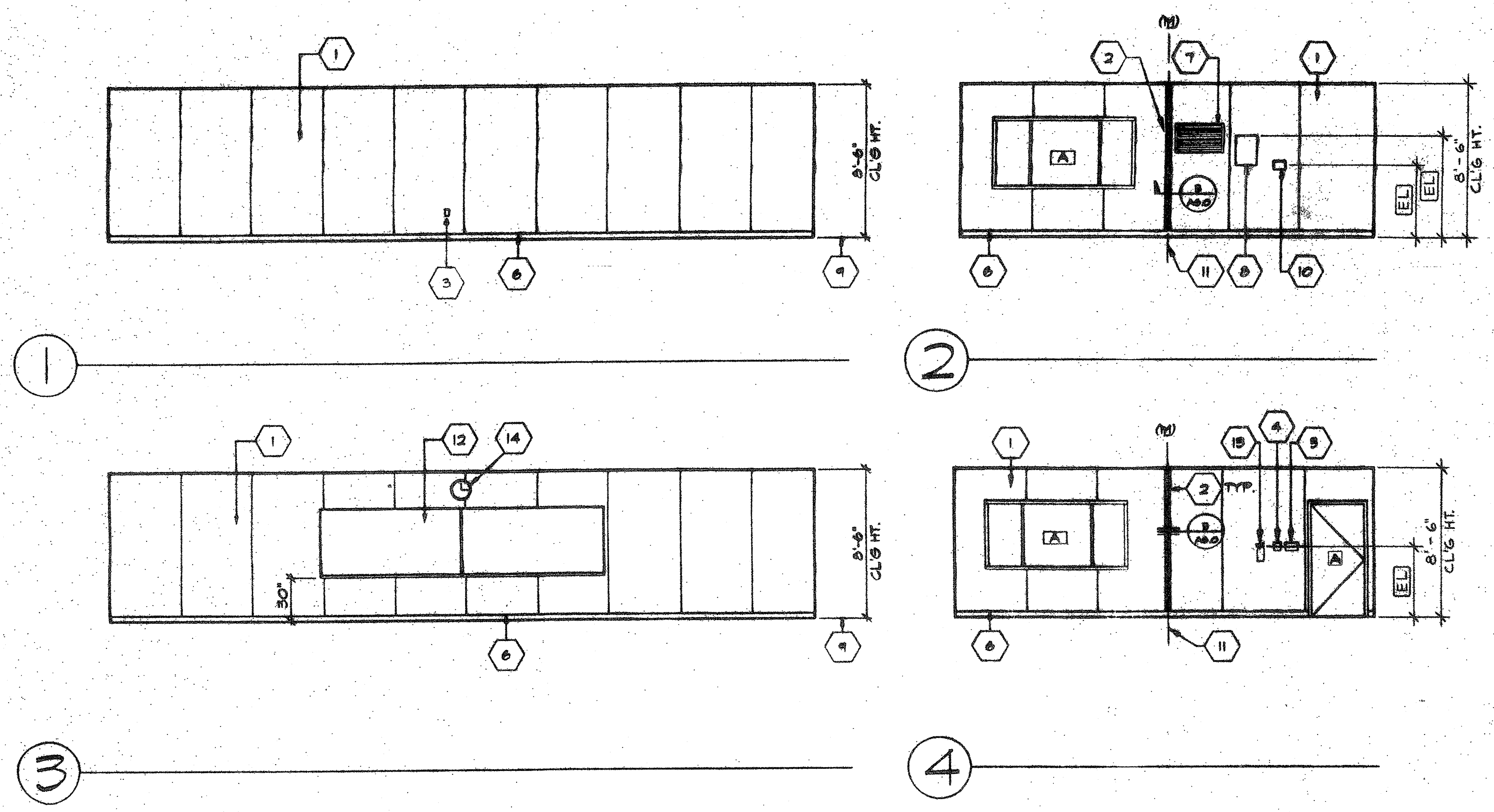

KEY NOTES

1. TYPICAL INTERIOR FINISH (SEE FINISH SCHEDULE SHT.A9.0)
2. CLOSURE AT MODULAR JOINT
3. DUPLEX WALL RECEPTACLE [EL]
4. FIRE ALARM PULL STATION [EL]
5. LIGHT SWITCH [EL]
6. TOP SET BASE (TYPICAL) SEE FINISH SCHED.
7. RETURN AIR GRILL (RAG.)
8. ELECTRICAL PANEL [EL]
9. FINISH FLOOR
10. THERMOSTAT [HV]
11. MODULAR JOINT
12. 8040 MARKBOARD
13. FIRE EXTINGUISHER. 5LBS. DRY CHEMICAL WITH 2A6-10BC U.L. RATING ON WALL MTD. BRACKET AT 48" A.F.F.
14. 12" DIA. ELECTRIC CLOCK. [EL]

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INTERIOR ELEVATIONS

SCALE 1/4"=1'-0"

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PERRIS, CA. 92572
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INTERIOR ELEVATIONS

A4.0

DOOR SCHEDULE

DOORS						FRAMES						NOTE NO.
DOOR NO.	FRAME OPENING SIZE	MATERIAL	TYPE	FIRE PROTECTION RATING	HARDWARE SET NO.	MATERIAL	HEAD DETAIL	JAMB DETAIL	SILL DETAIL	JAMB THROAT		
A	3'-0" X 6'-8"	HM	A		1	HM	7/A6.0	8/A6.0	1/A6.0	5-1/8"		

DOOR NOTES

NOTES:

1. DOOR HANDLES FOR LOCKSETS TO BE CENTERED @ 38" A.F.F. & DEADBOLTS @ 44" A.F.F.
2. HARDWARE TO BE OPENABLE FROM THE INSIDE WITHOUT ANY SPECIAL KNOWLEDGE OR EFFORT. LEVERS TO RETURN TO WITHIN 1/2" OF DOOR.
3. ALL DOORS SHALL BE 1-3/4" THICK, U.N.O.
4. DOUBLE LETTERS IN SCHEDULE, INDICATES A PAIR OF DOORS.
5. SAFETY GLASS, CLEAR.
6. WIRE GLASS
7. UNDERCUT DOOR
8. FIXED LOUVER
9. FUSIBLE LINK LOUVER
10. VISION PANEL
11. CLOSURE SHALL BE SET FOR MAX. OPENING PRESSURE OF 8.5 LBS. @ EXTR. DR. & 5.0 LBS. @INTR. DRS.

ABBREVIATIONS:

HM - HOLLOW METAL
AL - ALUMINUM
SST - STAINLESS STEEL
STL - STEEL
WWF - WINDOW WALL FRAME
SC - SOLID CORE WOOD
HC - HOLLOW CORE WOOD
SCL - SOLID CORE WOOD W/ LAMINATED PLASTIC FACES.

ROOM FINISH SCHEDULE

ROOM NO.	ROOM NAME OF AREA	FINISHES								REMARKS
		FLOOR	BASE	WALLS NORTH	WALLS EAST	WALLS SOUTH	WALLS WEST	CEILING	CEILING HEIGHT	
1	CLASSROOM	A	D	F	F	F	F	L	8'-6"	SEE SIGN BB

MATERIAL & FINISH KEY

(A) - CARPET PER STATE OF CALIFORNIA SPEC. COMPLYING WITH GROUP 1, TYPE A OR TYPE B, CLASS 2, DENSITY 4800, DIRECT GLUE DOWN WITH 4" TOPSET BASE.

(B) - RESILLENT - SPECIFY OR EQUAL

(C) - VCT - ARMSTRONG STANDARD OR EXCELON

(D) - 4" BURKE

(E) - 6" BRIGANTINE OR SANDOVAL

(F) - 1/2" VINYL TACKBOARD CLASS-1 OVER 1/2" GYP. BOARD BACKING

(G) - 1/2" W.R. GYP. BOARD TAPE TEXTURE WITH PAINTED FINISH

(H) - 5/8" W.R. GYP. BOARD TAPE TEXTURE WITH PAINTED FINISH

(I) - 1/2" GYP. BOARD TAPE/TEXTURE PAINTED WITH PAINTED FINISH

(J) - 5/8" GYP. BOARD TAPE/TEXTURE PAINTED WITH PAINTED FINISH

(K) -1/8" MARLITE OVER 1/2" W.R. GYP. BOARD

(L) - ACCOUSTICAL LAY IN GRID CEILING PANELS (SEE SPECIFICATIONS)

NOTES

DOOR SPECS. EXTERIOR
FRAME SPECS. (SEE SPEC'S)

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DOOR SPECS. INTERIOR
FRAME SPECS.(SEE SPEC'S)

WINDOWS SPECS. 8040 XOX ANODIZED ALUMINUM, BRONZE GLAZING, 7/32" MIN. TEMPERED GLASS OF SOLAR GRAY WITH A LIGHT TRANSMISSION FACTOR OF 46%. ALL OPERABLE SASH SHALL HAVE ALUMINUM SCREENS

SUB-FLOOR PREP:

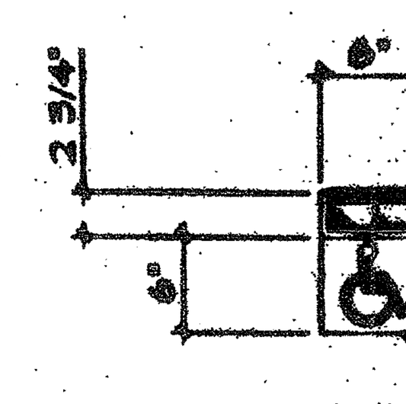
PREPARTION FOR SUB FLOOR TO ACCEPT FINISH FLOORING IS BY FLOORING CONTRACTOR. PLYWOOD SUB FLOOR IS 2.4.1 PLYWOOD. OUTER PLY IS PLUGGED AND TOUCH SANDED. ANY DEFORMITIES DUE TO STANDARD CONSTRUCTION PRACTICES SHALL BE FILLED AND SANDED BY FLOORING CONTRACTOR. THE JOINT AT THE MODULE JOINING SHALL NOT BE LARGER THAN 1/8" AND SHALL BE FILLED AND SANDED BY FLOORING CONTRACTOR.

ALL FINISH SHALL COMPLY W/ C.B.C. CHAPTERS 6, 7, 8 & 10.

WINDOW SCHEDULE

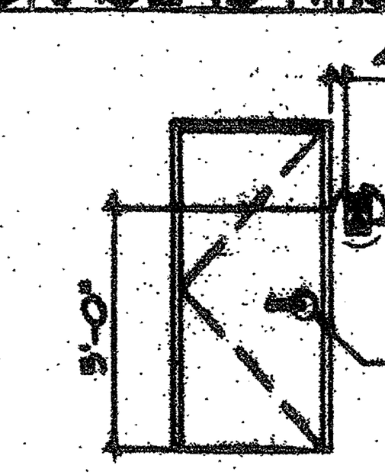
QTY.	WIDTH	HEIGHT	TYPE	FINISH	GLASS TYPE
3	8'-0"	4'-0"	XOX	ANODIZED	7/32" MIN SOLAR GRAY 46%

WINDOW TYPES
SLIDER (XOX)
FIXED
DOUBLE HUNG
SLIDER (XO)



AA

SIGNAGE IS N.I.C.



DOOR FROM EXT. VIEW
BB

HARDWARE SCHEDULE

HARDWARE PACKAGE #1

LOCKSET - D70 SCHLAGE - PD RHODES LEVER, CAL ROYAL LX-05, GRADE 1, OR EQUIL
FOR DOORS WITH 2 ENTRIES PROVIDE PANIC HDW. SEE BELOW.
BUTTS - 1-1/2 PR. HAGER 1279 BB 4-1/2 X 4-1/2 NRP 26D OR EQUAL.
CLOSER - NORTON 8501 BFDP / 900 BFDP CAL ROYAL, OR EQUAL.
THRESHOLD- PEMCO 271A OR EQUAL.
DOOR BOTTOM- PEMCO 216AV OR EQUAL.
WEATHERSTRIP- PEMCO 299AV OR EQUAL.

HARDWARE PACKAGE #2 (INTERIOR)

LOCKSET - CAL ROYAL LX-30 WITH RHODES LEVER - GRADE 1 (PASSSAGE) OR EQUAL
BUTTS - 1-1/2 PR. HAGER 1279 4-1/2 X 4-1/2 OR EQUAL

HARDWARE PACKAGE #3 (INTERIOR-OFFICE LOCKABLE)

LOCKSET - CAL ROYAL LX-00 GRADE 1- OR EQUAL
BUTTS - 1-1/2 PR. HAGER 1279 4-1/2 X 4-1/2 26D

HARDWARE PACKAGE #4 (INTERIOR RESTROOM/PRIVACY)

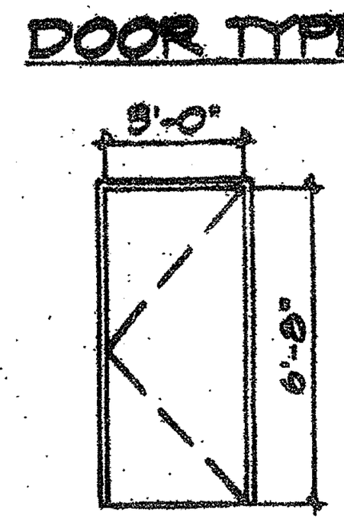
LOCKSET - CAL ROYAL LX-20 GRADE 1- OR EQUAL
BUTTS - 1-1/2 PR. HAGER 1279 4-1/2 X 4-1/2 26D

HARDWARE PACKAGE #5 (INTERIOR STOREROOM)

LOCKSET - CAL ROYAL LX-04 GRADE 1-
BUTTS - 1-1/2 PR. HAGER 1279 4-1/2 X 4-1/2 26D

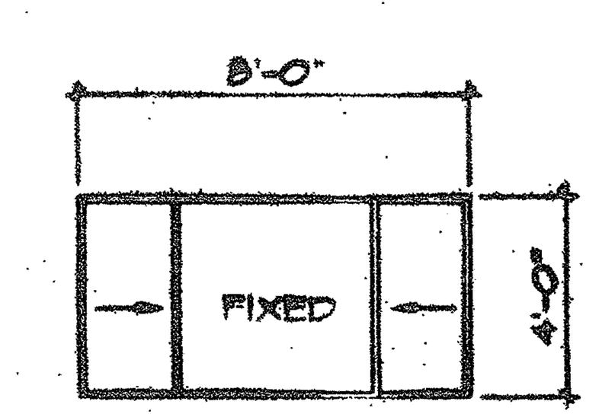
PANIC HARDWARE: CAL ROYAL 8000 OR EQUAL

DOOR TYPES



A

WINDOW TYPE



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(SEE NOTES THIS SHEET)

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			LICENSE EXPIRES 6-30-1999		

MODTECH INC.
2830 BARRETT AVE.
PERRIS, CA. 92572
PH. (909) 943-4014
FX. (909) 940-0427

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JOB NO. # 2510 #2514 #2515

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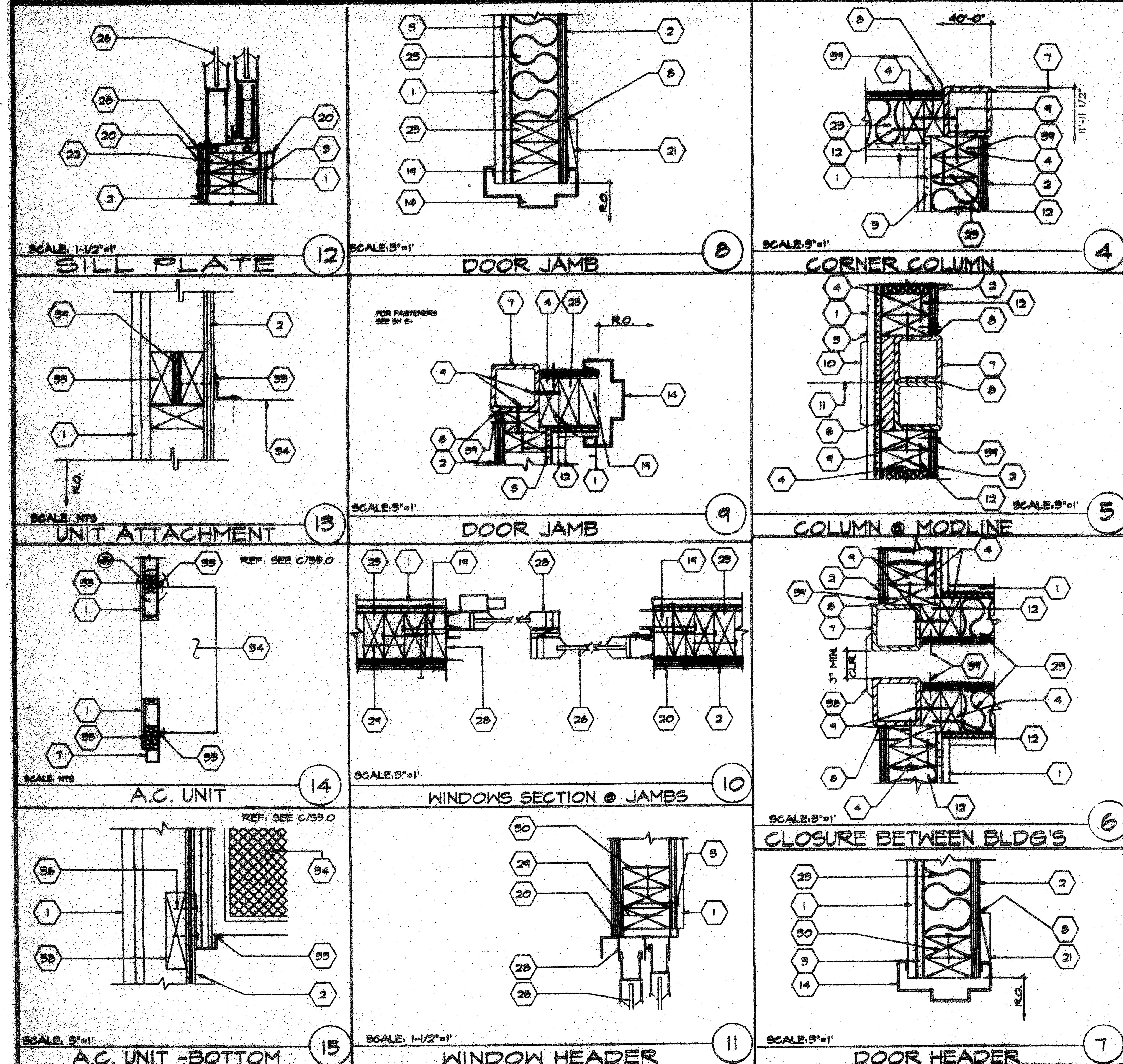
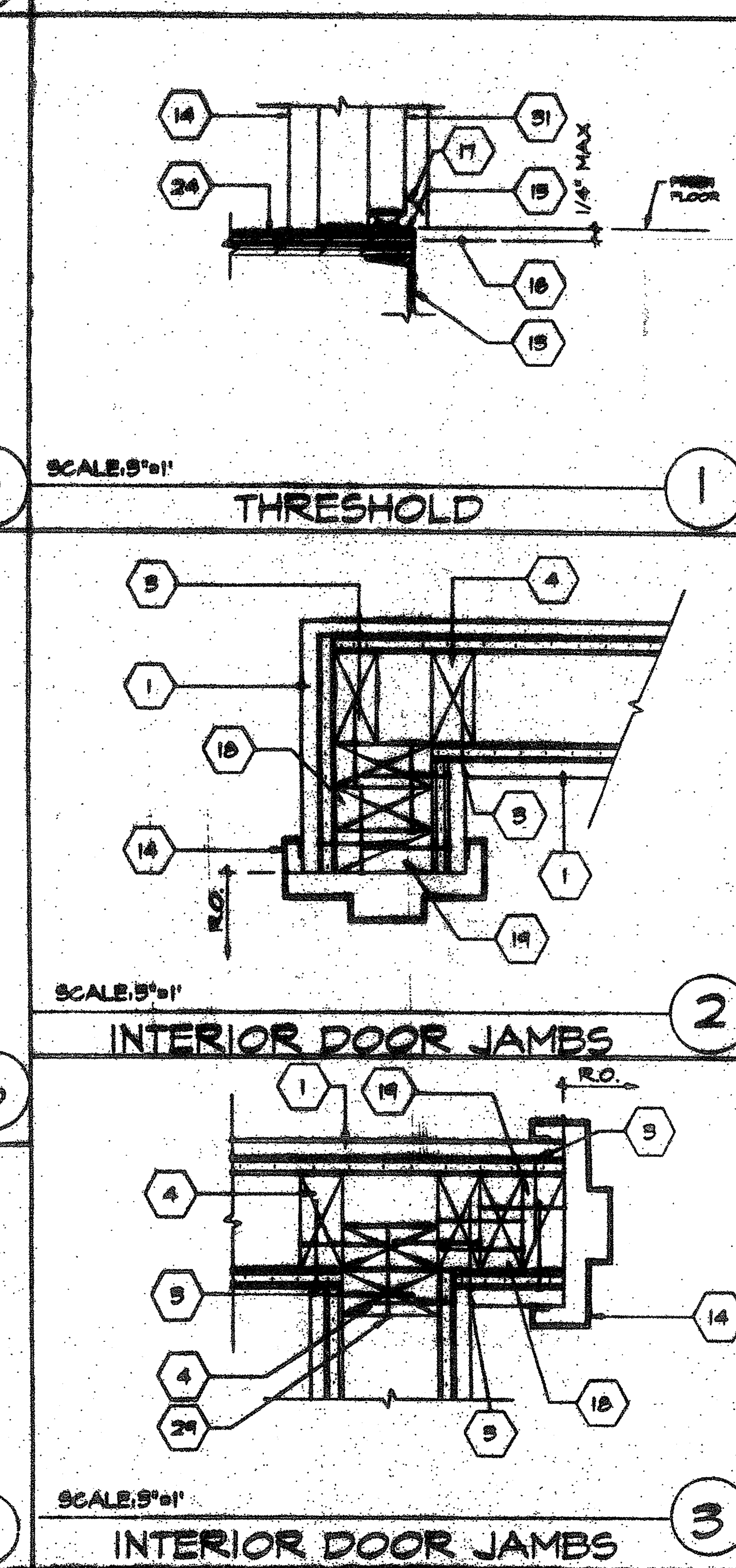
DATE

FINISH SCHEDULES

A5.0



36	16A x 24" STEEL SUPPORT BRACKET BY HVAC MFG.
37	6-3/8" ØX2" GALV. LAG SCREWS
38	2X6 LET IN (SEE WALL FRAMING SHT. 33.0)
39	EN. 8d BOX ELECTRO GAL @ 6" O.C. MAX. F.N. @ 12" O.C. MAX.
40	CLOSURE SCREEN



GENERAL NOTES

A. EN 8d ELECTRO GALV. @ 6" O.C.
B. FN 8d ELECTRO GALV. @ 12" O.C.

KEY NOTES

1	TYP. INTERIOR FINISH (SEE FINISH SHCED.)
2	TYP. EXTERIOR FINISH
3	1/2" GYPSUM BOARD BACKING W/ 7d COOLER NAILS @ MAX 7" O.C. TYP @ EA. STUD
4	2X4 STUD TYP.@ 16" O.C. MAX.
5	16d @ 16" O.C. MAX.
6	PLYWOOD FILLER
7	TUBE STEEL COLUMN (SEE STRUCTURAL)
8	SEALANT TYP. (SEE SPECS.)
9	#10 S.T.S.M.S. @ MAX. 24" O.C. (ALT. HILTI 0.145 SHOT PIN) 2X FILLER TO COLUMN
10	VINYL CLOSURE
11	MODULE JOINT
12	16d @ 24" O.C. FACE NAIL OR 16d @ 12" O.C. TOE NAIL (SEE SHT. 33.2 NOTE 12)
13	FLOOR BEAM (SEE STRUCTURAL)
14	PRESSED STEEL FRAME (K.D. TYPE SEE A3.0)
15	ALUMINUM THRESHOLD (SEE HARDWARE SCHEDULE)
16	FINISH LANDING SEE FLOOR PLAN & FOUNDATION FOR TYPE AND FINISH
17	DOOR BOTTOM (SEE HARDWARE SCHEDULE)
18	(2) 2X4 KING STUD (SEE SHT. 33.1 TABLE 23G FOR NAILING)
19	2X4 TRIMMER (SEE SHT. 33.1 TABLE 23G FOR NAILING)
20	CORNER MOLDING
21	1X4 WOOD TRIM W/8d ELECTRO GALV. @ 12" O.C.
22	2-2X4 SILL PLATE W/16D @ 16" O.C.
23	INSULATION (SEE SPECS. FOR SIZE AND TYPE)
24	FINISH FLOORING (SEE FINISH SCHEDULE SHT. A3.0)
25	2X4 JAMB STUDS (SEE SHT. 33.1 DETAILS FOR NUMBER OF STUDS REQUIRED AND TABLE 23G FOR NAILING)
26	WINDOW GLAZING (SEE WINDOW SCHEDULE SHEET A3.0)
27	NOT USED
28	ALUMINUM WINDOW FRAME WITH NAIL-ON FINISH. INSTALL W/MIN. 3" BLDG. PAPER BTWN. FIN. AND FRAMING. INSTALL WITH 8d @ MAX 24" O.C.
29	16d BOX STAGGERED @ MAX 24" O.C.
30	HEADER (SEE SHT. 33.1 WALL FRAMING DETAILS)
31	DOOR (SEE DOOR SCHED.)
32	SEE SHEET 33.1 FOR TYPICAL WALL FRAMING NAILING
33	L 1 1/2"x1 1/2"x1/8"x18" LONG ATTACHED TO A/C w/4-#10 SELF TAPPING SHEET METAL SCREWS & ATTACH TO WALL
34	HVAC UNIT (SEE SHEET M-1)
35	(3) 2X4 W/ PLYWOOD SPACER- BUILT- UP POST 4X4 ALT. POST

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LICENSE EXPIRES 6-30-1998

MODTECH INC.

MODTECH INC.
2830 BARRETT AVE.
PERRIS, CA. 92572
PH. (909) 943-4014
FX. (909) 940-0427

JOB NO. # 2510 #2516

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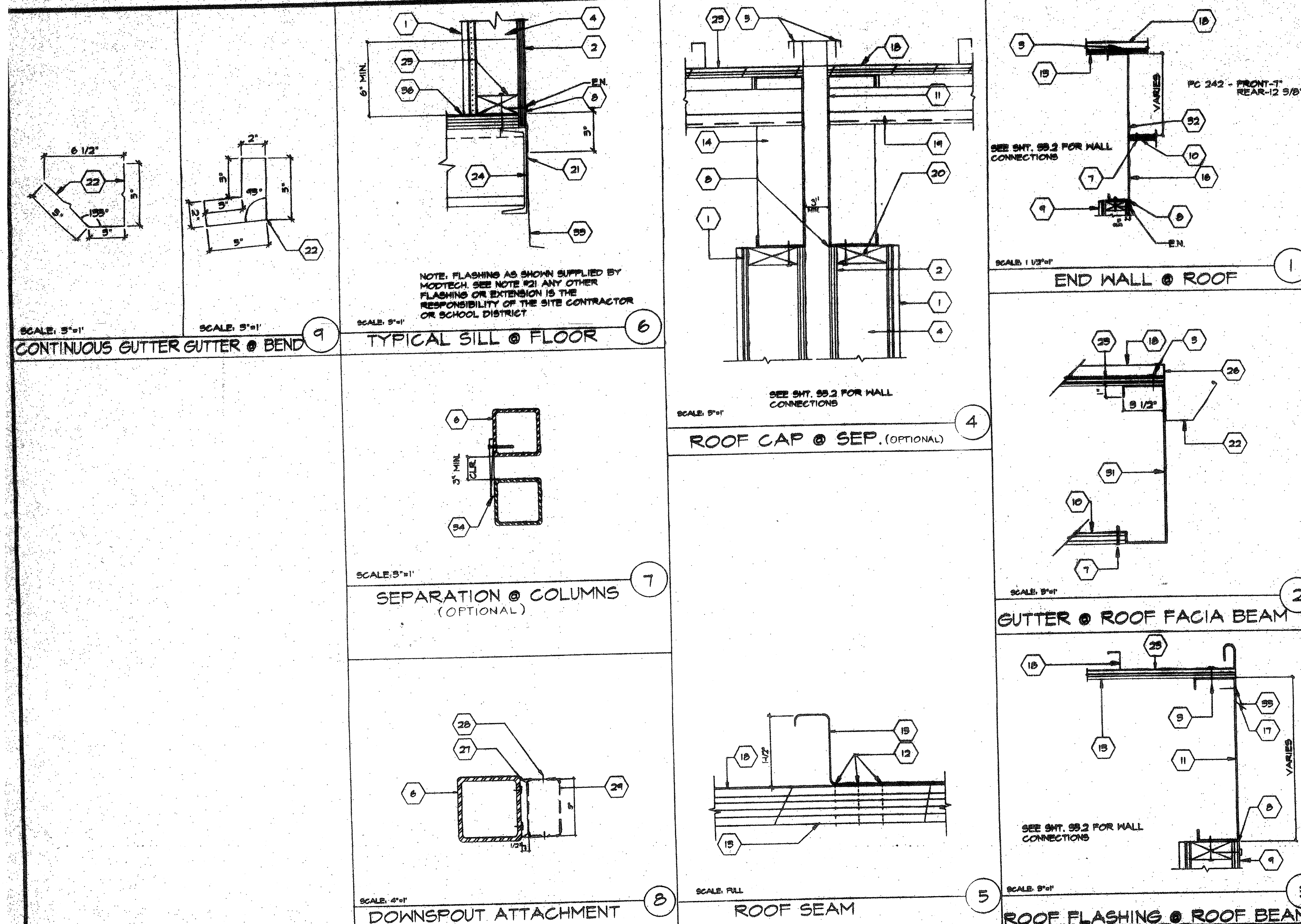
ARCHITECTURAL DETAILS

A6.0



KEY NOTES

1. TYP. INTERIOR FINISH
2. TYP. EXTERIOR FINISH
3. E.N. RF. PLYWOOD TO BEAM (SEE STRUCTURAL) (DO NOT PENETRATE METAL ROOFING)
4. 2X4 STUD TYP.
5. CAP CLOSURE @ RIDGE 28GA. GALV. W/#10 STSMS @12" O.S. STAGGER W/NEOPRENE WASHERS TO RIB BOTH SIDES OF MODLINE SET CAP IN SEALANT.
6. TUBE STEEL (SEE STRUCTURAL)
7. #10 S.T.S.M.S. @ 6" O.C.EN @ 12" O.C. FN / ALT. USE AEROSMITH AKN 144.0175 DRIVE PIN.
8. SEALANT TYP. (SEE SPECIFICATIONS)
9. EXTERIOR WALL (SEE S3.2 FOR CONNECTIONS)
10. SOFFIT (SEE SPECIFICATIONS)
11. ROOF BEAM (SEE STRUCTURAL)
12. (3)- 8d RING SHANK NAILS ROOF CLIP TO ROOF DECKING (SEE NOTE 15 FOR ROOF CLIP)
13. PLYWOOD ROOF SHEATHING (SEE STRUCTURAL)
14. FULL DEPTH STIFFENER PLATE (SEE STRUCTURAL FOR LOCATION)
15. ANCHOR CLIPS @ 24" O.C. & WITHIN 8" @ END OF ROOF DECKING
16. ROOF HEADER (SEE STRUCTURAL)
17. G.I. FLASHING 28GA.
18. STANDING SEAM ROOF (SEE A2.0 FOR GA.)
19. ROOF PURLIN (SEE STRUCTURAL)
20. CONTINUOUS 2X4 TOP PLATE
21. GALV. FLASHING (ONLY AT CONCRETE SUB-TERRAIN-FOUNDATION)
22. CONTINUOUS 26GA. GUTTER
23. WEATHERPROOF MEMBRANE (25-30LBS. ASPHALT COATED)
24. FLOOR BEAM (SEE STRUCTURAL)
25. 2X4 SILL PLATE ATTATCHED PER 4/S3.2
26. SEALANT @ END OF SEAM
27. ATTACHMENT BRACKET (TYP. 3-PLACES, TOP BTM., & MIDSPAN W/2-#10STSMS BRACKET TO COLUMN)
28. POP RIVETS MIN. 1/8"Ø
29. DOWNSPOUT
30. BLOCKING BRACKET
31. ROOF FACIA HEADER (SEE STRUCTURAL)
32. 1/2"X1 1/2"X14GA.< TACK WELD IN PLANT
33. GALVANIZED COUNTER FLASHING (BY OTHERS)
34. WIRE MESH CLOSURE ATTACH TO COLUM ONE SIDE W/#10 STSMS @ 12" O.C.
35. #10 STSMS @ MAX. 24" O.C.
36. PLYWOOD FLOOR SHEATHING

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MODTECH INC.
2830 BARRETT AVE.
PERRIS, CA. 92572
PH. (909) 943-4014
FX. (909) 940-0427

JOB NO: # 2510 #2514 #2515

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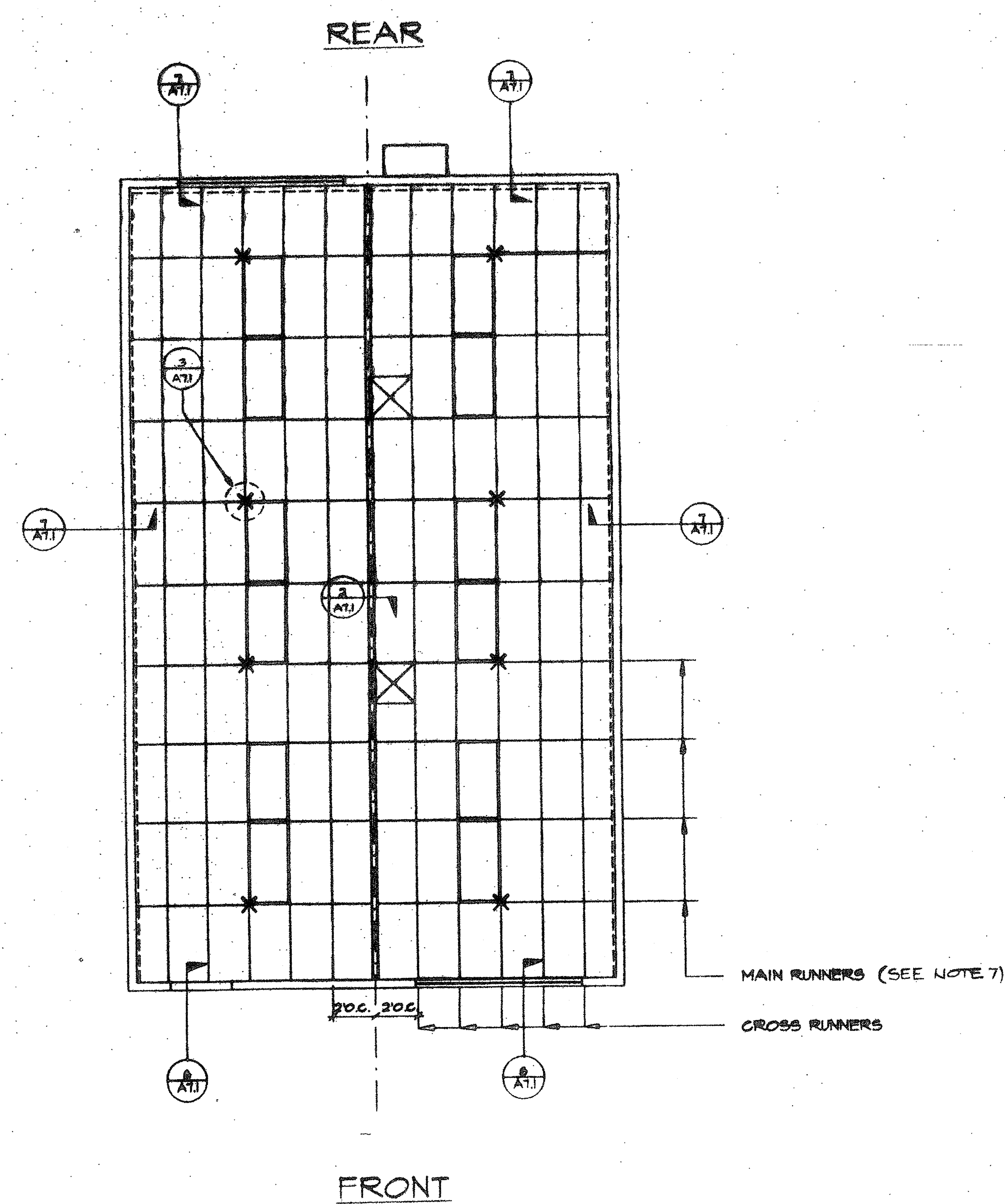
ARCHITECTURAL DETAILS

A6.1



REFLECTED CEILING PLAN

SCALE 1/4"=1'-0"

GENERAL NOTES

1. MAIN RUNNERS @ 4'-0" W/12GA. HANGER WIRES @ END OF EACH RUNNER.
2. AT THE END OF ROWS OF RUNNERS A 12GA. HANGER WIRE SHALL BE ATTACHED WITHIN 8" OF WALL OR SOFFIT
3. VERTICAL WIRES MORE THAN 1-IN-6 OUT OF PLUMB SHALL HAVE COUNTERBRACING WIRES.
4. PROVIDE 2-12GA. SLACK WIRES TO HOUSING OF ALL LIGHT FIXTURES AT DIAGONAL CORNERS. WIRES SHALL BE ATTACHED TO STRUCTURE OF LIGHT FIXTURES. 2 X 4 RECESSED. ATTACHED TO GRID W/1-#8 SHEET METAL SCREW AT EACH CORNER.
5. 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.
6. CEILING AREAS SHALL HAVE 4-WAY SPLAYS PER DETAIL 1 ON SHEET A7.1 IN LOCATIONS INDICATED ON DRAWINGS. WIRES TAUT BUT NOT TO DISTORT GRID.
7. ARMSTRONG HEAVY DUTY PER PA-041 • MAIN RUNNERS #7301 • 4' CROSS TEE #XL-7342 • 2' CROSS TEE #XL-7328 • WALL ANGLE # 7800
8. DUCTWORK SHALL BE RIGIDLY ATTACHED TO BUILDING AND SHALL NOT BE CLOSER THAN 6" TO HANGER WIRES.
9. REGISTERS SHALL BE POSITIVELY ATTACHED W/4-10GA. SHEET METAL SCREWS.
10. CEILING PANELS: 2 X 4 LAY-IN PANELS, ASTM FLAME SPREAD CLASS I (0-25). FLAME SPREAD SMOKE DEVELOPMENT DENSITY LESS THAN 450 (TYP.)
11. RUNNERS: ARMSTRONG
    MAIN TEE'S: ML8000/7301, SLH8020/7804, SLH8024/7801 SLH8030/7805, FST 8000/8301, & CFST 8000/8301.
    FOR ALTERNATE, SEE NOTE # 7

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LEGEND

- T & T BAR CEILING
- 2'X4' ELEC. FIXTURE RECESSED
- SUPPLY AIR DIFFUSER
- RETURN AIR DIFFUSER
- SPLAY WIRE 4-WAY
- INDICATES FREE SIDE (SEE DETAIL 6/A7.1)
- INDICATES FIXED SIDE (SEE DETAIL 7/A7.1)

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			PROFESSIONAL ENGINEER No. 2602 STATE OF CALIFORNIA LICENSE EXPIRES 6-30-1999	C 2505 REN. 9-30-97 STATE OF CALIFORNIA	IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES APPL 67333 DATE MAR 11 1997

MODTECH INC.
2830 BARRETT AVE.
PERRIS, CA. 92572
PH. (909) 943-4014
FX. (909) 940-0427

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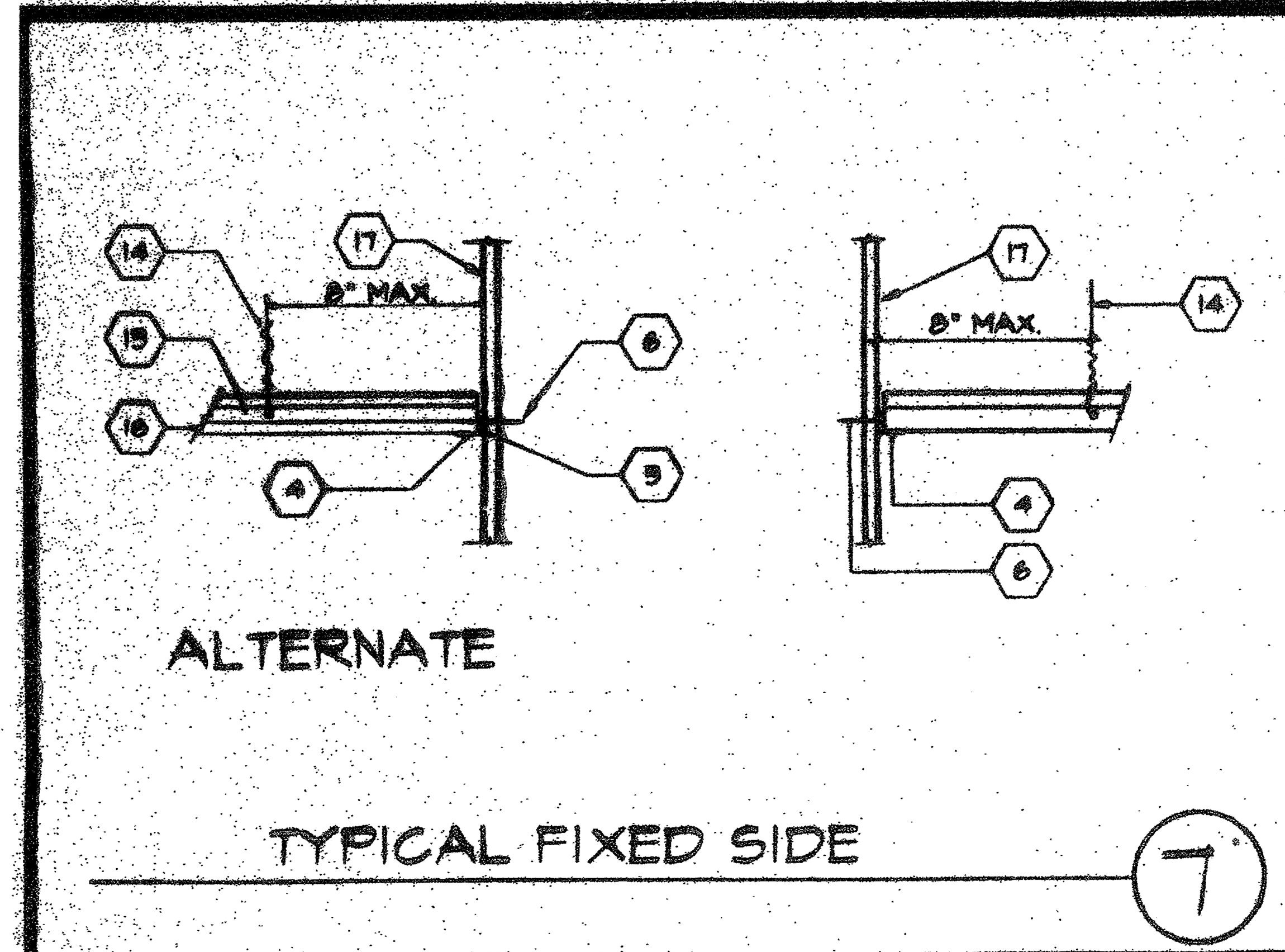
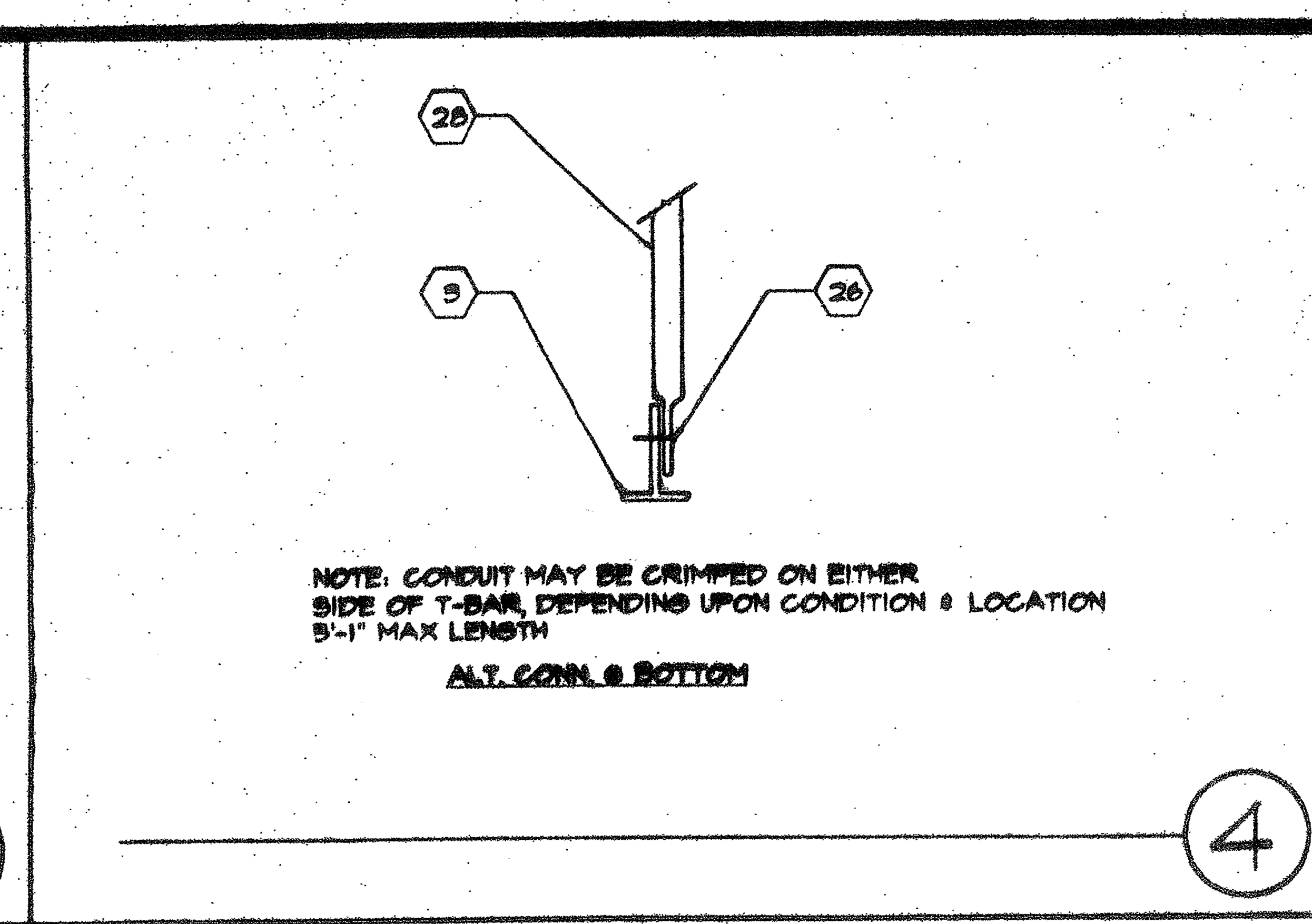
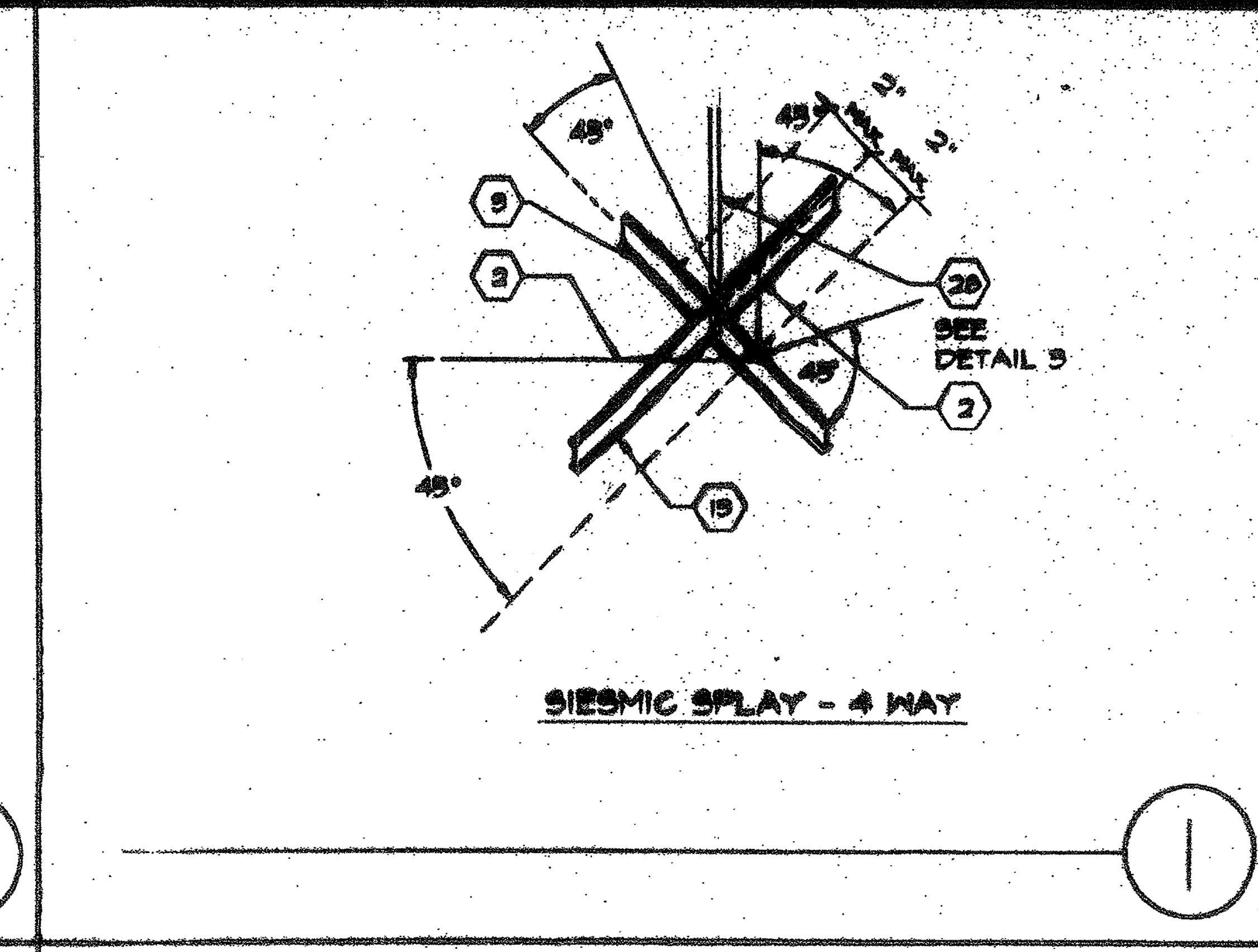
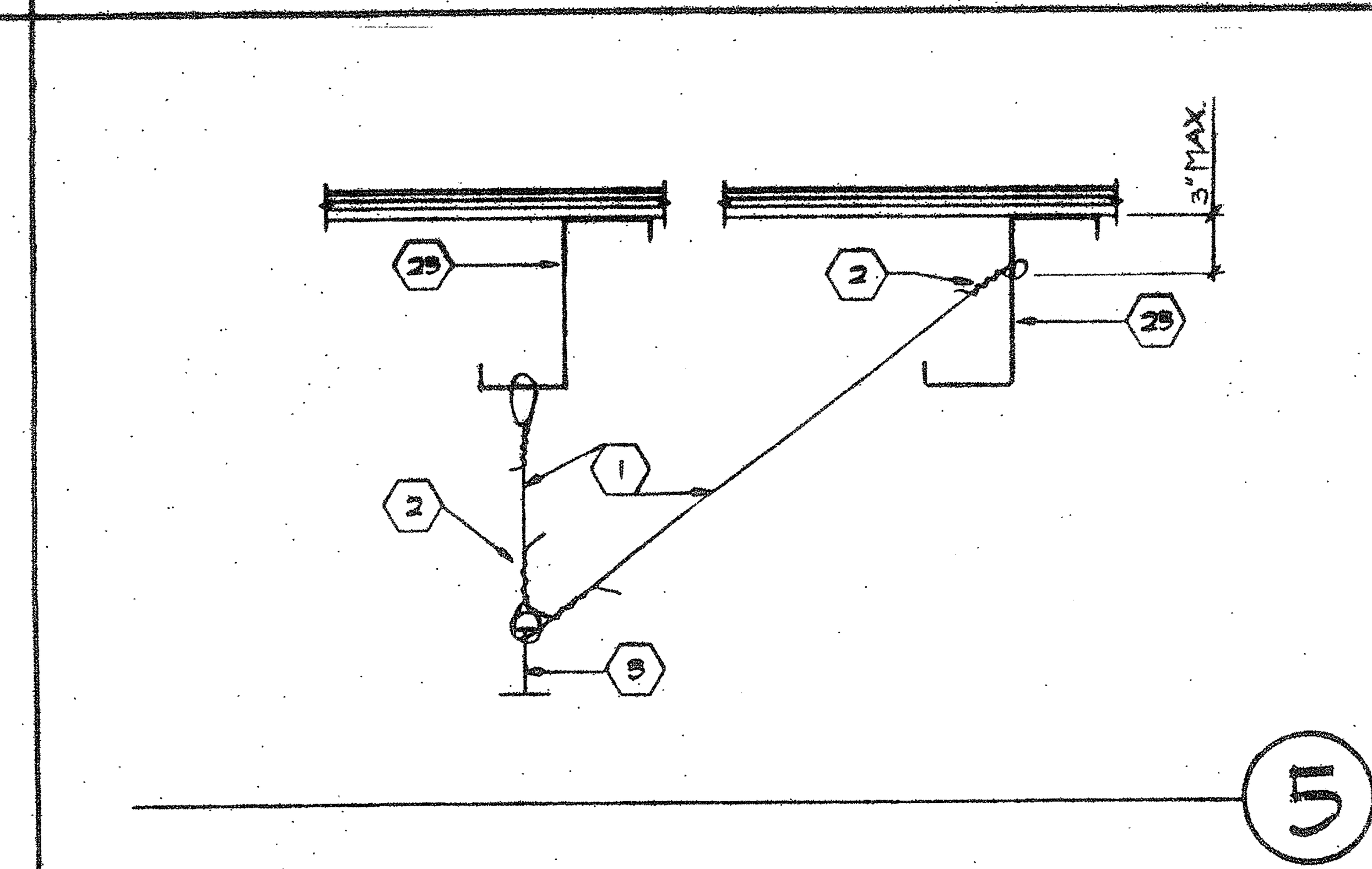
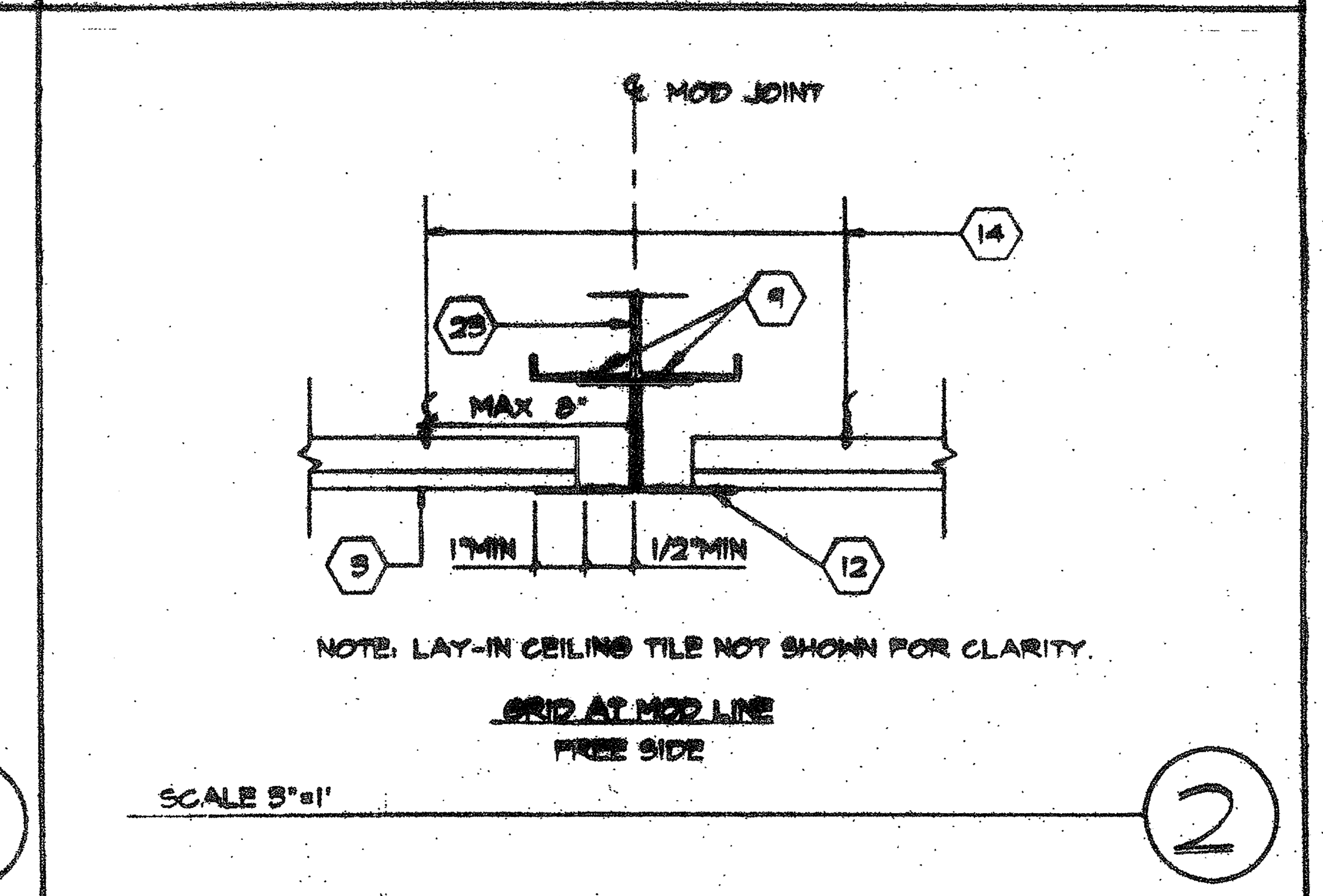
A7.0

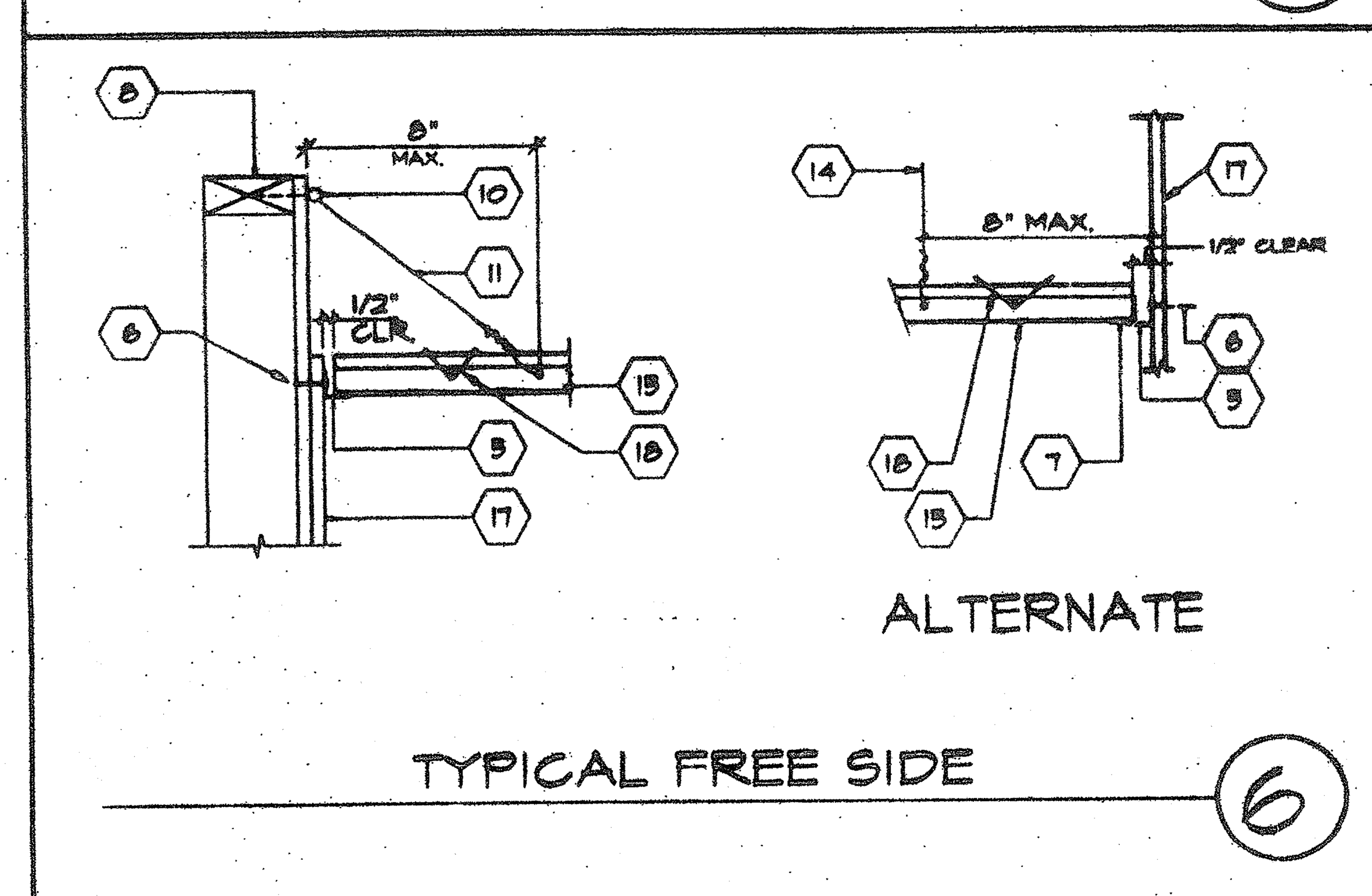


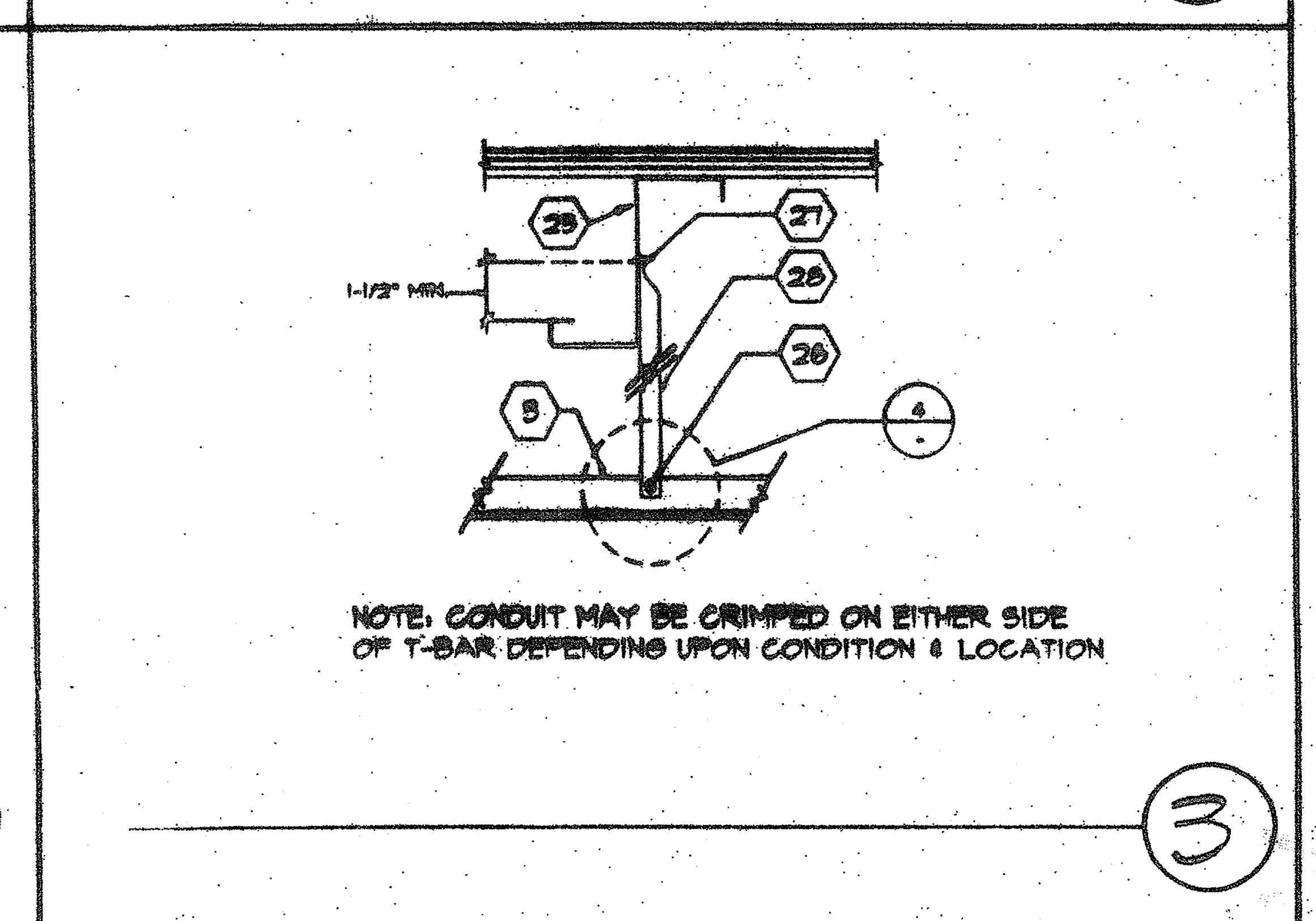












KEY NOTES

1. 12GA. HANGER WIRE @ 4'-0" O.C. IN PINCHED OR DRILLED HOLE
2. 12GA. WIRE WITH 4 WRAPS IN 1 1/2" (TYP.)WIRE TO RUN PERPENDICULAR TO MAIN TEE
3. MAIN RUNNER
4. 1/8"Ø POP RIVET TO EACH T-BAR
5. WALL ANGLE
6. 6d 16" @ FRAMING TO WALL STUD
7. ANGLE WITH 1/8"Ø POP RIVET TO EACH T-BAR NO CONNECTION TO WALL ANGLE
8. TOP PLATE
9. #10 S.T.S.M.S. @ 4' O.C.
10. 3"X1/4" EYED SCREW W/2" EMBEDMENT
11. HANGER TO WALL WHERE NO RAFTER ABOVE MAX SLOPE 1" IN 6"
12. 26 GA. REFLECTED CEILING MOUNT X 2" [
13. CROSS TEE
14. 12GA. HANGER WIRE AT THE END ON EACH RUNNER MIN. 4 WRAPS IN MAX 1 1/2"
15. MAIN RUNNERS OR CROSS TEES
16. ACOUSTICAL BOARD
17. FINISH WALL
18. HORIZONTAL STRUTS SHALL RUN CONTINUOUS AT ALL PERIMETERS, NOT POP RIVETED TO THE WALL ANGLE USE 6d RING SHANK NAIL TO EA TEE.
19. NOT USED
20. NO POP RIVETS
21. PROVIDE SPACE AT ALL MEMBERS AT OPPOSITE WALL
22. #8 TEK SCREW @ MAX 24" O.C.
23. ROOF BEAM (SEE STRUCTURAL)
24. NOT USED
25. ROOF PURLIN (SEE STRUCTURAL)
26. CRIMP CONDUIT AND ATTACH TO T-BAR GRID W/#8 TEKSCREWS
27. CRIMP CONDUIT TO RAFTER W/2-#8 TEKSCREW
28. 3/4" E.M.T. CONDUIT
29. #8 TEKSCREW

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MODTECH INC.
2830 BARRETT AVE.
PERRIS, CA. 92572
PH. (909) 943-4014
FX. (909) 940-0427

MODTECH INC,

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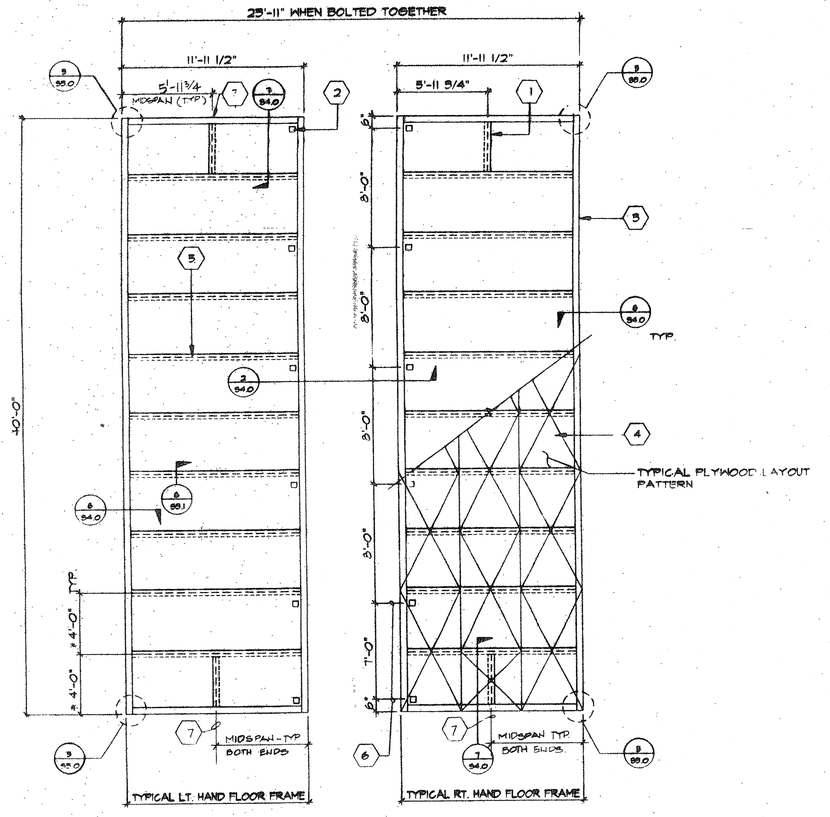
A7.1



* SEE FLOOR JOIST TABLE FOR APPROPRIATE SPACING PER JOB.

FLOOR JOIST TABLE

LIVE LOAD	[6 3/8"X2 1/2"X12GA.	[6 3/8"X2 1/2"X14GA.
50 P.S.F.	48" O.C.	32" O.C.
50 P.S.F. W/ 20 P.S.F. PARTITIONS	32" O.C.	24" O.C.
100 P.S.F.	24" O.C.	16" O.C.
125 P.S.F.	16" O.C.	12" O.C.

KEY NOTES

1. [6 3/8 X 2 1/2 X 12GA. BLOCKING AT MIDSPAN OF FLOOR HDR. TYPICAL
2. 5" SQ. HAND HOLES AT BOLT BM TO BM (12 PLACES)
3. C 7X9.8 PERIMETER CHANNEL (TYPICAL)
4. PLYWOOD FLOOR SHEATHING, APA PS 1-83 1 1/8" THICK, STURD-I-FLOOR W/48" O.C. SPAN RATING. ATTACHED W/P10 X 1 3/4" SELF-TAPPING FLAT HEAD SCREWS AT 6" O.C. TO PERIMETER FRAME, AEROSMIT AKN 144.0175 DRIVE PINS AT 6" O.C. SUPPORTED EDGES AND 6" O.C. FIELD TO JOIST. (TYPICAL)
5. 6 3/8 X 2 1/2 X 12GA. FLOOR PURLIN @ 48" O.C.
6. TYPICAL BOLT HOLE LOCATION (SEE 2/S4.0)
7. 1" ø HOLE @ MIDDEPTH FOR HANDLING

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FLOOR FRAMING PLAN

FLOOR LIVE LOAD - 50 PSF

SCALE 1/4"=1'-0"

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2850 BARRETT AVE.
PERRIS, CA. 92572
PH. (909) 943-4014
FX. (909) 940-0427

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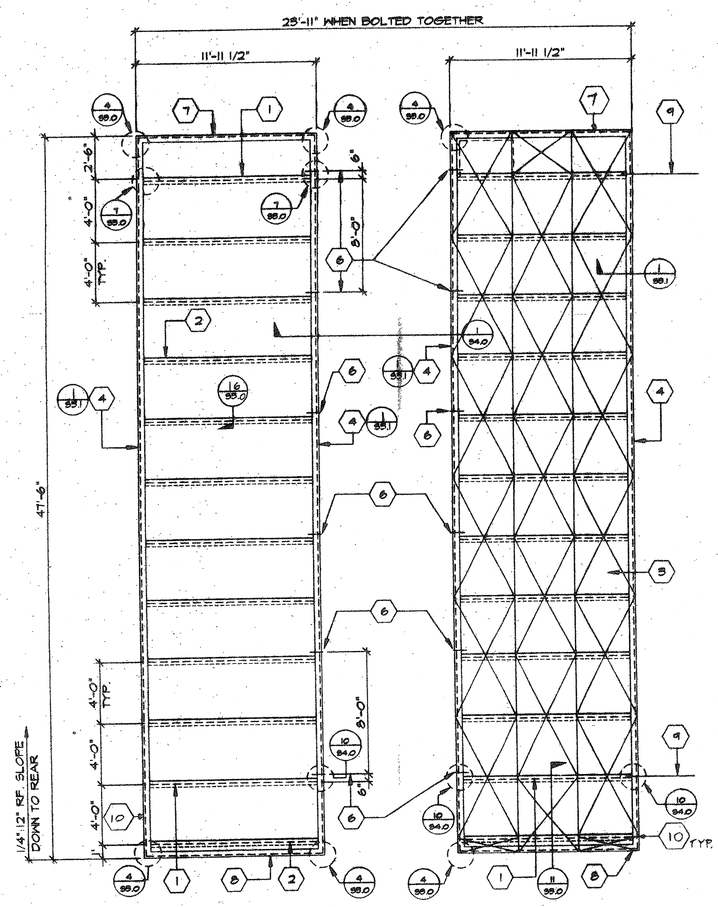
FLOOR FRAMING PLAN

S1.0

REAR



LT HAND FRAME RT HAND FRAME

FRONT

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KEY NOTES

1. C 14 X 12GA. ⊏ HEADER
2. ⊓ 6" X 2½" X 14 GA. AT 48" O.C. (TYP.)
3. PLYWOOD ROOF SHEETING 5/4" CD EXPOSURE 1 P.I.I 48/24 PSI-83 PLYCLIPS AT 16" O.C. LONG EDGES. #10-1-1/4" SELF TAPPING FLAT HEAD SCREWS AT 6" O.C. TO PERIMETER FRAME. AEROSMITH AKN 144.0173 DRIVE PINS AT 6" O.C. AT SUPPORTED EDGES AND 8" O.C. FIELD TO PURLINS. PLYWOOD PATTERN SHOWN IS TYPICAL THRU OUT. *(ALTERNATE: USE AEROSMITH AKN 144.0173 DRIVE PINS AT 6" O.C. PERIMETER)
4. TAPERED ROOF BEAM 106A. SEE 7/S5.1 ⊏
5. NOT USED
6. 11/16ø DRILL SEE DETAIL 1/S4.0
7. ⊏ 13 3/8"X14GA. FACIA
8. ⊏ 10" X 12 GA. ROOF FASCIA
9. E.N. THIS LINE
10. 8" X 3½" X 14GA. ROOF OVERHANG BEAM.

ROOF FRAMING PLAN (MONO SLOPE)

SCALE 1/4"=1'-0"

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			REGISTERED PROFESSIONAL ENGINEER ROGER L. BORG No. 3602 CIVIL STRUCTURAL LICENSE EXPIRES 6-30-1990	LICENSED ARCHITECT GEORGE C. LOMAS RENEWAL 9-30-97 STATE OF CALIFORNIA	IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES APP. No. 17333 AC. FLS. SS DATE NOV 17 1997

MODTECH INC.
2830 BARRETT AVE.
PERRIS, CA. 92572
PH. (909) 943-4014
FX. (909) 940-0427

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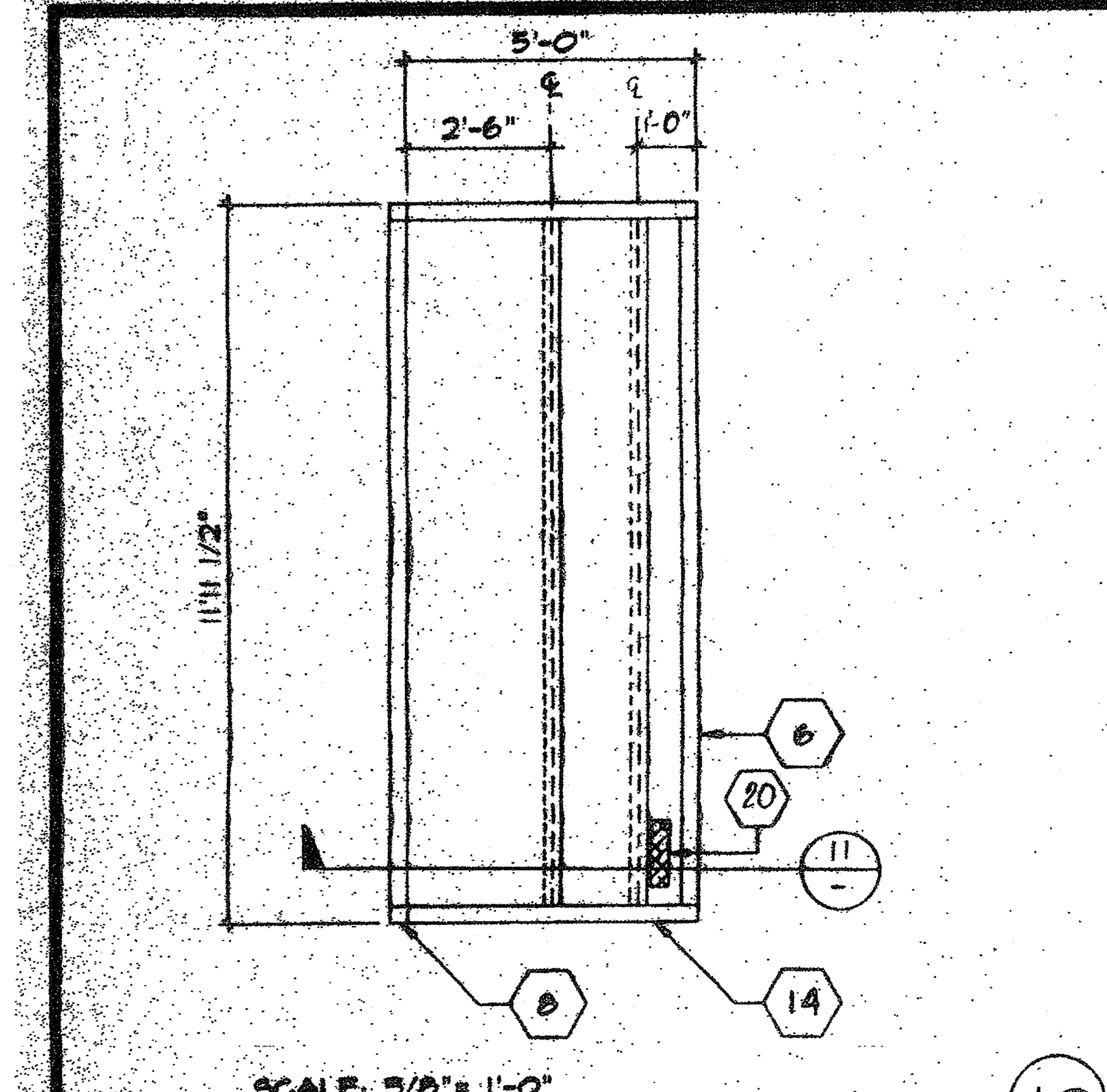
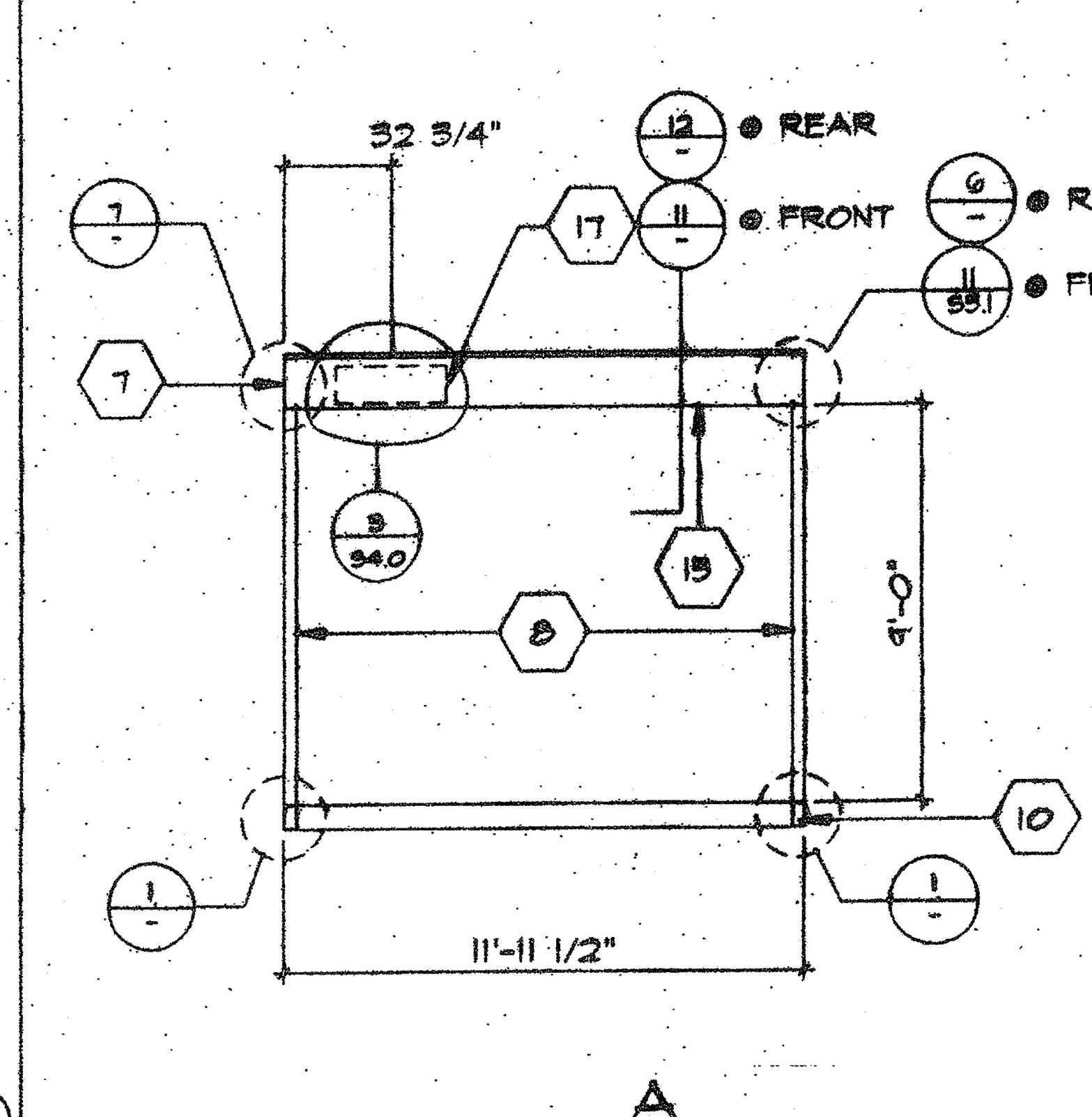
ROOF FRAMING PLAN

SA2.0

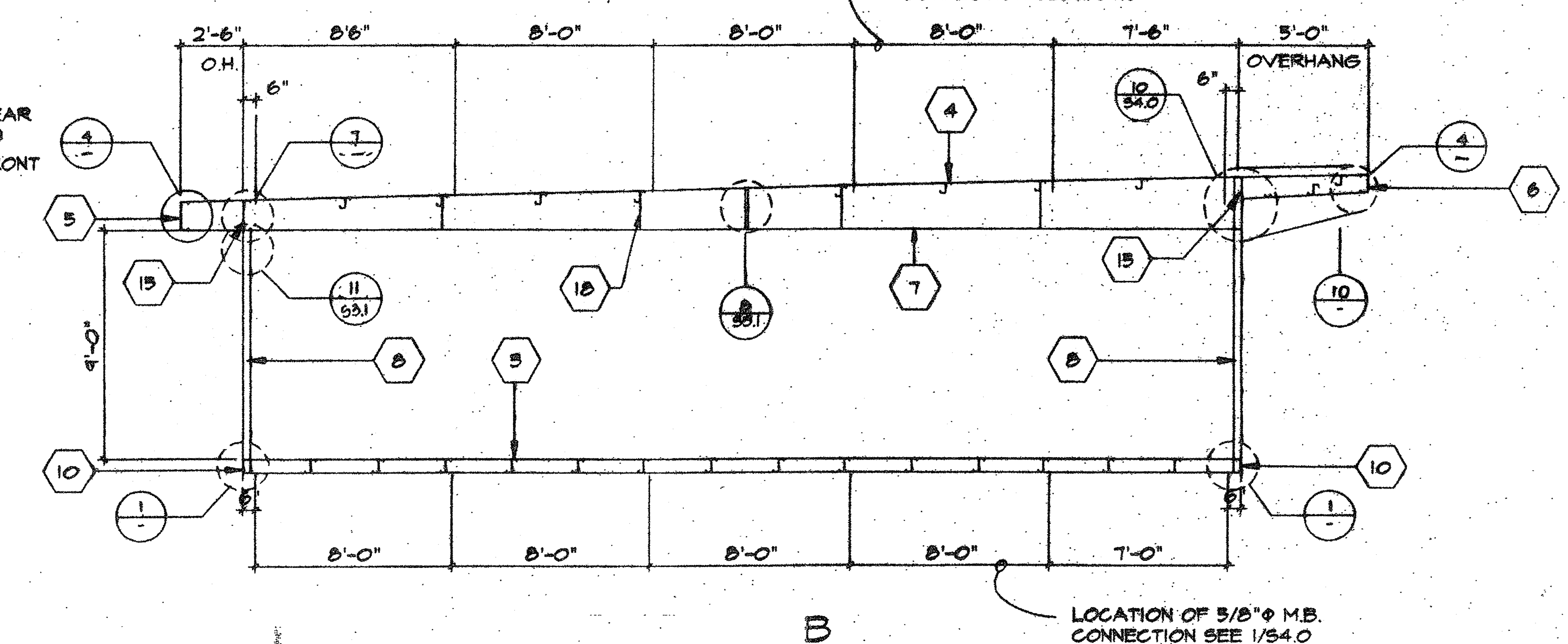


SCALE: 3/8" = 1'-0"

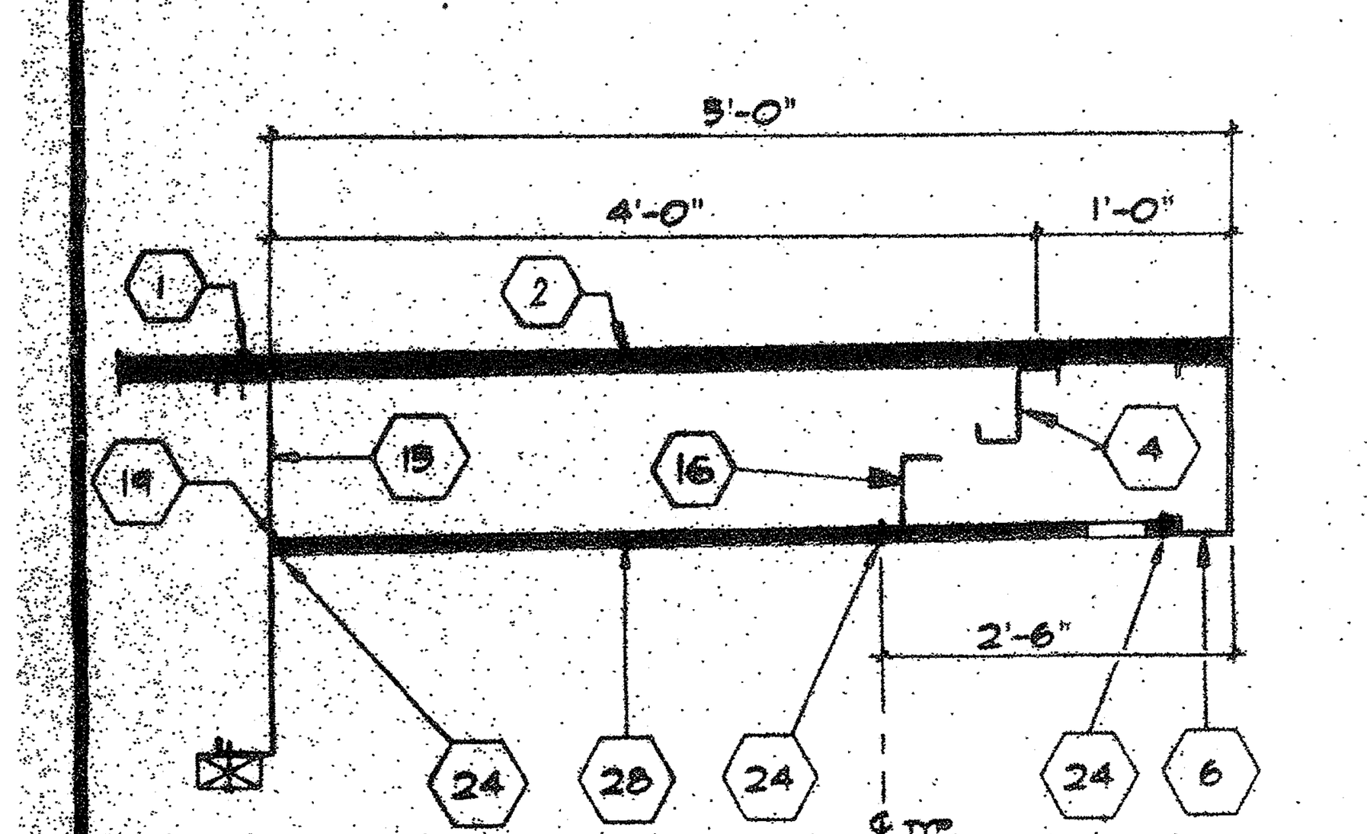
ENCLOSED SOFFIT PLAN - (OPTIONAL) (10)



SECTION A @ ENDWALL

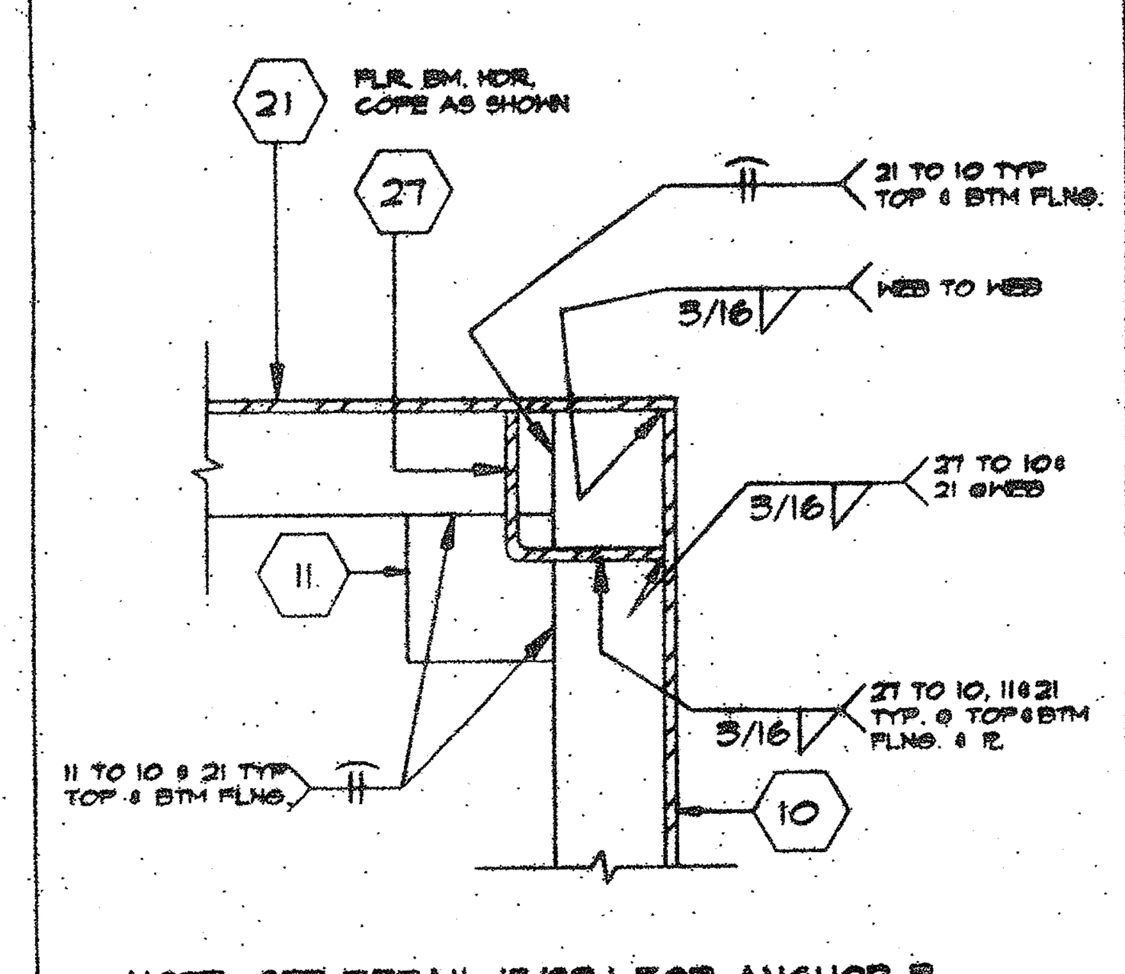


SECTION B @ SIDEWALL



SCALE: 1" = 1'-0"

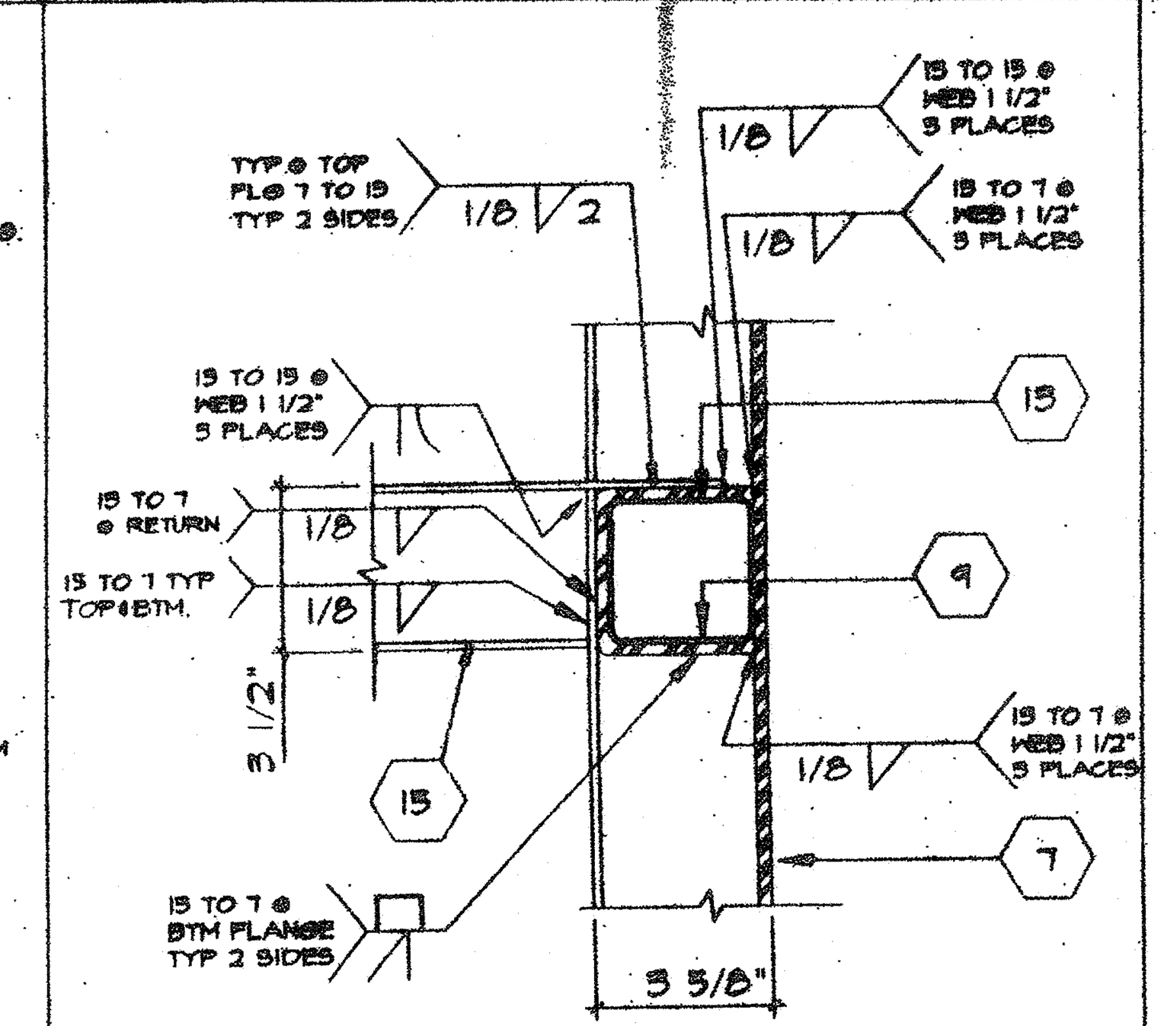
OPTIONAL ENCLOSED SOFFIT SECTION/FRONT (11)



NOTE: SEE DETAIL 13/S3.1 FOR ANCHOR PL @ CONCRETE FOUNDATION

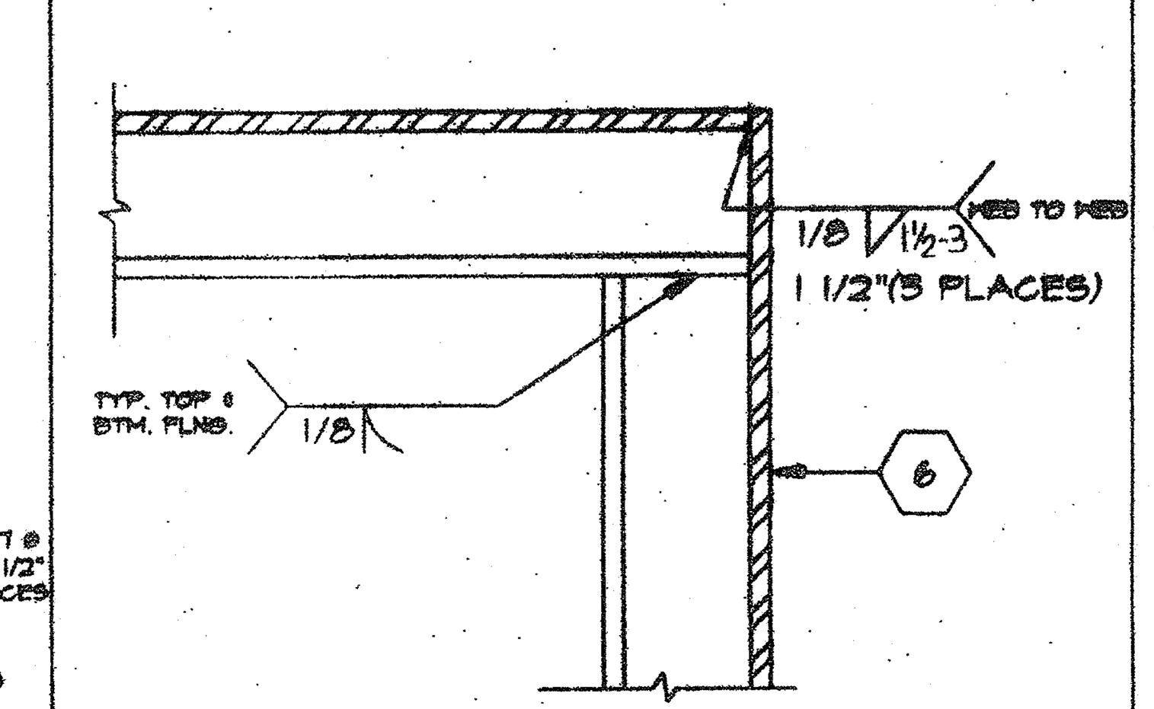
SCALE: 3" = 1'

STIFFENER SECTION @ FLOOR (8)



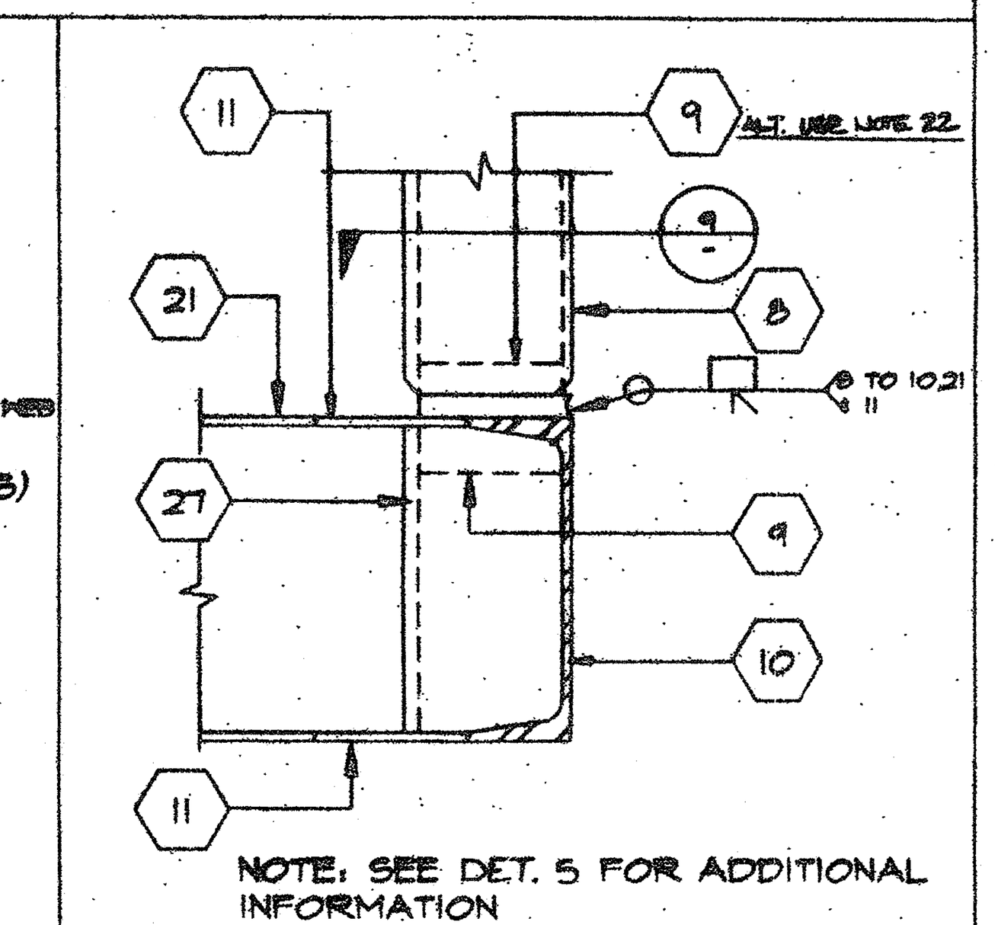
SCALE: 3" = 1'

STIFFENER SECTION @ REAR (6)



SCALE: 3" = 1'

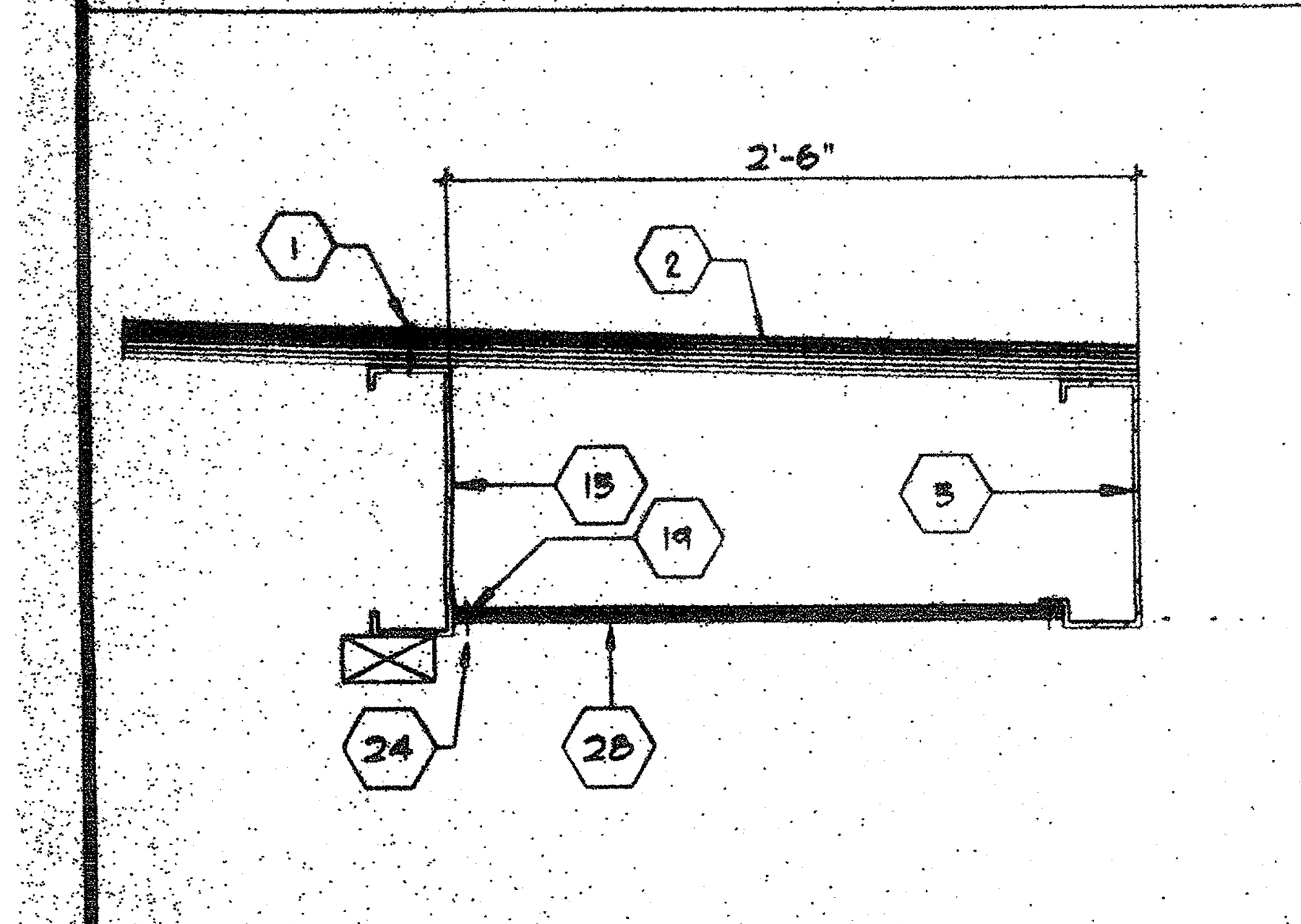
PLAN @ ROOF OVERHANG (4)



NOTE: SEE DET. 5 FOR ADDITIONAL INFORMATION

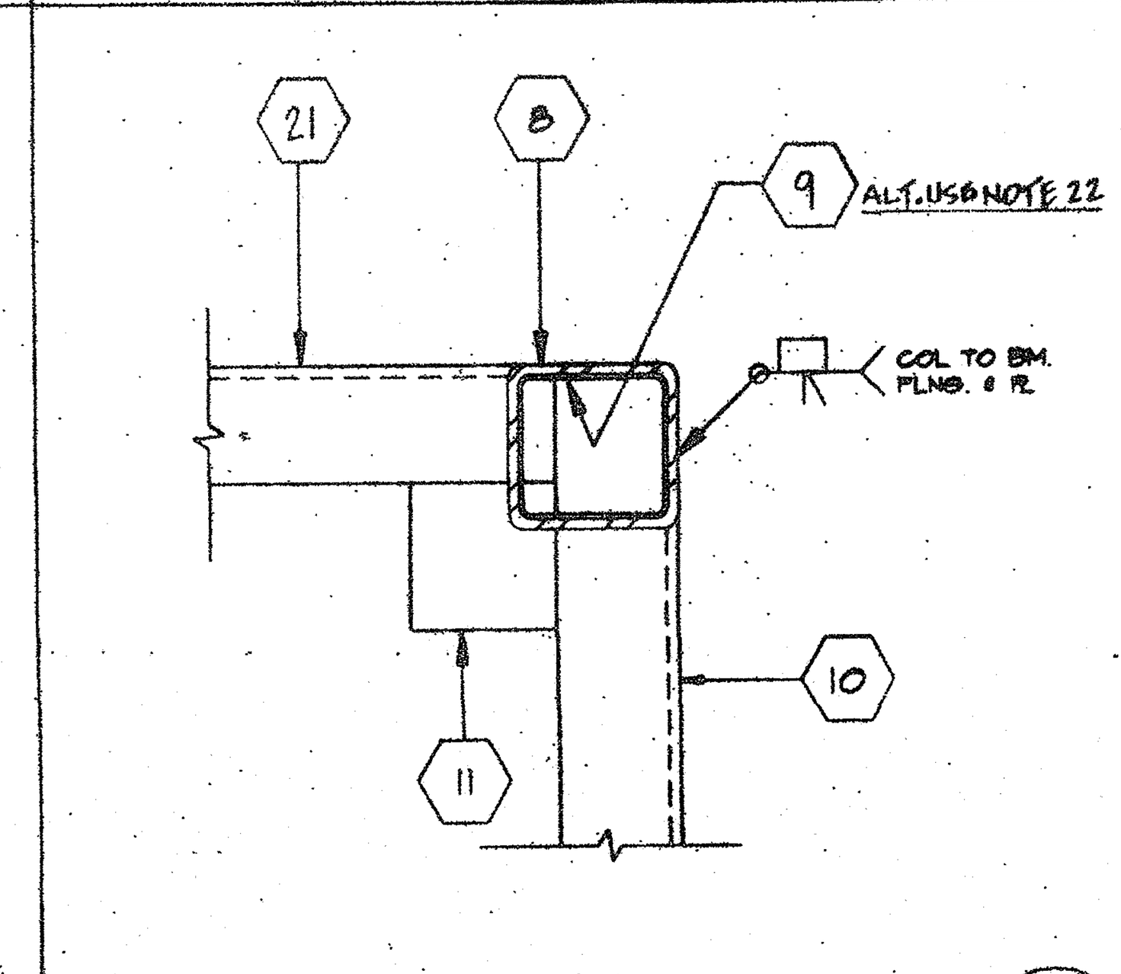
SCALE: 3" = 1'

COLUMN CONN. @ FLOOR (1)



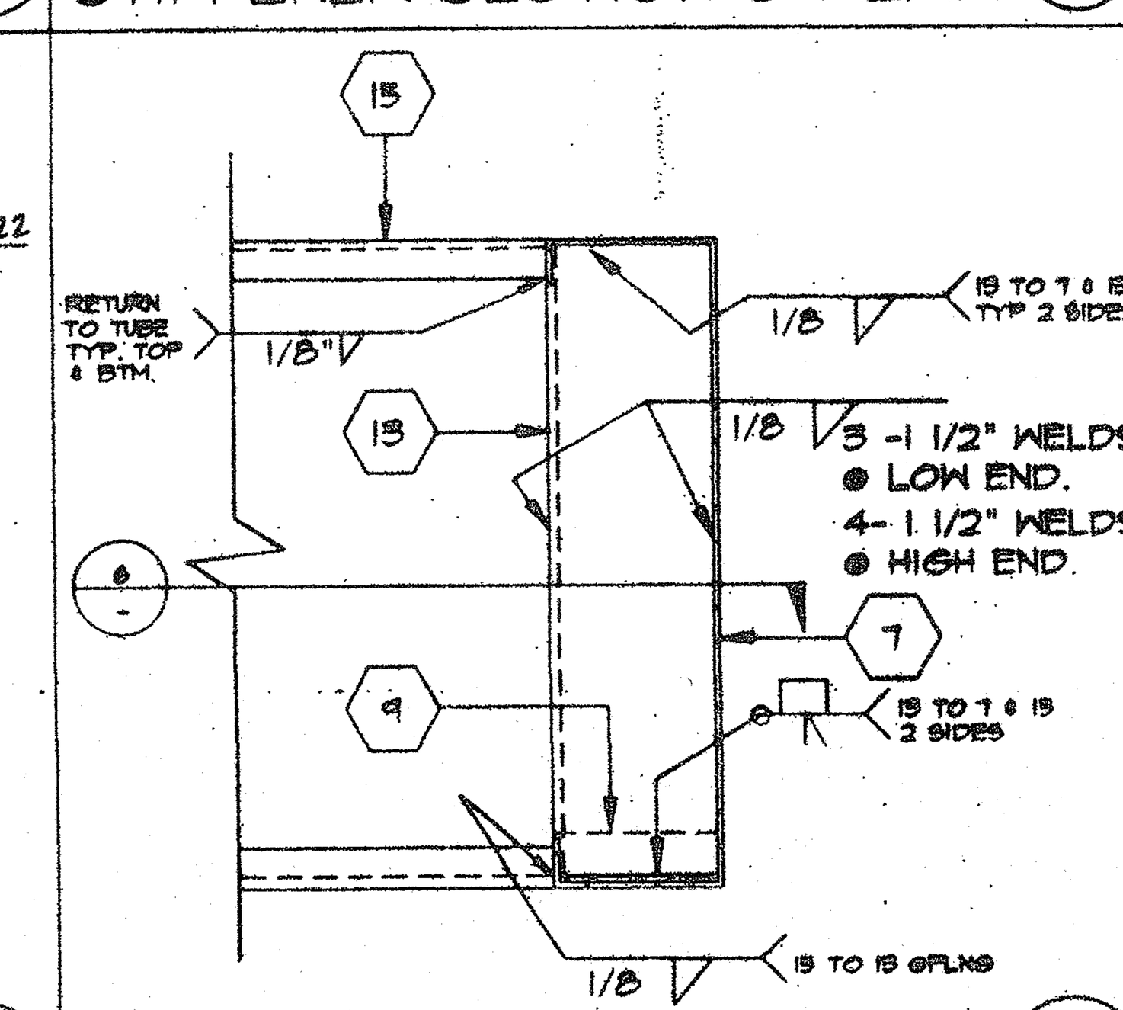
SCALE: 1 1/2" = 1'-0"

OPTIONAL ENCLOSED SOFFIT SECTION/REAR (12)



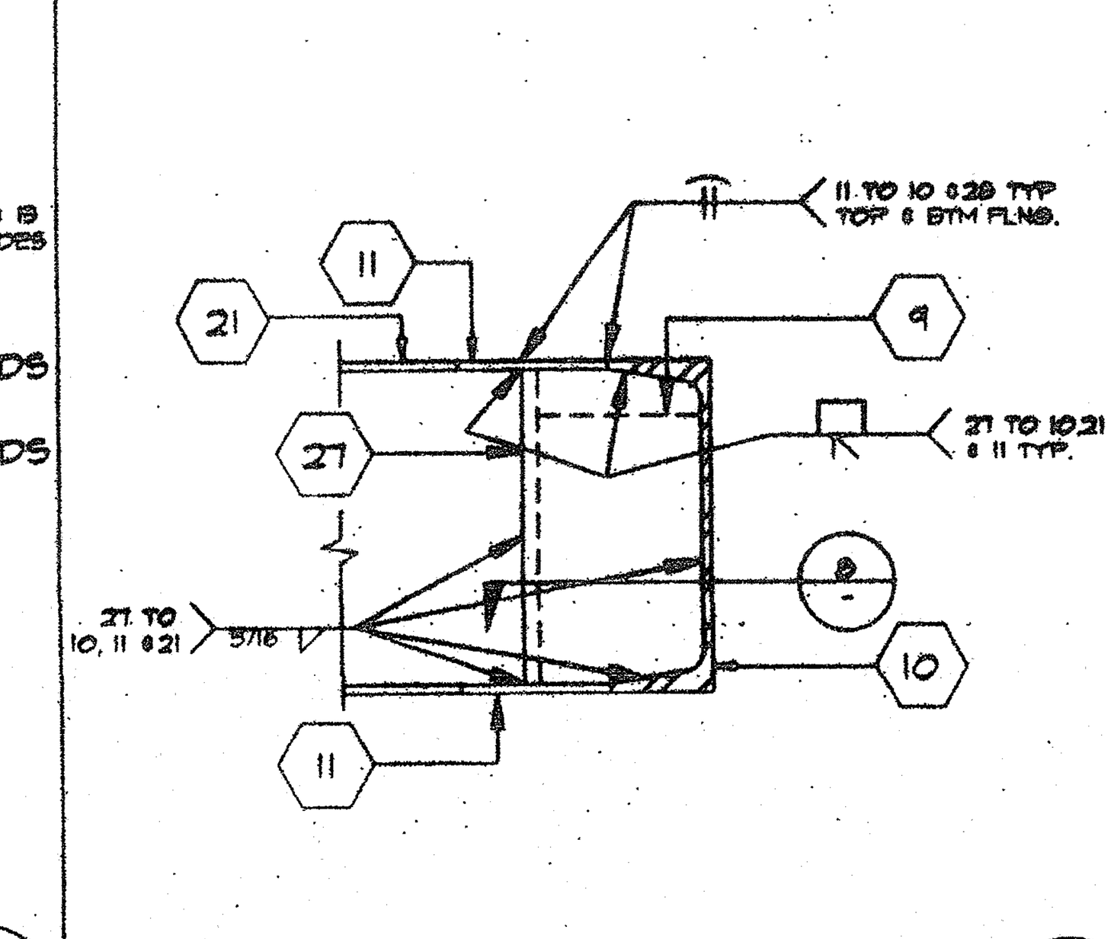
SCALE: 3" = 1'

COLUMN @ FLOOR (9)



SCALE: 3" = 1'

COLUMN CONN. @ REAR (7)



SCALE: 3" = 1'

COLUMN CONN. @ FLOOR (5)

KEY NOTES

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APP03 113058 AC ✓ FLS — SS VC DATE OCT 19 2011

1. EN @ PLYWOOD EDGES
2. PLYWOOD ROOF SHEATHING
3. 6 3/8"X2 1/2"X12GA. FLR. JOIST 6/S3.1
4. 6 X 2 1/2"X 14 GA. ROOF PERLIN 16/S3.1 FOT ALT. ROOF PERLIN SEE 2/S3.1
5. [13 3/8"X3 1/2"X14GA. FASCIA 4/S3.1
6. [8" X 2" X 14 GA. FASCIA 4/S3.1
7. 10 GA. TAPERED ROOF BEAM 13 5/8" TO 24" SEE 12/S3.1 REFER TO RF. FRAMING PLAN
8. 3 1/2"X3 1/2"X1/4" COLUMN
9. BACK-UP PLATE MIN. 10 GA.
10. [7X9.8 FLOOR CHANNEL
11. 3 1/2"X3 1/2"X1/4" STEEL PLATE WELDED FLUSH TO TOP AND BOTTOM OF CHANNEL FLANGES
12. NOT USED
13. SECTION OF 3 1/2"X3 1/2"X1/4" TUBE STEEL COPE TO FIT ROOF BEAM
14. 8" x 3 1/2" x14 GA OVERHANG BEAM
15. [24" X3 1/2" X12 GA.HEADER FRONT(SEE 1/S5.1) [14"X3 1/2"X12GA. HEADER REAR (SEE 1/S5.1)
16. 'Z' STIFFENER @ SOFFIT CLOSURE
17. LOCATION OF HVAC
18. 1/4" FULL DEPTH STIFFNER PLATE AT 8'-0" O.C. U.N.O. ALIGN WITH PURLIN
19. 1/2"X 1 1/2"X 14 GA< TACK WELD IN PLANT
20. SCREENED VENT OPENING (4"X14")
21. [7X9.8 FLOOR HEADER
22. 3" X 3" X 1/4" THK.X 1/2" LONG POST INSERT
23. NOT USED
24. #10 STSMS @ 6" O.C. TYP. @ EN & 12" O.C F.N. (ALT. AEROSMITH AKN 144.0113 DRIVE PIN)
25. NOT USED
26. NOT USED
27. 3 1/2"X3 1/2"X1/4" ANGLE IRON CUT TO FIT FLOOR BEAM
28. SOFFIT PLYWOOD (OPTIONAL)

CLLS.033 4012-074

REVISIONS	ELECTRICAL	MECHANICAL	STRUCTURAL	ARCHITECT	DIVISION OF THE STATE ARCHITECT
△ △ △ △ △ △			LICENSE EXPIRES 6-30-1998		IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES APP. 02533

MODTECH INC.

MODTECH INC.
2830 BARRETT AVE.
PERRIS, CA. 92572
PH. (909) 943-4014
FX. (909) 940-0427

JOB NO. # 2510 #2514 #2515

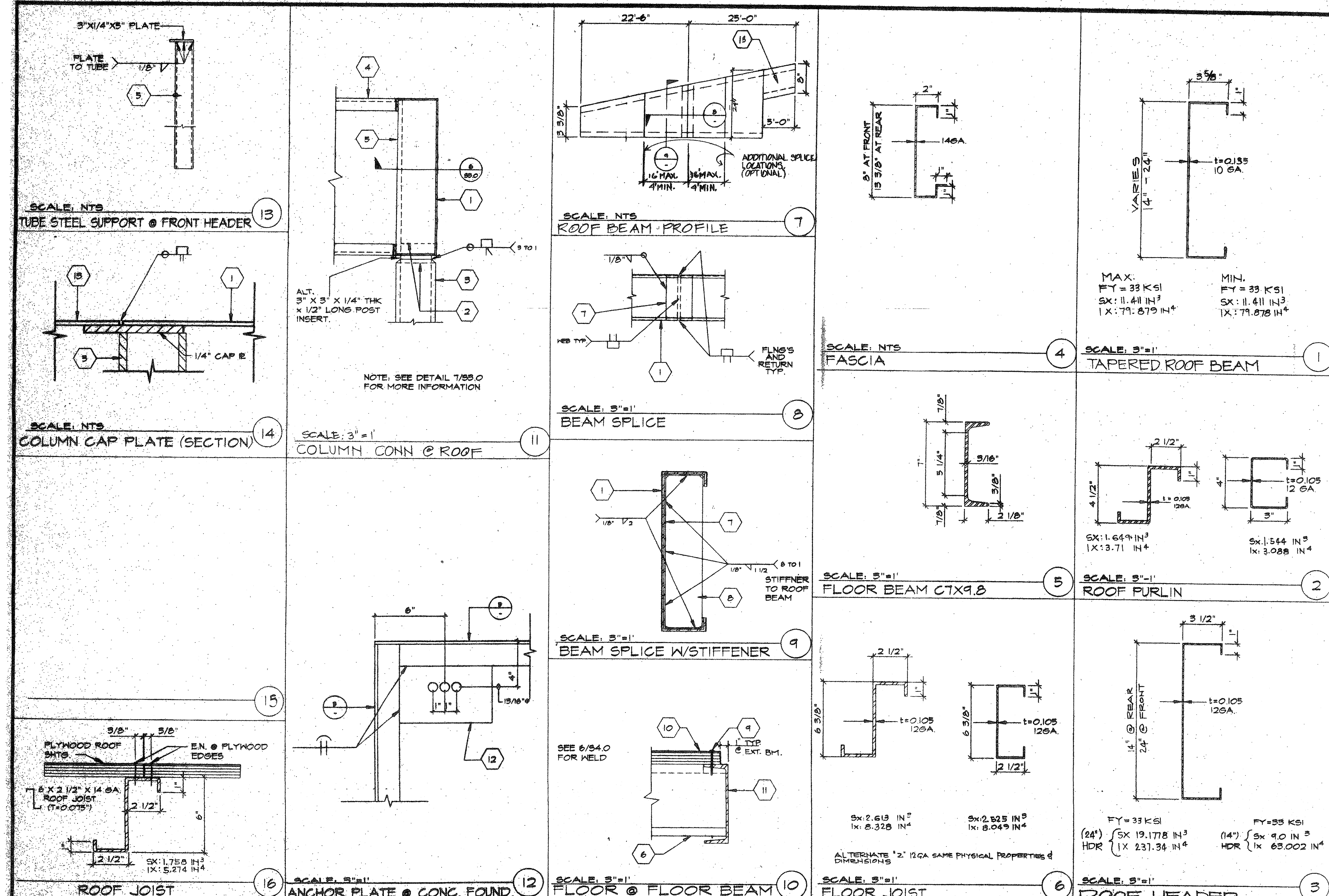
IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APP03 119149 AC ✓ FLS — SS A DATE JAN 7 2019

(MONO SLOPE)

STRUCTURAL ELEVATIONS AND DETAILS

DRAWN BY dt. DATE 2/3/98 CHECKED BY DATE

SA3.0



KEY NOTES

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP03 113058
AC ✓ FLS ✓ SS VC
DATE OCT 19 2011

1. [10 GA. TAPERED ROOF BEAM SEE DET 7 33 KSI MATERIAL
2. BACK-UP PLATE MIN. 10 GA.
3. 3 1/2"X3 1/2"X1/4" COLUMN
4. [12 GA.X 24" HEADER @ FRONT [12GA.X 14" HEADER @ REAR
5. SECTION OF 3 1/2"X3 1/2"X1/4" TUBE STEEL COPE TO FIT ROOF BEAM
6. 6 3/8"X2 1/2"X12GA. FLOOR JOIST
7. 10GA. BENT PLATE BACK-UP
8. 1/4" STIFFENER PL
9. #10 S.T.S.M.S @ 6" O.C. (SEE S1.0)
10. PLYWOOD FLOOR SHEATHING
11. FLOOR BEAM SEE DETAIL 5
12. 5"X8"X1/4" PL
13. ROOF OVERHANG BEAM 8"x3 1/2 x 14 GA.

REVISED
CLLS.033
SEP 21 1996 4012-074

REVISIONS	ELECTRICAL	MECHANICAL	STRUCTURAL	ARCHITECT	DIVISION OF THE STATE ARCHITECT
			LICENSE EXPIRES 6-30-1998	STATE OF CALIFORNIA	IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES APPL 67333 DATE MAR 11 1997

MODTECH INC.
2830 BARRETT AVE.
PERRIS, CA. 92572
PH. (909) 943-4014
FX. (909) 940-0427

JOB NO: # 2510 #2514 #2515

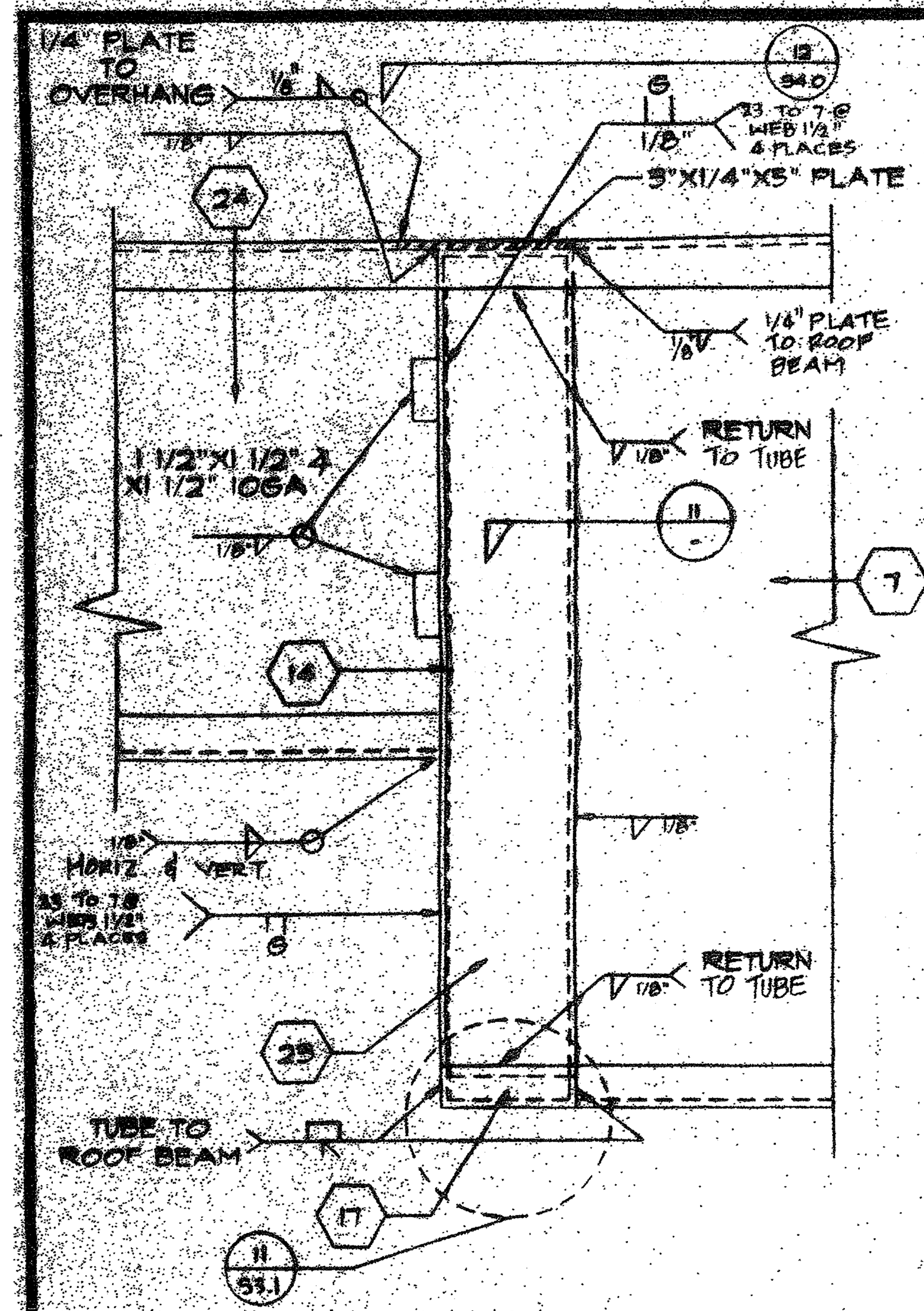
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP03 119149
AC ✓ FLS ✓ SS
DATE JAN 7 2019

(MONO SLOPE)

DRAWN BY dt
DATE 2-7-96
CHECKED BY
DATE

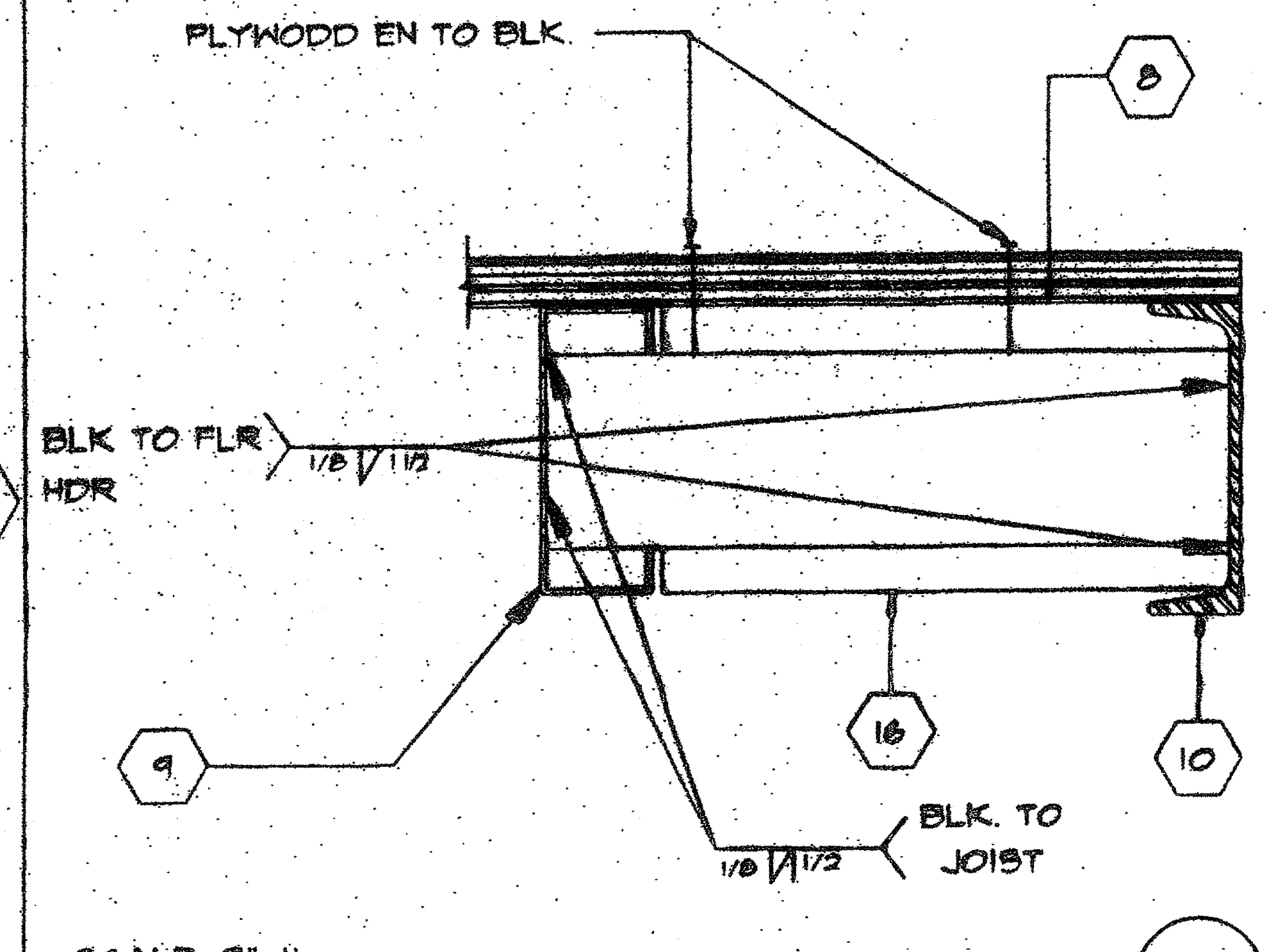
FRAMINGELEVATIONS AND DETAILS

SA3.1



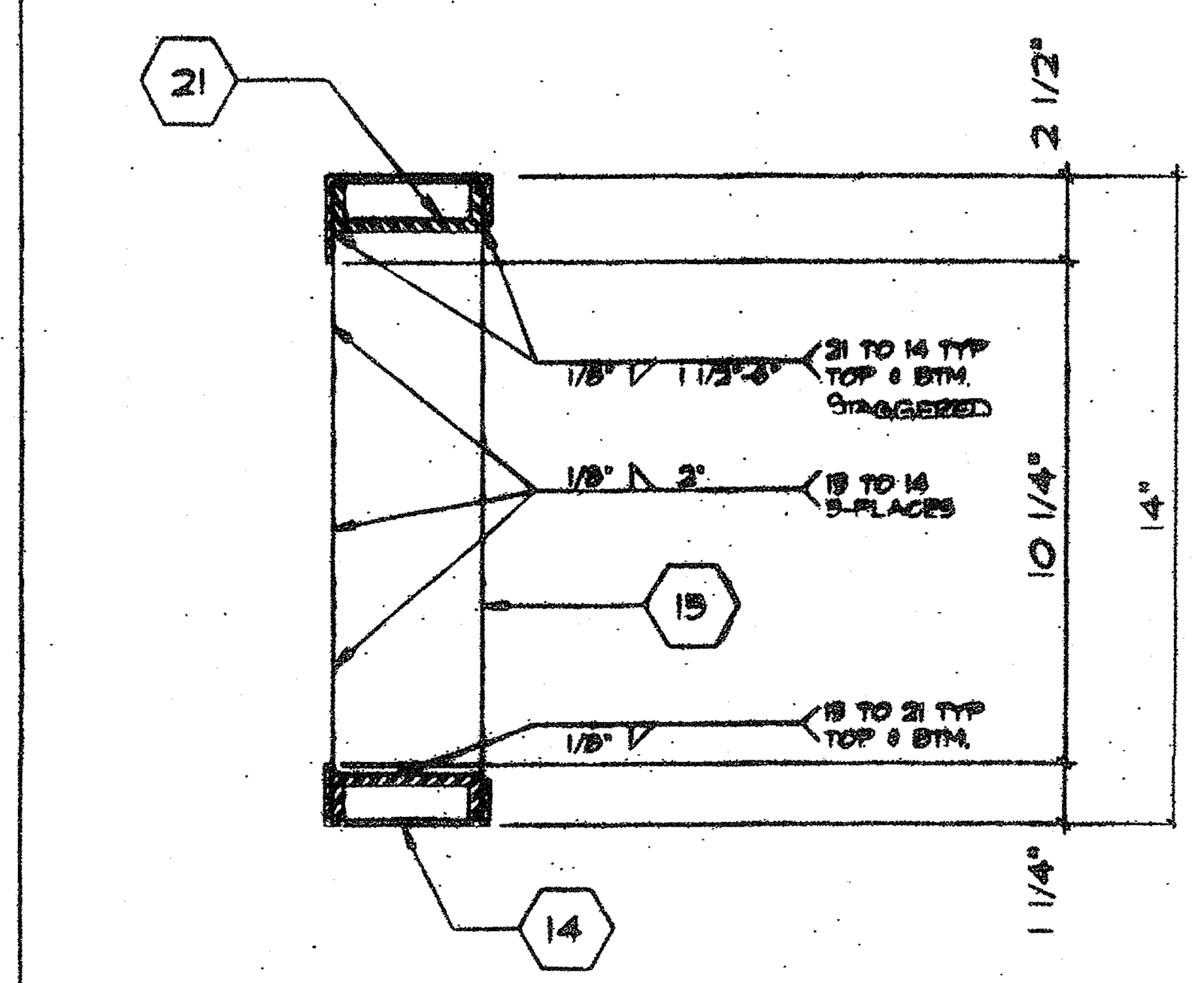
SCALE: 3"=1'

ROOF HEADER @ FRONT OVERHANG (10)



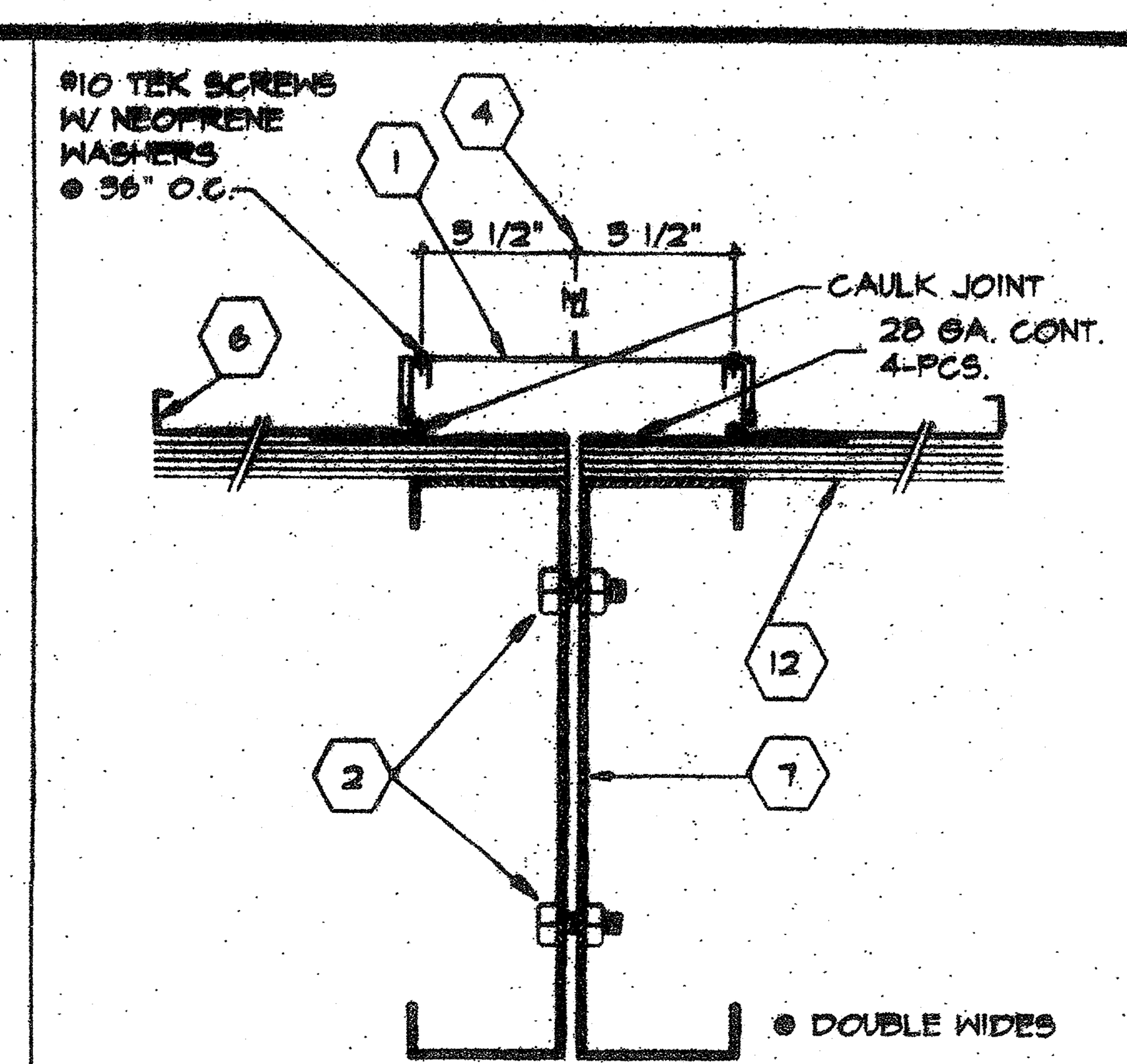
SCALE: 3"=1'

BLOCK @ MIDSPAN (7)



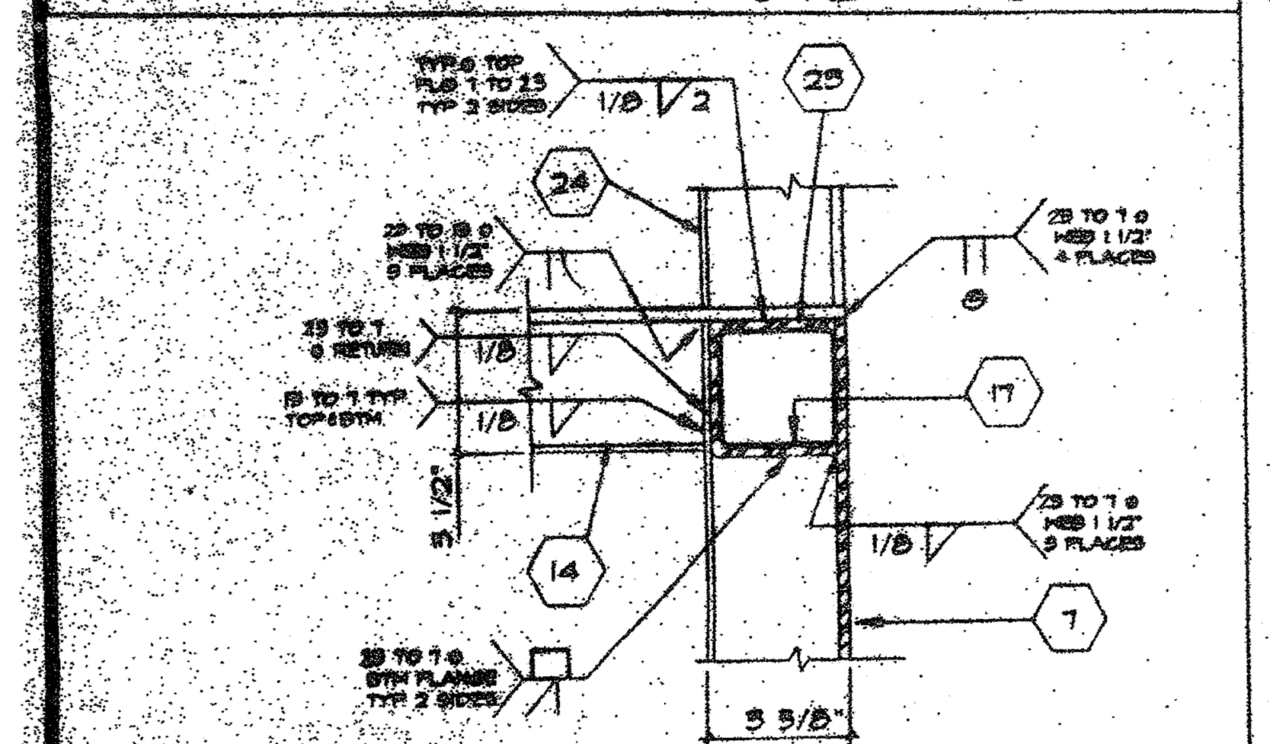
SCALE: 3"=1'

MECH. DUCT OPENING IN HEADER (4)



SCALE: 3"=1'

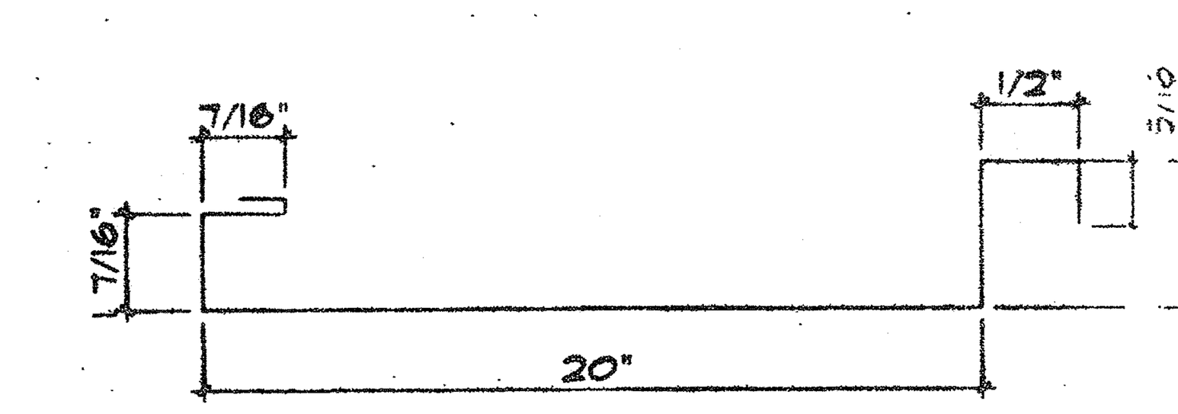
ROOFING @ MODLINE (1)



SCALE: NTS

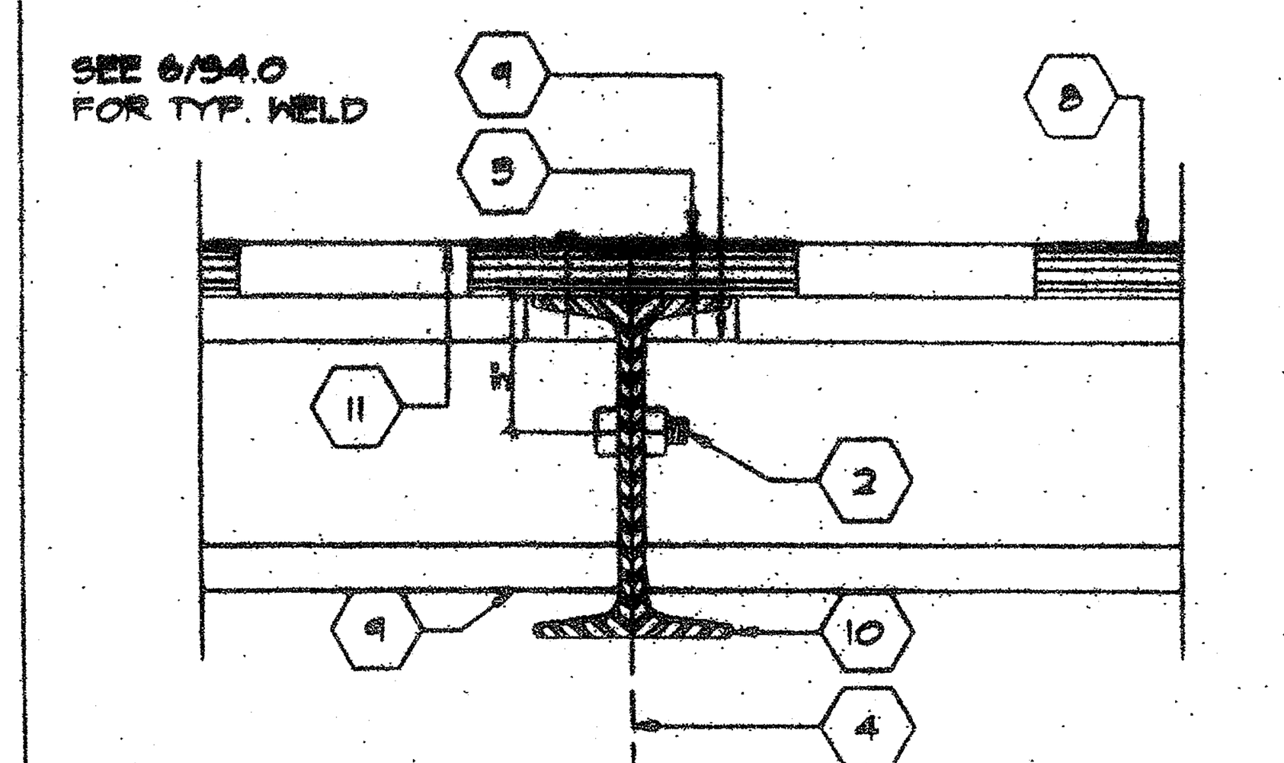
STIFFENER SECTION @ FRONT (11)

(8)



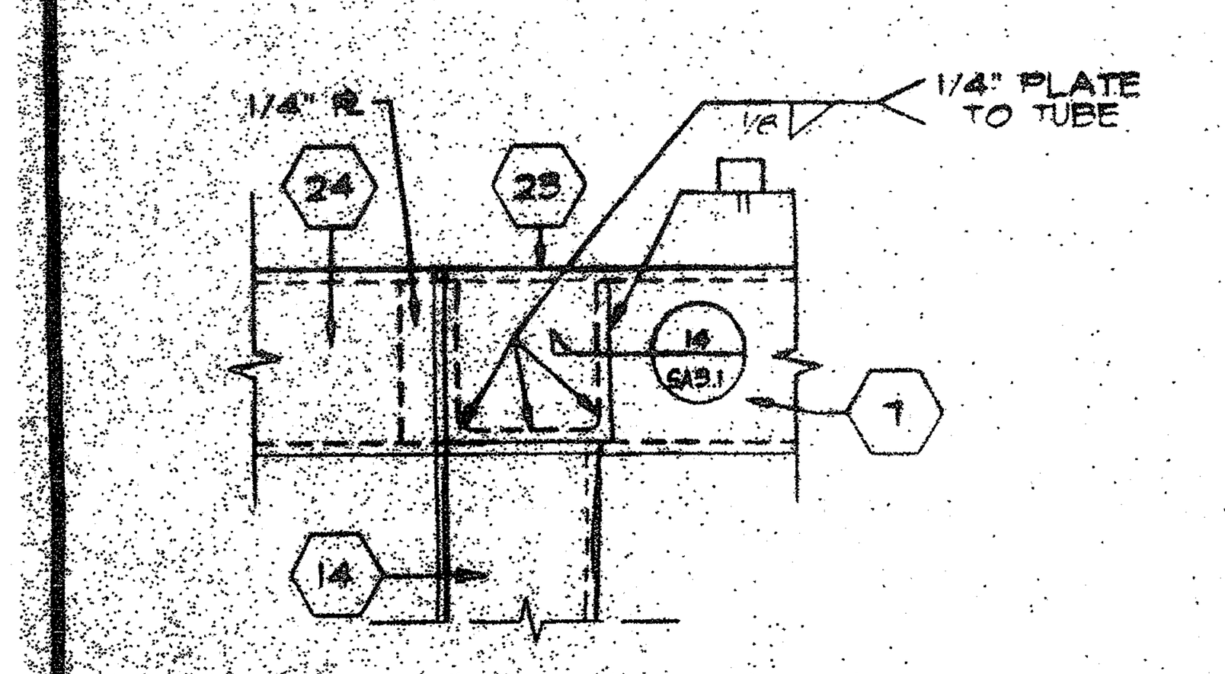
SCALE: NTS

ROOF PAN (26GA.) (5)



SCALE: 3"=1'

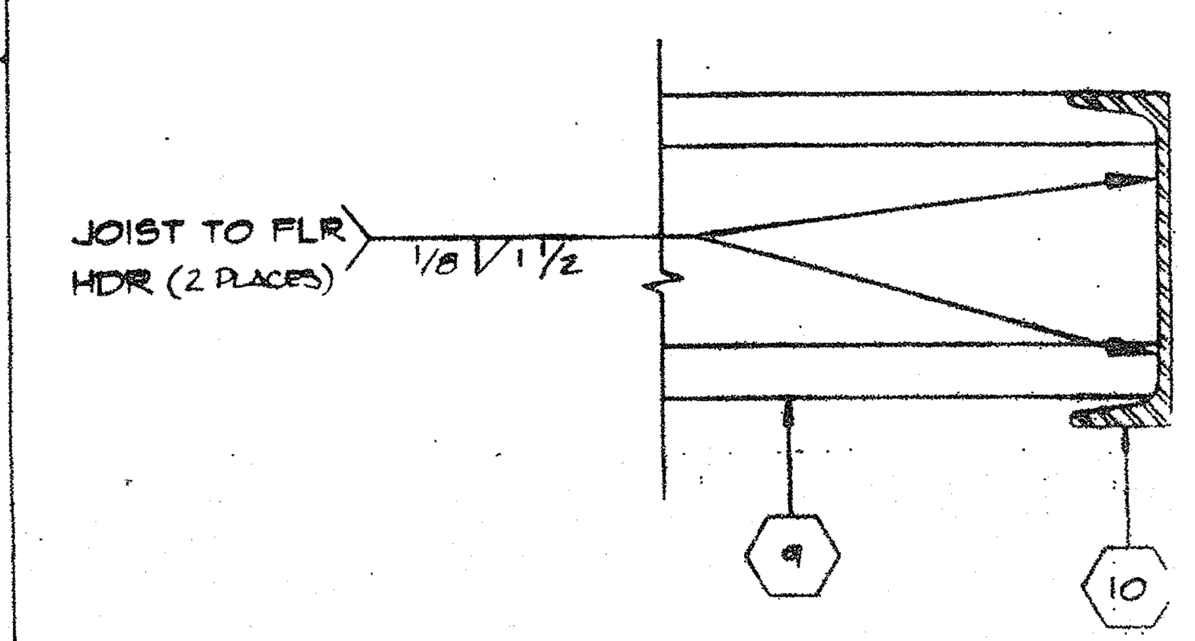
MODULE JOINT @ FLR. (2)



SCALE: 3"=1'

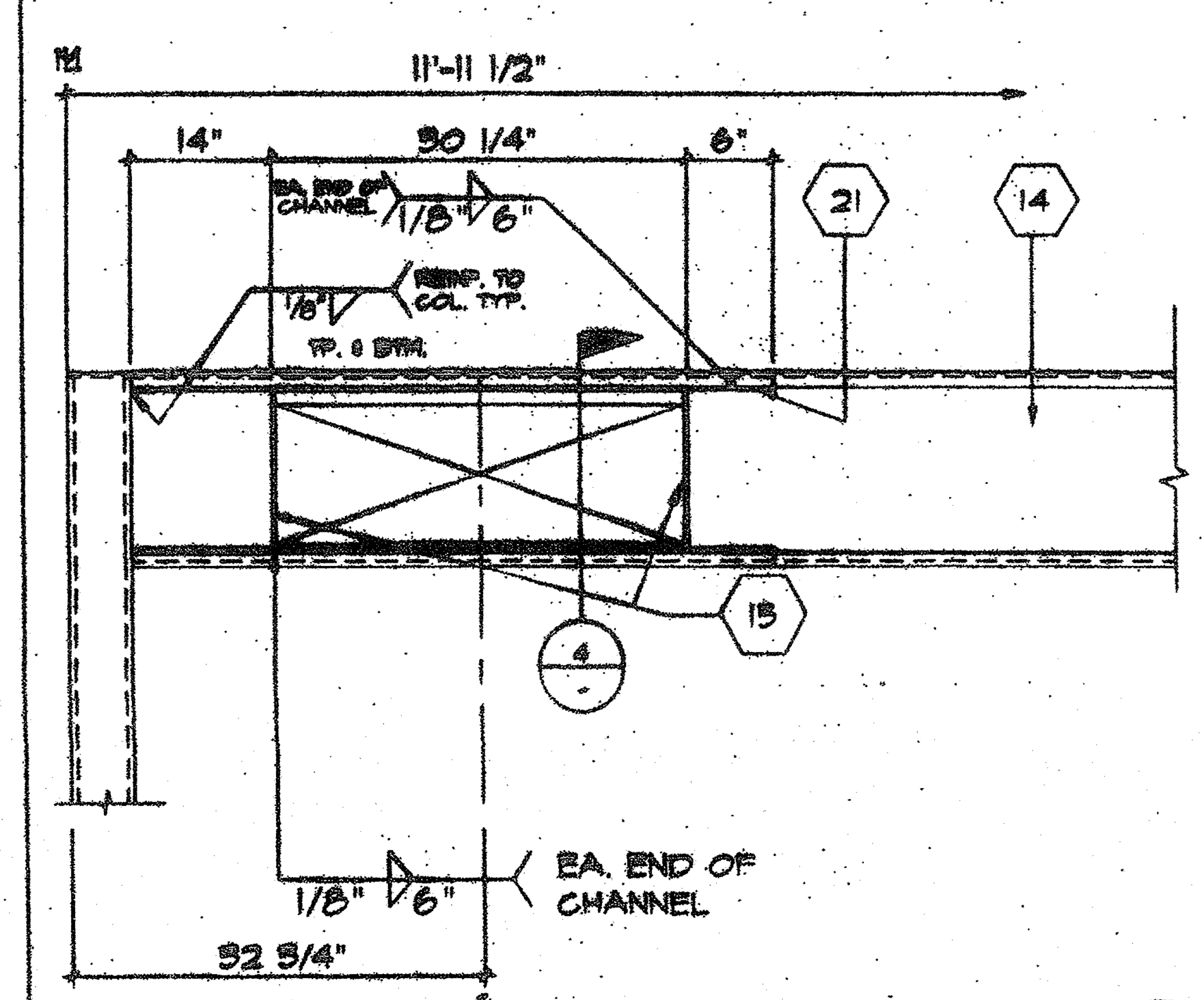
COLUMN CAP PLATE (12)

(9)



SCALE: 3"=1'

FLOOR FRAME/JOIST TO BEAM (6)



SCALE: 1"=1'

ELEVATION-OPENING (3)

KEY NOTES

1. CAP CLOSURE @ RIDGE 26GA. GALV. W/#10 TYPE FASTENERS W/NEOPRENE WASHERS TO RIB BOTH SIDES OF MODLINE. SET CAP IN SEALANT SEE DETAIL-
2. 5/8" M.B. A307 MODULE JOINT (SEE STRUCTURAL PLAN FOR LOCATION) @ 8' O.C.
3. E.N.
4. MODULE JOINT
5. 1/4" @ 8' O.C. FULL DEPTH STIFFENER PLATE (SEE 9/S3.1)
6. STANDING ROOF SEAM (SEE A2.0)
7. ROOF BEAM (SEE STRUCTURAL) SEE 5/S3.1 & 12/S3.1
8. PLYWOOD FLOOR SHEATHING
9. FLOOR JOIST 6/S3.1
10. FLOOR BEAM (SEE STRUCTURAL 5/S3.1)
11. HAND HOLE @ BOLT LOCATION
12. PLYWOOD ROOF SHEATHING
13. NOT USED
14. ROOF HEADER (SEE STRUCTURAL 1/S3.1)
15. 1/4" STIFFENER PLATE SEE @ S3.1 FOR TYP. WELD
16. "C" BLOCKING SEE 6/S3.1
17. 10GA. BACK-UP PL
18. NOT USED
19. NOT USED
20. NOT USED
21. 3 1/4"X1"X30 1/4" LX10GA. CHANNEL TOP & BOTTOM CENTER OF OPENING
22. NOT USED
23. TUBE STEEL (SEE 11/S3.1) STIFFENER COPE TO FIT ROOF BEAM.
24. ROOF BEAM AT OVERHANG SEE 4/S3.1

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT
APP03 113058
AC ✓ FLS – SS VC
DATE OCT 19 2011

C.L.L.S.034 4012-074

REVISIONS	ELECTRICAL	MECHANICAL	STRUCTURAL	ARCHITECT	DIVISION OF THE STATE ARCHITECT
△			LICENSE EXPIRES 9-30-1999		IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES APPL 62533

MODTECH INC.
2830 BARRETT AVE.
PERRIS, CA. 92572
PH. (909) 943-4014
FX. (909) 940-0427

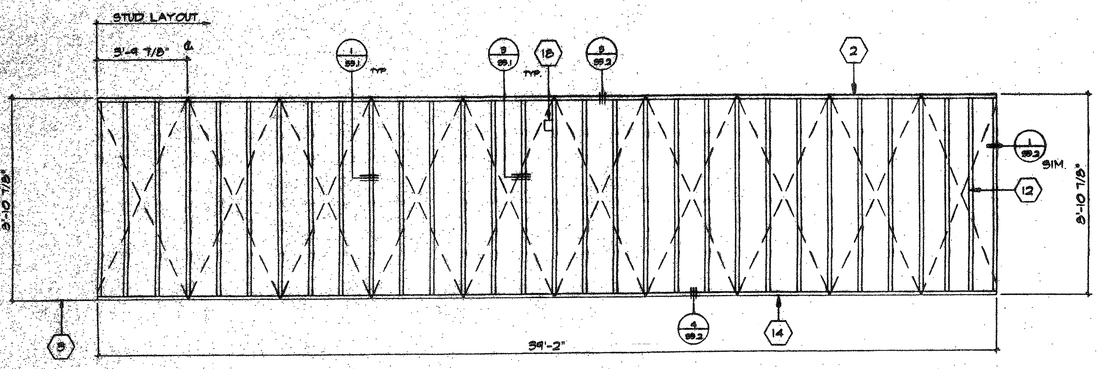
JOB NO. # 2510 #2514 #2515

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT
APP03 119149
AC ✓ FLS – SS
DATE JAN 7 2010

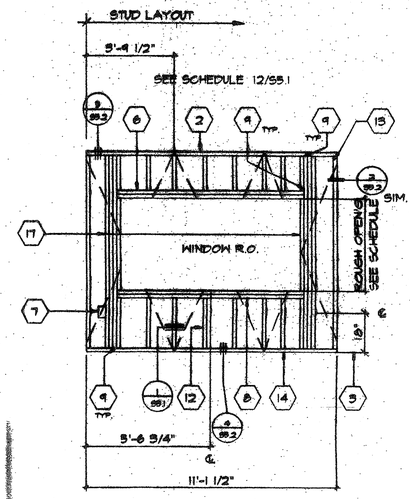
STRUCTURAL DETAILS

DRAWN BY dt.
DATE 2\2\96
CHECKED BY
DATE

S4.0



A
A1 OPPOSITE HAND



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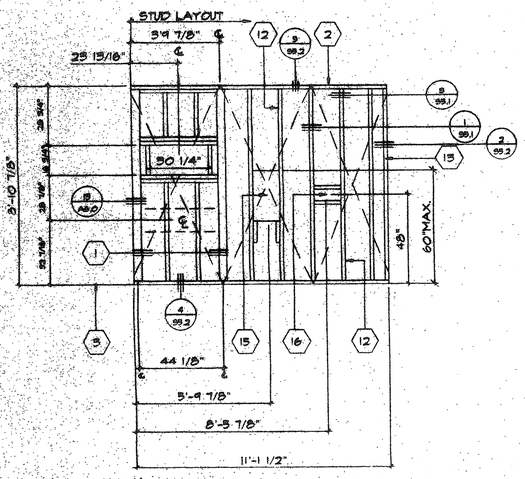
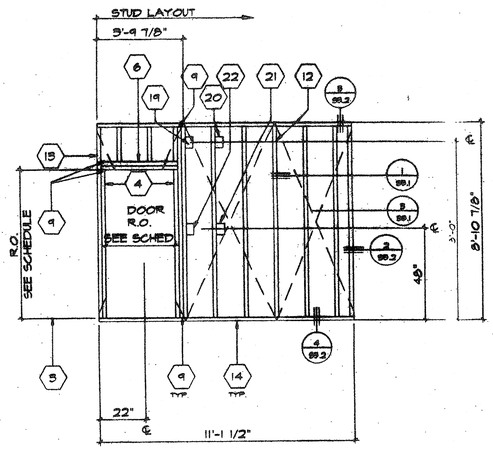
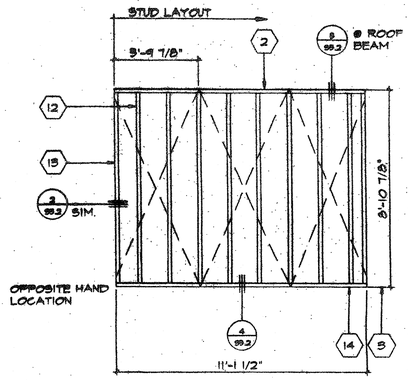


C
C1 OPPOSITE HAND



D
D1 OPPOSITE HAND



E

SCALE 3/8"=1'

KEY NOTES

1. 4 X 4 POST
2. 2X4 TOP PLATE
3. FINISH FLOOR
4. 2X4 FULL HGT. KING STUDS AND 2X4 TRIMMER (SEE SCHEDULE FOR QUANITY SHT S5.1)
5. NOT USED
6. HEADER (SEE SCHEDULE)
7. DUPLEX OUTLET BOX
8. WINDOW SILL PLATE (SEE SCHEDULE)
9. A 34 CLIPS @ HEADER & SILL TO FULL HGT STUDS AND FULL HGT. STUDS TO TOP AND BOTTOM PLATES
10. REQUIRED OPENING FOR A 3068 DOOR (SEE DETAIL 7/S5.1)
11. REQUIRED OPENING FOR A 8040 WINDOW (SEE DETAIL 6/S5
12. 2X4 STUD @ 16" O.C. TYPICAL
13. 2X4 NAILER TYPICAL @ EACH END
14. 2X4 SILL PLATE
15. FRAME FOR ELECTRICAL PANEL
16. THERMOSTAT LOCATION 4S BOX
17. FULL HGT. STUDS AND 1-2X4 TRIMMER (SEE WINDOW SECHEDULE FOR JAMB STUDS REQUIRED SHT. S5.1)
18. CLOCK OUTLET +8'-1 AFF
19. "J" BOX FOR EXTERIOR LIGHT FIXTURE (TO EXTERIOR)
20. FIRE HORN (TO EXTERIOR)
21. FIRE PULL STATION (TO INTERIOR)
22. LIGHT SWITCH BOX

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP03 113058
AC. ✓ FLS — SS VC
DATE OCT 19 2011

CLLS.033 4012-074

REVISIONS	ELECTRICAL	MECHANICAL	STRUCTURAL	ARCHITECT	DIVISION OF THE STATE ARCHITECT
			LICENSED PROFESSIONAL ENGINEER — LICENSE EXPIRES 6-30-1999	LICENSED ARCHITECT — EXPIRES 2-30-97 — STATE OF CALIFORNIA	IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APPL 67333 AC. FLS SS DATE MAY 1 1 1997

MODTECH INC.

MODTECH INC.
2890 BARRETT AVE.
PERRIS, CA. 92572
PH. (909) 943-4014
FX. (909) 940-0427

JOB NO. # 2510 #2514 #2515

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP03 119149
AC. ✓ FLS ✓ SS ✓
DATE JAN 7 2013

DRAWN BY: RN
DATE
CHECKED BY:
DATE 2/1/98

WALL FRAMING

S5.0

OPENING SCHEDULE

OPENING	HDR.	SILL	JAMB	ROUGH OPENING HEIGHT	ROUGH OPENING WIDTH
3068	(2) 2X4	(2) 2X4	(2) 2X4 *	81 1/4"	38"
8040	(3) 2X4	(2) 2X4	(4) 2X4 *	48 1/8"	96 1/8"

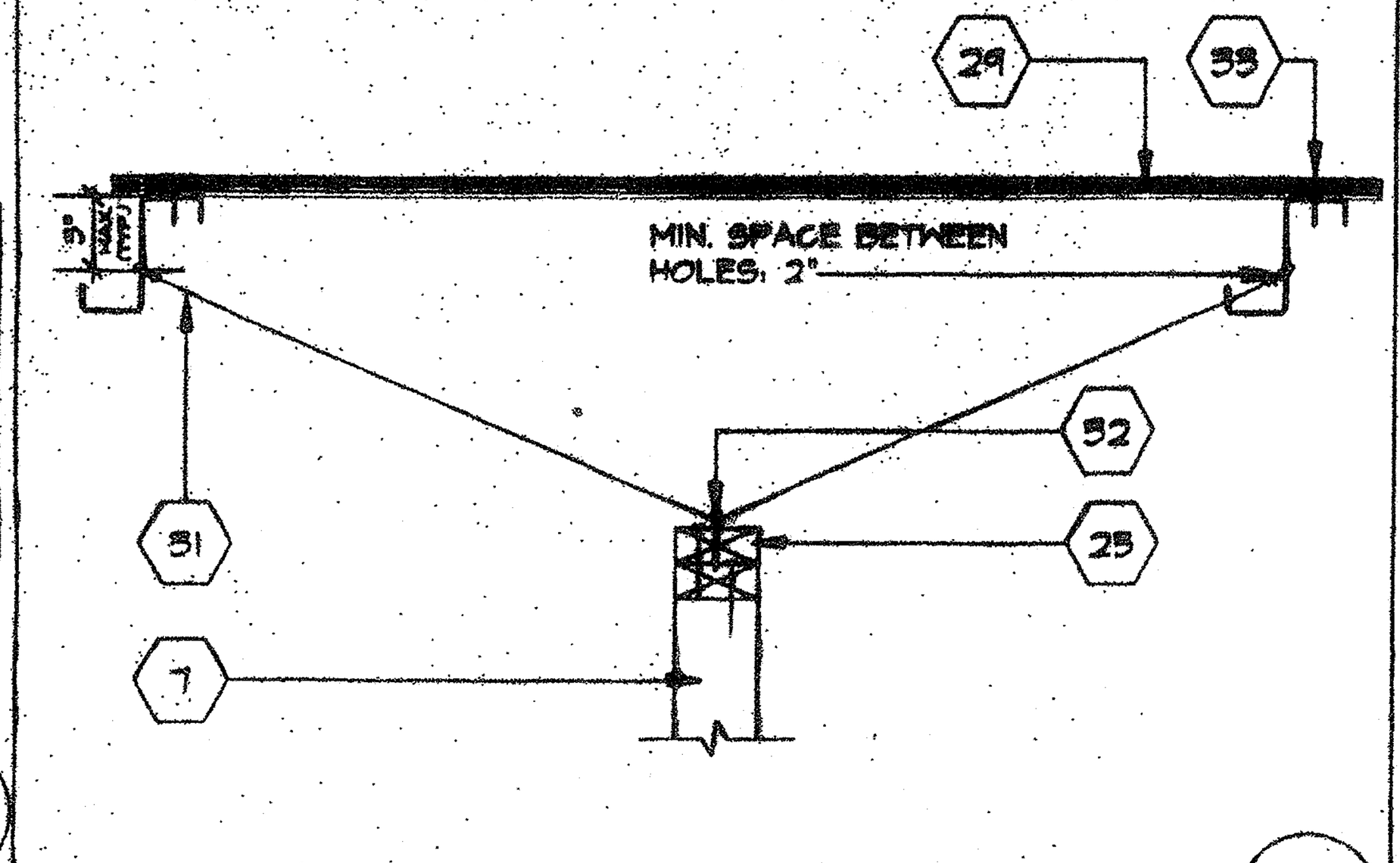
* FULL HT. STUDS.

12

NAILING SCHEDULE

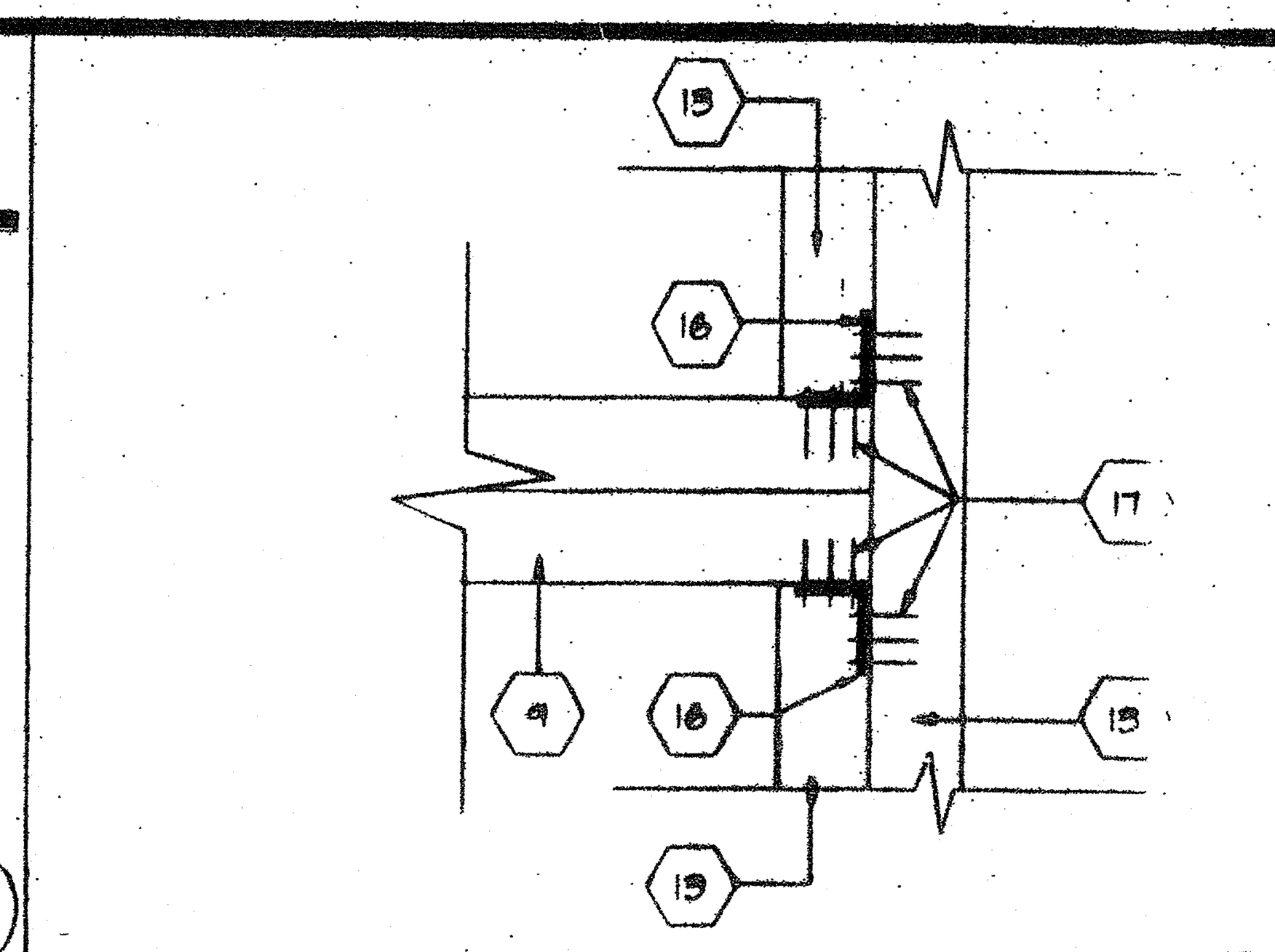
CONNECTION	NAILING
1. Joist to sill or girder, toenail	3-8d
2. Bridging to joist, toenail each end	2-8d
3. 1" x 6" subfloor or less to each joist, face nail	2-8d
4. Wider than 1" x 6" subfloor to each joist, face nail	3-8d
5. 2" subfloor to joist or girder blind and face nail	2-16d
6. Sole plate to joist or blocking, face nail	16d at 16" o.c.
7. Top plate to stud, end nail	2-16d
8. Stud to sole plate	4-8, or toenail 2-16d, endnail
9. Double studs, face nail	16d at 24" o.c.
10. doubled top plates, face nail	16d at 16" o.c.
11. Top plates, laps and intersections, face nail	2-16d
12. Continuous header, two pieces	16d at 16" o.c. along each edge
13. Ceiling joists to plate, toenail	3-8d
14. Continuous header to stud, toenail	4-8d
15. Ceiling joists, laps over partitions, face nail	3-16d
16. Ceiling joists to parallel rafters, face nail	3-16d
17. Rafter to plate, toenail	3-8d
18. 1" brace to each stud and plate, face nail	2-8d
19. 1" x 8" sheathing or less to each bearing, face nail	2-8d
20. Wider than 1" x 8" sheathing to each bearing, face nail	3-8d
21. Built-up corner studs	16d at 24" o.c.
22. Built-up girder and beams	20d at 32" o.c. at top and bottom and staggered 2-20d at end and at each splice
23. 2" planks	2-16d at each bearing
24. Plywood and particleboard: Subfloor, roof and wall sheathing (to framing) 1/2" and less	6d
19/32" - 3/4"	8d or 6d
7/8" - 1"	8d
1 1/8" - 1 1/4"	10d or 8d
Combination Subfloor-underlayment (to framing). 3/4" and less	6d
7/8" - 1"	8d
1 1/8" - 1 1/4"	10d or 8d
25. Panel Siding (to framing). 1/2" or less	6d
5/8"	8d

NOTE: All nail shall be box nails unless otherwise noted.



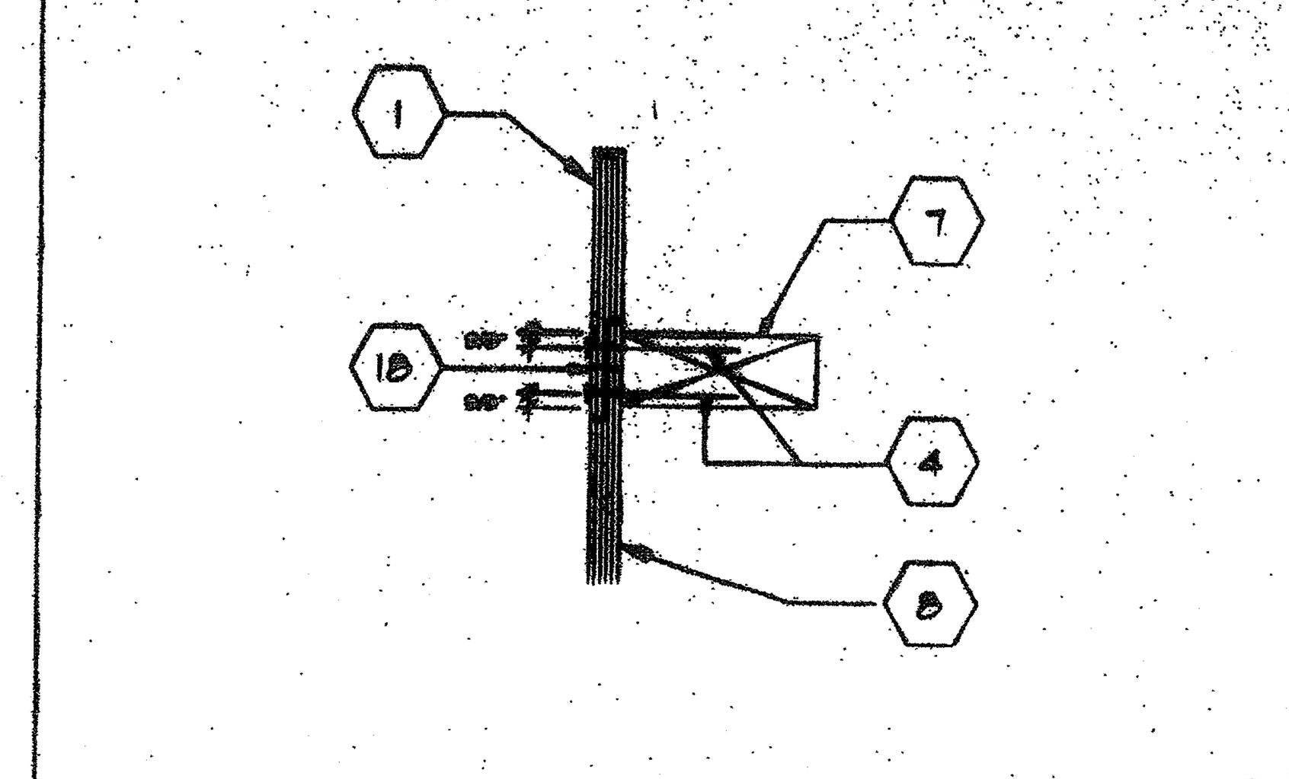
SCALE: 1-1/2"=1'

PARALLEL PARTITION CONN. 8



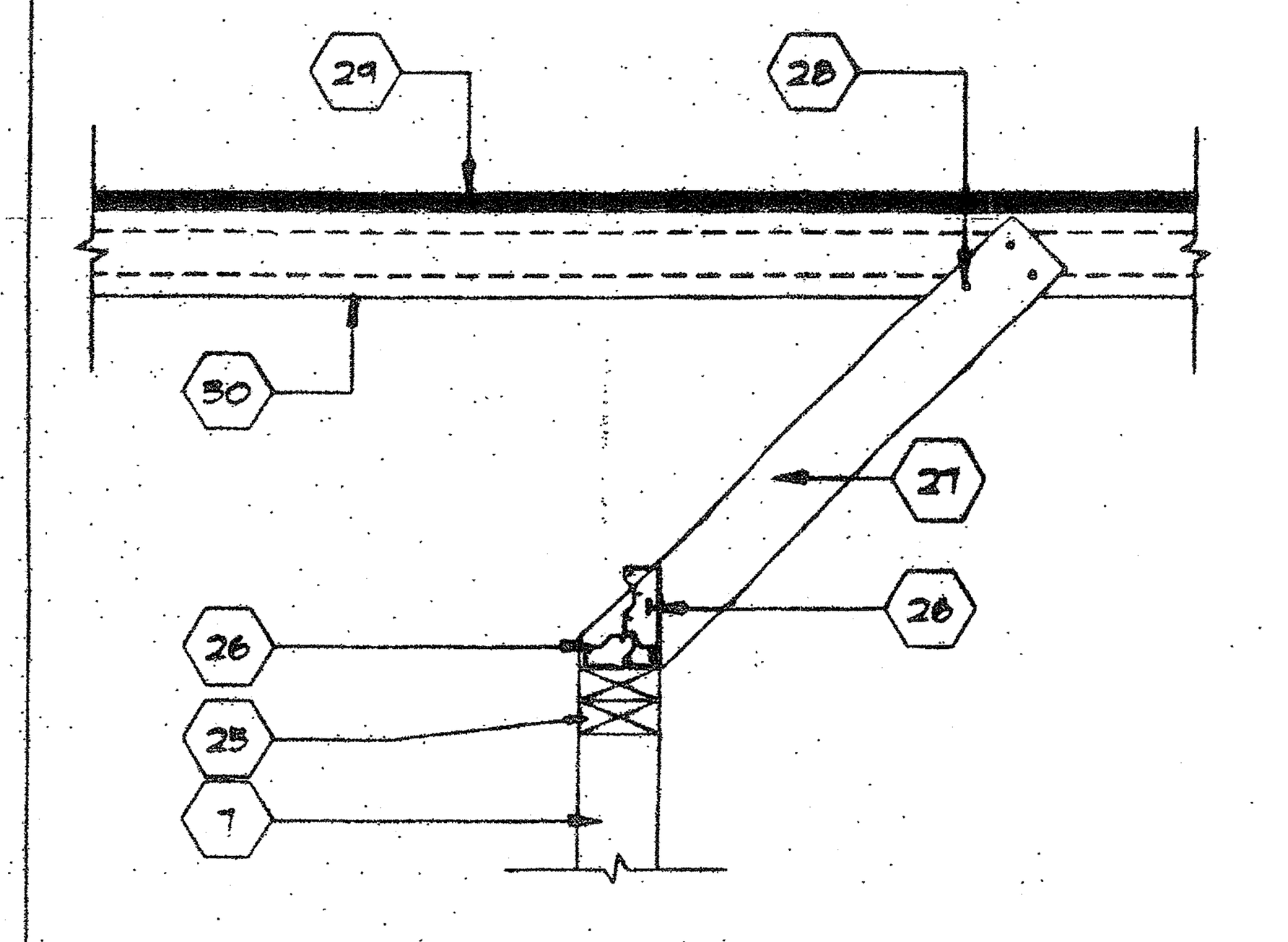
SCALE: 3"=1'

WINDOW SILL @ JAMB 5



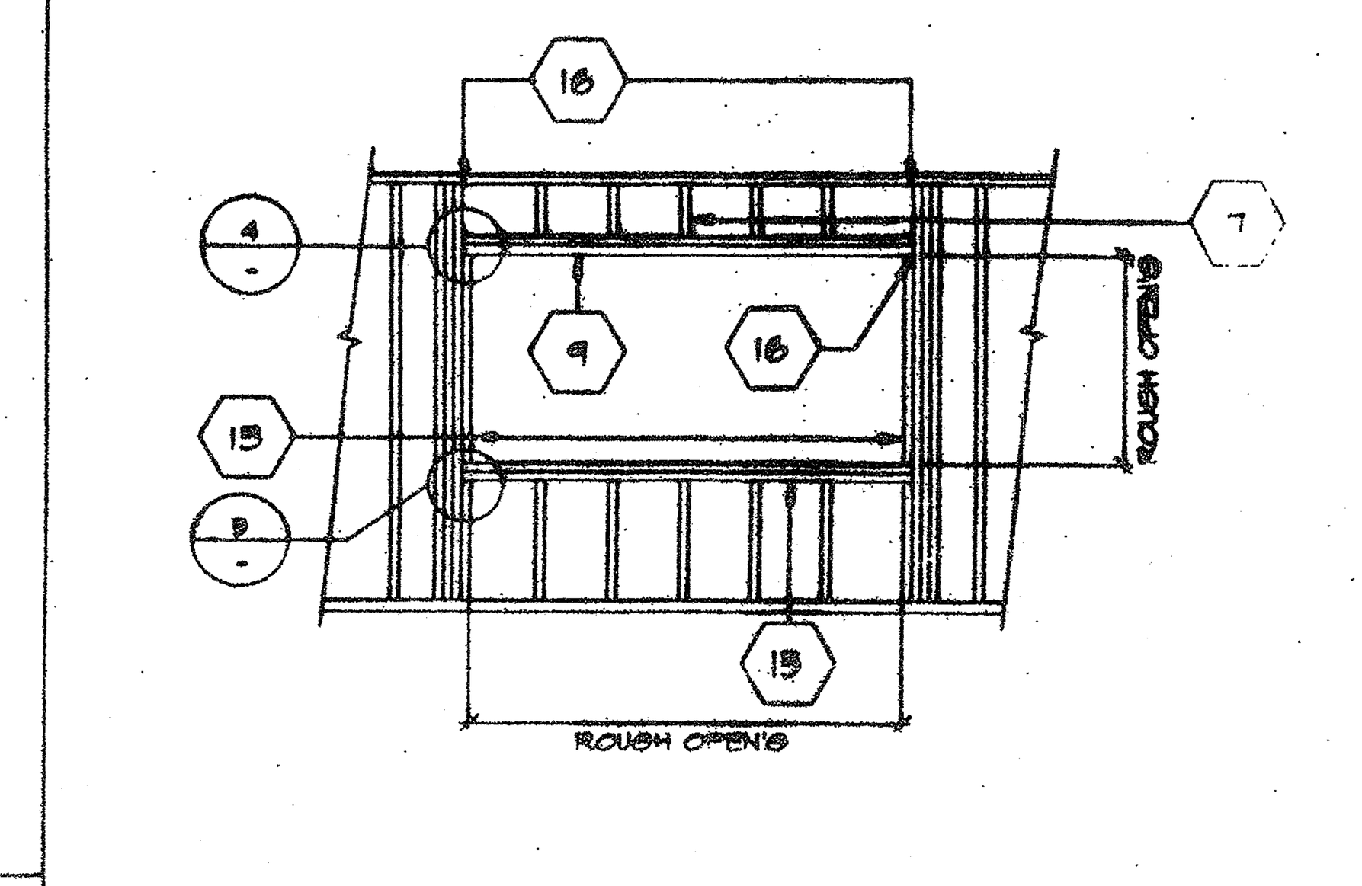
SCALE: 3"=1'

@ VERT. PLYWOOD EDGES 1



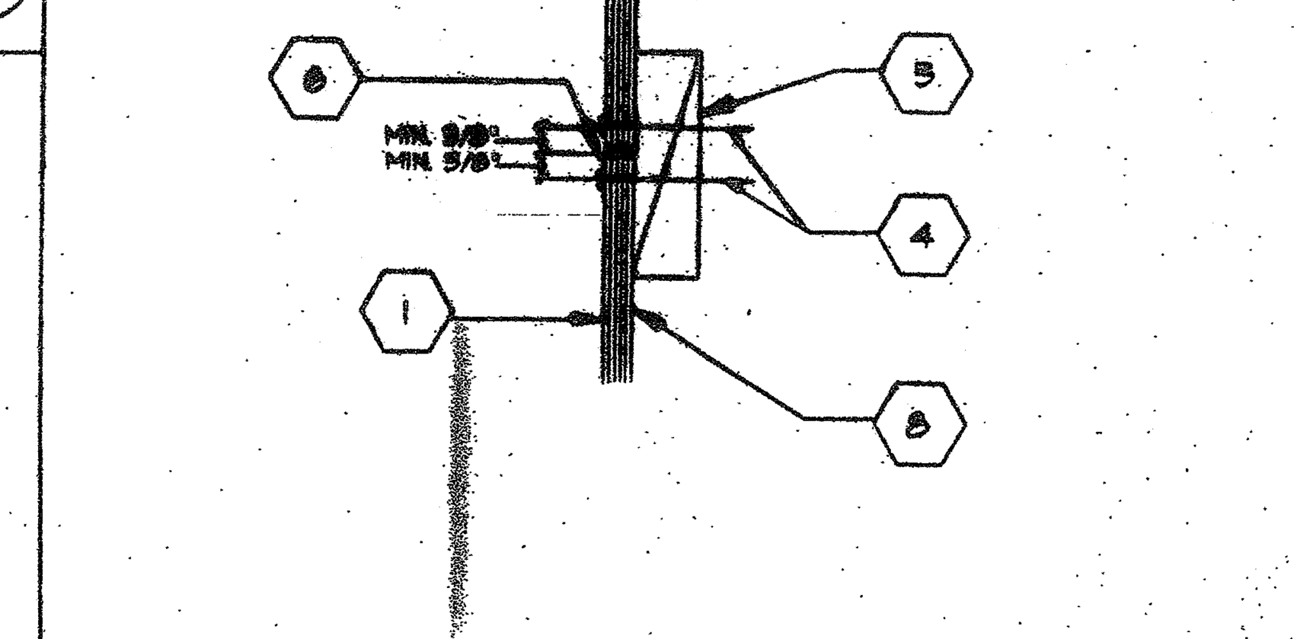
SCALE: 3"=1'

PERPENDICULAR PARTITION CONNECTION 9



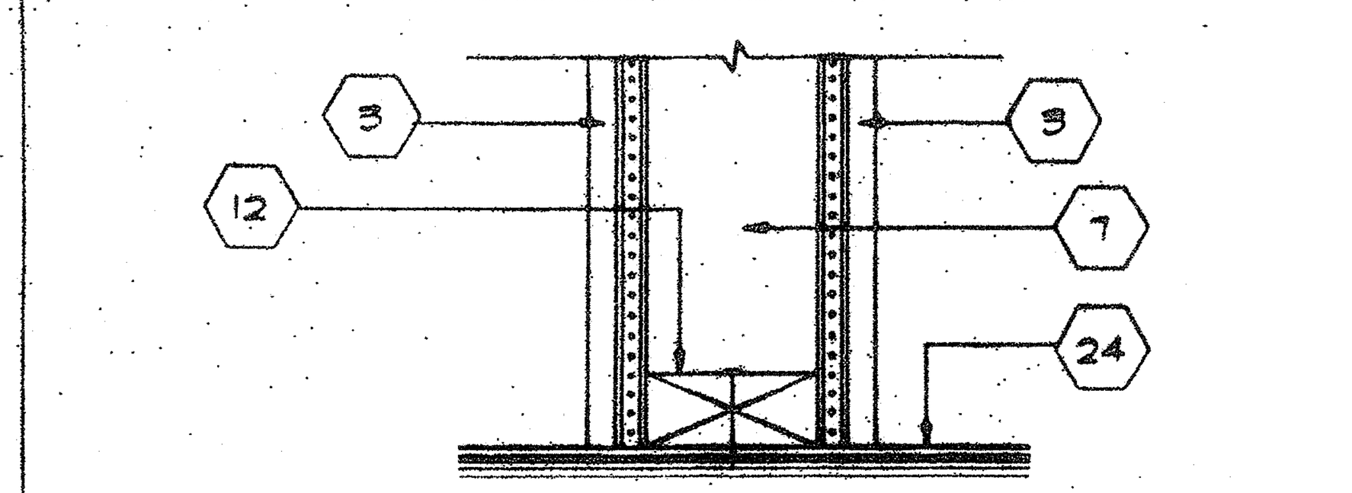
SCALE: 3"=1'

TYPICAL WINDOW FRAMING 6



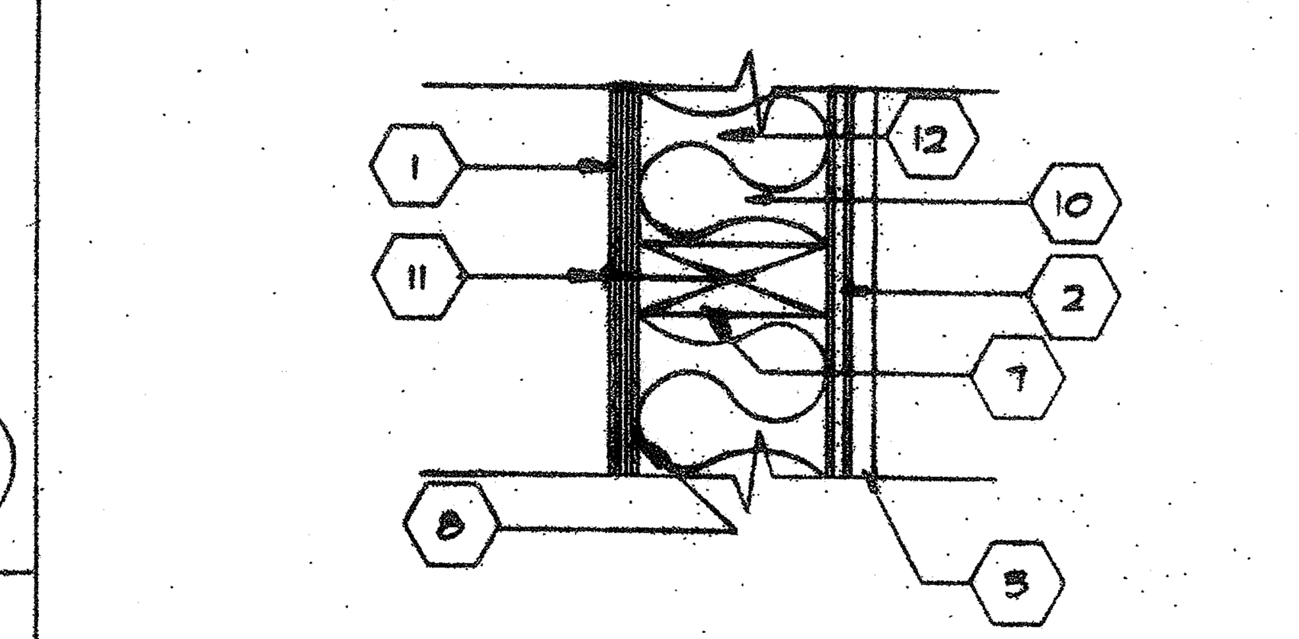
SCALE: 3"=1'

DETAIL @ HORIZ. PLYWOOD JOINTS 2



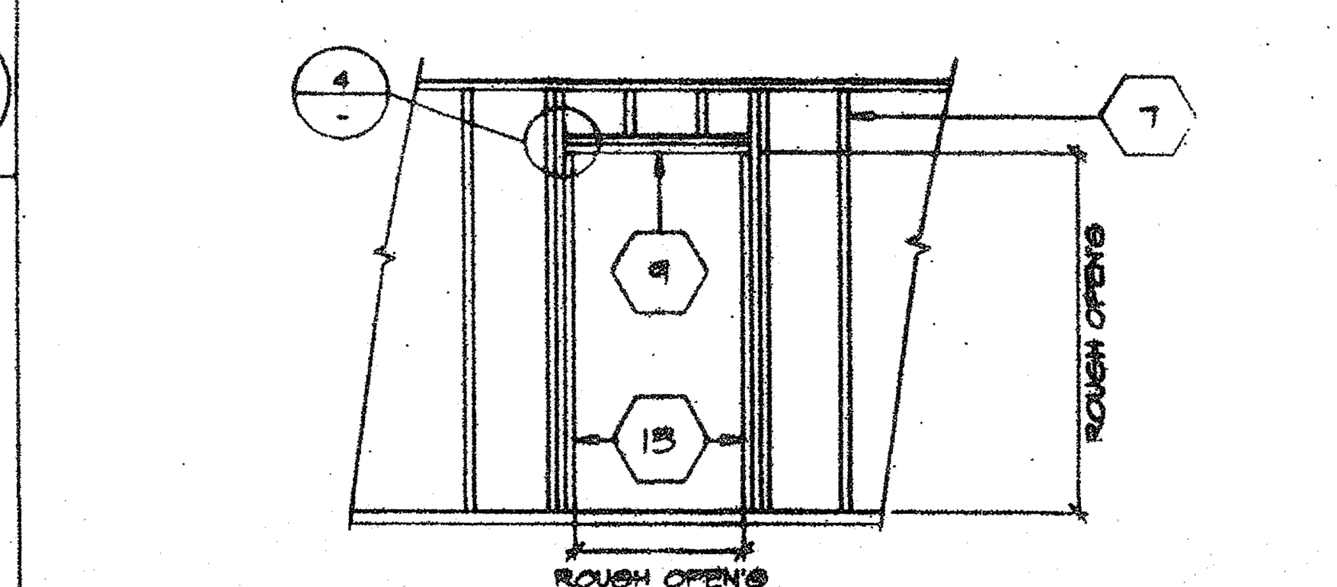
SCALE: 3"=1'

INT. PARTITION CONN. @ FLOOR 10



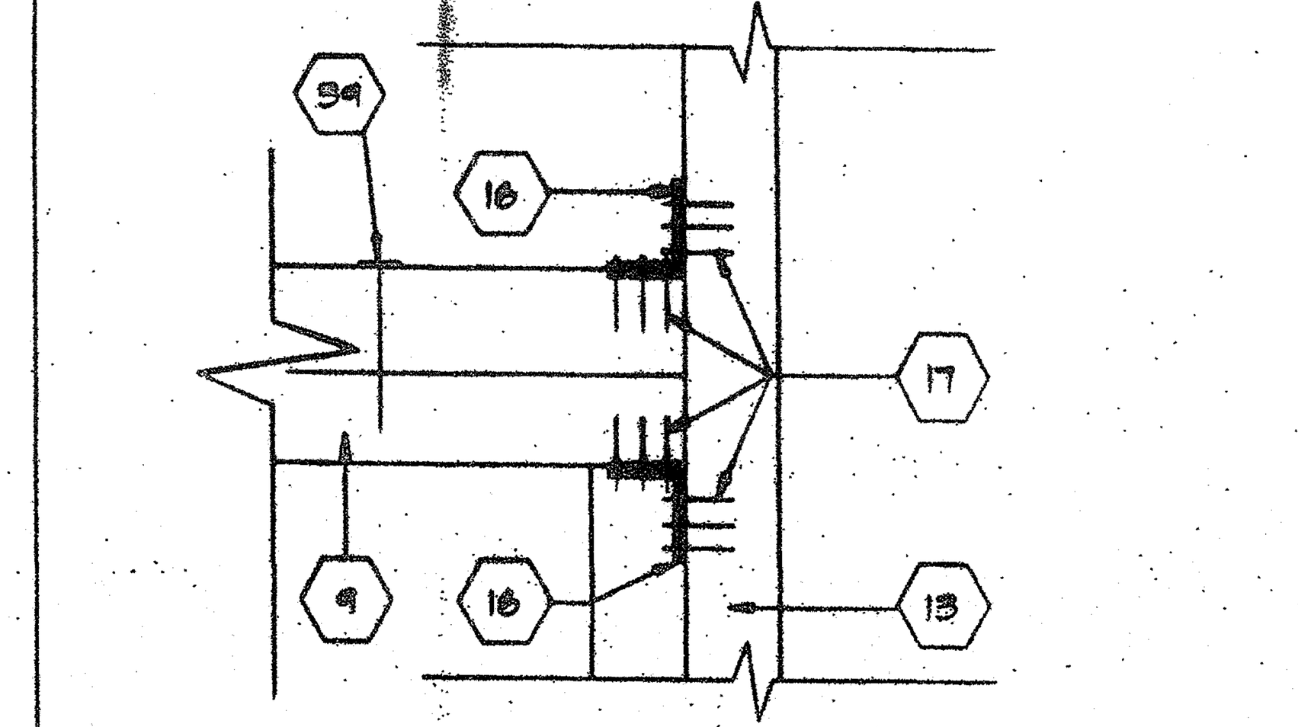
SCALE: 3"=1'

SECTION @ STUD 3



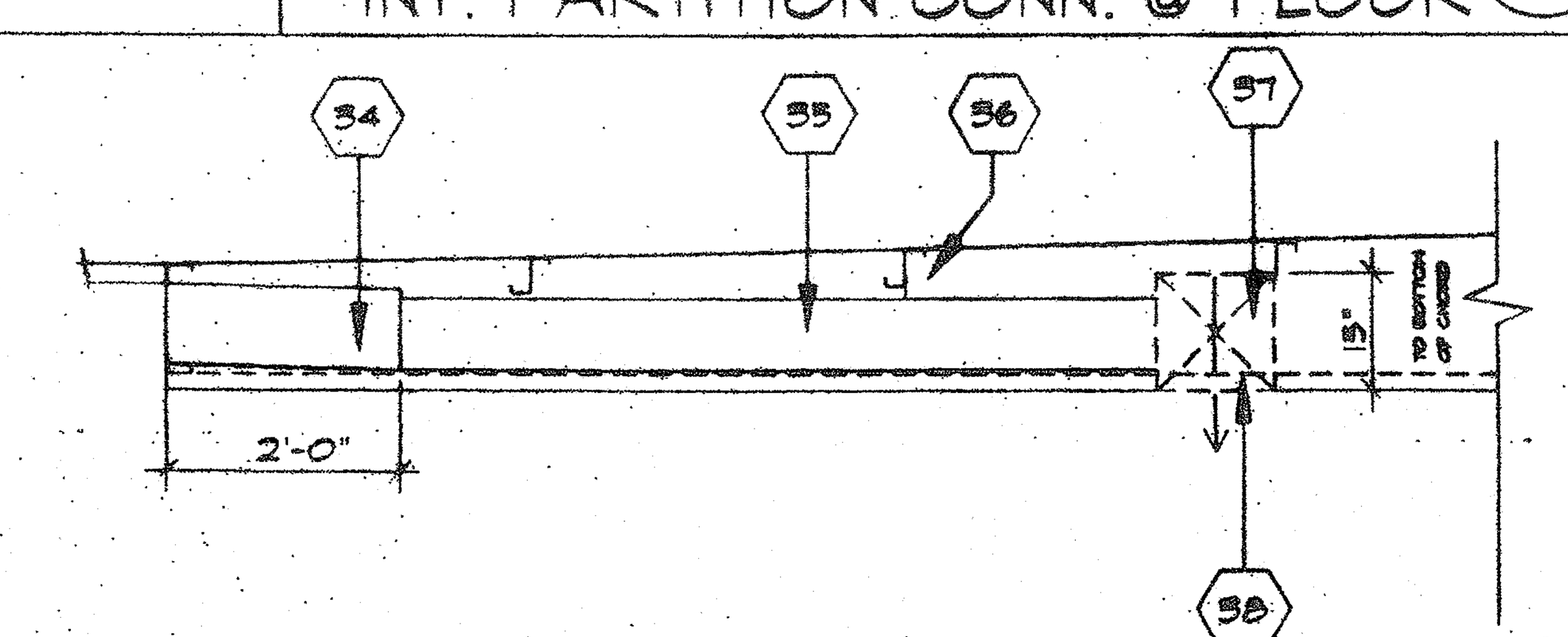
SCALE: 3"=1'

TYPICAL DOOR FRAMING 7



SCALE: 3"=1'

HEADER DETAIL 4



SCALE: 1/2"=1'

SECTION; HVAC IN ROOF 11

KEY NOTES

1. EXTERIOR PLYWOOD SIDING - SHEATHING NAIL W/GALV. BOX NAILS -8d @ 6" O.C. EDGES. 8d @ 12" O.C. IN FIELD
2. GYP. BOARD
3. TYP. INTERIOR FINISH-SEE FINISH SCHEDULE
4. E.N.
5. 2X4 BLK'G
6. "Z" FLASHING
7. 2X4 @ 16" O.C.
8. WATERPROOF MEMBRANE
9. HEADER SEE SCHED. S5.1
10. INSULATION SEE SPECIFICATIONS
11. 8d ELECTRO GALV. 12" O.C.F.N.
12. 2X4 SILL PLATE (BELOW)
13. FULL HEIGHT STUDS AND 1-2X4 TRIMMER (SEE WINDOW SCHEDULE FOR JAMB STUDS REQ'D)
14. 2X4 FULL HEIGHT KING STUDS AND 2X4 TRIMMER (SEE SCHEDULE FOR QUANITY)
15. SILL PLATE (SEE SCHEDULE)
16. A 34 CLIPS @ HEADER AND SILL TO FULL HEIGHT STUDS AND FULL HEIGHT STUDS TO TOP AND BOTTOM PLATES
17. 9GA. 1 1/2" NAILS
18. LAP JOINT
19. 2X4 FLAT FIRE STOP @ CEILING LINE
20. NOT USED
21. NOT USED
22. ATTACH GYP. BD. TO STUDS W/6d COOLERS @ 6" O.C.
23. 2X4 BOTTOM PLATE W/16d @ 16" O.C.
24. PLYWOOD FLOOR
25. 2X4 DBL TOP PLATE
26. SIMPSON A35 W/8d X 2 1/2"
27. 2X4 BRACE @ 8'-0" O.C. MAX. @ MAX 45°
28. #12 X 2 TYPE A HEX HEAD SCREWS (TYP. OF 3)
29. PLYWOOD SHEATHING
30. ROOF PURLIN
31. ATTACH 12GA. BRACE WIRES TO EYE LAG SCREWS AND TO ROOF PURLINS @8'-0" O.C. ENDS TO HAVE 4 TIGHT WRAPS IN 1-1/2"
32. 1/4Ø 2-1/2" EYE LAG SCREW @8'-0" O.C. (2" EMBEDMENT)
33. ATTACH PER ROOF FRAMING PLAN (TYP.)
34. PLEMNUM
35. DUCTWORK (RIGID)
36. ROOF PURLIN
37. TRANSFER BOX
38. ROOF CHANNEL
39. 16D @ 16" O.C.

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DIV. OF THE STATE ARCHITECT
APP03 113058
AC ✓ FLS ✓ SS VC
DATE OCT 19 2011

CLLS.033 4012-074

REVISIONS	ELECTRICAL	MECHANICAL	STRUCTURAL	ARCHITECT	DIVISION OF THE STATE ARCHITECT
△			LICENSE EXPIRES 6-30-1998		IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES APPL 67333 AC FLS SS DATE MAR 11 1997

MODTECH INC.
2830 BARRETT AVE.
PERRIS, CA. 92572
PH. (909) 943-4014
FX. (909) 940-0427

MODTECH INC.

JOB NO. # 2510 #2514 #2515

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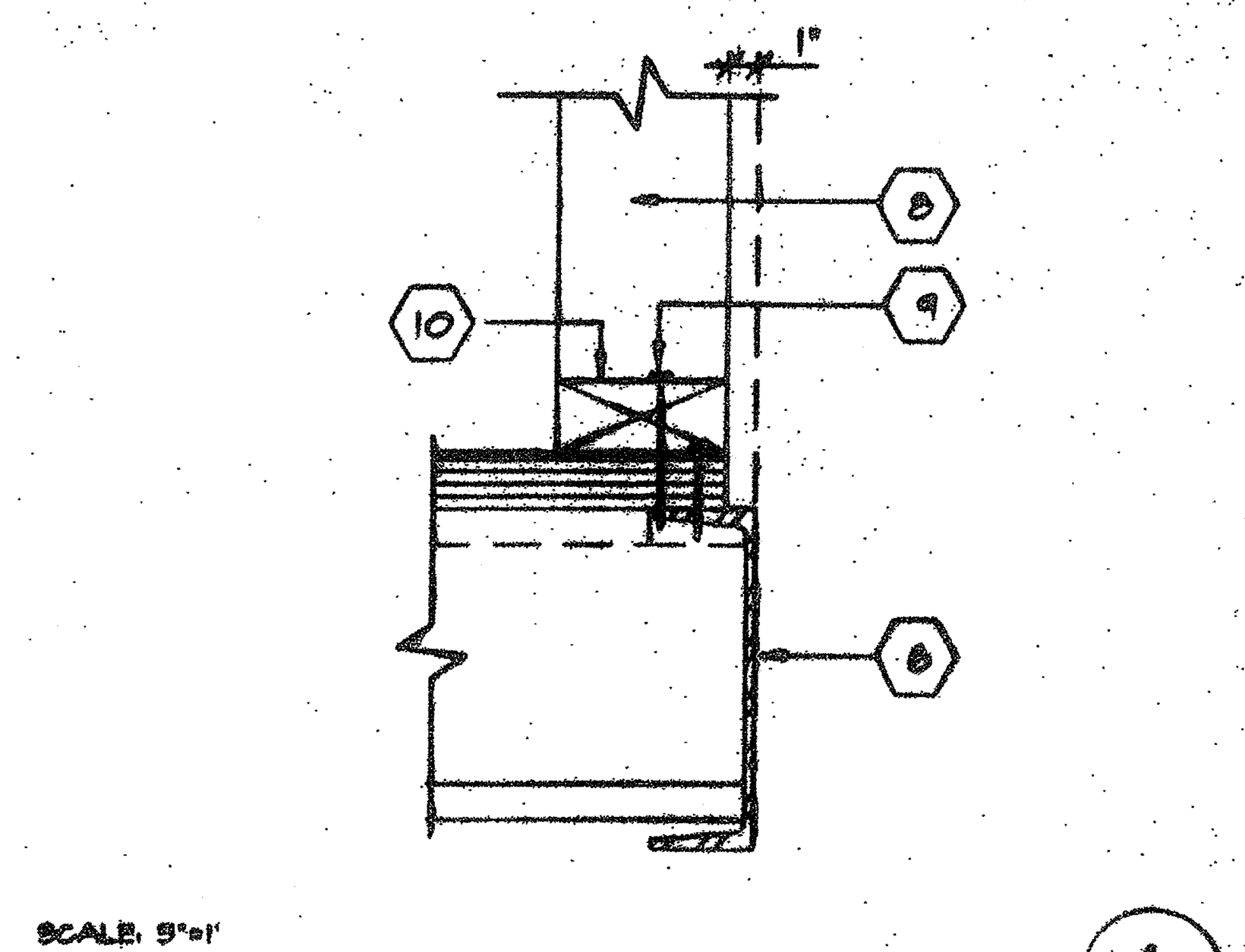
APP03 119149
AC ✓ FLS ✓ SS 19
DATE JAN 7 2010

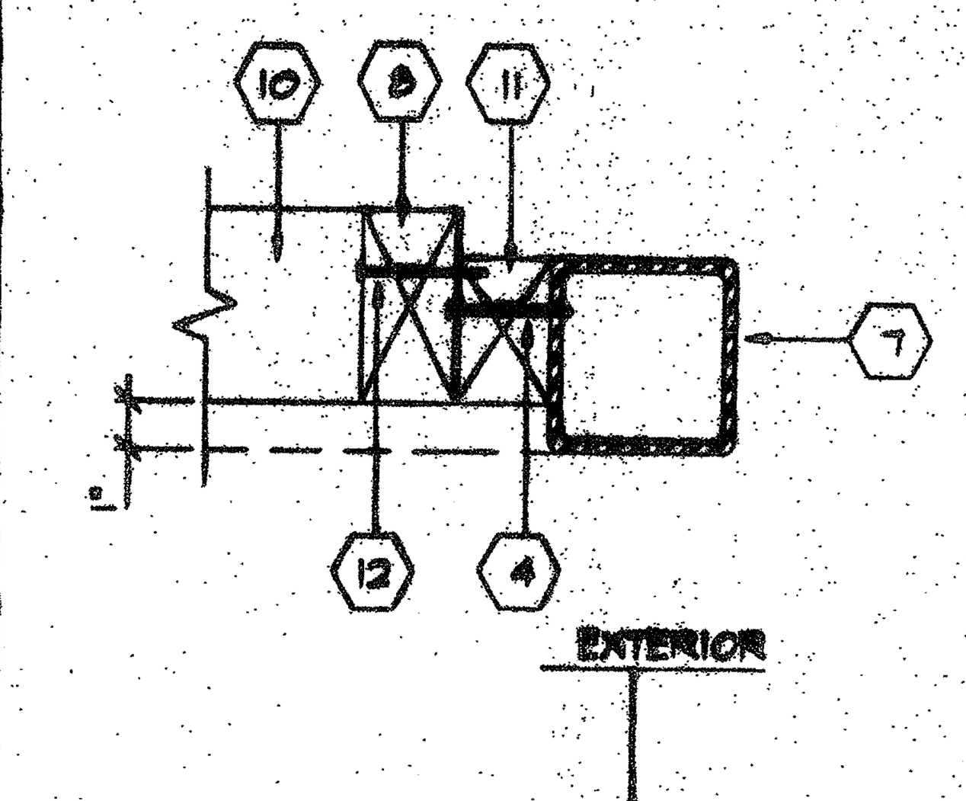
DRAWN BY dt
DATE 2\5\96
CHECKED BY
DATE

FRAMING DETAILS S5.1



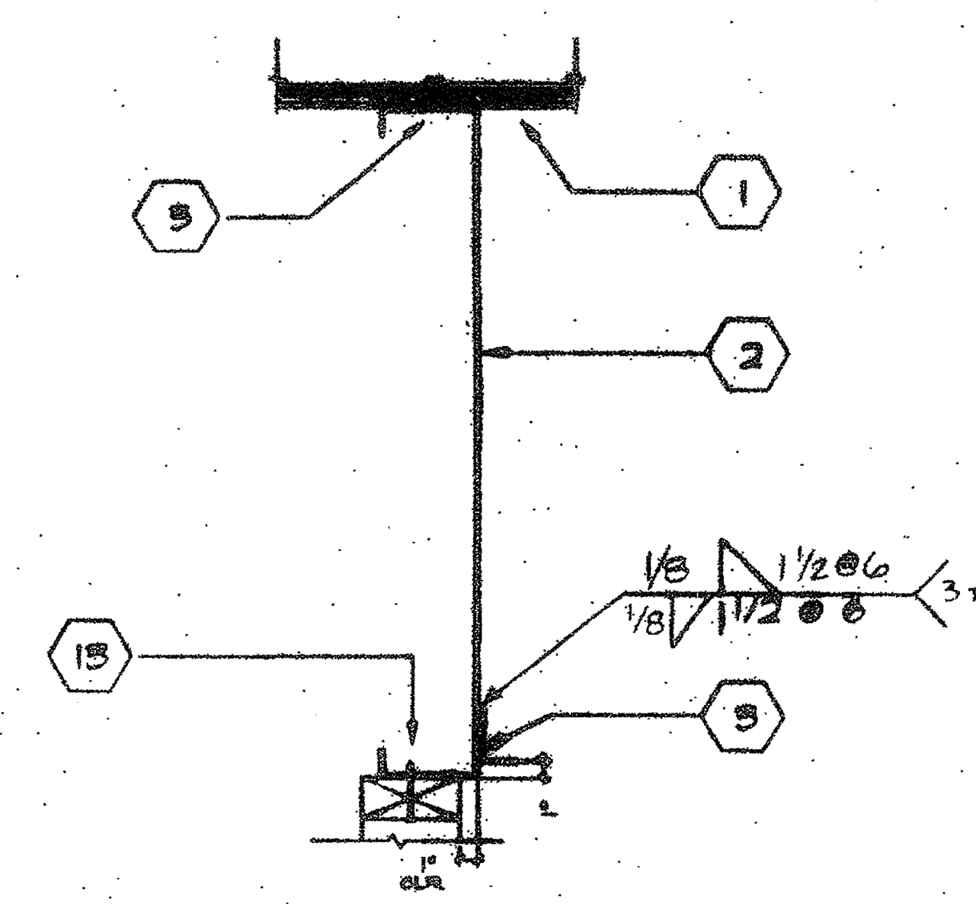
SCALE: 3"=1'

WALL SILL @ FLOOR (4)



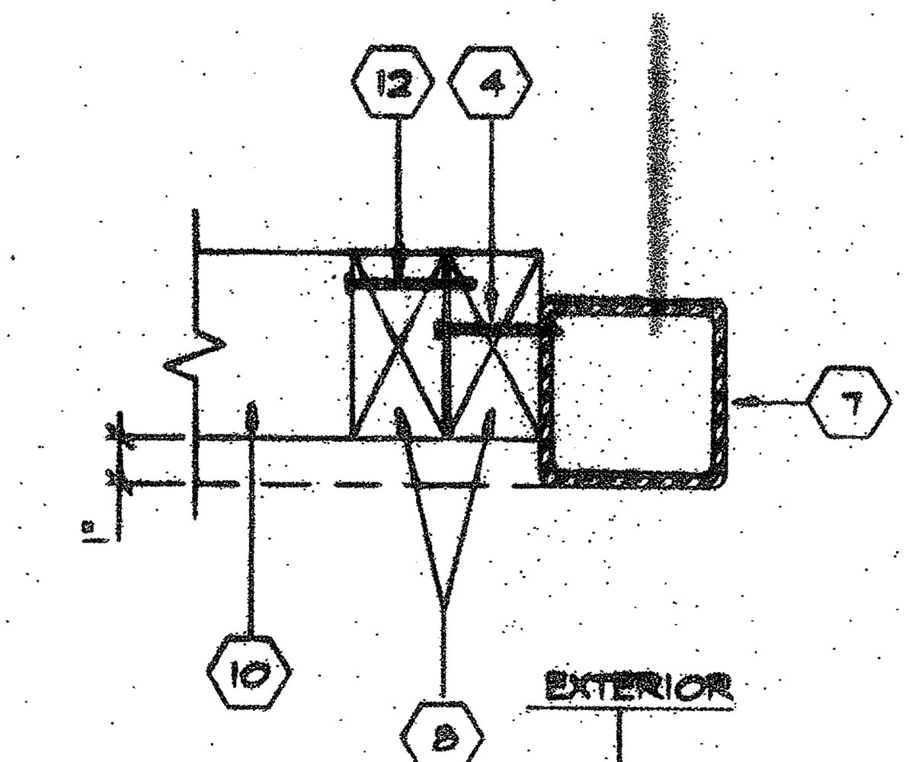
SCALE: 3"=1'

COLUMN @ END WALL. (1)



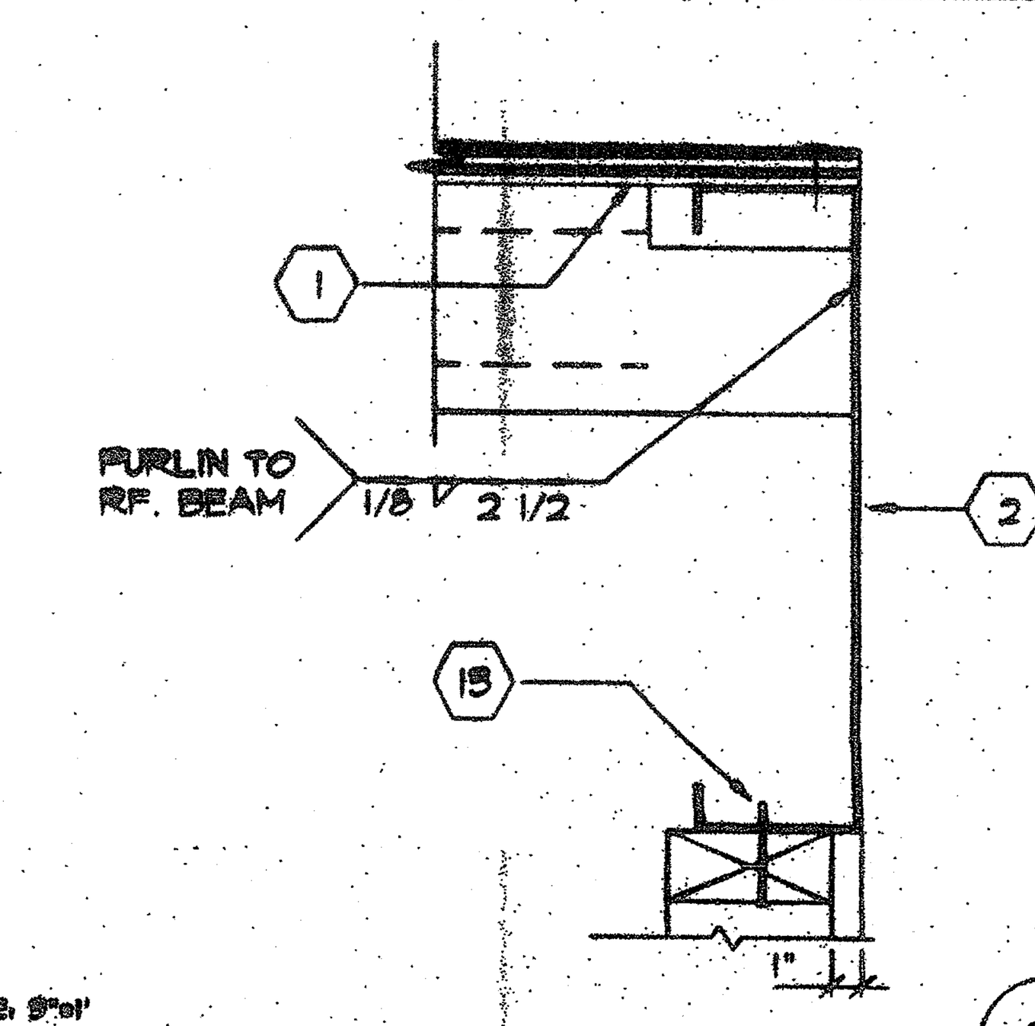
SCALE: 3"=1'

END WALL @ ROOF (5)



SCALE: 4"=1'

COLUMN @ SIDE WALL (2)



SCALE: 3"=1'

ROOF PURLIN @ ROOF BEAM (3)

KEY NOTES

1. PLYWOOD ROOF SHEATING.
2. [10GAX HEADER TYPICAL.
3. 1 1/2 X 1 1/2 X 16GA. ∠
4. #10 S.T.S.M.S @24" O.C. (ALT. HELD DN. SHOT PIN.)
5. E.N. PLYWOOD TO ROOF BEAM. (SEE STRUCTURAL)
6. FLOOR BEAM (SEE STRUCTURAL)
7. TUBE STEEL COLUMN.
8. 2X4 STUD @ 16" O.C. TYP.
9. 16d BOX NAILS @ 8" O.C.
10. 2X4 SILL PLATE.
11. 2X TRIMMER @ CORNER.
12. 16d @ 24" O.C.
13. #10 S.T.S.M.S @ 16" O.C. OR AEROSMITH AKN 144.0175 DRIVE PIN.

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*ALTERNATE: USE 0.145⌀ SHOT PIN @ SAME SPACING.

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REVISIONS	ELECTRICAL	MECHANICAL	STRUCTURAL	ARCHITECT	DIVISION OF THE STATE ARCHITECT
△ △ △ △ △ △			LICENSE EXPIRES 6-30-1998	No. C-2858 REN. 9-30-97 STATE OF CALIFORNIA	IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES APPL 67933 DATE MAR 11 1997

MODTECH INC.

MODTECH INC.
2830 BARRETT AVE.
PERRIS, CA. 92572
PH. (909) 943-4014
FX. (909) 940-0427

JOB NO # 2510 #2514 #2516

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WALL FRAMING DETAILS

DRAWN BY RN
DATE
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DATE 2/7/96

S5.2

KEY NOTES

(1) ACI- WALL MOUNTED HEAT PUMP NOMINAL 47,000 BTUH COOL/46,000 BTUH HEAT w/ 5kw HEATER O.L.A. & CALIFORNIA STATE ENERGY APPROVED - 1400 CFM- 208/230v 1 PHASE, MAX. F.L.A. 64 AMPS -WT.515lbs. 4 TON

(2) (T) THERMOSTAT-WHITE ROGERS 1F92 + 48" A.F.F.

(4) 12" ⌀ FLEX DUCT

(5) ⊠ 15X15 4W 700CFM SUPPLY AIR GRILLE

(6) 10"x30"x2' PLENUM (SEE SPECS)

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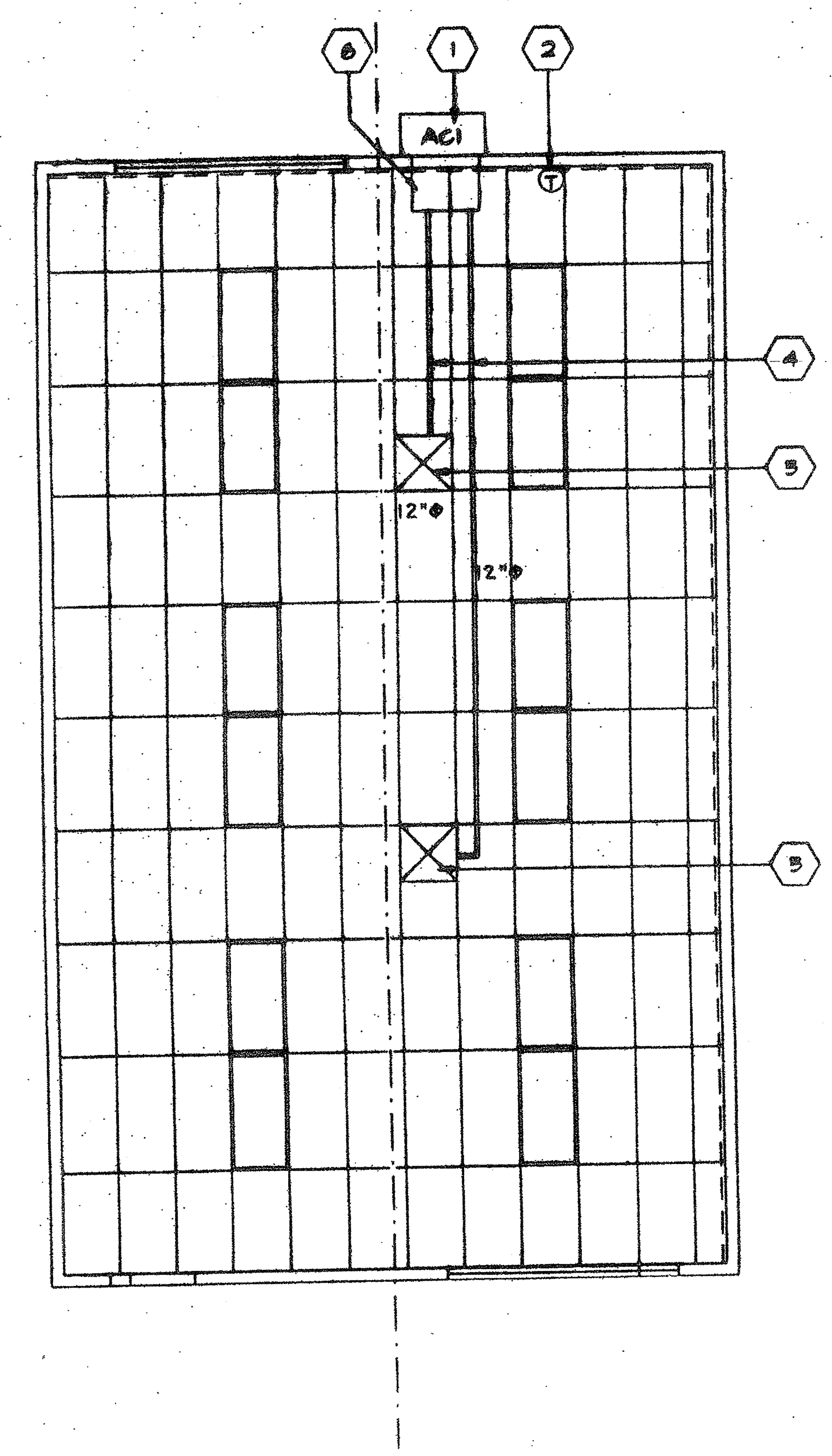
AC SW FLS SS VC
DATE OCT 19 2011



MECH. (HVAC) PLAN

SCALE 1/4"=1'-0"

SCHOOL EQUIPMENT ANCHORAGE

THE FOLLOWING IS FOR THE MECHANICAL ENGINEER'S INFORMATION ONLY.

THE SEISMIC ANCHORAGE OF MECHANICAL EQUIPMENT SHALL CONFORM TO C.C.R. TITLE 24, SECTION 2312 (g) AND TABLE 23-P. ANCHORAGE DETAILS FOR ROOF/FLOOR MOUNTED EQUIPMENT WEIGHING LESS THAN 400 LBS. AND HUNG EQUIPMENT WEIGHING LESS THAN 30 LBS. MAY BE OMITTED FROM THE PLANS.

FOR MECHANICAL DRAWINGS.

ALL MECHANICAL EQUIPMENT SHALL BE BRACED OR ANCHORED TO RESIST A HORIZONTAL FORCE ACTING IN ANY DIRECTION USING THE FOLLOWING CRITERIA.

EQUIPMENT ON GRADE	30% OF OPERATING WEIGHT
EQUIPMENT ON STRUCTURE	50% OF OPERATING WEIGHT

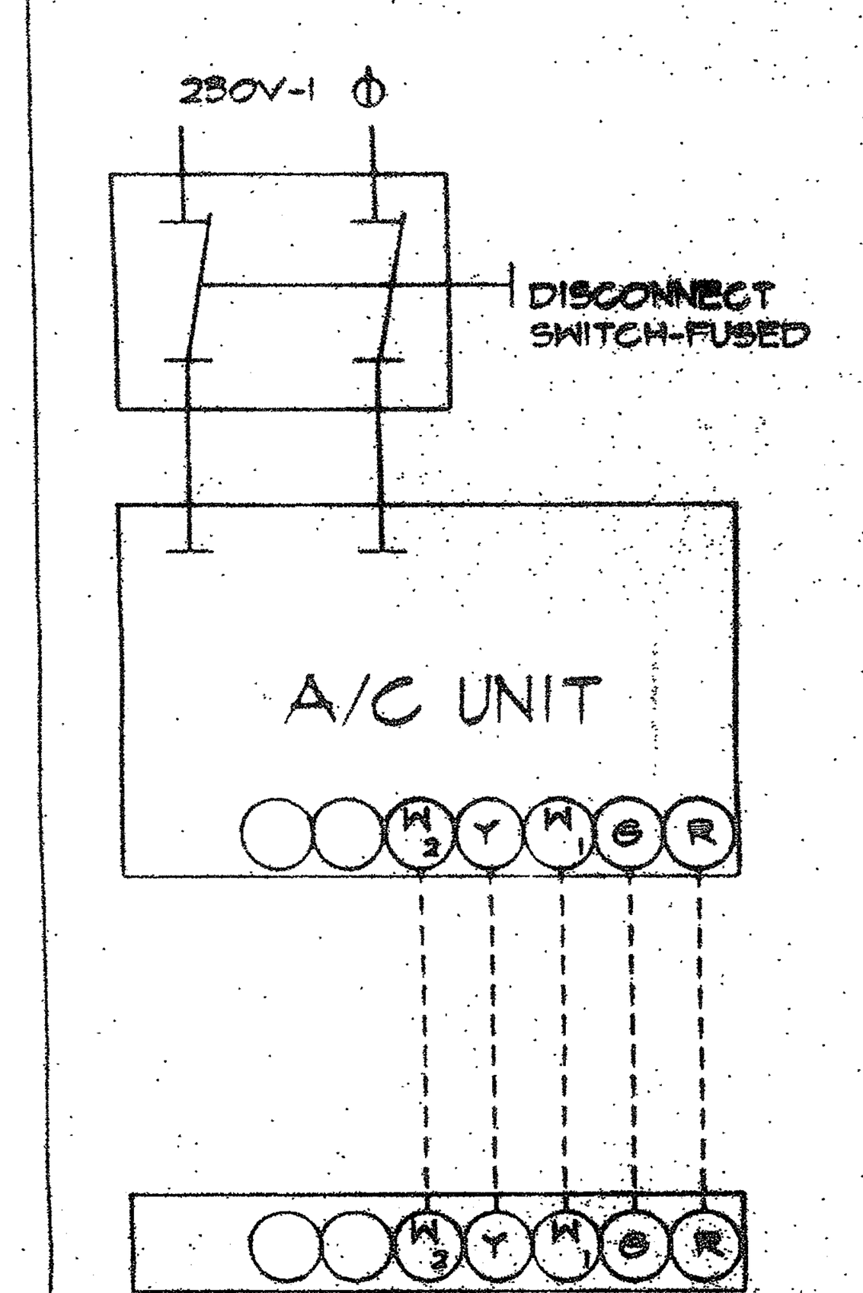
FOR FLEXIBLY MOUNTED EQUIPMENT USE 4 X THE ABOVE VALUES, AND FOR SIMULTANEOUS VERTICAL FORCE USE 1/3 X THE HORIZONTAL FORCE.

THE ABOVE VALUES ARE FOR AN IMPORTANCE FACTOR, I = 1.0 AND SEISMIC ZONE, Z = 0.4.

WHERE ANCHORAGE DETAILS ARE NOT SHOWN ON THE DRAWINGS THE FIELD INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE MECHANICAL ENGR. AND THE FIELD ENGINEER OF THE OFFICE OF THE STATE ARCHITECT.

INSULATION APPLIED TO THE EXTERIOR SURFACE OF DUCTS LOCATED IN BUILDINGS SHALL HAVE A FLAME SPREAD OF NOT MORE THAN 25 AND A SMOKE- DENSITY NOT EXCEEDING 50 WHEN TESTED AS A COMPOSITE INSTALLATION,INCLUDING INSULATION,FACING MATERIALS,TAPES AND ADHESIVES AS NORMALLY APPLIED.
EXCEPTION: INSULATION HAVING A FLAME-SREAD INDEX NOT EXCEEDING 50 AND A SMOKE-DENSITY NOT GREATER THAN 100 MAY BE INSTALLED IN DWELLINGS OR APRMENT HOUSES WHERE THE DUCT SYSTEN SERVES NOT MORE THAN ONE DWELLING UNIT.

CONTROL SCHEMATIC



THERMOSTAT: SUBBASE:

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REVISIONS	ELECTRICAL	MECHANICAL	STRUCTURAL	ARCHITECT	DIVISION OF THE STATE ARCHITECT
△			LICENSE EXPIRES 6-30-1996	LICENSED ARCHITECT STATE OF CALIFORNIA	IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES APPL 67333

MODTECH INC.

MODTECH INC.
2830 BARRETT AVE.
PERRIS, CA. 92572
PH. (909) 943-4014
FX. (909) 940-0427

JOB NO: # 2510 #2514 #2515

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APP03 119149
AC FLS SS
DATE JAN 7 2010

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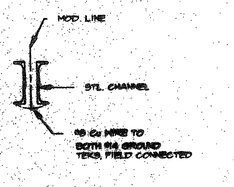
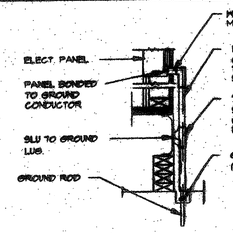
DATE

MECHANICAL (HVAC)

M1.0



JUMPER @ MOD. LINE



TYPICAL GROUNDING DETAIL

1. EACH BUILDING SHALL BE SEPARATELY GROUNDED WITH A 5/4" RDXØ' COPPERCLAD STEEL GROUND ROD, WHERE ROCK BOTTOM IS ENCOUNTERED, ROD SHALL BE DRIVEN AT AN ANGLE NOT TO EXCEED 45 DEGREES 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 SEPERATED AT LEAST 6'-0" UNTIL RESISTANCE IS REDUCED TO 25 OHMS OR LESS. (BY SITE ELECTRICAL)
3. PROVIDE EQUIPMENT ANCHORAGE PER TITLE 24, TABLE 16-J, PART B.
4. APPROVAL OF THIS PLAN DOES NOT CONSTITUTE APPROVAL OF THIS FIRE ALARM FOR ALL SITES, THE FIRE ALARM SYSTEM AND/OR COMPONENTS MAY BE REQUIRED TO BE CHANGED DUE TO SITE LOCATION, EXISTING CONDITIONS OR INCOMPATABLE COMPONENTS.
5. GROUND MID TEST SHALL BE DONE IN THE PRESENCE OF THE PROJECT INSPECTOR. ALL GROUNDING SHALL BE IN ACCORDANCE W/C.E.C. ARTICLE 250.

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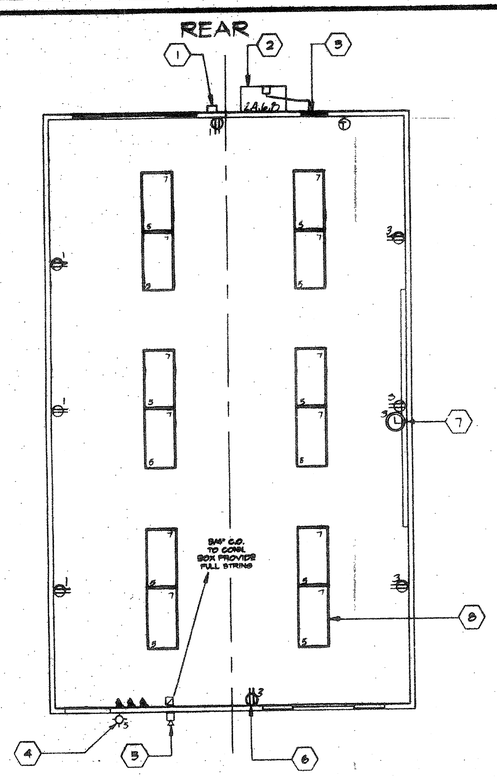
APP03 113058
AC SU FLS SS VC
DATE OCT 19 2011



VOLTS: 120/240 V			PANEL:								FEED: BOTTOM		
MAIN: 100 A			LOCATION:								MOUNTING:		
LOAD	WATTS		BREAKER		Dct	A	B	Dct	BREAKER		WATTS		LOAD
	Ag	Bg	Amps	P					Amps	P	Ag	Bg	
RECEPTS.	720		20	1	1			2	60	2	4560		HVAC 4 TON
RECEPTS. & CLOCK		900	20	1	3			4	–	–		4580	HVAC 4 TON
INT. / EXT. LIGHTS	1060		20	1	5			6	30	2	3120		HVAC HEAT STRIPS
INT. LIGHTS		960	20	1	7			8	–	–		3120	HVAC HEAT STRIPS
					9			10					
					11			12					
					13			14					
					15			16					
					17			18					
WATTS/PHASE A = 9,460	1780	1860									7680	7680	B = 9,540 WATTS/PHASE
TOTAL 19,505 WATTS	(81.27) 82 AMPS					120/240 VOLTS					1 Ø		3 WIRE

NCL = 16,980

KEY NOTES

1. 4/SDP WEATHER PROOF GUTTER BOX #18" (6X6X4)
2. HVAC UNIT (SEE SHT. M-1)
3. ELECTRICAL PANEL "A" TYPE-B10 12/20
4. EXTERIOR LIGHT FIXTURE
5. 4ø JUNCTION BOX FOR FIRE ALARM
6. DUPLEX WALL RECEPTACLE 15-A 125-V 3-WIRE
7. CLOCK OUTLET (SEE SPEC'S)
8. 2'X4' FLUORESCENT LIGHT AND FIXTURE 4-TUBE (SEE SPEC'S)

LEGEND

- 2' X 4' FLUORESCENT LIGHT FIXTURE WITH 4-TUBE (SEE SPEC'S)
- EXTERIOR LIGHT FIXTURE +7'-6"
- $ SWITCH +48"
- ELECTRICAL PANEL TYPE-B10 12/20 +5'-0"
- DUPLEX WALL RECEPTACLE 15-A 125-V 3-WIRE +18"
- (T) THERMOSTAT +48" ℄ MAX.
- "J" BOX FOR FIRE ALARM EXT. HORN/BELL +8'-6"
- F/A. PULL STATION +48"
- 4/SDP EXTERIOR WEATHERPROOF GUTTER BOX (6X6X4) +18"
- CLOCK OUTLET +7'-6"
- EXIT ILLUMINATED EXIT SIGN

ELECTRICAL PLAN

SCALE 1/4"-1'-0"

CSS.033 4012-074

REVISIONS	ELECTRICAL	MECHANICAL	STRUCTURAL	ARCHITECT	DIVISION OF THE STATE ARCHITECT
			LICENSE EXPIRES 6-30-1998		IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES APPL 04333 DATE MAR 11 1996

MODTECH INC.
2830 BARRETT AVE.
PERRIS, CA. 92572
PH. (909) 943-4014
FX. (909) 940-0427

JOB NO: # 2510 #2514 #2515

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APP03 119149
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DATE JAN 7 2015

ELECTRICAL PLAN

DRAWN BY RN
DATE
CHECKED BY
DATE 2/7/96

E1.0

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APP03 113058
AC 51 FLS PH SS VC
DATE OCT 19 2011

STATE OF CALIFORNIA
DEPARTMENT
OF GENERAL SERVICES
NOV 17 1989
OFFICE OF THE
STATE ARCHITECT

AURORA

RELOCATABLE CLASSROOM BUILDINGS

24 x 40

SHEARWALL BUILDING WITH METAL ROOF

STATE OF CALIFORNIA - OLA
PURCHASE ORDER #00939 9/23/88

GLENDALE UNIFIED SCHOOL DISTRICT
500 N. LORAINE AVE
GLENDORA, CA 91740

MUIR SCHOOL
912 S. CHEVY CHASE DR.
GLENDALE, CA

COLUMBUS SCHOOL
425 W. MILFORD
GLENDALE, CA

SPECIFICATIONS BOOK
DETAIL INDEX

GLENDALE UNIFIED SCHOOL DISTRICT

A. VICINITY MAP — SHEET 1
B. FLOOR PLAN — SHEET 2
C. MUIR SCHOOL
1. SITE PLAN (8-1/2 x 11) — SHEET 3
2. LARGER SCALE PLAN (11 x 17) ELECTRICAL & PLUMBING — SHEET 4
D. COLUMBUS SCHOOL
1. SITE PLAN (8-1/2 x 11) — SHEET 5
2. LARGER SCALEPLAN (11 x 17) ELECTRICAL & PLUMBING — SHEET 6
E. GENERAL DETAILS
1. ROOF CONDUIT SUPPORT — SHEET 7
2. TRENCH DETAIL & WALK — SHEET 8
3. HANDICAPPED DETAILS — SHEETS 9 and 10
4. TYPICAL GRADING AND BENCH — SHEET 11
5. TRANSFORMER & SWITCHBOARD DETAIL, GROUNDING NOTES — SHEET 12
6. UTILITIES CONNECTION DETAIL — SHEET 13

REGISTERED PROFESSIONAL ENGINEER
EDWARD LINDSKOG
No. 776
STRUCTURAL
STATE OF CALIFORNIA
LICENSE EXPIRES 12-31-88

OCCUPANCY	~~E-1~~ E-3
TYPE OF CONSTRUCTION	V - N
FIRE ZONE	3
WIND LOAD	15 lbs/sq ft
FLOOR LIVE LOAD	50 lbs/sq ft
ROOF LIVE LOAD	20 lbs sq ft
BUILDING AREA	960 sq ft

UBC 1979 - FIRE MARSHALL
UBC 1979 - STRUCTURAL
C.A.C TITLE 24 & TITLE 21

SYSTEM: SHEARWALL CONSTRUCTION
MODULES: TWO 12'x 40'
FOUNDATION: ALL WEATHER WOOD

SHEET NUMBER	DESCRIPTION
0	COVER SHEET, BUILDING DATA, SHEET INDEX
1	FLOOR PLAN, ROOF PLAN BUILDING ELEVATIONS
2	FOUNDATION PLAN & DETAILS
3	TYPICAL WALLS & BUILDING SECTIONS
4	TYPICAL DETAILS
5.	ROOF FRAMING, FLOOR FRAMING STRUCTURAL LAYOUT
6	STRUCTURAL DETAILS
7	REFLECTED CEILING PLAN & DETAILS
8	ELECTRICAL POWER PLAN, LIGHTING PLAN, PANEL SCHEDULE
9	GENERAL NOTES & SPECIFICATIONS
M-1	MECHANICAL PLAN
R-1	RAMP PLAN & DETAILS

2-7203 STATE BUILDING CODE (Part 2, Title 24, C.A.C.) (1-1-88 SUPP)

Signaling Device

Sec. 2-7203.

(a) Types of Devices. Every alarm signaling device installed in any occupancy within the scope of these regulations shall be of the same basic type (bells, horns speakers, etc.) as all other signaling devices in the facility.
EXCEPTION: Any signaling devices required for the hearing impaired.

(b) Level of Audibility. Alarm indicating devices of a fire alarm system intended to alert all occupants shall be so located and unobstructed as to cause a level of audibility of not less than 10 db above ambient noise levels measured four feet above the floor.
Ambient noise levels shall be construed to mean that which can normally be expected to exist when the facility, building, room or area is functioning under normal operating or working conditions.

Alarms

Sec. 2-7204.

(a) Emergency Warning Systems. If emergency warning systems are required they shall activate a means of warning the hearing impaired. Flashing visual warning shall have a frequency of not more than 60 flashes per minute.

Installation of FIRE ALARM SYSTEM shall not be started until detail plans, specifications and engineering calculations have been accepted and signed by the Architect or Structural Engineer in general charge of design and the signature of the architect or professional engineer who has been delegated responsibility covering the work shown on a particular plan or specification, and approved by the Office of the State Architect, and the State Fire Marshal.

STATE OF CALIFORNIA
DEPT. OF GENERAL SERVICES
OFFICE OF THE STATE ARCHITECT

STRUCTURAL TESTS AND INSPECTIONS

TESTING LABORATORY: ______ DATE: ______
JOB NAME: ______
DISTRICT: ______
DIVISION-FILE NO. ______ APPLICATION NO. ______
ARCHITECT: ______
STRUCTURAL ENGINEER: ______

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

COMPACTED FILL	
	Fill material, acceptance tests
	Compaction control, continuous
	Compaction tests only as ordered
	Bearing capacity of compacted fill
REINFORCING STEEL	
	Sample and test bar steel
	Sample and test mesh
	Inspect placing at job
STRUCTURAL STEEL	
X	Sample and test as detailed below
X	Shop fabrication inspection
	Field erection inspection
X	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

CON-CRETE	GUNITE	GROUT	MORTAR	
				Test of aggregates for mix design only
				Suitability tests of aggregates as detailed below
				Mix designs
				Continuous batch plant inspection
				Inspect placing
				Sample
				Compression tests
				Pick up samples at job
				Samples delivered to laboratory
				Deliver sample forms to jobsite
				Sample and test cement

SUITABILITY TESTS	CONCRETE MATERIALS	GUNITE	MORTAR	GROUT
Sodium sulphate				
Structural strength				
Los Angeles rattler				
Clay (Hydrometer method)				
Reactivity tests				
Volume change				

MIX DESIGNS: CONCRETE, GROUT, MORTAR OR GUNITE

MATERIAL	MAXIMUM SIZE	COMPRESSIVE STRENGTH, PSI, MINIMUM					

List of structural steel members to be tested:

MILL CERTIFICATES OR TEST:
C 12 x 20.7
C 7 x 9.8
Z 6 x 13GA or
Z 7 x 11GA

(Is this list continued on reverse: Yes (No))

Other Tests and Inspections, together with special instructions:
GENERAL IN-PLANT INSPECTION
TEST GROUND SYSTEM

Copies of Reports to:
Architect, OSA, School District, On Site inspector, structural engineer

(Are these instructions continued on reverse: Yes (No))

By: ______
AUTHORIZED REPRESENTATIVE

Form 411-11.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP03 119149
DATE JAN 7 2010

OFFICE OF THE STATE ARCHITECT
ACCESS COMPLIANCE SECTION
5166 MAR 22 89

OSA
A5166 MAR 22 1989
APPROVED

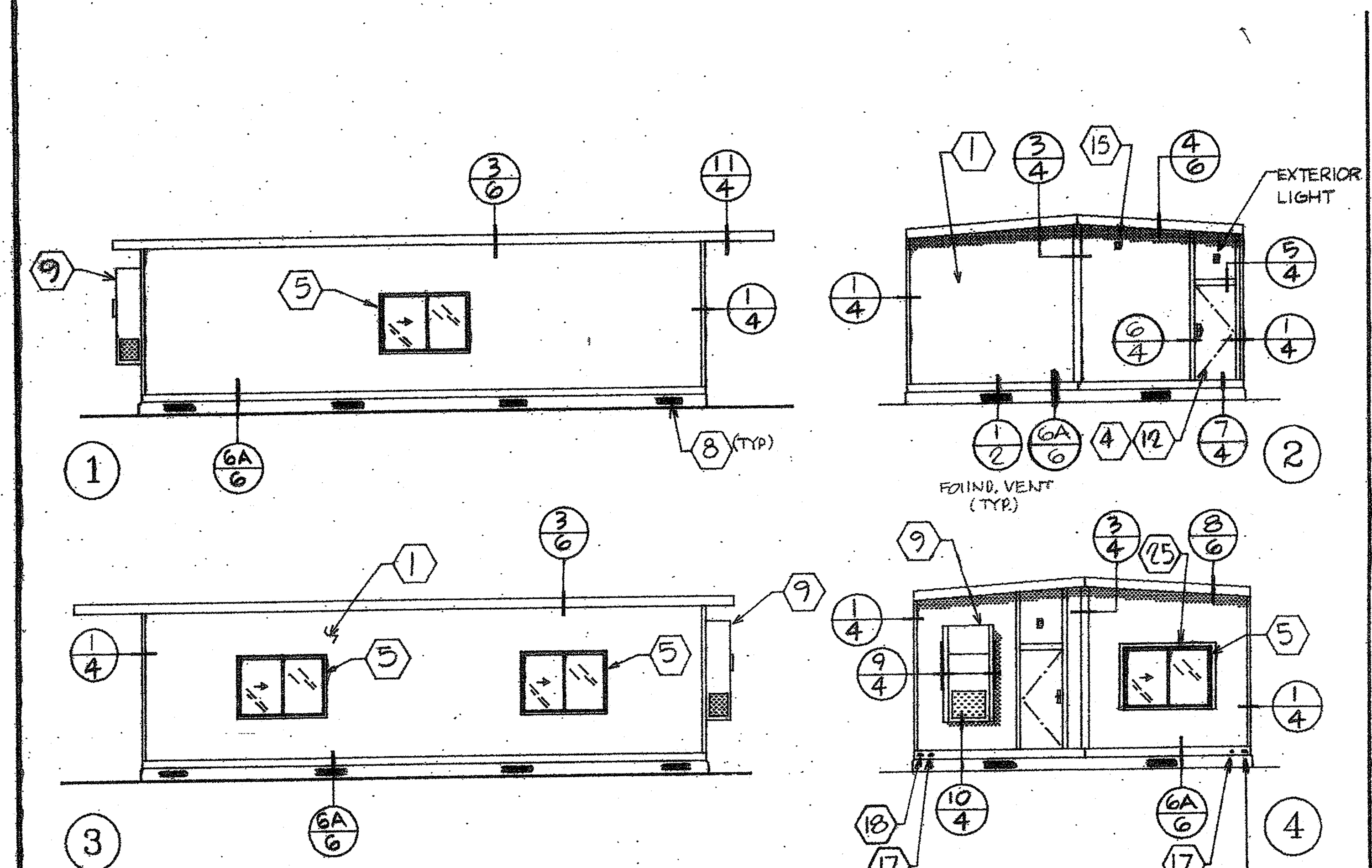
ACS

FIRE MARSHAL
APPROVED
FIRE AND PANIC ONLY
MAR 22 1989
STATE FIRE MARSHAL
SOUTHERN REGION

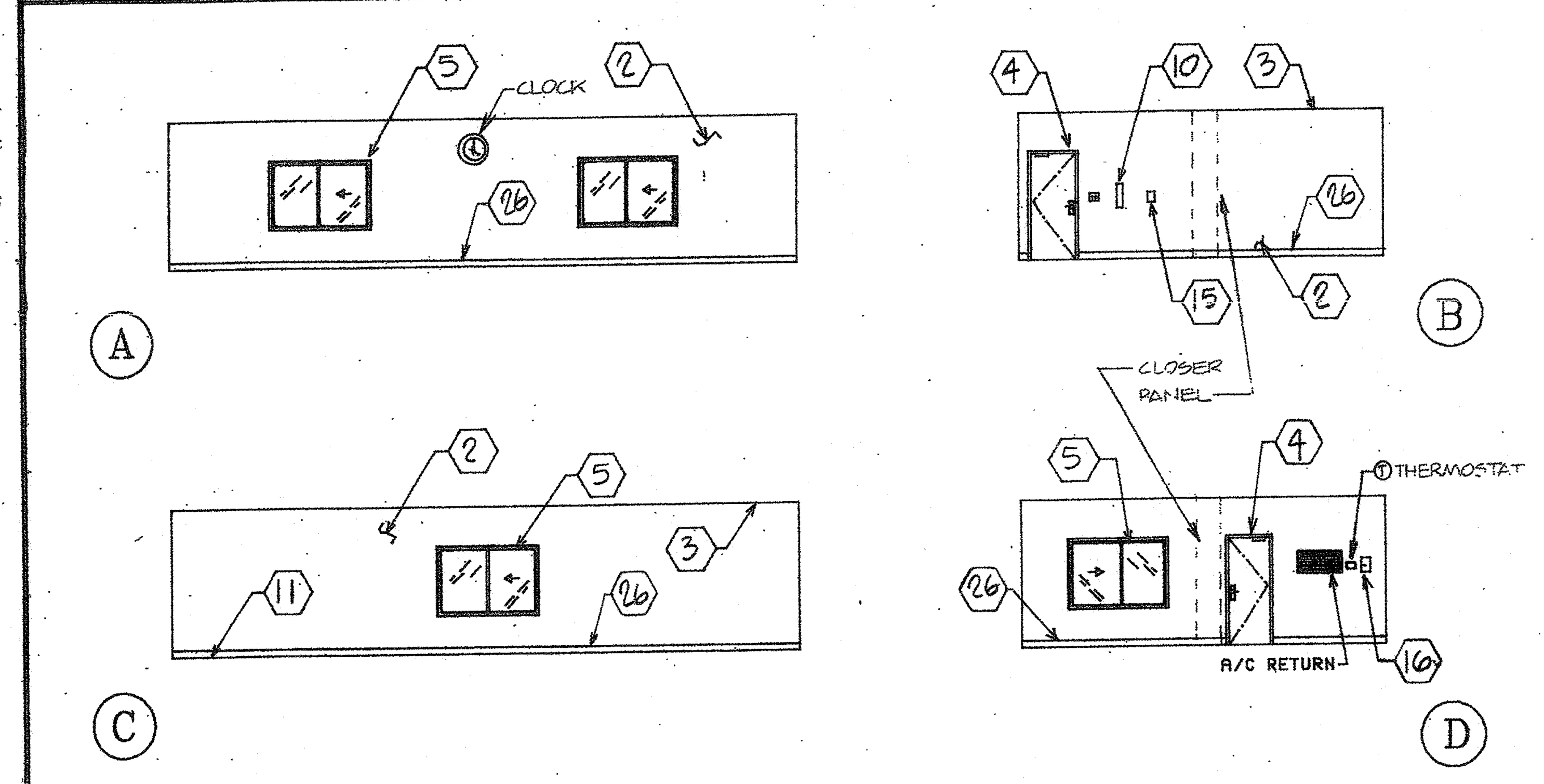
AURORA
MODULAR INDUSTRIES

COVER SHEET, BUILDING DATA, SHEET INDEX

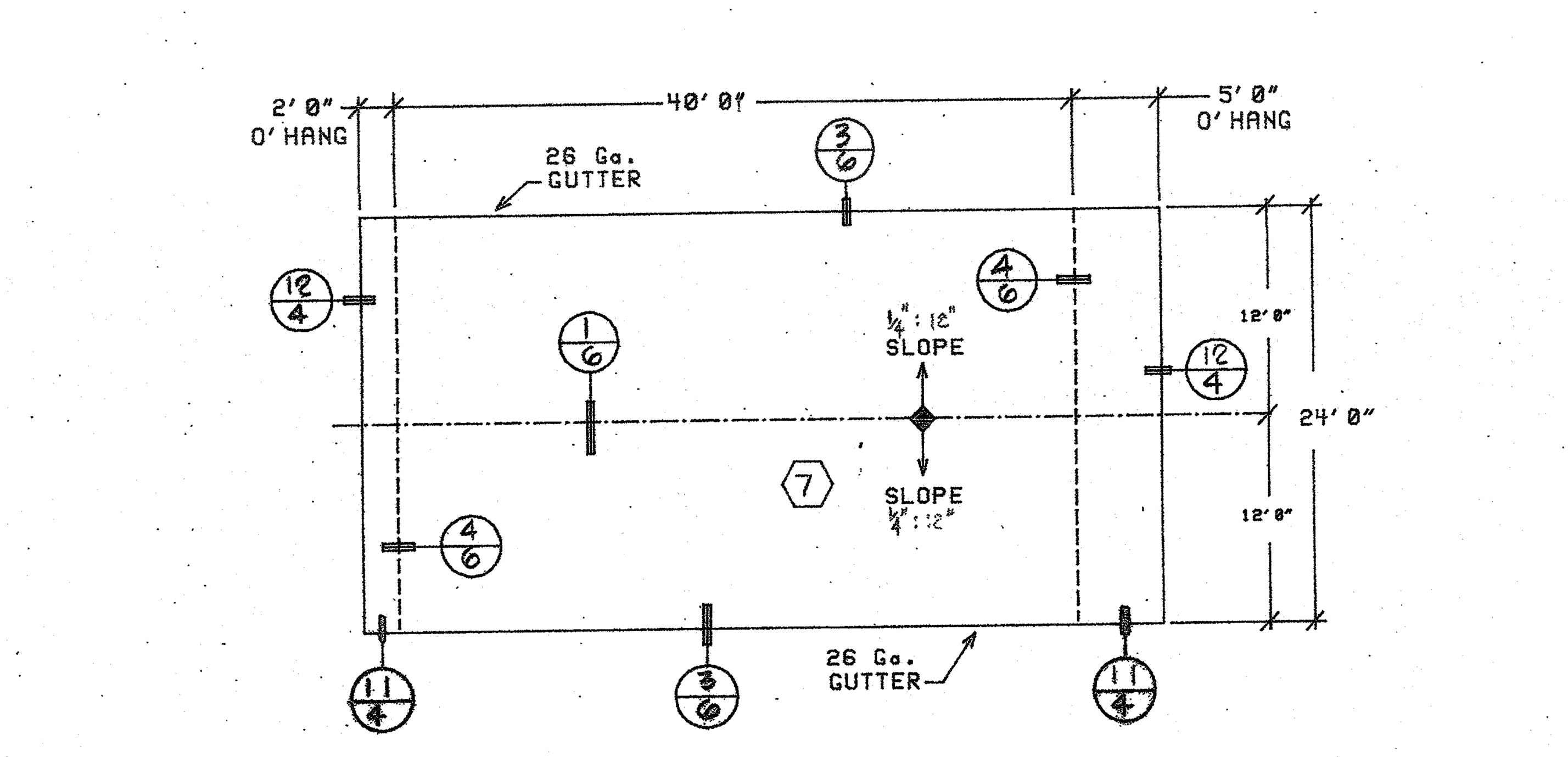
SHEET
0



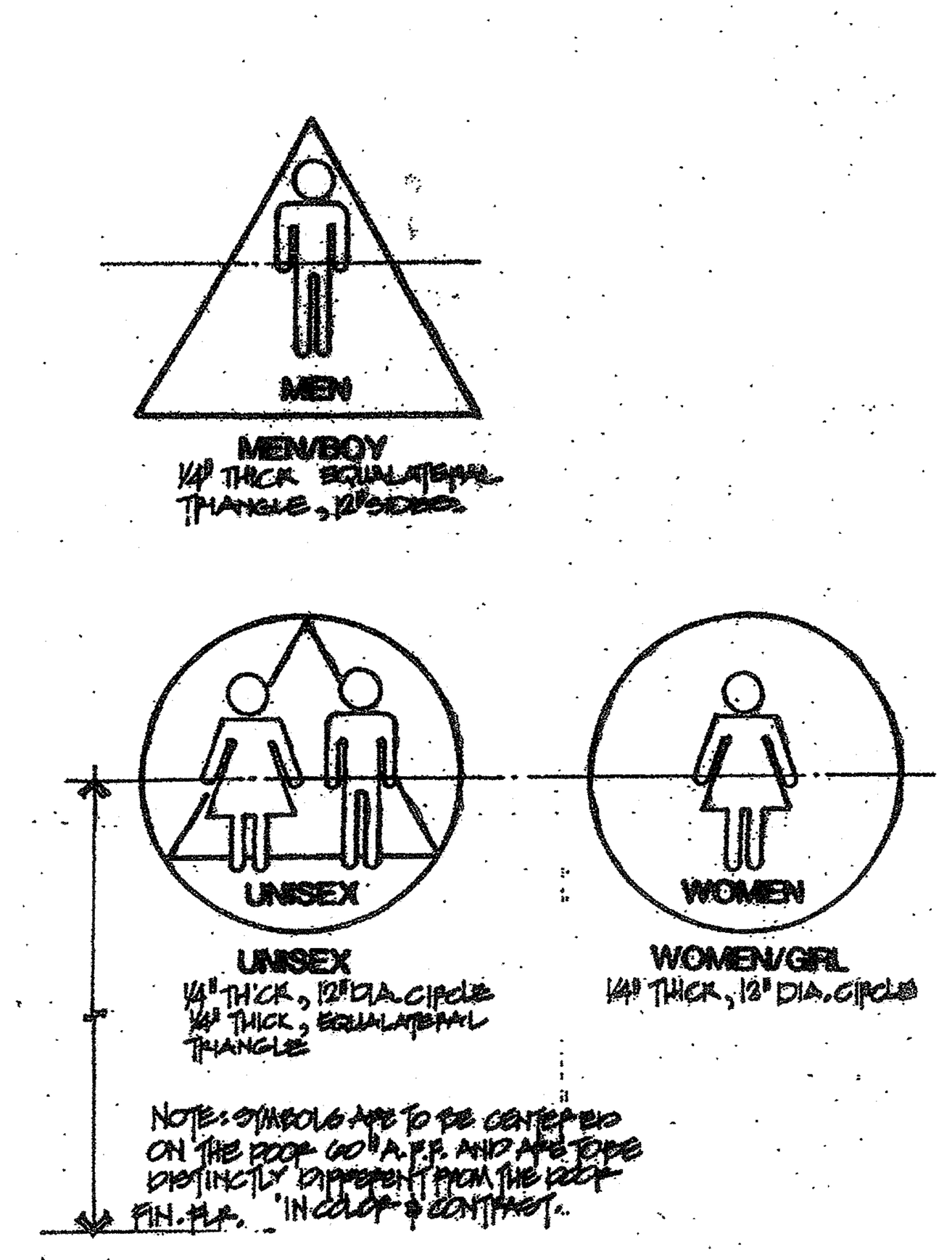
EXTERIOR ELEVATIONS 1/8"=1'0"



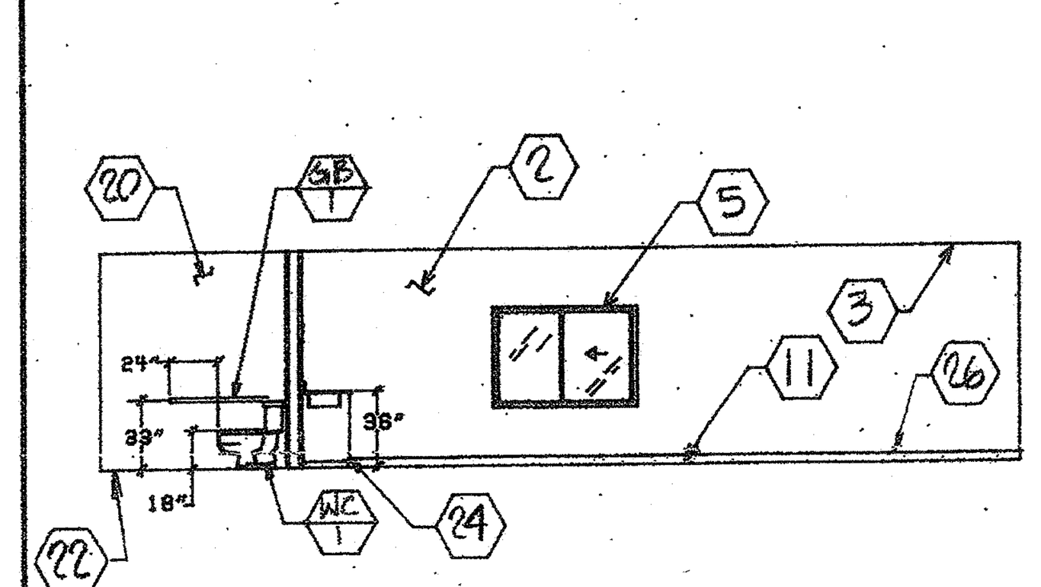
INTERIOR ELEVATIONS BUILDING "A", (BLD'G."A" (OPT. #1) AND BLD'G."A" (OPT. #2) SIM.) 1/8"=1'-0"



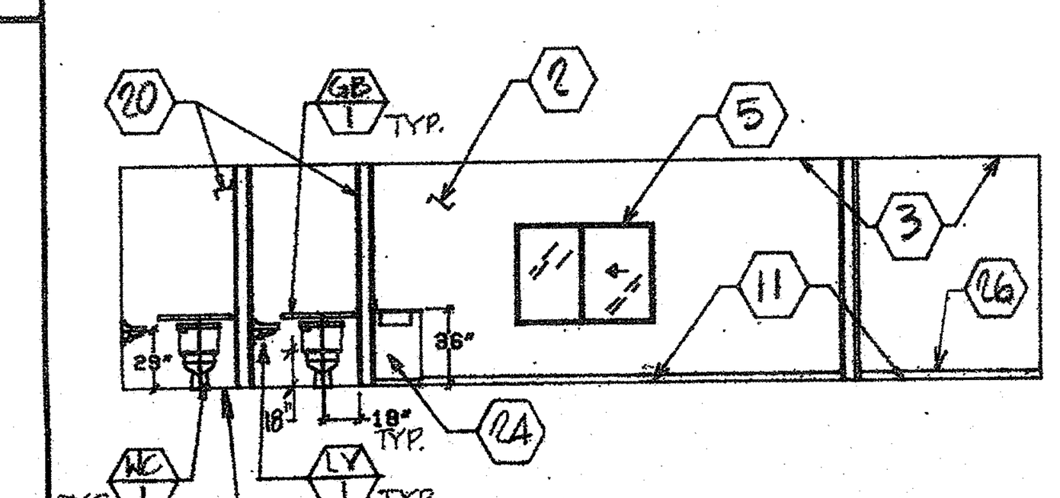
ROOF PLAN 1/8"=1'0"



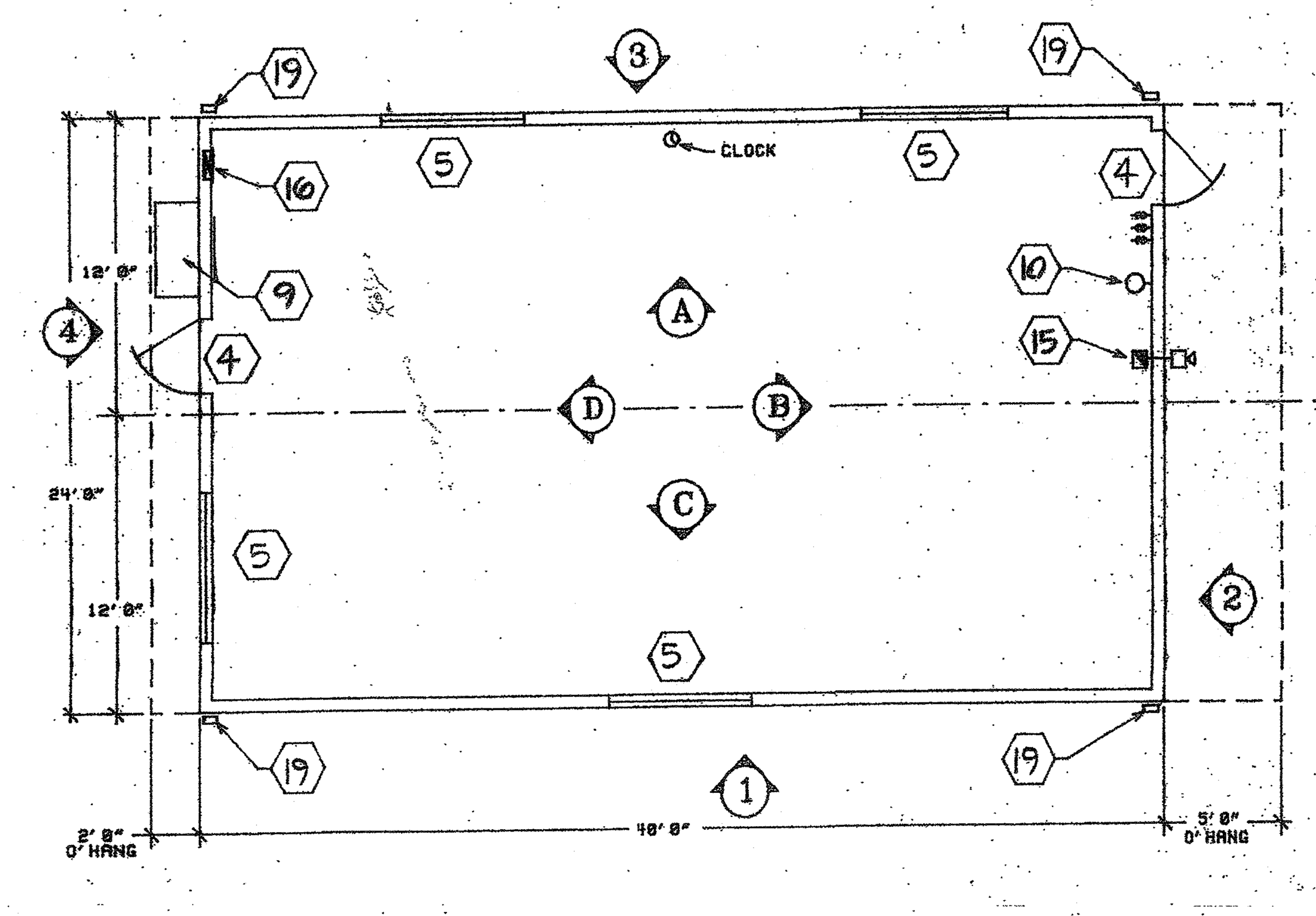
TOILET ROOM SIGNAGE (TYPICAL)



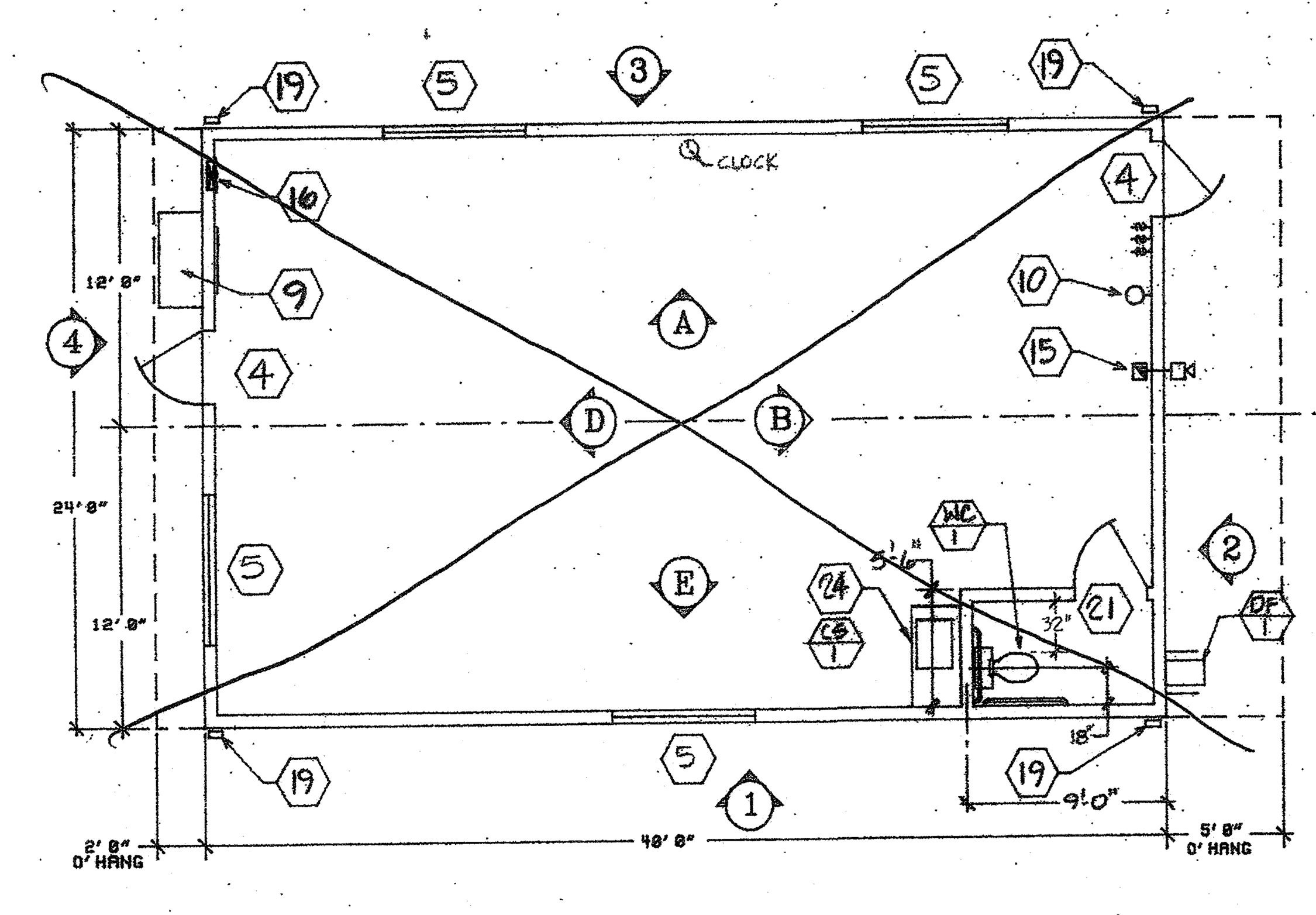
INTERIOR ELEVATIONS (E)



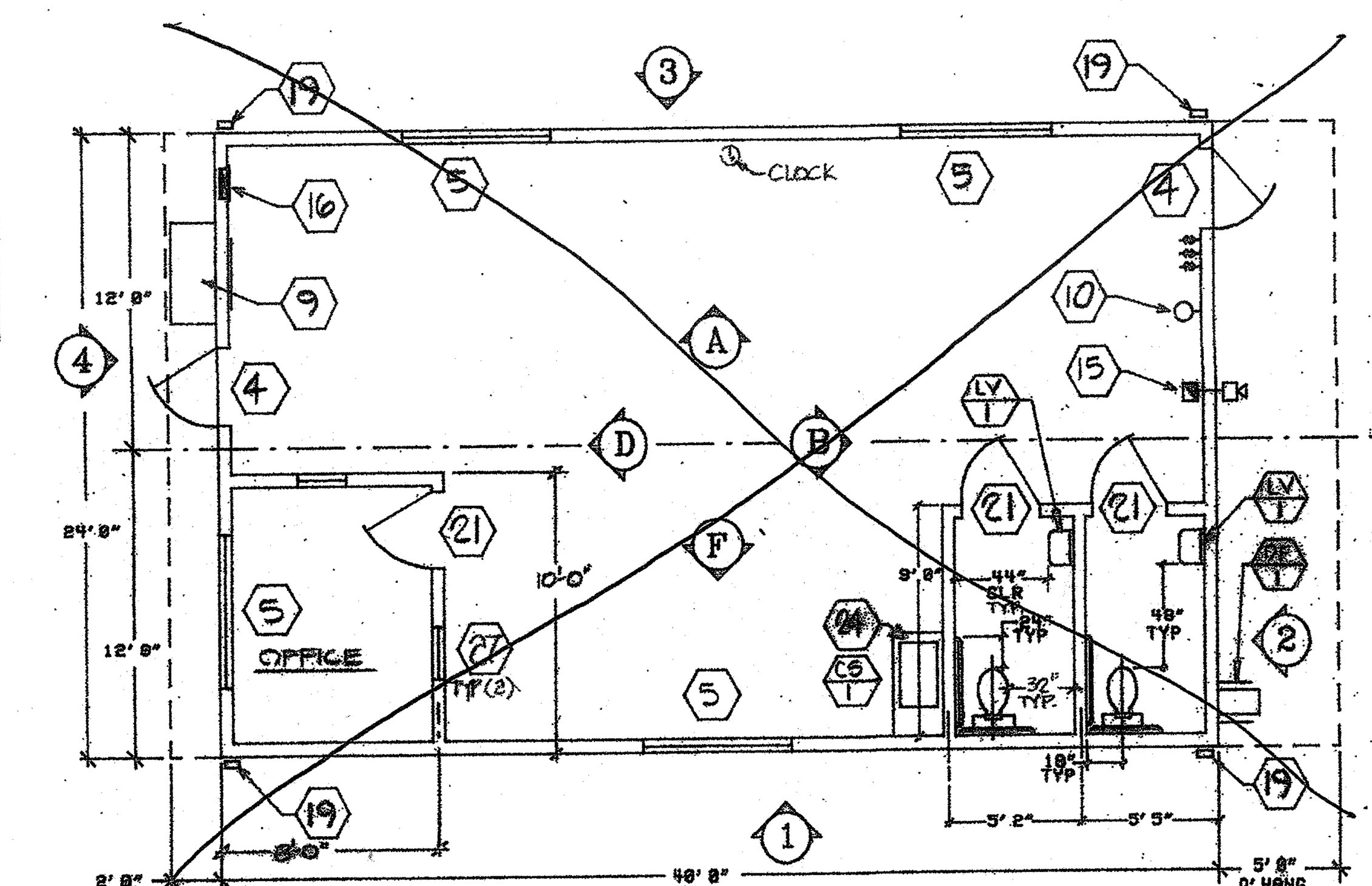
INTERIOR ELEVATIONS (F)



FLOOR PLAN "A"
NO SCALE



FLOOR PLAN "A"
W/ OPTION #1 NO SCALE



FLOOR PLAN "A"
W/ OPTION #2 NO SCALE

WASTE & VENT PIPING- SCHEDULE 40 ABS DRAIN PIPE. PIPE SHALL SLOPE MIN. 1/4":1FT AND SHALL HAVE A CLEANOUT AT UPPER TERMINAL END AND AT EACH BRANCH EXCEEDING 5'0" IN LENGTH.

SUPPLY PIPING- TYPE 'L' HARD DRAWN COPPER WITH FITTINGS AND JOINTS SOLDERED WITH 50/50 SOLDER.

1. TYPICAL EXTERIOR FINISH- APA RATED 5/8" T 1-11 8" GROOVED, B-C GRADE EXTERIOR PLYWOOD, PAINTED. MDO OR 'BRAND-TEX' SIDING MADE BY MULTNOMAH

2. TYPICAL INTERIOR FINISH- 1/2" VINYL COVERED FIRTEX (FLAME SPREAD CLASS I) OVER 1/2" GYP BD. VINYL PANEL MANUFACTURED BY 'DAVIDSON' PLYWOOD.

3. TYPICAL CEILING MATERIAL- 'US GYPSUM' #562 TILE (FLAME SPREAD CLASS I) IN 'DONN CORPORATION.' 'DX' SERIES HEAVY DUTY GRID SUSPENDED @ 9'0".

4. EXTERIOR DOOR- 3'0" x 6'8" x 1-3/4" 18 Ga. HOLLOW METAL DOOR WITH 16 Ga. HOLLOW METAL FRAME. DOORS SHALL BE OPENABLE FROM THE INSIDE WITHOUT USING KEY OR SPECIAL KNOWLEGE OR EFFORT. CLOSER SHALL BE SET FOR MAXUMUM OPENING PRESSURE OF 8 lbs.

5. 6'0" x 4'0" CLEAR ANODIZED ALUMINUM XO SLIDER, 14% GRAYLITE 7/32" TEMP. GLASS, ALUMINUM FRAMED SCREENS ON OPERABLE SASH. 'CALIFORNIA WINDOW' SERIES A-700.

6. RAMPS, LANDINGS, HANDRAILS- RAMPS SHALL NOT SLOPE MORE THAN 1" IN 12", HANDRAILS AT BOTH SIDES OF RAMP SHALL BE 32" HIGH.

7. ROOFING- 30 Ga. GALVANIZED STEEL INTERLOCKING ROOF PANELS, CONCEALED FASTENER. PLACER ENG. 'UNICOVER II' CLASS 'B' OVER 30Lb. SATURATED FELT UNDERLAYMENT AND 1/2" PLYWOOD DECK.

8. FOUNDATION VENTS- 20 Ga. METAL MIN. 7.5 SQ.FT. TOTAL AREA REQ'D. (14) 6"x 16" VENTS REQ'D.

9. AIR CONDITIONER- 4 TON WALL MOUNTED HEAT PUMP DUCTED SUPPLY- SEE SHT M-1.

10. FIRE EXTINGUISHER- 'POTTER-ROEMER' # 3005 5 lb DRY CHEMICAL WITH 2A-10B-C UL RATING, WITH WALL MOUNTING BRACKET.

11. FINISH FLOORING- CARPET COMPLYING WITH STATE OF CALIFORNIA SPEC. 7220-21K-01 GROUP I, TYPE A, CLASS 24, DENSITY 4600, DIRECT GLUE DOWN.

12. FINISH HARDWARE FOR EXTERIOR DOOR- LEVER HANDLE
LOCKSET- 'SCHLAGE' DLY-D70PD x 14-019 x 10-025
BUTTS- 'HAGER' 1191 BB 4-1/2" x 4-1/2" NRP PC
CLOSER- 'NORTON' 8500 DA SERIES
THRESHOLD- 'PEMKO' 271A
DOOR BOTTOM- 'PEMCO' 216AV
WEATHERSTRIP- 'PEMCO' 299D
DOOR STOP- BBW 120

13. FLUORESCENT LIGHTS- 'CRESCENT' 440, 4 LAMP, 35 WATT G.E. 'WATT MISER' TUBES, ACRYLIC PRISMATIC LENS, ENERGY EFFICIENT BALLAST.

14. INSULATION- 'JOHNS MANVILLE' FIBERGLASS; R-19 IN ROOF, R-11 IN WALLS & R-11 IN FLOOR ON 'POLYMAX' BOTTOM BOARD FLAME SPREAD, SMOKE DEVELOPED, FUEL CONTRIBUTED- 0-25.

15. FIRE ALARM- PULL STATION MOUNTED @ 4'0" ON THE INTERIOR, HORN OR BELL MOUNTED @ 8'6" ON EXTERIOR

16. ELECTRICAL PANEL 'A'- 120/208 1 Ø 125 A. MAIN BREAKER. 96.3 A. TOTAL LOAD.

17. METAL TAG, 3" x 4" MIN., ALL MODULES MECHANICALLY ATTACHED TO EXTERIOR OF REAR FRAME, SHOWING OLA NUMBER, FLOOR LIVE LOAD, ROOF LIVE LOAD AND WIND LOAD.

18. METAL TAG ON ALL MODULES MECHANICALLY ATTACHED TO EXTERIOR OF REAR FRAME, SHOWING OSA APPLICATION NUMBER, MANUFACTURERS NAME AND UNIT SERIAL NUMBER.

19. 26 Ga. DOWNSPOUT

20. TYPICAL INTERIOR FINISH- 1/8" MARLITE PANELS W/ VINYL COVERED ALUMINUM MOLDING (FLAME SPREAD CLASS I) OVER 1/2" GYP. BD.

21. INTERIOR DOOR- 3'0" x 6'8" x 1-3/4" SOLID CORE WOOD DOOR WITH WOOD JAMBS. DOORS SHALL HAVE PAINT GRADE HARDWOOD FACE VENEERS AND JAMBS SHALL HAVE APPLIED STOP. CLOSER SHALL BE SET FOR A MAXIMUM OPENING PRESSURE OF 5 lbs.

22. FINISH FLOORING- .085 Ga. SHT. VINYL. 'ARMSTRONG' CLASSIC CORLON OR EQUAL.

23. FINISH HARDWARE FOR INTERIOR DOOR- LEVER HANDLE
LOCKSET- 'SCHLAGE' A10S LEVON
BUTTS- 'HAGER' 1279 4-1/2" x 4-1/2"
CLOSER- 'NORTON' 8500DA
LOCKSET- 'SCHLAGE' A53PD (BATHROOM, OFFICE)

24. SINK CABINET- 4'x2'x 36" HIGH. REMOVABLE BASE & TOEBOARD. LAMINATED PLASTIC TOP, ROLLED FRONT EDGE & COVED 6" BACKSPLASH W/ ENDSPLASH. CABINET SHALL HAVE MIN. 30" CLEAR BETWEEN OPEN DOORS.

CS1 CLASSROOM SINK- 'HAWS' 4130 ENAM. CAST IRON; 30"x18" BUBBLER- HAWS 5055 WITH LEVER HANDLES; FAUCET- HAWS 5510 GOOSENECK WITH COLD LEVER HANDLE. AND 3 GPM FLOW RESTRICTOR; CHROMEPLATED STRAINER; 17 Ga CAST CHROME PLATED P-TRAP W/ CLEANOUT; 1/2" H.W., 1/2" C.W., 1-1/2" W., 1-1/2" V.T.R.

LV1 LAVATORY- 'ELJER' 051-1384 16"x 12-1/2" W/INTEGRAL HANGER; DELTA #500 FAUCET; #803-0552 STRAINER; 'CHICAGO' #1017 FAUCET; 17 Ga CHROME PLATED P-TRAP W/ CLEANOUT; 1/2"x 3/8" ANGLE SUPPLIES.

DF1 DRINKING FOUNTAIN- 'HAWS' 1075 WITH VANDAL RESISTANT BOTTOM PLATE; POLYMARBLE; MOUNT FOR 36" BUBBLER HEIGHT AT DISCHARGE; PROVIDE THRU BOLTS FOR ANCHORAGE TO WALL.

WH1 WATER HEATER- MTD 6000; INSTALL UNDER COUNTER.

25. WOOD TRIM- 1 x 4 'D' SELECT RESAWN TRIM AT WINDOWS, CORNERS AND DOOR OPENINGS. SEAL ALL EDGES OF EACH PIECE.

26. 'BURKE' #502 P 4" RUBBER TOPSET BASE OR COMPARABLE.

27. 2'0"x 3'0" 7/32 FIXED TEMPERED WINDOW IN ALUMINUM FRAME.

WC-1 WATER CLOSET- 'BRIGGS' #4728 VITRIOUS CHINA MOUNTED SIPHON JET TANK TYPE W/ (2) BOLT CAPS & 'BENEKE' #523 ELONGATED OPEN FRONT SEAT. 1/2" LOOSE KEY ANGLE STOP, 1/2" SUPPLY, WALL ESCUTCHEON.

GB-1 GRAB BARS- 1-1/4" DIA. STAINLESS STEEL MOUNTED AT 33" ABOVE FIN. FLR. 36" GRAB BAR AT REAR OF STALL, 42" BAR AT SIDE OF STALL AS INDICATED ON DRAWINGS.

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AC SU FLS SPH SS VC
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OFFICE OF THE STATE ARCHITECT STRUCTURAL SAFETY SECTION
51667 MAR 22 1989
APPROVED APPLICATION NO.

ACS
OFFICE OF THE STATE ARCHITECT ACCESS COMPLIANCE SECTION
51667 MAR 22 '89
APPLICATION NO.

FIRE MARSHAL
APPROVED FIRE AND PANIC ONLY
MAR 2 2 1989
STATE FIRE MARSHAL SOUTHERN REGION

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AURORA MODULAR INDUSTRIES
1320 W. Oleander Ave.
Perris, California 92370
Phone • (714) 943-2071

24x40 SHEARWALL RELOCATABLE CLASSROOM BUILDING STATE OF CALIFORNIA

FLOOR PLAN, ROOF PLAN, BUILDING ELEVATIONS

By | Date

SHEET
1

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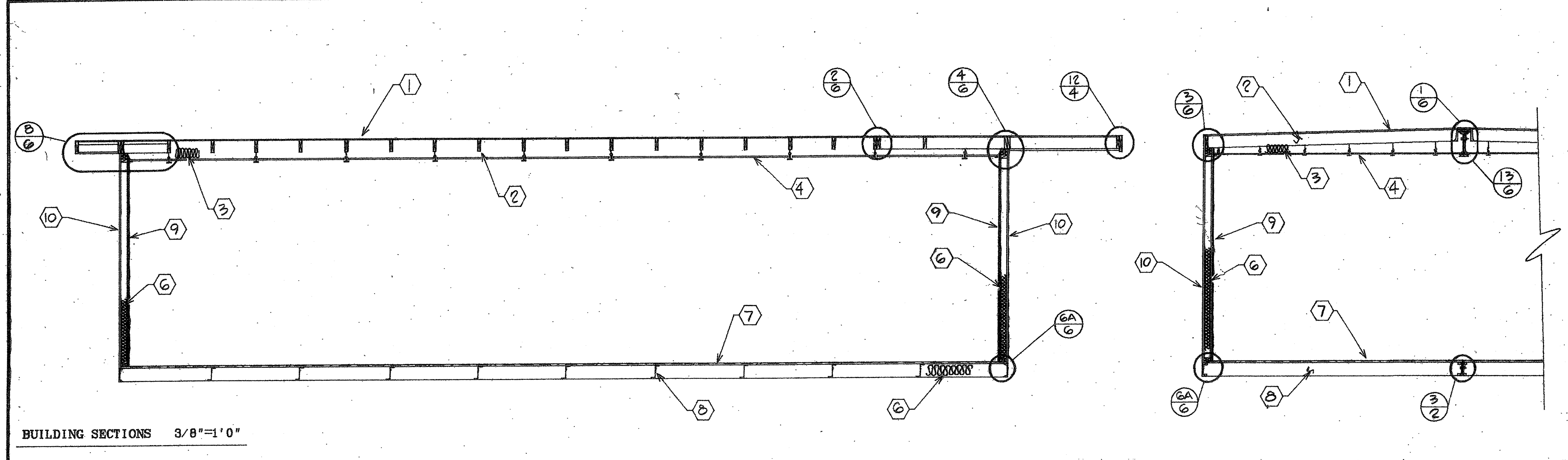
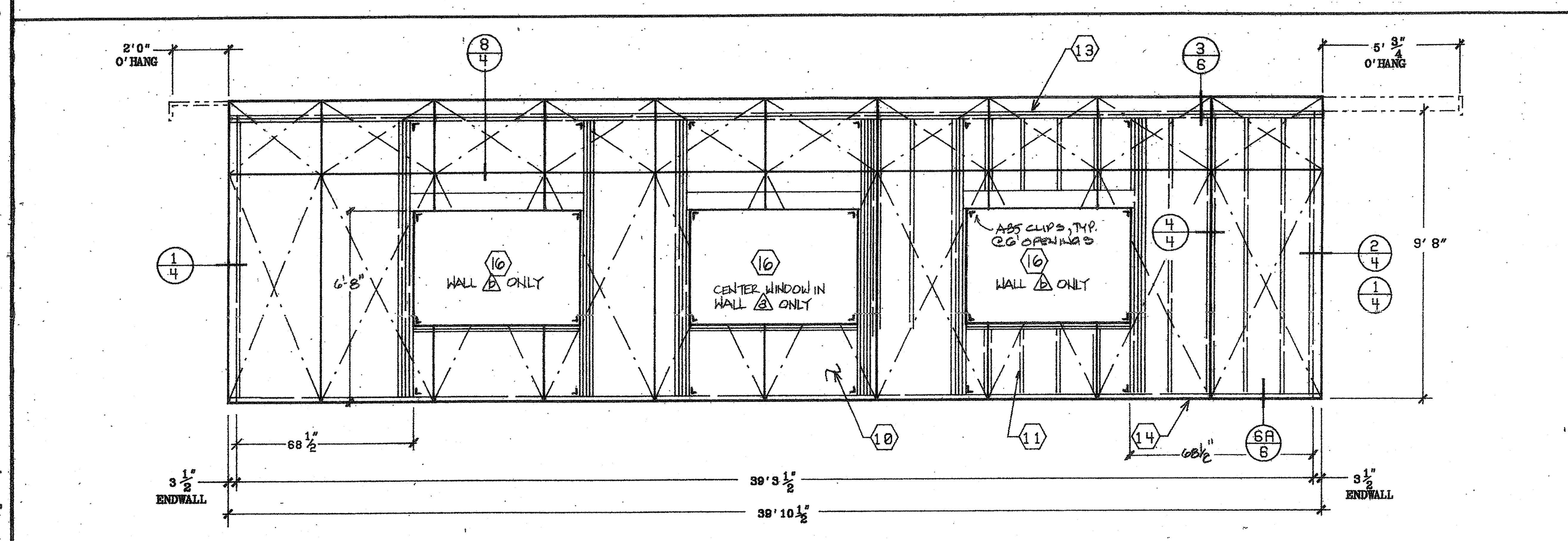
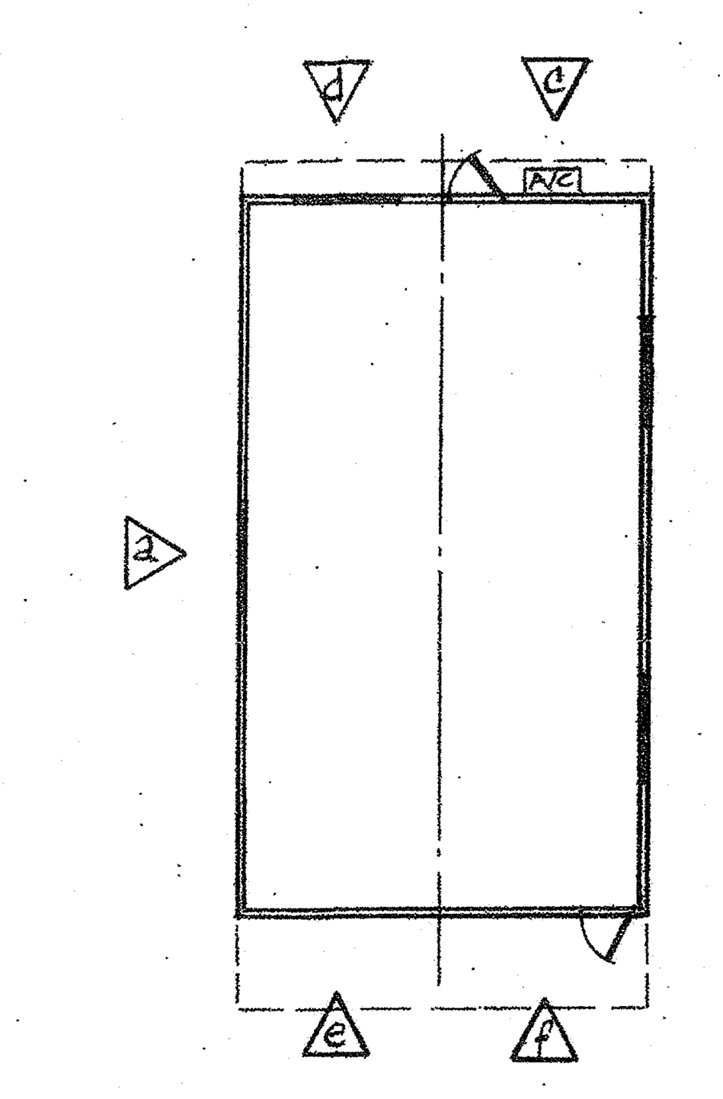
APP03 113058
DATE OCT 19 2011



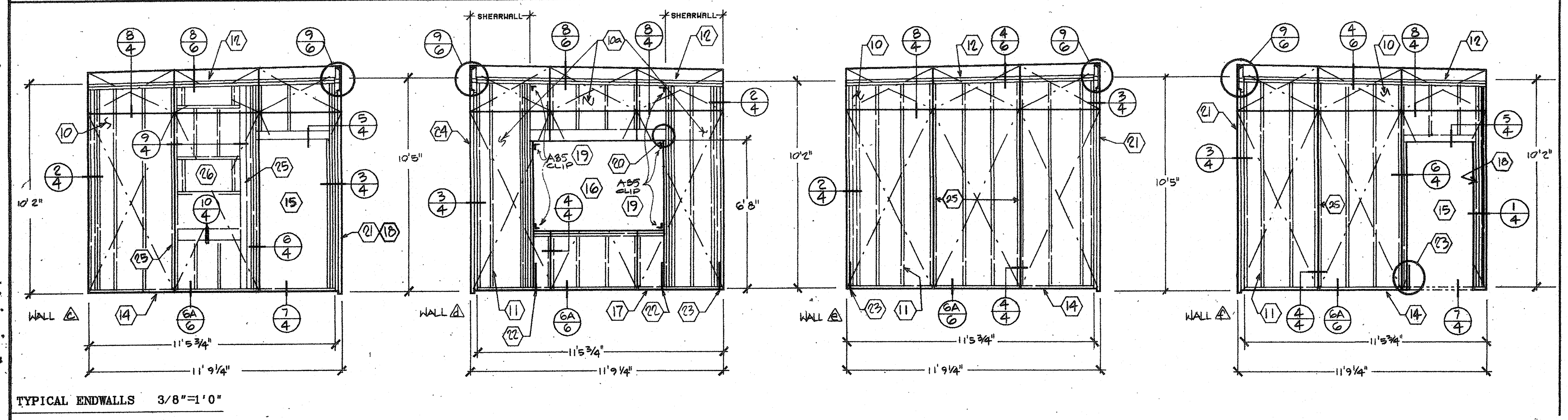
BUILDING SECTIONS 3/8"=1'0"



TYPICAL SIDEWALL 3/8"=1'0" WALL (A) SHOWN, WALL (B) OPPOSITE HAND



WALL LOCATIONS NTS



TYPICAL ENDWALLS 3/8"=1'0"

1. PLYWOOD ROOF SHEATHING- SEE NOTE 1:5.
2. ROOF JOIST- SEE NOTE 2:5.
3. R-19 FIBERGLASS INSULATION ON CEILING TILES
4. SUSPENDED CEILING- SEE SHEET 7.
5. Not Used
6. R-11 FIBERGLASS INSULATION
7. PLYWOOD FLOOR SHEATHING- SEE NOTE 11:5.
8. FLOOR JOIST- SEE NOTE 12:5.
9. TYP. INT. FINISH- SEE NOTE 2:1
10. PLYWOOD SIDING/SHEATHING- SEE NOTE 1:1 FOR MATERIAL. NAIL SIDING WITH CORROSION RESISTANT 8d BOX NAILS @ 6" BOUNDARY & EDGES, 12" FIELD FOR SIDEWALLS & ENDWALLS

10a SHEAR PANEL- NAIL PLYWOOD SIDING WITH 8d BOX NAILS @ 2-1/2" O.C. BOUNDARY, 4" O.C. EDGES AND 12" O.C. FIELD.

11. STUDS- 2x4 D.F. #2 & BTR. @ 16" O.C.
12. DBL TOP PLATE-(2) 2x4 D.F #2 & BTR. CONTINUOUS
13. DBL TOP PLATE-(2) 2x4 D.F. #2 &BTR; LAP SPLICES 4'0" W/ (7) 16d BOX NAILS BOTH SIDES OF SPLICE. NAIL PLATES TOGETHER W/ 16d BOX NAILS @ 12" O.C.
14. BOTTOM PLATE- 2x4 D.F. #2 &BTR. ATTACH TO STEEL FRAME W/ 'RAMSET #3330X WITH WASHER @ 24" O.C. SIDEWALLS AND 16" O.C. ENDWALLS. UNO
15. FRAME FOR 3'0"x 6'8" DOOR. USE (2) FULL HEIGHT 2x4 JAMB STUDS WITH (1) 2x4 TRIMMER BOTH SIDES, AND (2) 2x4 WITH SPACER FOR HEADER. SEE DET. 5:4.
16. FRAME FOR 6'0"x 4'0" WINDOW. USE (3) FULL HEIGHT 2x4 STUDS WITH (1) 2x4 TRIMMER BOTH SIDES, AND (2) 2x4 FLAT FOR WINDOW SILL. NAIL SILL TOGETHER WITH 16d NAILS @ 16" O.C. USE 4x6 D.F. #2 HEADER
17. BOTTOM PLATE- 2x4 D.F. #2 &BTR. ATTACH TO STEEL FRAME W/ 'RAMSET #3330X WITH WASHER @ 6" O.C. FOR SHEAR PANEL AREAS AND 16" O.C. UNDER WINDOW.
18. ATTACH 2x4 TO STEEL COLUMN PER NOTE 21. TOENAIL FULL HEIGHT JAMB STUD TO 2x4 W/ 16d BOX NAILS @ 16" O.C .
19. 'SIMPSON' A35 CLIPS (4) PLACES TO TOP AND BOTTOM PLATES AND AT EACH CORNER OF WINDOW OPENING.
20. NAIL THRU UPRIGHT TRIMMER OR STUD INTO HORIZONTAL HEADER OR SILL WITH MIN. (4) 16d NAILS PER CONN. TYPICAL AT ALL CORNERS OF ALL OPENINGS.
21. STEEL COLUMN- ATTACH ENDWALL TO POST W/ 'RAMSET' #1514-SD @ 16" O.C. UNO
22. HOLD-DOWN ANCHOR -BOLT THRU TRIMMER & STUDS. SEE DET. 2:4 & 12:6.
23. HOLD-DOWN ANCHOR - BOLT THRU DBL. STUDS. SEE DET. 2:4 & 12:6.
24. STEEL COLUMN- ATTACH ENDWALL TO POST W/ 'RAMSET' #1514-SD @ 6" O.C. STAGGERED.
25. 4x4 D.F POST
26. A/C FRAMING IS FOR 4 TON WALL MOUNTED UNIT
27. 8d BOX NAIL SHALL BE 2 3/8" LONG x .113"Ø WITH MIN. 1 1/2" PENETRATION INTO SUPPORTING MEMBER.
28. 16d BOX NAILS SHALL BE 3 1/4" LONG x .131" Ø WITH MIN. 1 3/4" PENETRATION INTO SUPPORTING MEMBER.

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APP03 119149

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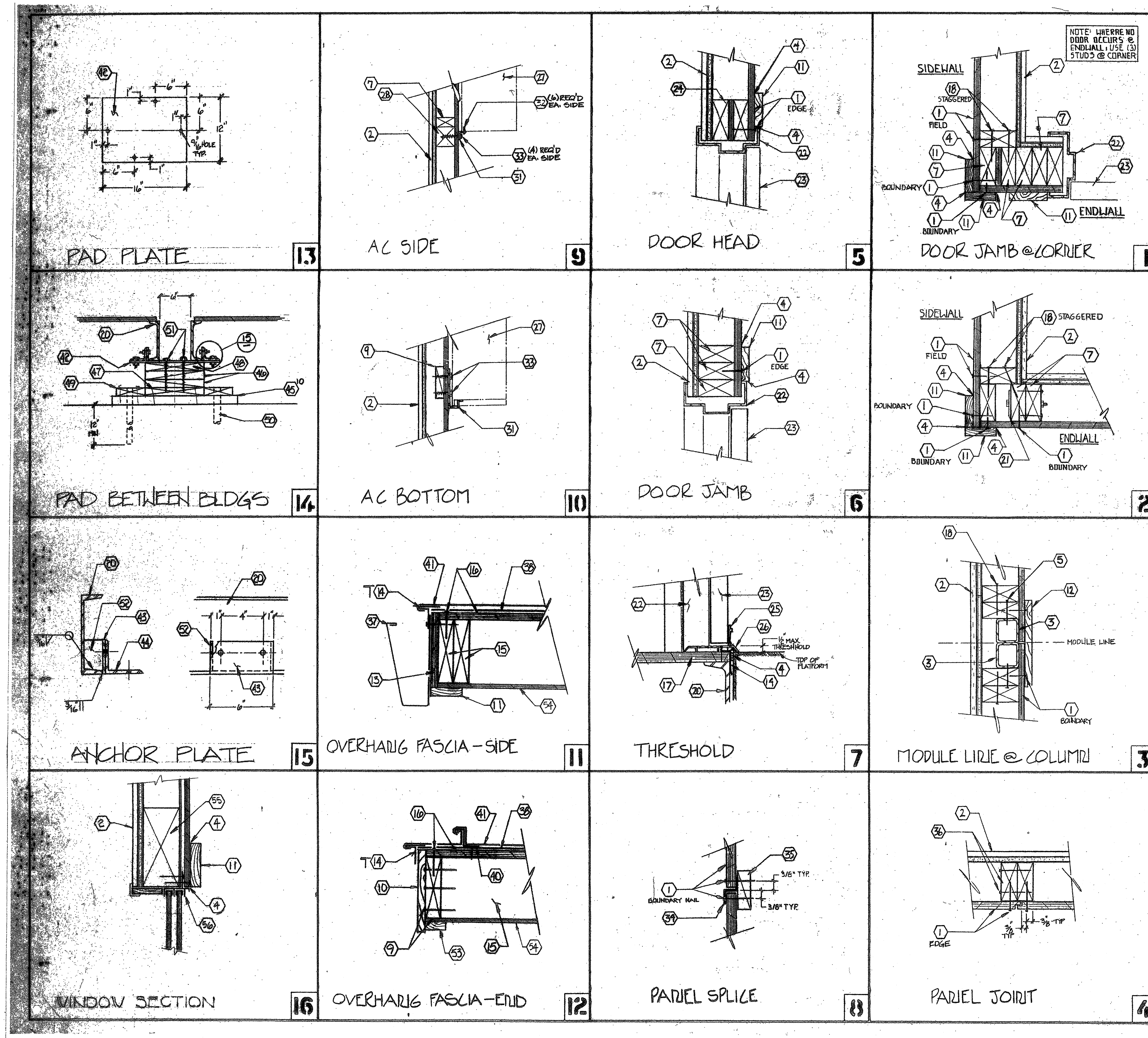
FIRE MARSHAL

AURORA MODULAR INDUSTRIES
1320 W. Oleander Ave.
Perris, California 92570
Phone • (714) 943-2071

BUILDING SECTIONS & TYPICAL WALLS

SHEET
3



⬡ NOTES

1. EXTERIOR PLYWOOD SIDING/SHEATHING- NAIL WITH 8d CORROSION RESISTANT BOX NAILS. SEE NOTE 10, 10A:3 FOR SPECIFIC NAILING. SEE NOTE 1:1 FOR MATERIAL
2. TYP. INTERIOR FINISH- SEE NOTE 2:1 FOR MATERIAL
3. STEEL TUBE COLUMN
4. SEALANT
5. 'HILTI' DN57-P8 or 'RAMSET' 1514SD. SEE NOTE 21:3 & 24:3 FOR SPACING.
6. 2x4 TRIMMER
7. 2x4 STUD- FULL HEIGHT
8. 2x4 TRIM
9. 2x6- ATTACH TO JOISTS WITH (3) 16d BOX NAILS
10. 2x8 FASCIA
11. 1x4 SOLID WOOD TRIM
12. 1x8 SOLID WOOD TRIM
13. PLYWOOD FILLER AS REQUIRED
14. GALVANIZED FLASHING
15. ROOF JOIST- SEE NOTE 2:5.
16. ROOF SHEATHING- SEE NOTE 1:5 FOR ATTACHMENT
17. FLOOR SHEATHING- SEE NOTE 11:5 FOR ATTACHMENT
18. 16d BOX NAILS @ 16" O.C.
19. STEEL ROOF CHANNEL- SEE NOTE 9:5.
20. STEEL FLOOR CHANNEL- SEE NOTE 13:5.
21. 1/8"x 2-1/2" STEEL STRAP WITH (2) 5/8" BOLTS THRU DBL STUDS- SEE DETAIL 12:6.
22. HOLLOW METAL DOOR FRAME- 16 Ga. STEEL
23. METAL DOOR
24. HEADER- (2) 2x4 WITH PLYWOOD SPACER NAILED WITH 16d BOX NAILS @ 16" O.C. STAGGERED.
25. DOOR BOTTOM
26. ALUMINUM THRESHOLD
27. WALL MOUNTED HEAT PUMP
28. 4x4 D.F. POST
29. 2x6 BLOCK BETWEEN STUDS- ATTACH TO STUDS WITH (2) 16d BOX NAILS EA. END
30. 1-1/2"x 1-1/2"x 18" LONG x 16 Ga. SIDE BRACKET
31. 11 Ga.x 24" STEEL BOTTOM BRACKET- NON-SUPPORTING
32. #10 SELF TAPPING GALVANIZED SHT METAL SCREWS
33. 3/8"x 2-1/2" LAG BOLTS- QUANTITY AS INDICATED
34. 26 Ga. GALV. METAL 'Z' FLASHING
35. 2x4 FLAT BLOCK BETWEEN STUDS @ HORIZONTAL PANEL SPLICE- NAIL BLOCK TO STUD WITH (2) 16d BOX NAILS EACH END.
36. (2) 2x4 STUDS NAILED TOGETHER WITH 16d BOX NAILS STAGGERED @ 16" O.C. or 4x4 D.F. STUD- TYPICAL @ ALL PANEL JOINTS. ~~SEE SHEET 6 FOR STUDS.~~
37. 26 Ga. GUTTER- SEE ROOF PLAN FOR LOCATION
38. 30# FIBERGLASS BASE SHEET
40. METAL ROOF DECK HOLD DOWN CLIP- CLIPS TO BE INSTALLED WITHIN 6" OF EACH END OF EACH PANEL & 4' O.C. ATTACH CLIPS TO ROOF DECK W/ (3) 1½" x .086ϕ RING SHANK NAILS.
41. 30 Ga. METAL ROOF- SEE NOTE 17:5 FOR MATERIAL SEE SHT. 3 FOR INSTALLATION
42. STEEL PLATE- 1/4"x 12"x 16"
43. STEEL PLATE- 1/4"x 6"x 3"- DRILL (2) 9/16" HOLES
44. L 3"x 3"x 1/4"x 6" LONG. MATCH DRILL TO PAD PLATE AND ANCHOR PLATE.
45. 2x10x24" LONG P.T.D.F.-NUMBER AS NOTED ON DETAIL (2) 1/2" MACHINE BOLTS
46. 2x10 BLOCKS- 24" LONG MIN. NAIL (2) 16d NAILS EA. END OF EA. PIECE & 12" O.C.
47. 2x10 CONT.-NAIL TO EA. SILL PAD W/ (4) 16d NAILS
48. 2x10 CONT.-NAIL (2) 16d NAILS EA. END OF EA. PIECE & 12" O.C.
49. 2x6 CONT.-NAIL TO EA. SILL PAD W/ (2) 16d NAILS
50. PIPE- 1" DIA. SEE NOTE 14:2.
51. LAG SCREWS- 1/2" DIA.
52. 1/4" STIFFENER PLATE
53. 1x2 WOOD TRIM
54. 3/8" PLYWOOD SOFFIT MATERIAL-NORAHPLY. NAIL PLYWOOD W/ 8d BOX NAILS @ 6" O.C. BOUNDARY AND EDGES AND 12" O.C. FIELD.
55. 4x WINDOW HEADER- SEE SHEET 3.
56. ALUMINUM WINDOW FRAME-INSTALL FRAME OVER WATERPROOF BUILDING PAPER AND UNDER EXTERIOR SIDING.

AURORA MODULAR INDUSTRIES
1320 W. Oleander Ave.
Perris, California 92370
Phone • (714) 943-2071

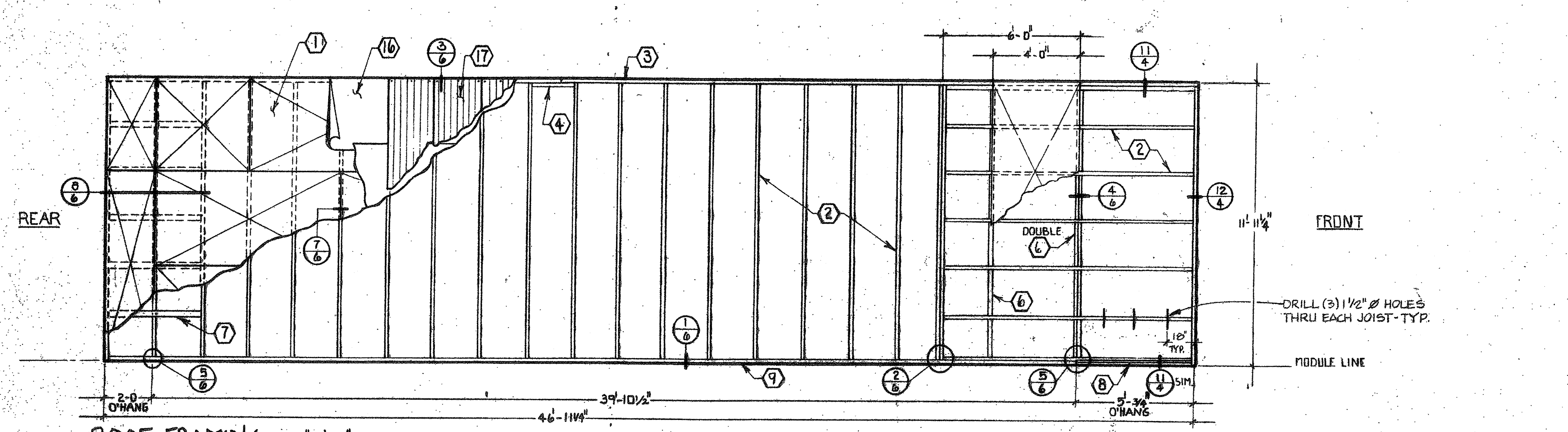
24x40 SHEARWALL
RELOCATABLE CLASSROOM BUILDINGS

TYPICAL DETAILS

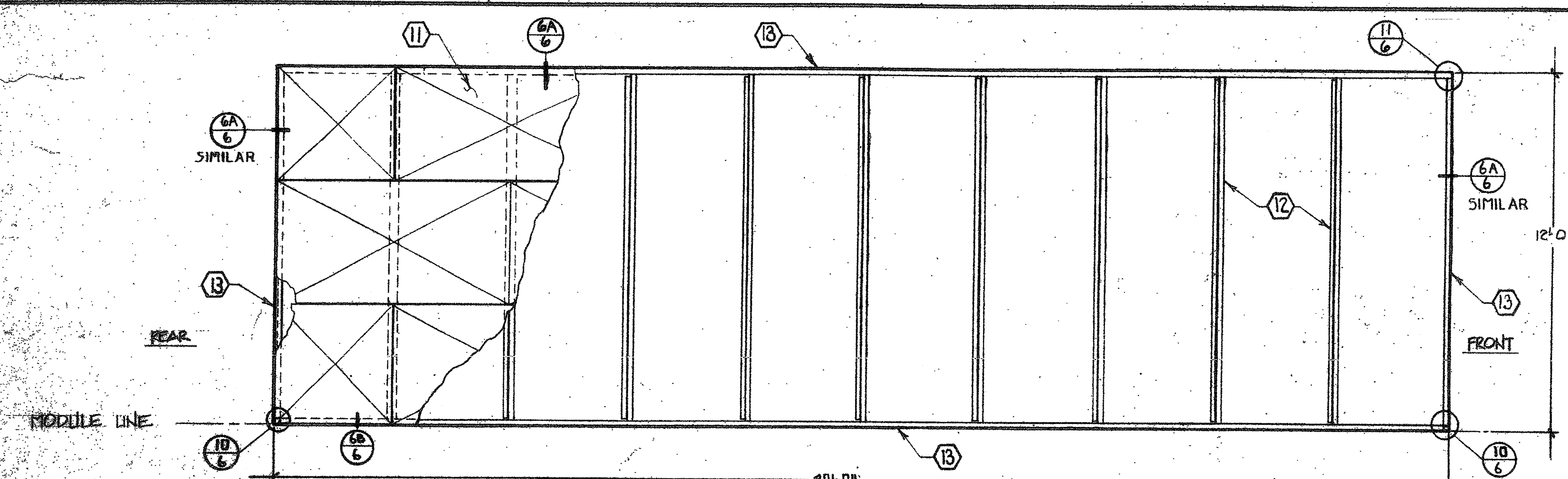
24x40 SHEARWALL

By GWBII Date 6-87

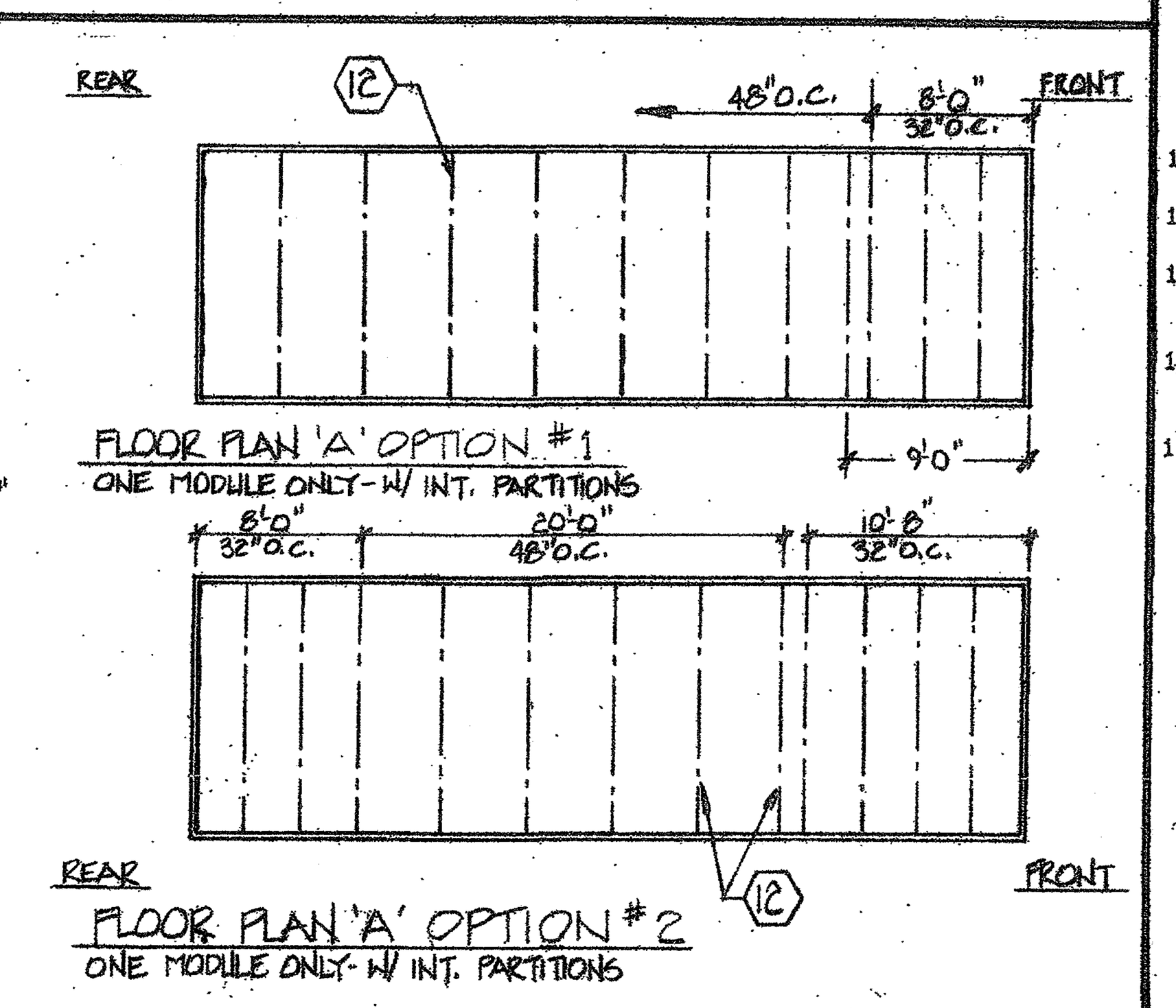
SHEET 4



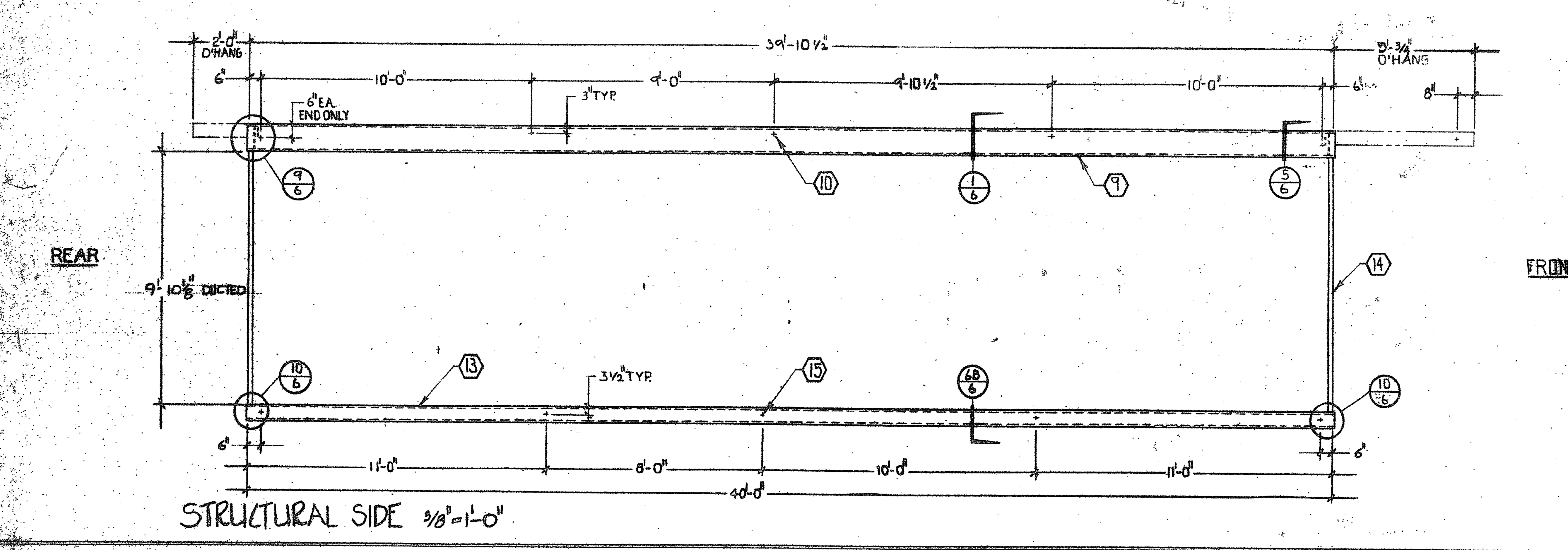
ROOF FRAMING 3/8"=1'-0"



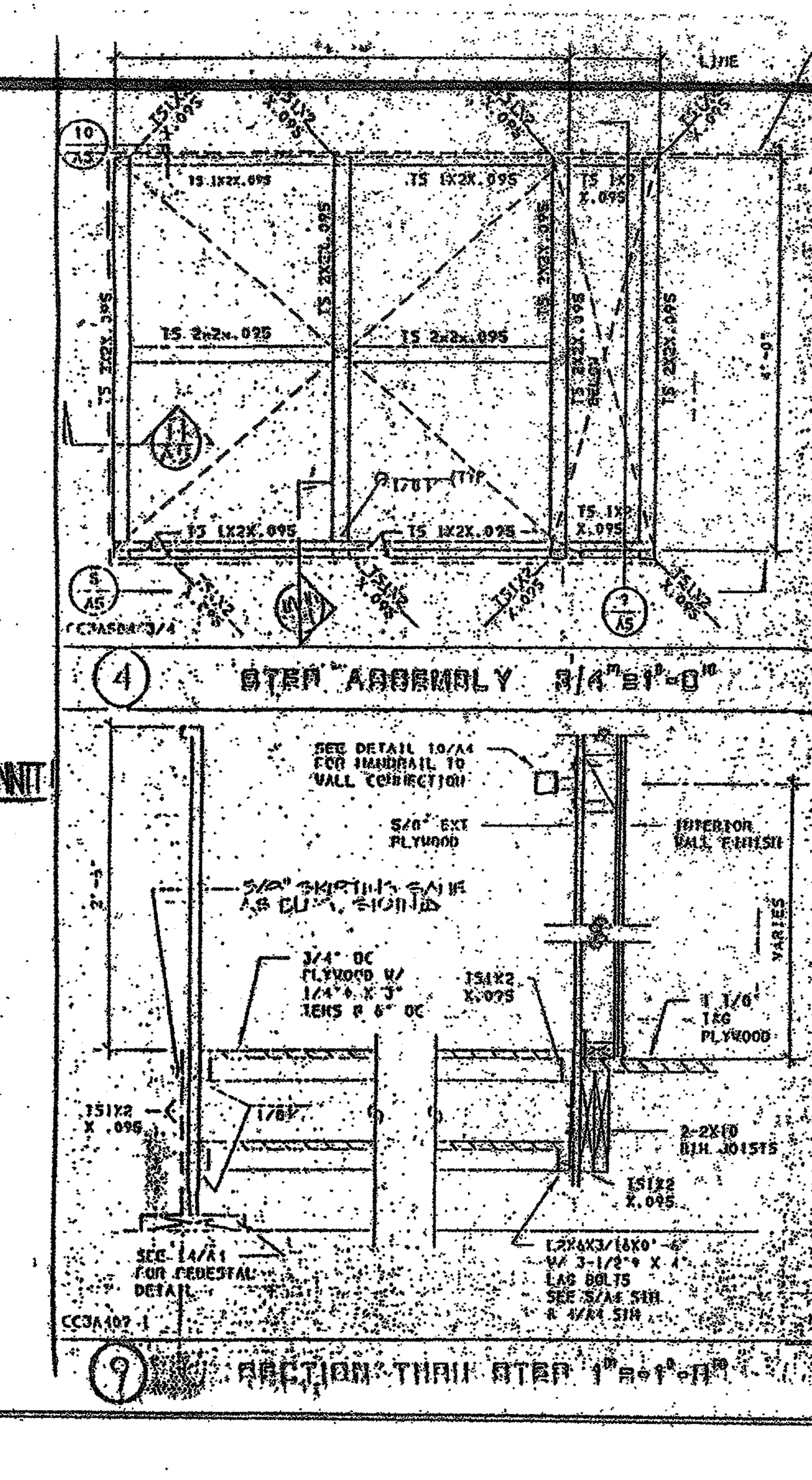
FLOOR FRAMING 3/8"=1'-0"
FLOOR PLAN 'A'



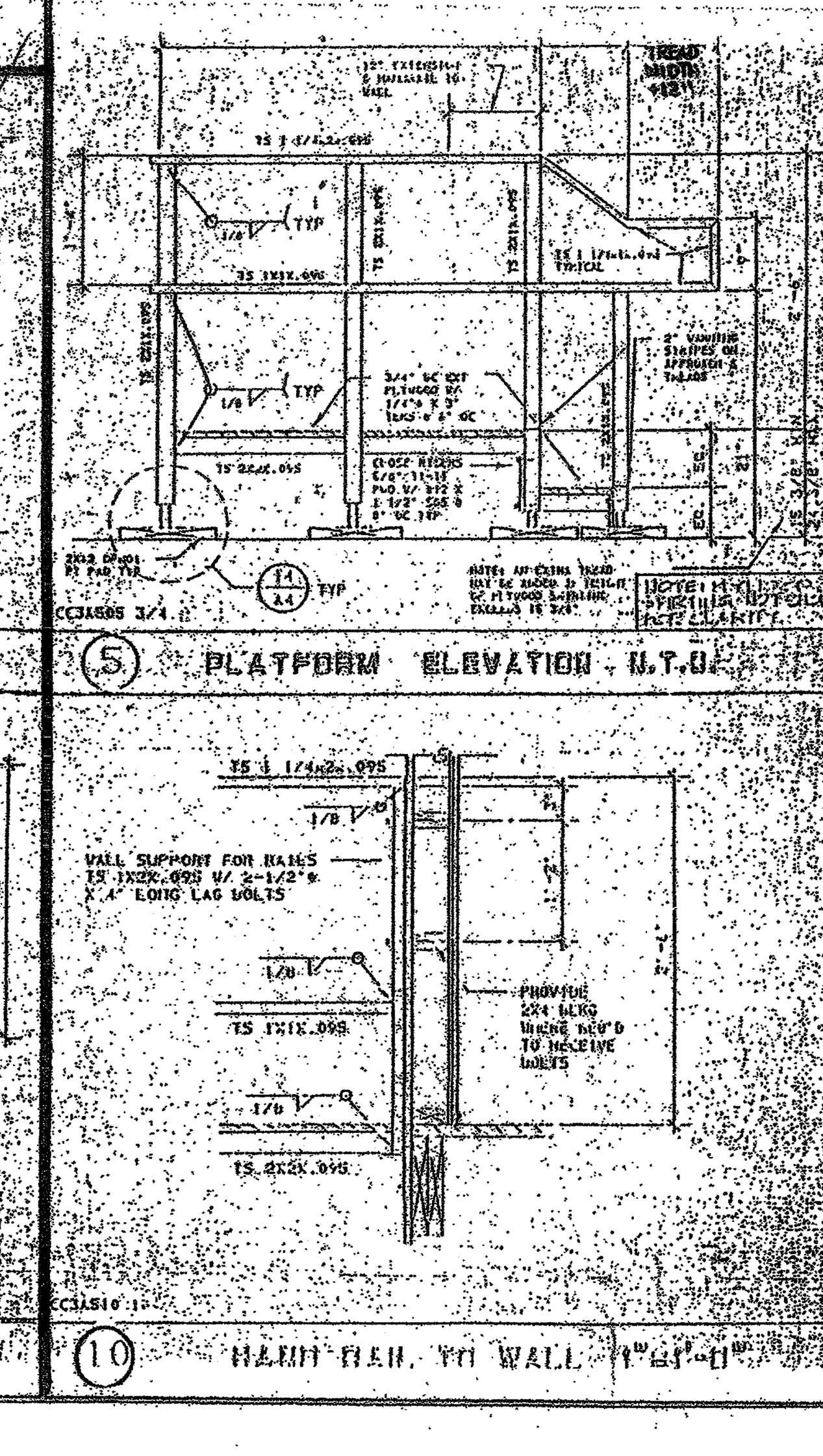
NOTE- SEE SHT 1 FOR FLOOR PLAN CONFIGURATIONS.



STRUCTURAL SIDE 3/8"=1'-0"



4 STAIR ASSEMBLY 3/4"=1'-0"
9 SECTION THRU STAIR 1"=1'-0"



5 PLATFORM ELEVATION N.T.S.
10 HANDRAIL TO WALL 1"=1'-0"

NOTES

1. PLYWOOD ROOF SHEATHING- 1/2" C-D EXPOSURE 1 GLUE, 32/16 INDEX, PS-1-83. ATTACH TO FRAMING WITH CORROSION RESISTANT 8d BOX NAILS @ 6"O.C. BOUNDARY & EDGES, AND 12"O.C. FIELD. ~~ENCLOSE OVERHANG W/ 3/8" PLYWOOD SOFFIT MATERIAL - NO MAH PLY PLYWOOD.~~
2. ROOF JOIST- 2x6 D.F. #2 @ 24" O.C.
3. RIM JOIST- 2x6 D.F. #2. END NAIL TO ROOF JOISTS WITH (3) 16d BOX NAILS.
4. RIM JOIST SPLICE- 2x6 BLOCK WITH (7) 16d NAILS BOTH SIDES OF SPLICE. HANG ROOF JOISTS FROM SPLICE PLATE WITH 'SIMPSON' U26.
5. DOUBLE JOIST- (2) 2x6 D.F. #2. NAIL TOGETHER WITH 16d BOX NAILS STAGGERED @ 24" O.C. AND (2) 16d NAILS @ ENDS. HANG BUTTING JOISTS WITH 'SIMPSON' U-26 JOIST HANGERS.
6. SOLID BLOCKING- 2x6 TIGHTLY FITTED BETWEEN JOISTS WITH 'SIMPSON' A-35 CLIPS TO TOP PLATE-(1) PER BLOCK. NAIL ROOF SHEATHING TO BLOCKS PER NOTE #1 EDGE NAILING.
7. FLAT 2x4 JOISTS @ OVERHANG @ 24" O.C. D.F. #2
8. FILLERS- 2x6 JOISTS AS REQUIRED.
9. RIDGE BEAM- [12"x 20.7
10. BOLTS- 1/2" DIA. MACH. BOLT @ MODULE CONN. SEE DETAIL 1:6.
11. PLYWOOD FLOOR SHEATHING- 1-1/8" 2-4-1 PS-1-83 T & G. ATTACH TO STEEL FRAMING WITH #10x 1-3/4" SELF TAPPING FLAT HEAD SCREWS @ 6"O.C. BOUNDARY & EDGES, AND 10"O.C. FIELD
12. FLOOR JOISTS- Z 7"x 11 Ga. @ 48" O.C. (UNLESS OTHERWISE NOTED) IF REQUIRED FOR TRANSPORTATION, REPLACE (2) FLOOR JOISTS WITH (2) PIECES [7"x 9.8 CHANNEL FOR AXLE TRUCK ATTACHMENT. WELD CHANNELS TO PERIMETER FRAME WITH 3/16" FILLET WELD FULL HEIGHT OF WEB.
13. [7"x 9.8 PERIMETER FRAME
14. COLUMN- 2"x2"x3/16" STEEL POST
15. BOLTS-1/2" DIA. MACH. BOLTS @ MODULE CONN. SEE DETAIL 6:2.
16. 30# FIBERGLAS PLY SHEET STAPLED TO PLYWOOD DECK. LAP SHEETS 2" AT EDGES AND 6" AT ENDS.
17. 30 Ga. RIBBED INTERLOCKING ROOF PANELS. ATTACH TO PLYWOOD DECK WITH #10 x 1" SCREWS.

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AURORA
MODULAR INDUSTRIES
1320 W. Oleander Ave.
Perris, California 92570
Phone • (714) 943-2071

ROOF FRAMING, FLOOR FRAMING & STRUCTURAL SIDE

SHEET
5

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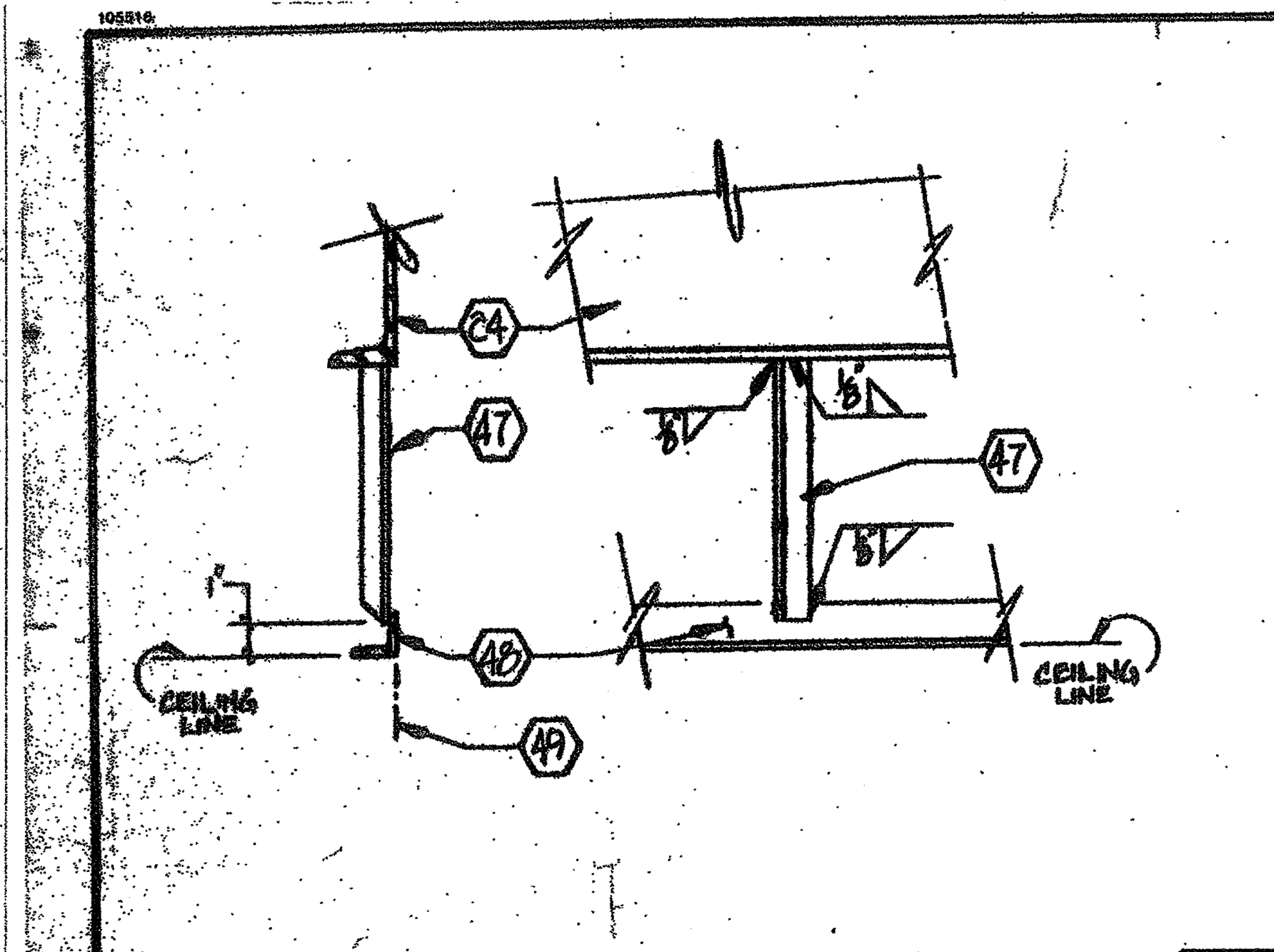
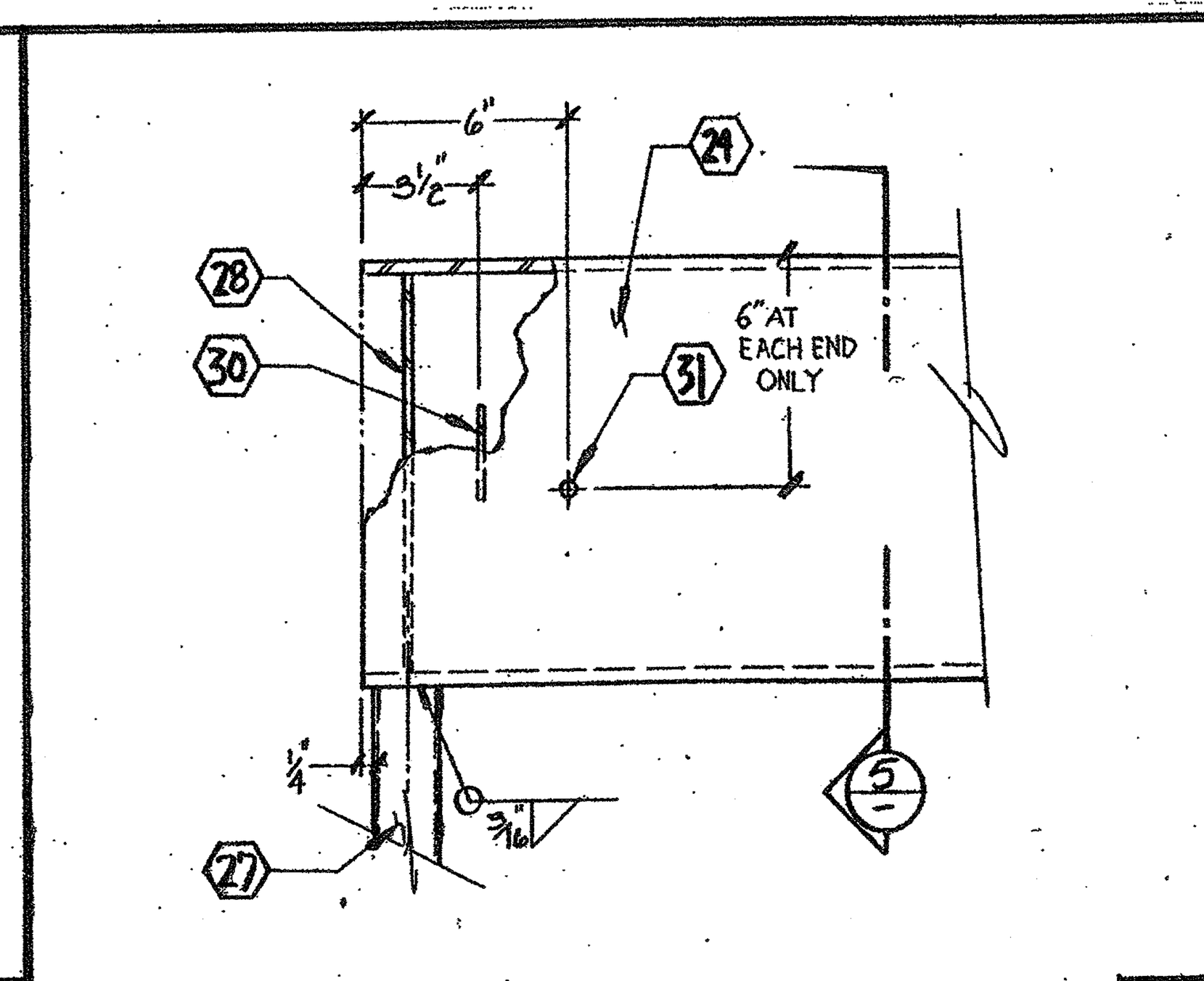
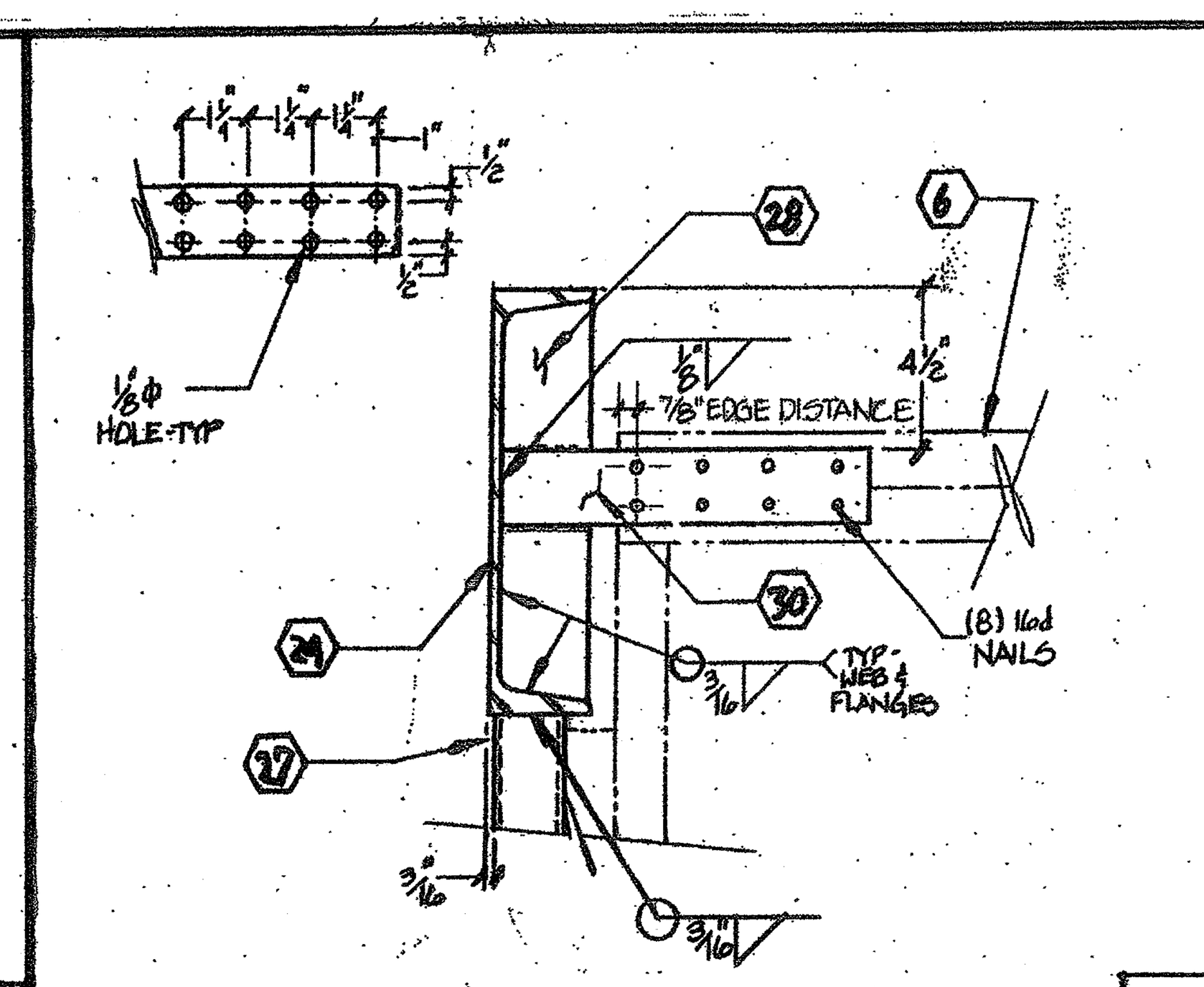
DATE OCT 19 2011



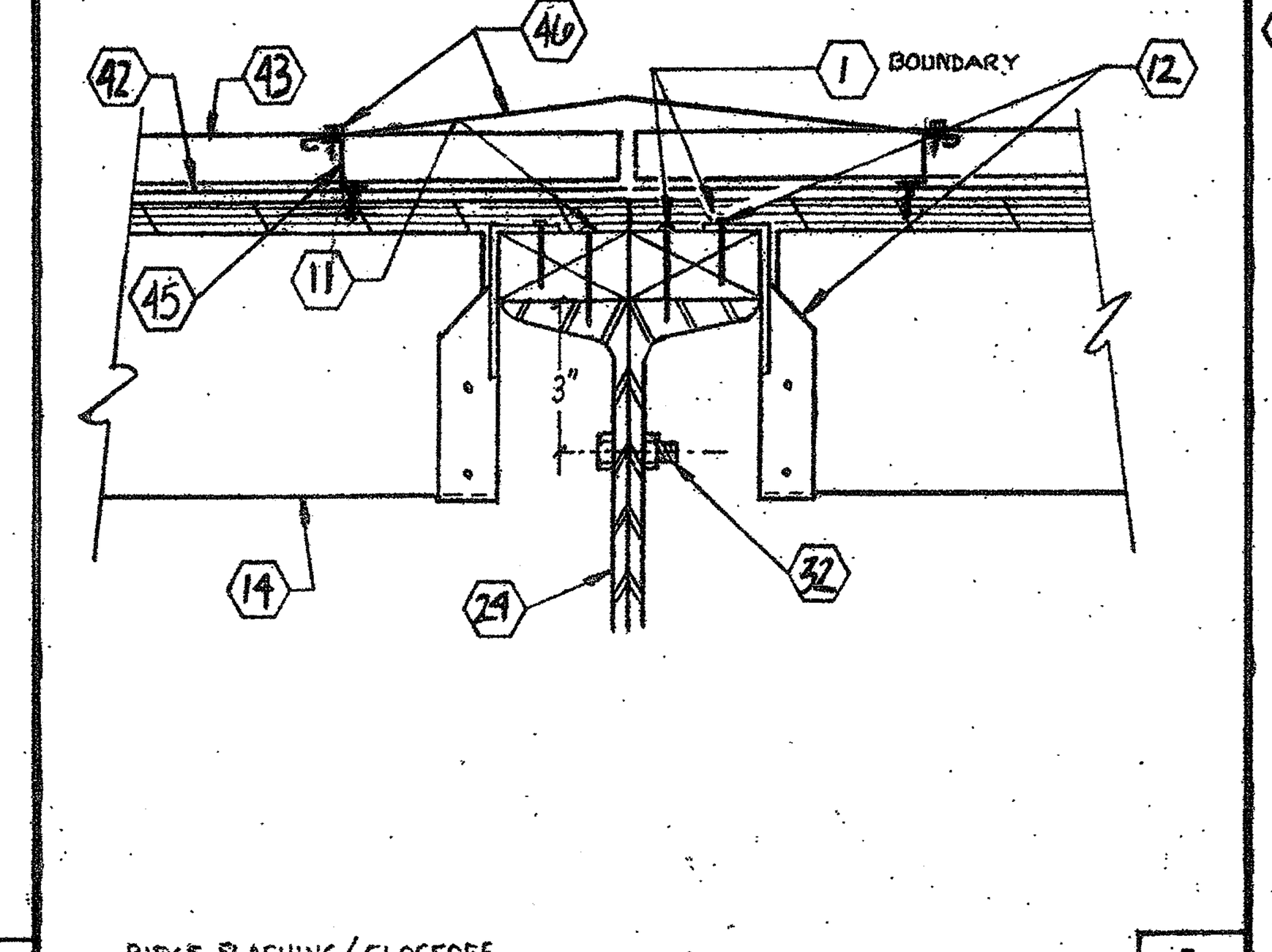
SUPPORT ANGLE ASSY 13



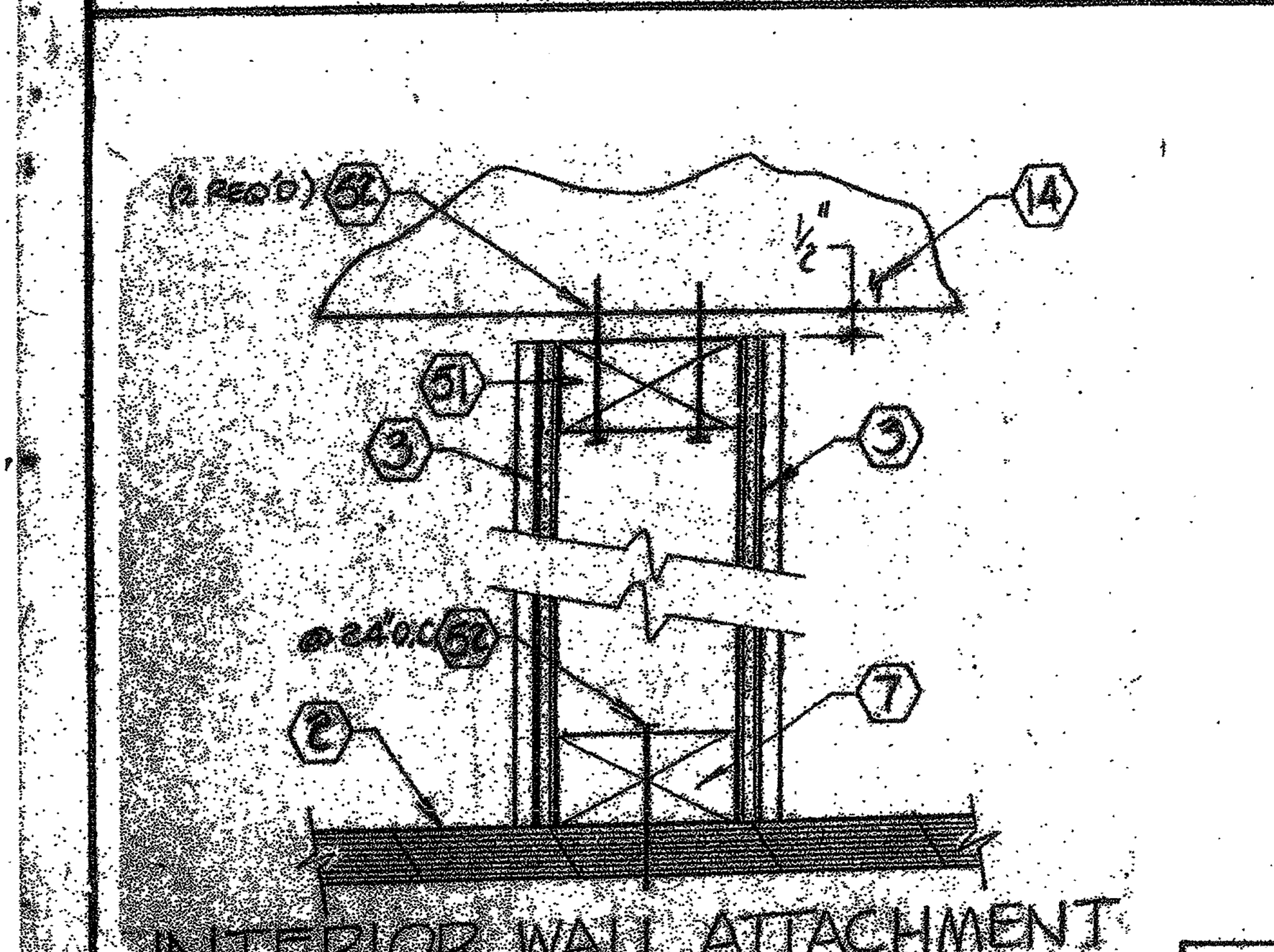
POST CONN. @ ROOF 9



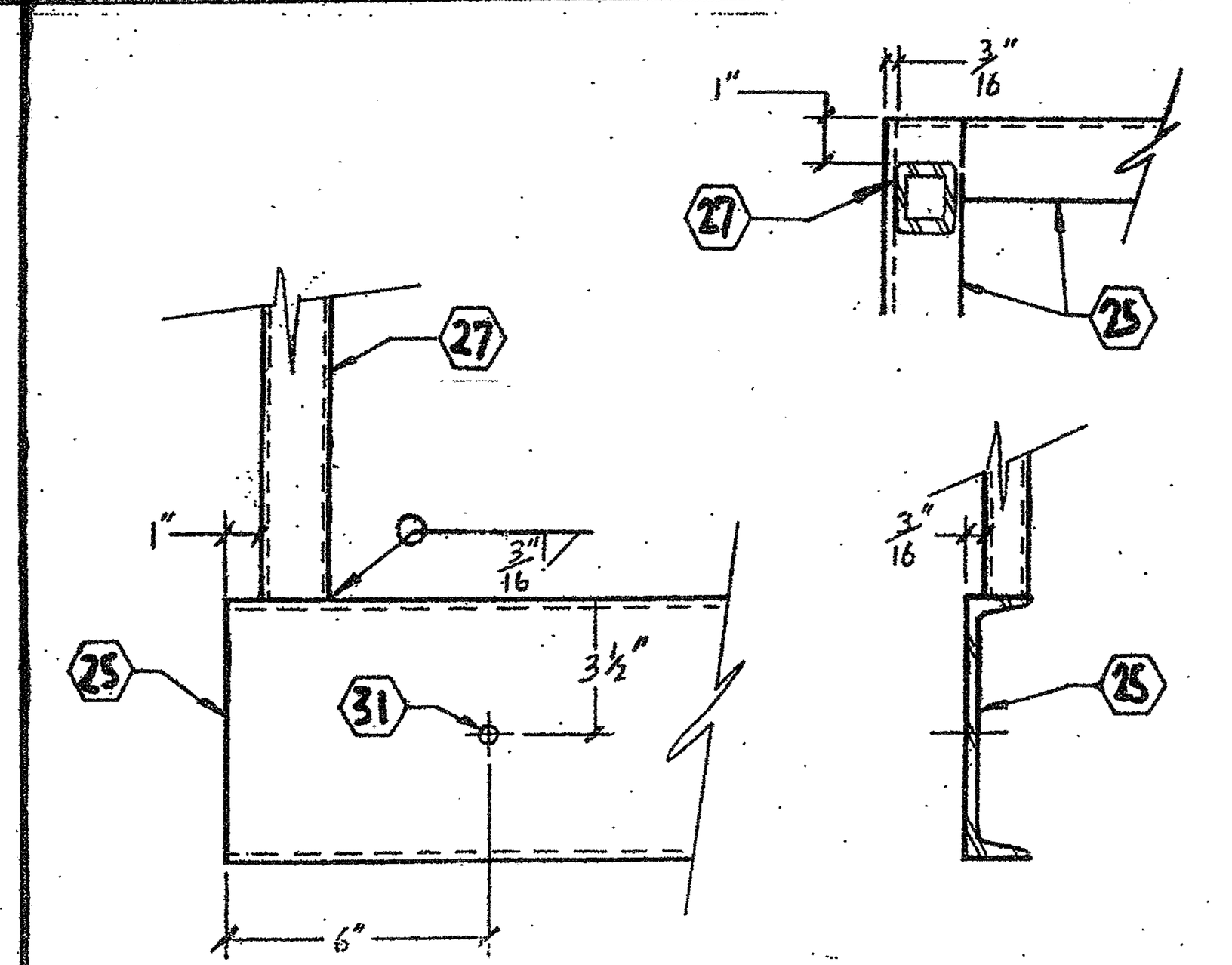
TIE STRAP 5



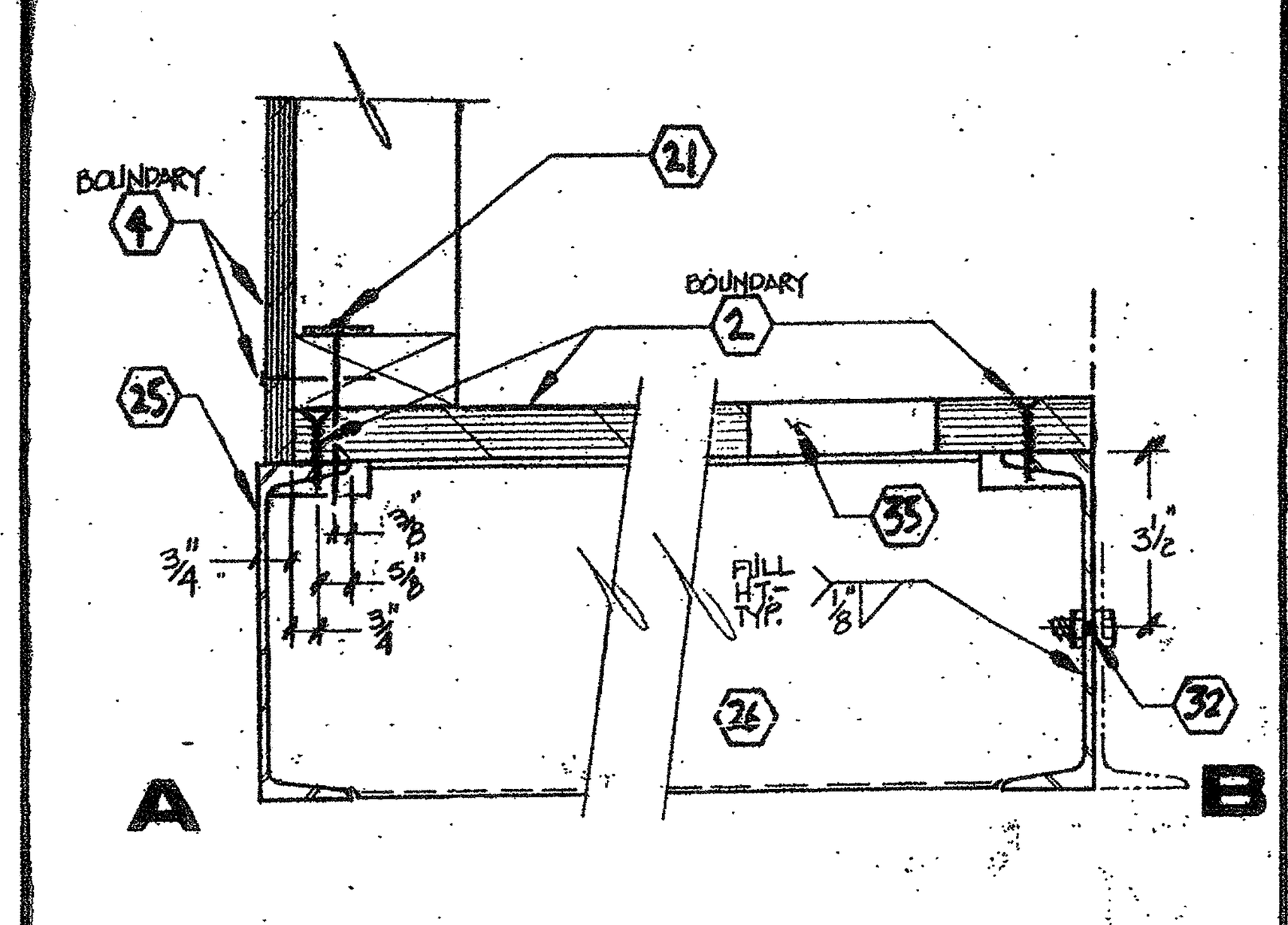
MODULE CONN. @ ROOF 1



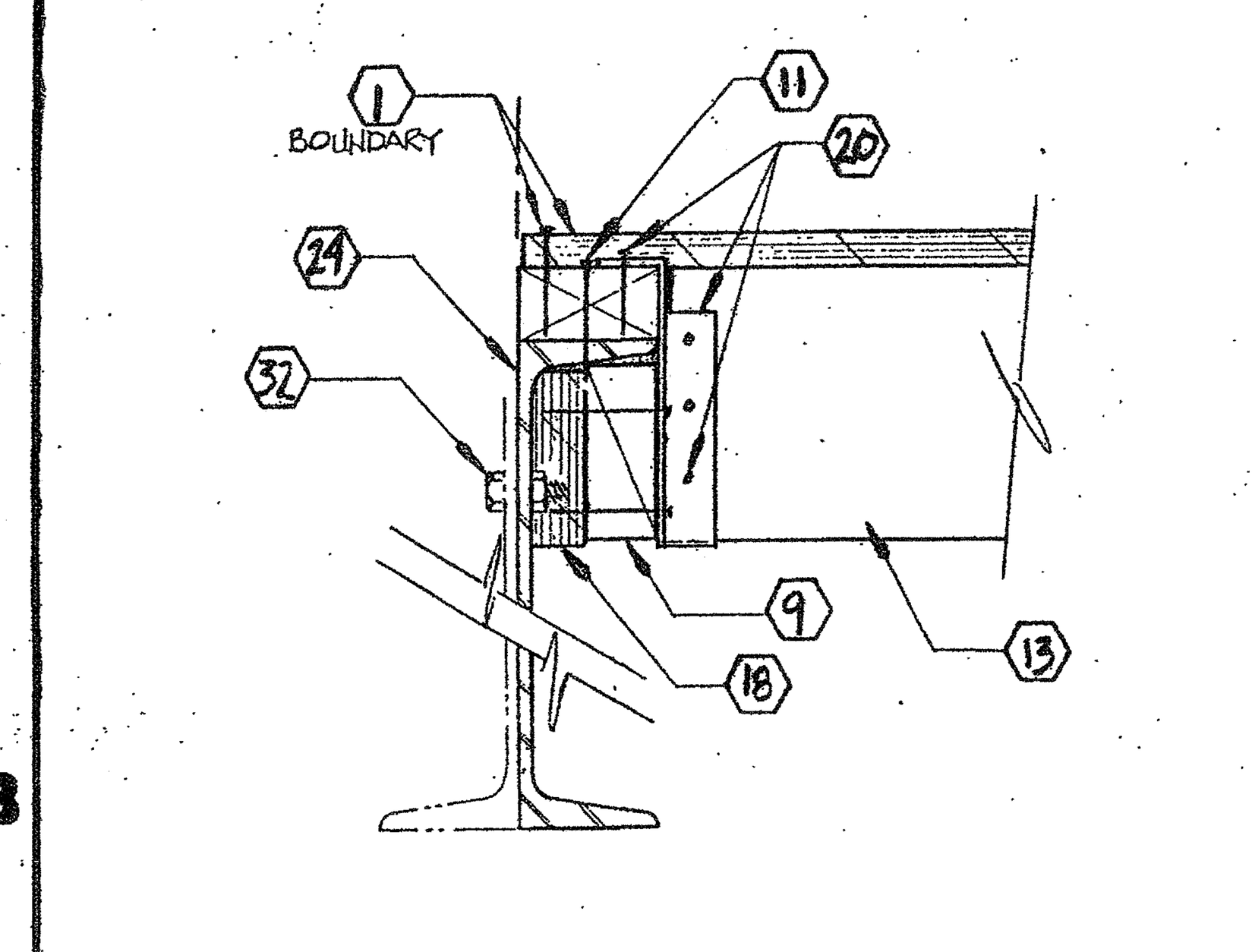
INTERIOR WALL ATTACHMENT 14



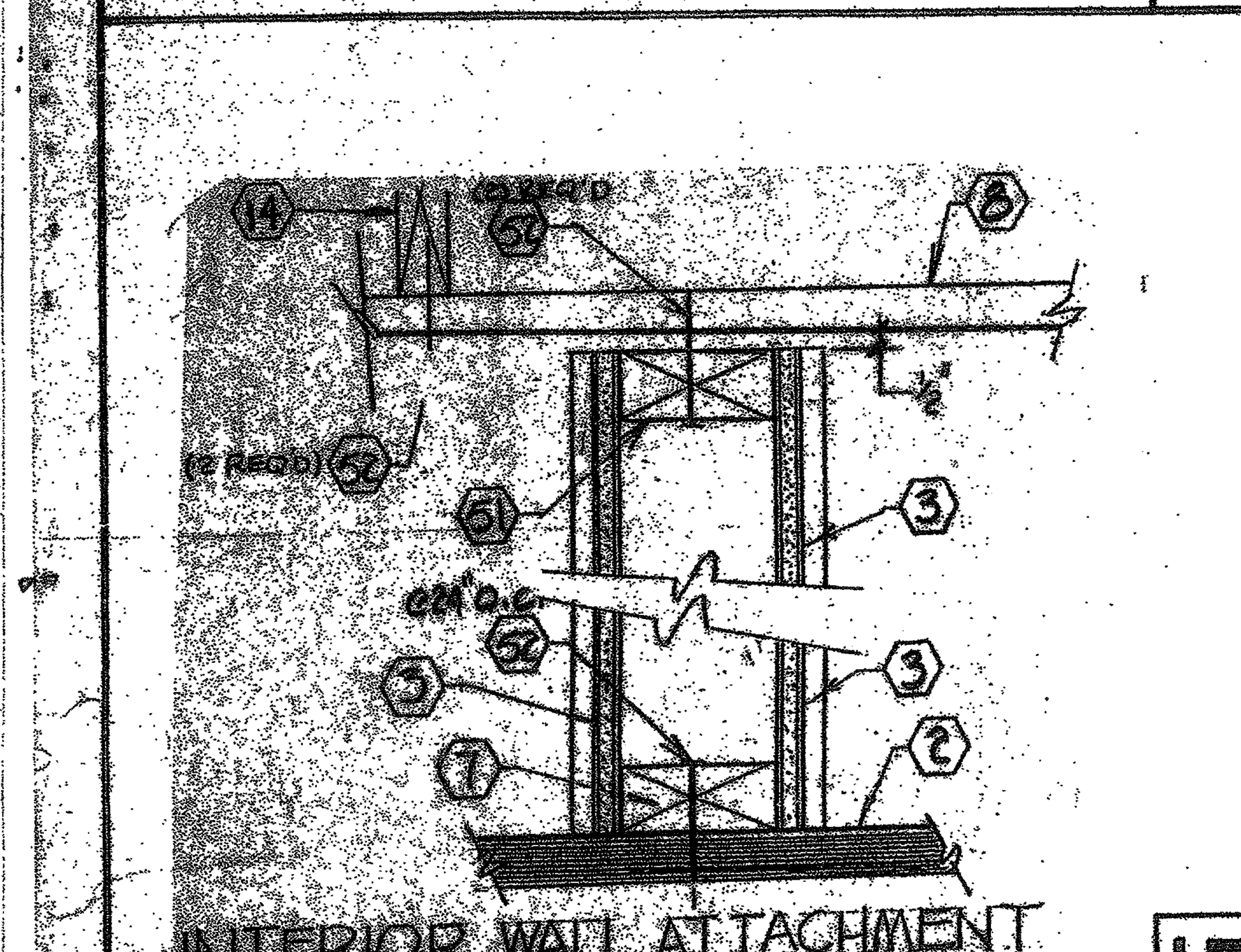
POST CONN @ FLOOR 10



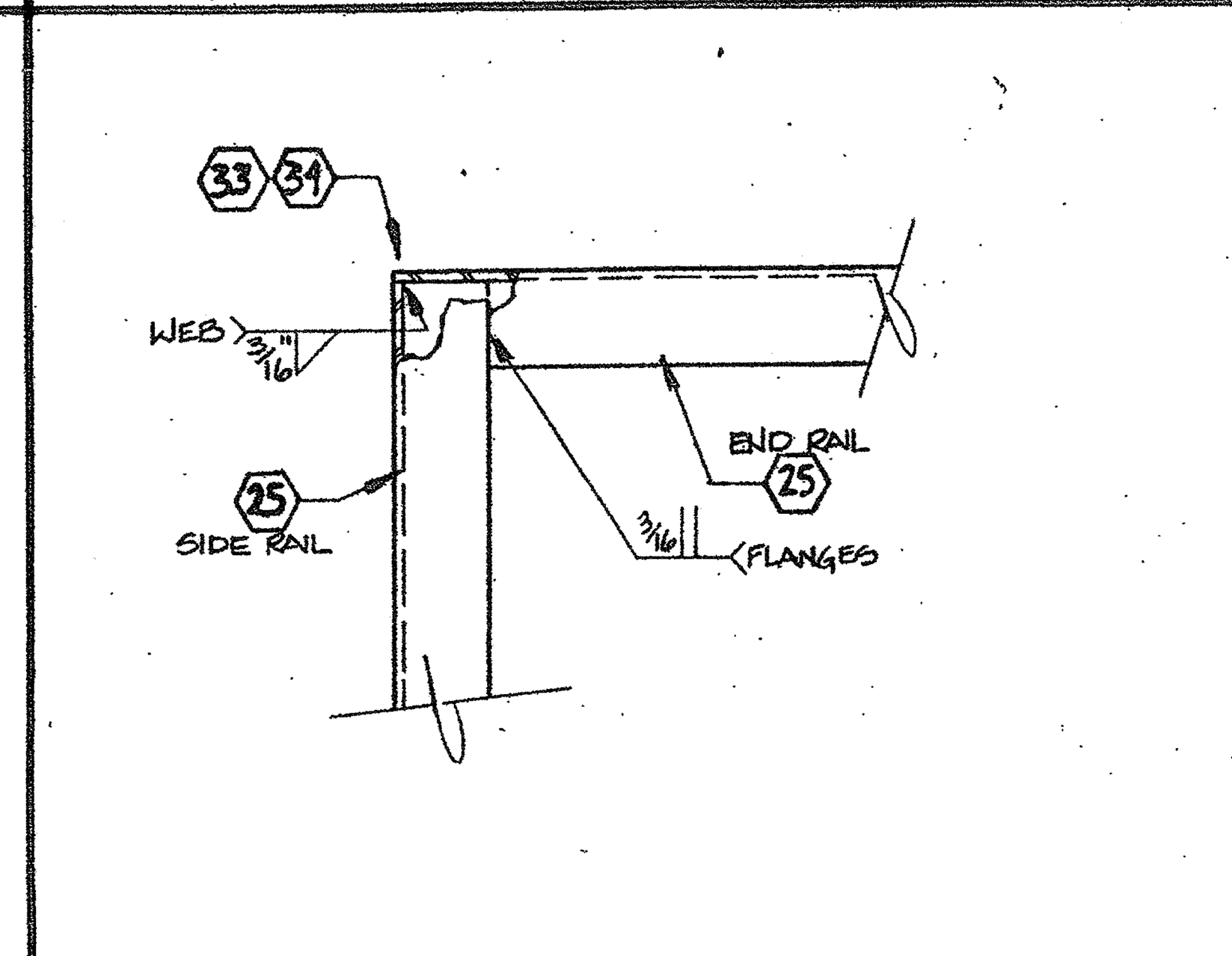
PERIMETER FLOOR 6



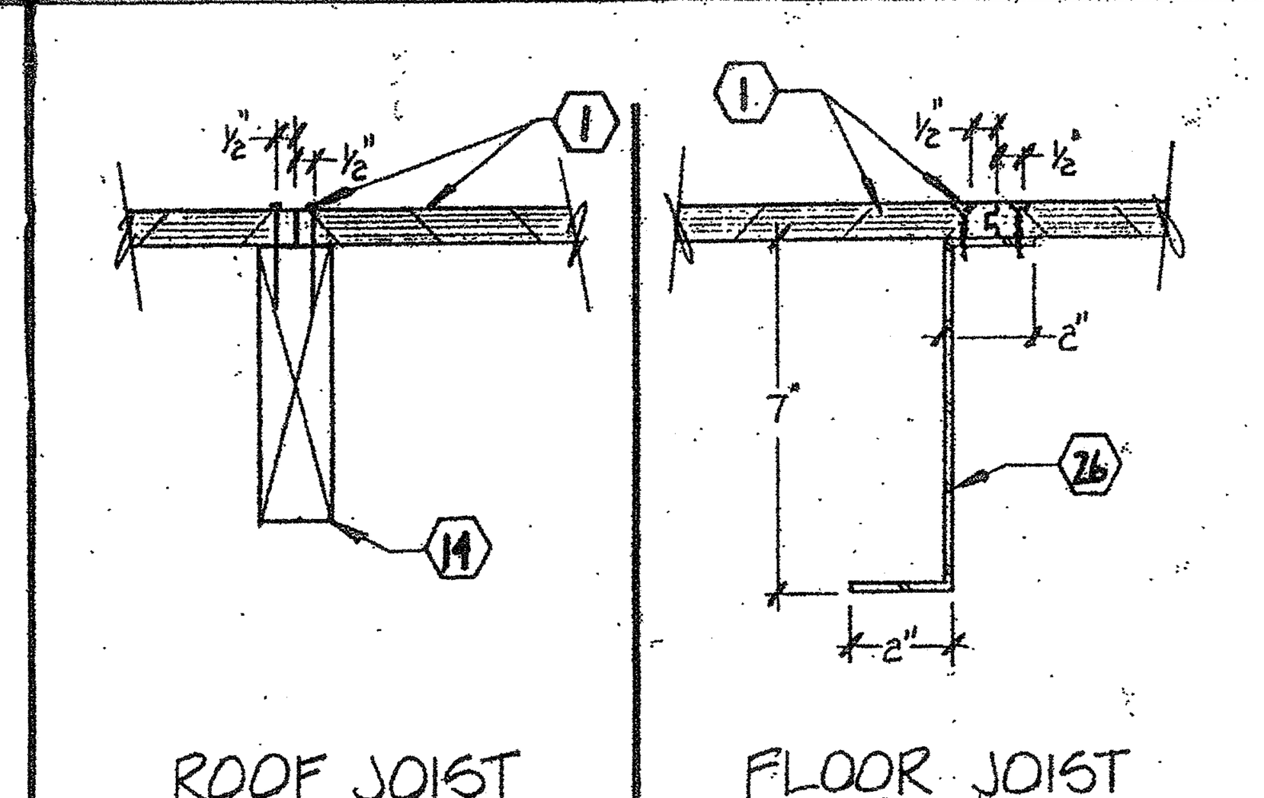
DOUBLE JOISTS 2



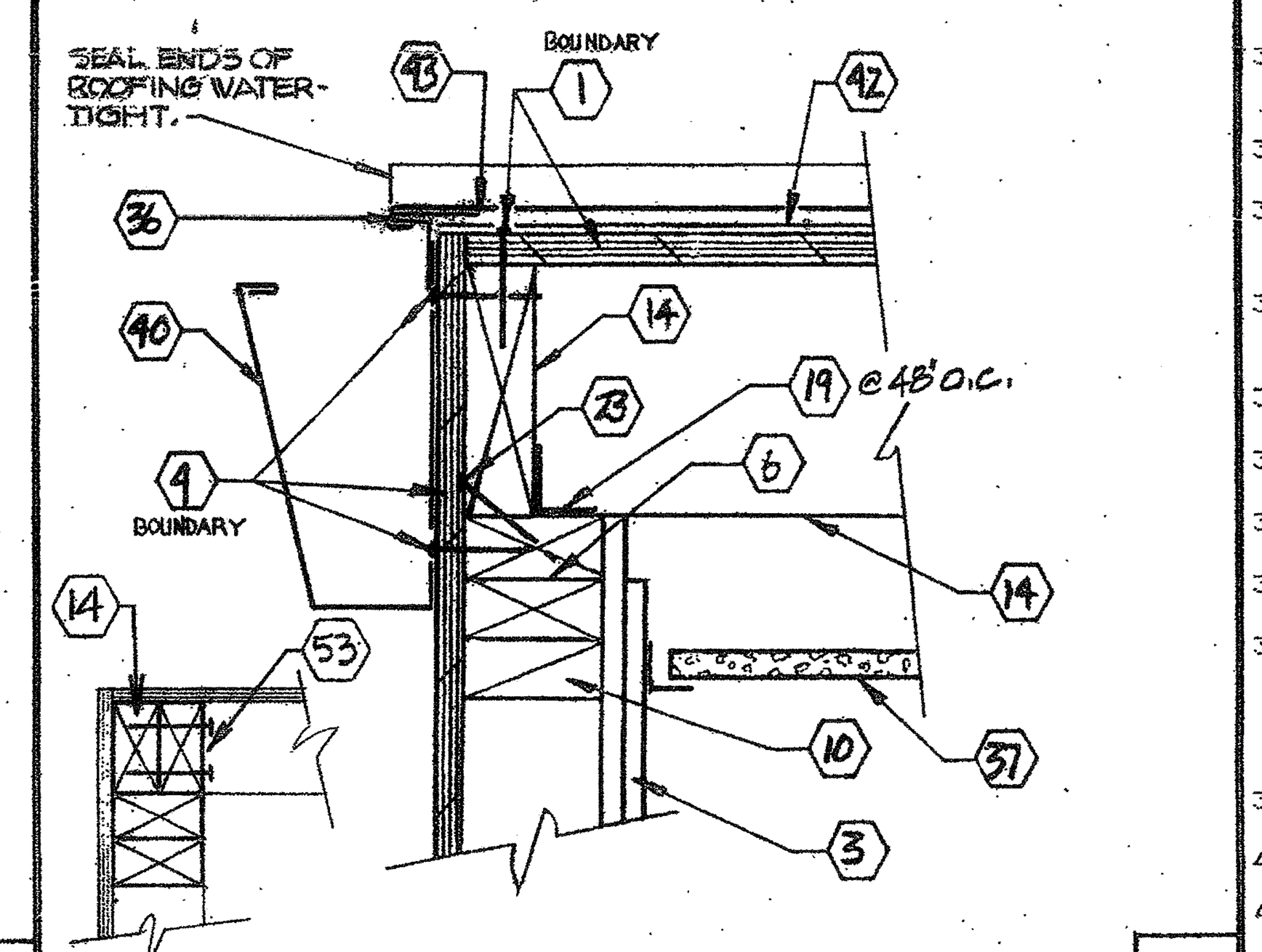
INTERIOR WALL ATTACHMENT 15



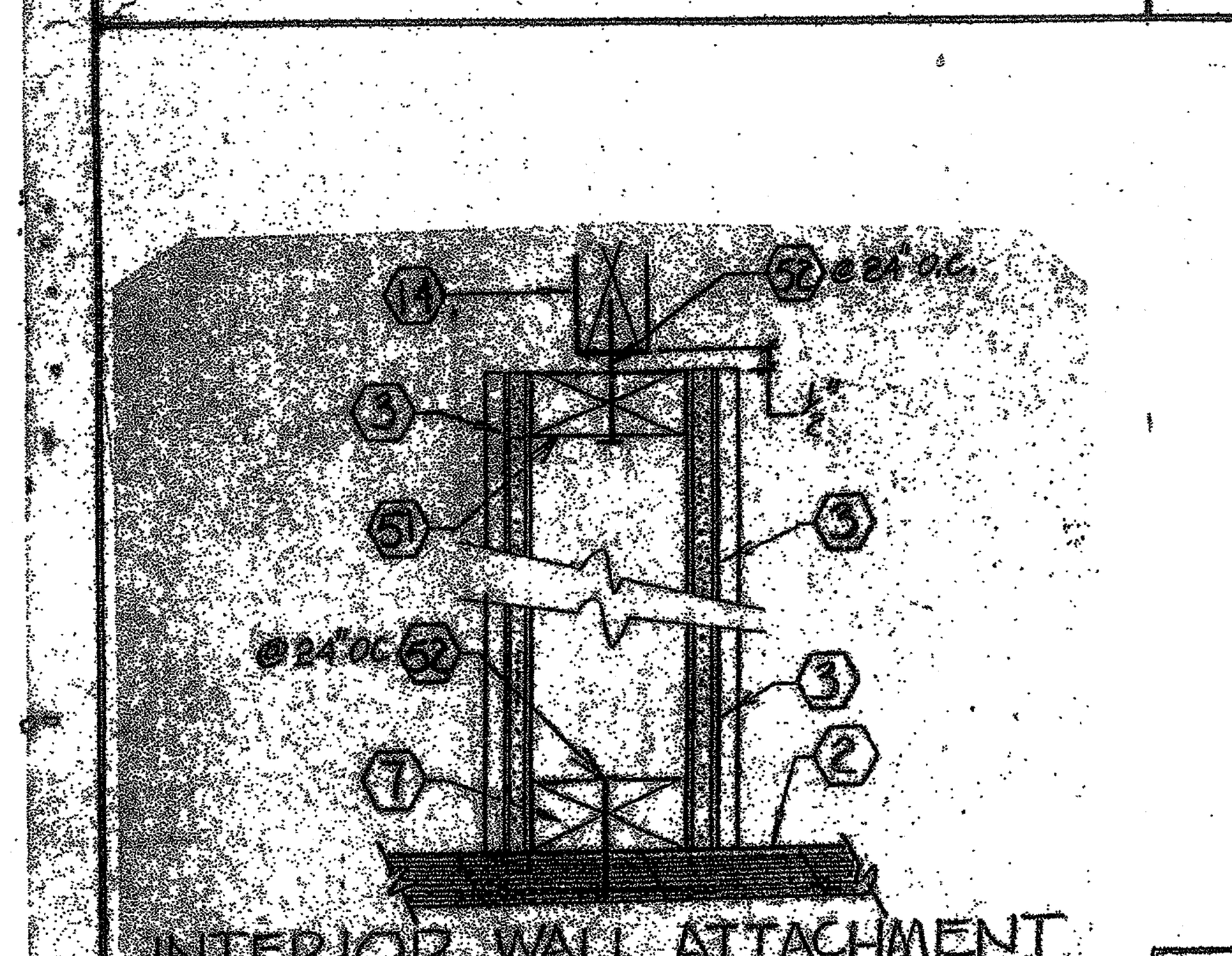
PERIMETER FRAME @ CORNER 11



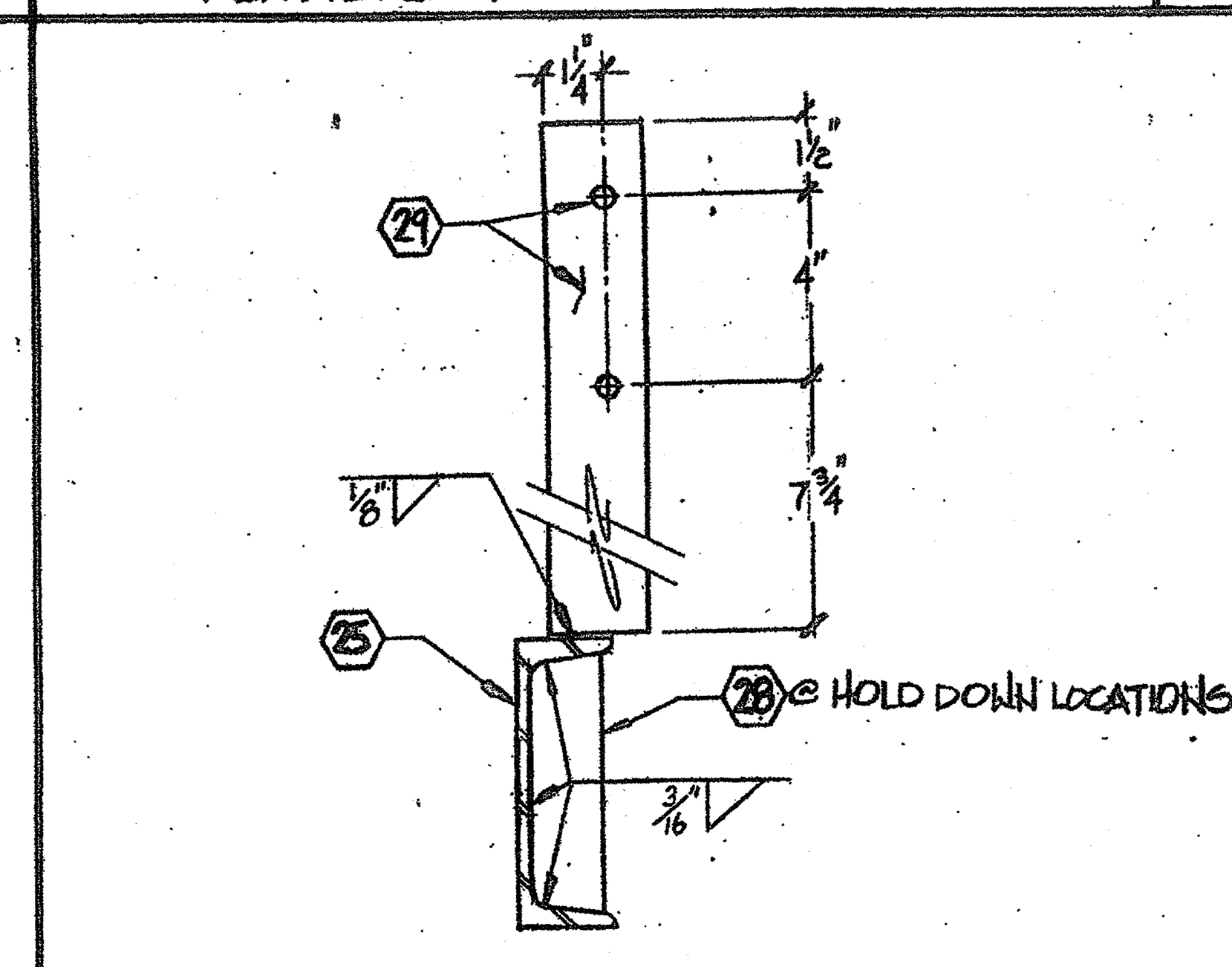
TYPICAL JOISTS 7



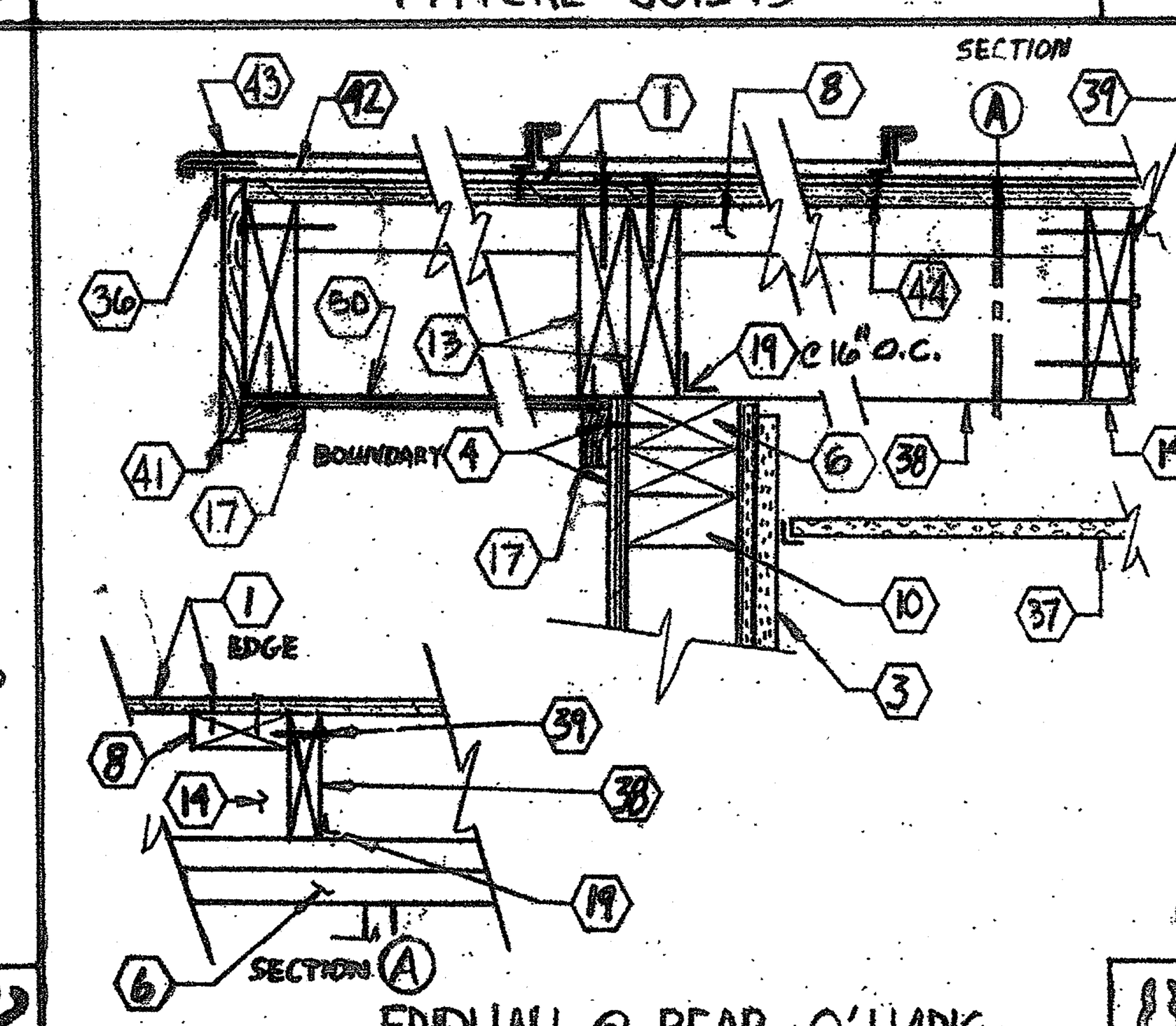
SIDEWALL @ ROOF 3



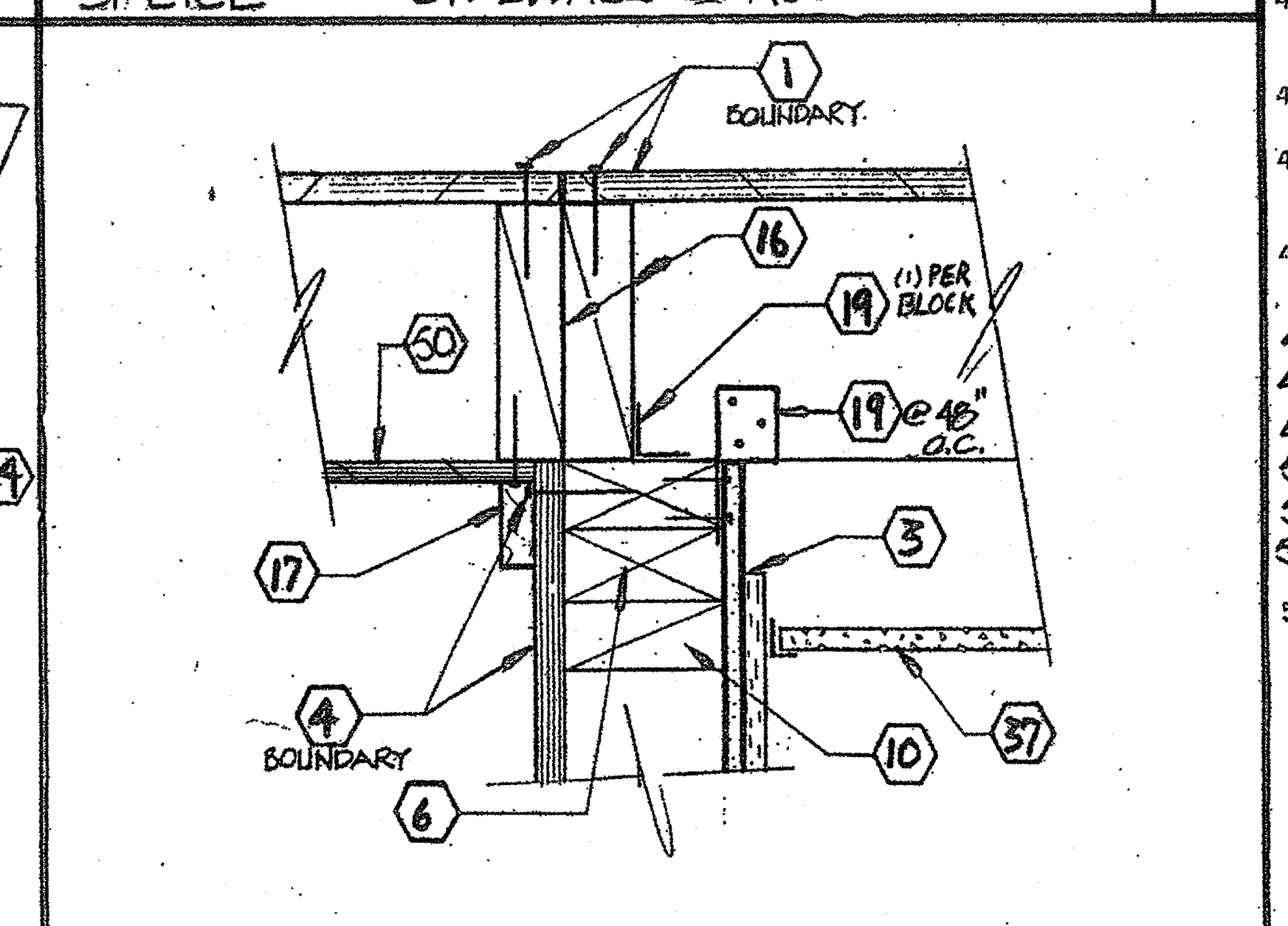
INTERIOR WALL ATTACHMENT 16



HOLD DOWN 12



ENDWALL @ REAR O'HANG 8



ENDWALL @ FRONT O'HANG 4

NOTES

1. PLYWOOD ROOF SHEATHING- SEE NOTE 1:5
2. PLYWOOD FLOOR SHEATHING- SEE NOTE 11:5
3. TYPICAL INTERIOR FINISH- SEE NOTE 2:1
4. TYPICAL EXTERIOR FINISH- SEE NOTE 10:3
5. SEALANT
6. DOUBLE 2x4 TOP PLATE
7. 2x4 BOTTOM PLATE
8. 2x4 FLAT @ 24" O.C.
9. 2x 4x 12 " BLOCK
10. 2x4 BLOCK BETWEEN STUDS AS REQUIRED FOR CEILING ATTACHMENT.
11. 1-1/2"x 3" NAILER WITH 'HILTI' DS 62 P10 or 'RAMSET' 3337X @ 24" O.C.
12. 'SIMPSON' LB26 JOIST HANGER OR EQUAL W/(4) 9 Ga. x 1-1/2" NAILS INTO NAILER & (2) 9 GA. x 1½" NAILS INTO JOIST.
13. DOUBLE 2x6 ROOF JOIST
14. ROOF JOIST- 2x6 D.F. #2
15. RIM JOIST- 2x6 D.F. #2
16. 2x6 SOLID BLOCKING BETWEEN JOISTS
17. 1x2 TRIM
18. PLYWOOD FILLER AS REQUIRED
19. 'SIMPSON' A-35 FRAMING ANCHOR
20. 'KC 'METALS HDTF 26-2 DBL JOIST HANGER WITH (6) 16d NAILS INTO JOIST AND (6) 16d NAILS INTO BLOCK & NAILER.
21. BOTTOM PLATE ATTACHMENT WITH 'HILTI' DS 82-P10 WITH WASHER or 'RAMSET' 3330X WITH WASHER ~~SEE SHEET 3~~ FOR SPACING & WITHIN 6" OF EACH END OF EACH PIECE.
22. (2) 16d NAILS INTO 2x4 FLAT- TYP EA. END
23. 16d NAILS @ 10" O.C.
24. [12"x 20.7# RIDGE BEAM W/ 1" CAMBER
25. [7"x 9.8# PERIMETER FRAME
26. Z 7"x 11 Ga. STEEL JOIST
27. STEEL COLUMN- 2"x 2"x 3/16" TUBE
28. 1/4" STIFFENER
29. 1/8"x 2-1/2"x 13-1/4" STEEL HOLD DOWN STRAP WITH (2) 11/16" DIA. HOLES FOR 5/8" DIA. MACHINE BOLTS
30. 1/8"x 2-1/2"x 12" STEEL STRAP WITH (8) 1/8" DIA. HOLES FOR 16d BOX NAILS.
31. 9/16" HOLE FOR 1/2" MACHINE BOLT
32. 1/2" MACHINE BOLT @ MODULE CONN. SEE SHT 5 FOR LOCATIONS.
33. PERIMETER FRAME- GRIND WELDS ON EXPOSED FACES SMOOTH.
34. COPE [7" SIDE CHANNEL INTO END CHANNEL
35. 5" DIA. ACCESS HOLE IN FLOOR @ BOLT LOCATIONS.
36. GALVANIZED METAL FLASHING
37. SUSPENDED CEILING- SEE SHEET 7
38. 2x6 BLOCK BETWEEN JOISTS @ 4'0" O.C. WITH (3) 16d BOX NAILS EA. END AND (1) A-35 FRAMING ANCHOR FROM BLOCK TO ENDWALL. BLOCKS OCCUR AT PLYWOOD ROOF DECK PANEL JOINTS ONLY.
39. (3) 16d BOX NAILS INTO 2x4 FLAT
40. 26 Ga. GUTTER- SEE ROOF PLAN FOR LOCATION
41. 2x8 FASCIA
42. 30# ASPHALT FELT
43. 30 Ga. INTERLOCKING ROOF PANELS- SEE NOTE 17:5 FOR ATTACHMENT
44. METAL ROOF HOLDDOWN ~~CLIP~~- SEE NOTE 40:4
45. RIDGE FLASHING @ MODULE CONN.- ATTACH TO ROOF DECK WITH #10x 5/8" FLAT HD WOOD SCREWS @ 24"O.C.
46. CLOSE OFF CAP- ATTACH TO RIDGE FLASHING WITH #8 SHEET METAL SCREWS @ 24" O.C. ~~SCREWS TO HAVE NEOPRENE WASHER.~~
47. L 1½"x 1½"x ⅛" @ 8'-0" O.C.
48. L 2"x 2"x ⅛" CONTINUOUS
49. MODULE LINE
50. SOFFIT MATERIAL- SEE NOTE 54:4
51. 2x4 TOP PLATE
52. 16d BOX NAIL
53. SPLICE BLOCK-2 x 6 BLOCK W/7 16d BOX NAILS EACH END/SPLICE.

OSA
OFFICE OF THE STATE ARCHITECT STRUCTURAL SAFETY SECTION
A51667 MAR 22 1989
APPROVED APPLICATION NO.

ACS

FIRE MARSHAL

REGISTERED PROFESSIONAL ENGINEER STRUCTURAL STATE OF CALIFORNIA No. 776

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP03 119149
AC ✓ FLS ✓ CBS ✓
DATE JAN 7 2019

URORA
MODULAR INDUSTRIES
1320 W. Oleander Ave.
Perris, California 92370
Phone (714) 943-2071

24x40 SHEARWALL RELOCATABLE CLASSROOM BUILDINGS

TYPICAL DETAILS

By | Date

SHEET
6

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APP03 1 1 3 0 5 8
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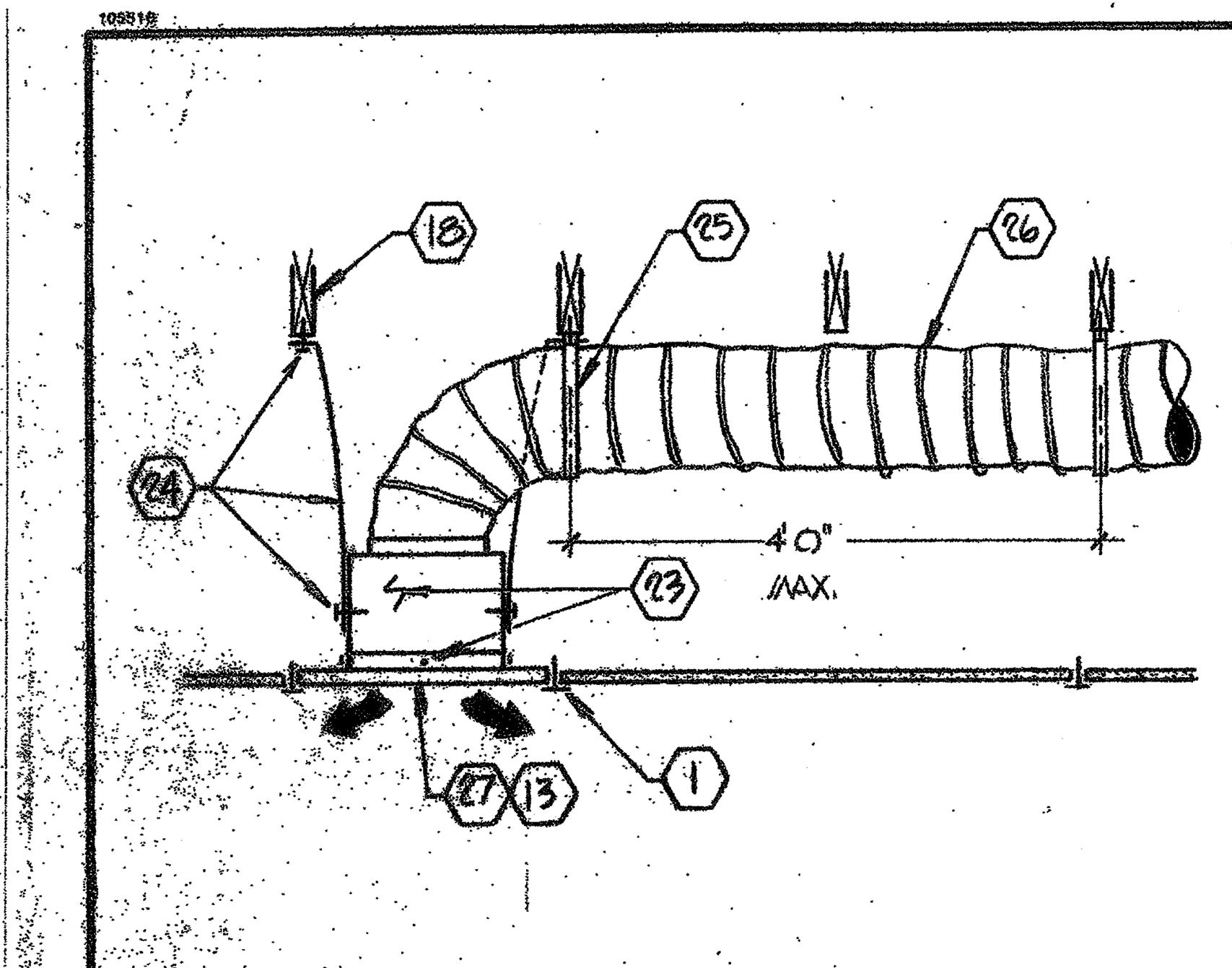
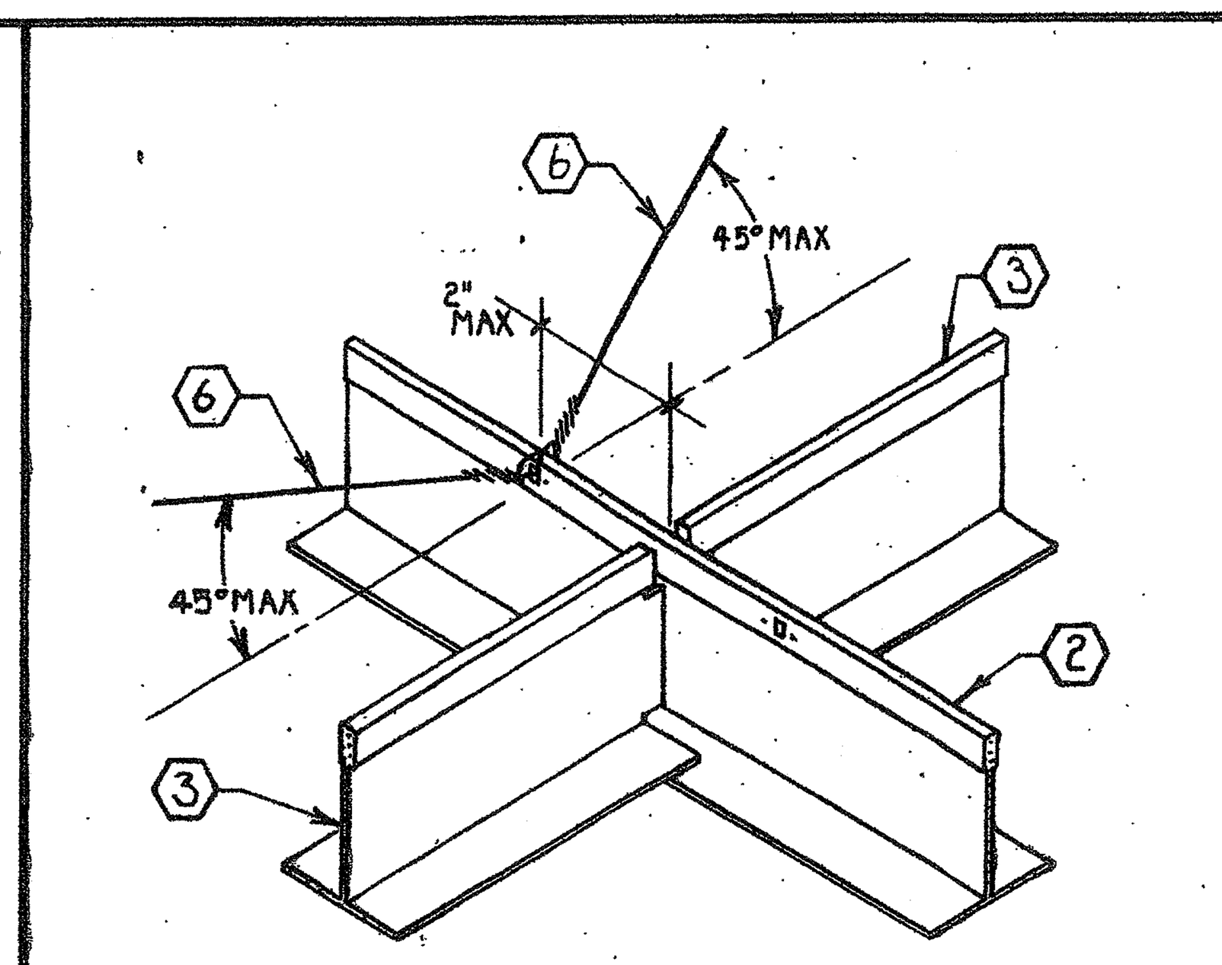
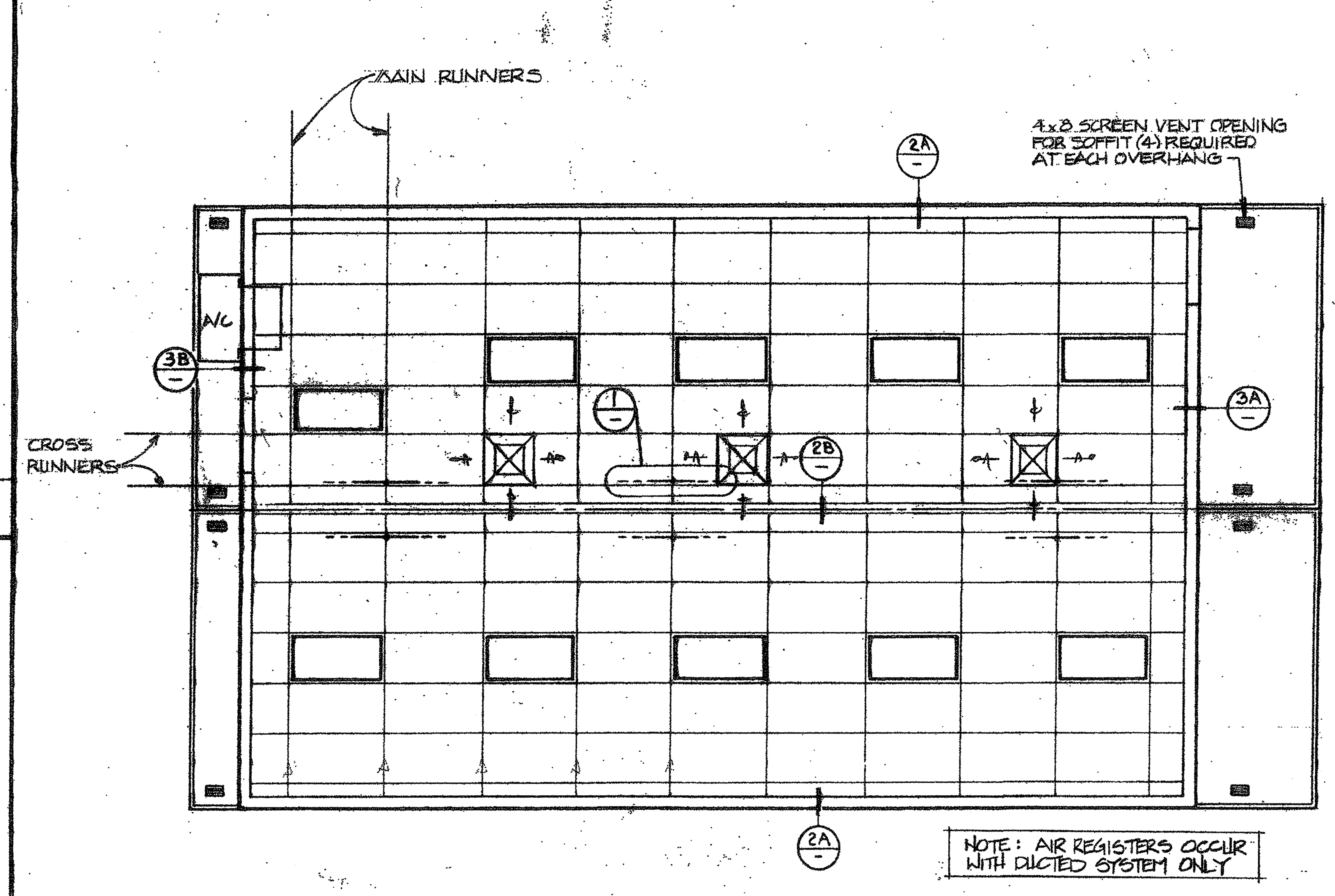
DATE OCT 19 2011



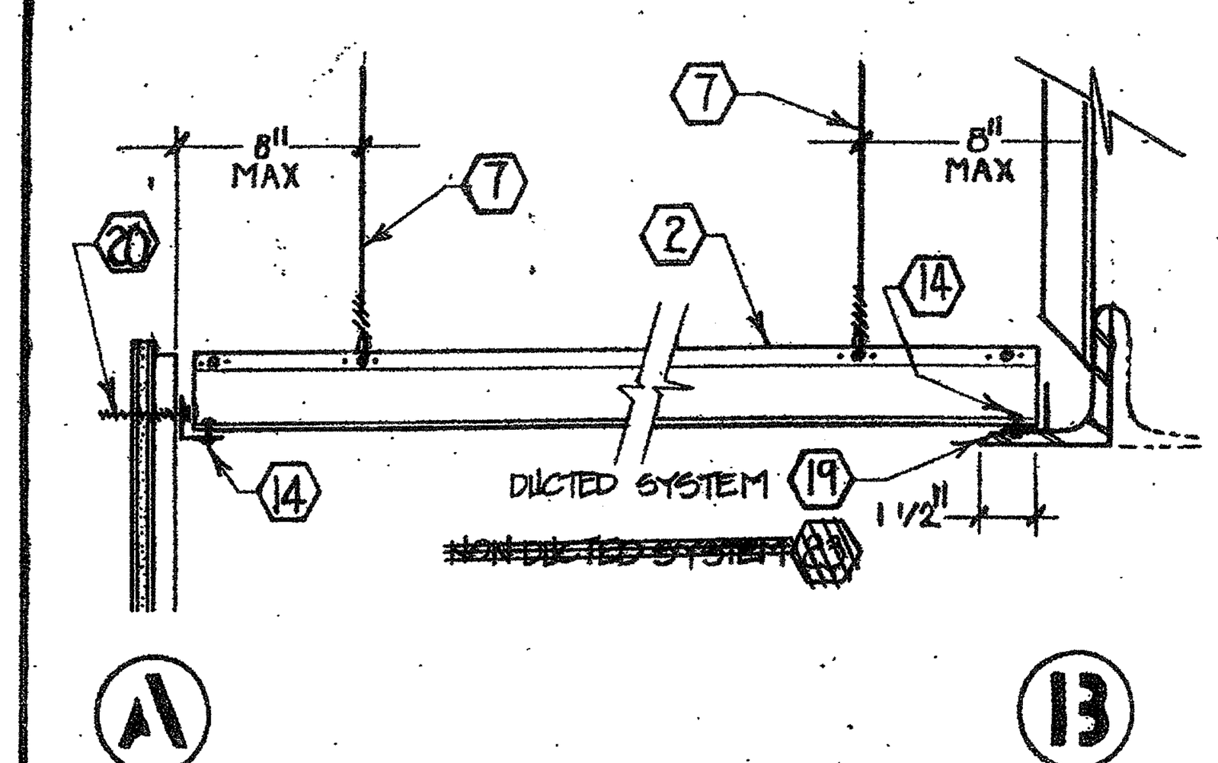
A/C DUCT & REGISTER 5



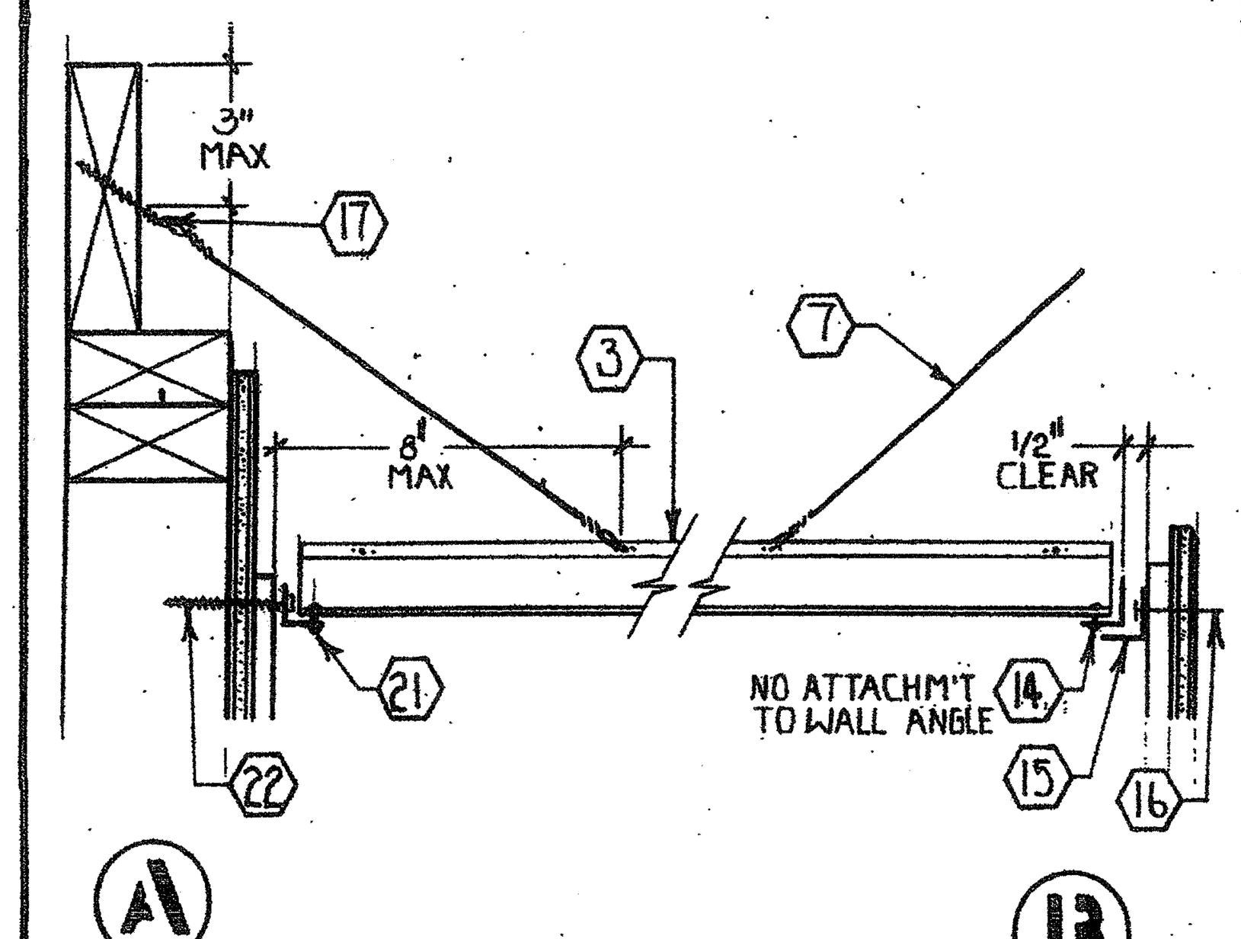
SPLAY WIRE 1



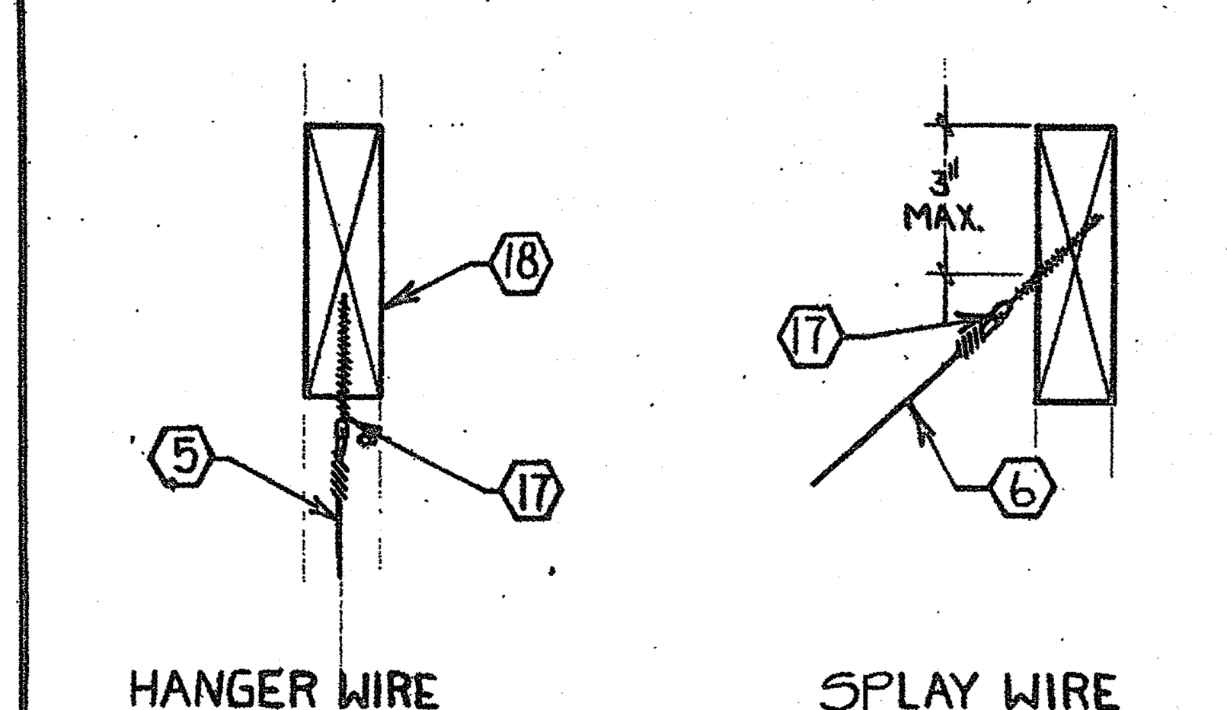
REFLECTED CEILING PLAN 1/4"=1'-0"



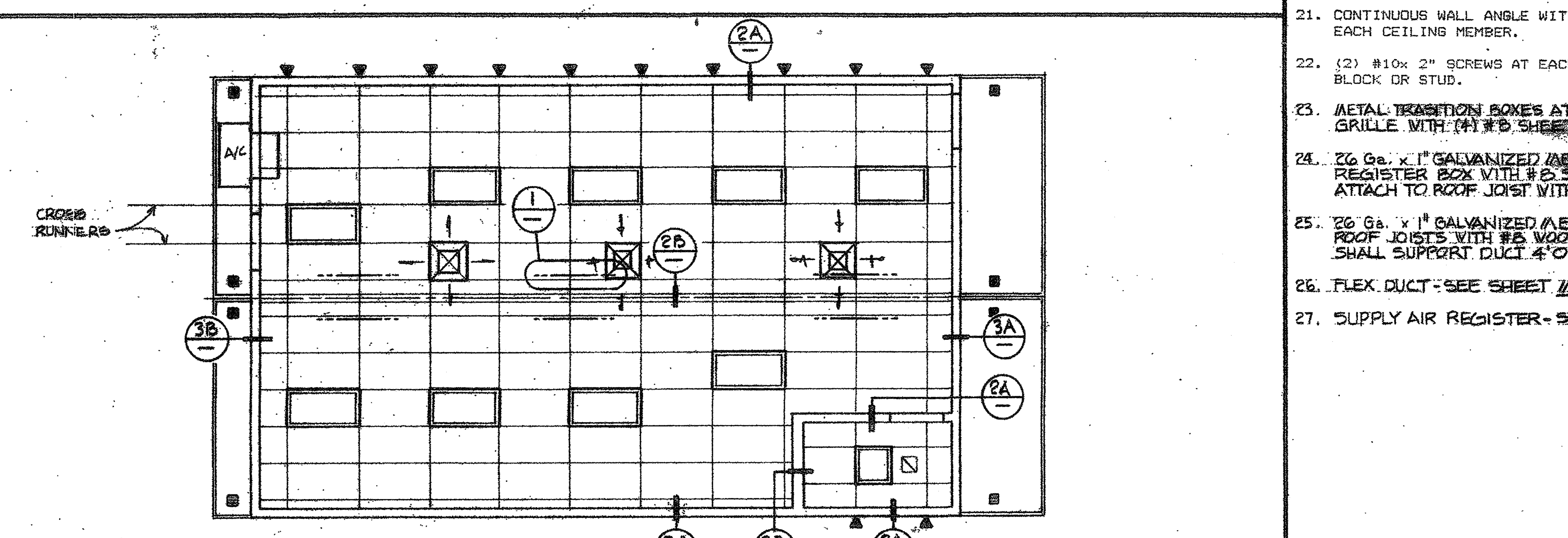
GRID @ WALL & MOD LINE 2



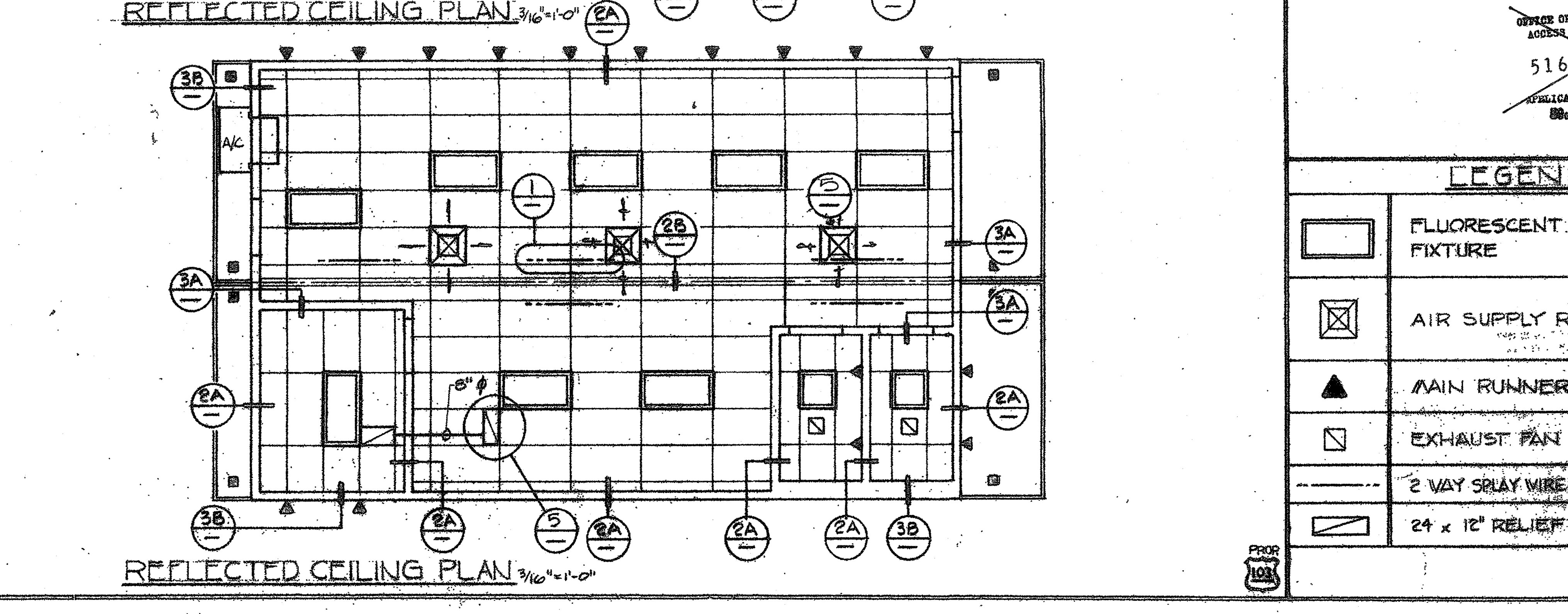
GRID @ WALL 3



WIRE TO ROOF JOIST 4



REFLECTED CEILING PLAN 3/16"=1'-0"



REFLECTED CEILING PLAN 3/16"=1'-0"

○ NOTES

1. MAIN RUNNERS @ 4'0" O.C. WITH HANGER WIRES SPACED @ 4'0" O.C.
2. MAIN RUNNER: DONN CORP. DX-26 HEAVY DUTY CHICAGO METALIC 1870 HEAVY DUTY.
3. CROSS RUNNER: DONN CORP. DX-216 HEAVY DUTY CHICAGO METALIC 1854 HEAVY DUTY.
4. WALL RUNNER: DONN CORP. M7-EV
5. TYPICAL HANGER WIRE TO BE 12 Ga. STEEL WIRE ATTACHED TO STRUCTURE ABOVE AND TO GRID WITH NO LESS THAN (3) TIGHT WRAPS IN 1-1/2". SEE DETAIL 4.
6. TYPICAL SPLAY WIRE TO BE 12 Ga. STEEL WIRE ATTACHED TO STRUCTURE ABOVE AND TO GRID WITH NO LESS THAN (4) TIGHT WRAPS IN 1-1/2". SEE DETAIL 4.
7. AT END OF ROWS OF RUNNERS, A HANGER WIRE SHALL BE ATTACHED WITHIN 8" OF ANY WALL OR SOFFIT.
8. VERTICAL WIRES MORE THAN 1:6 OUT OF PLUMB SHALL HAVE COUNTERBRACING WIRES INSTALLED.
9. RUNNERS MAY BE ATTACHED TO WALL MOLDING AT (2) ADJOINING WALLS; AT OTHER WALLS NO ATTACHMENT. WHERE THERE IS NO ATTACHMENT, THERE SHALL BE A 1/2" CLEARANCE BETWEEN END OF RUNNER AND FACE OF WALL.
10. CEILING AREAS OVER 144 SQ. FT. SHALL HAVE SPLAY WIRES INSTALLED AS INDICATED ON CEILING PLAN. SPLAY WIRES SHALL BE TAUT BUT SHALL NOT DISTORT GRID.
11. ELECTRICIAN SHALL PROVIDE (2) SLACK HANGER WIRES TO HOUSING OF ALL LIGHT FIXTURES. WIRES SHALL BE ATTACHED TO STRUCTURE ABOVE. DROP IN LIGHT FIXTURES SHALL BE ATTACHED TO CEILING GRID WITH (2) #8 SHEET METAL SCREWS.
12. DUCTWORK, IF REQUIRED, SHALL BE RIGIDLY ATTACHED TO STRUCTURE OR SHALL NOT BE CLOSER THAN 6" TO HANGER WIRE.
13. CEILING REGISTERS, IF REQUIRED, SHALL BE ATTACHED TO GRID WITH (4) #10 SHEET METAL SCREWS. PROVIDE (2) SLACK SAFETY WIRES TO STRUCTURE ABOVE.
14. CONTINUOUS WALL ANGLE WITH POP RIVET TO EACH MEMBER.
15. CONTINUOUS WALL ANGLE
16. 6 d NAIL @ 16" O.C. INTO BLOCK OR STUD
17. 1/4" DIA. x 3" SPADE SCREW INTO ROOF JOIST; MIN. 1-1/4" PENETRATION.
18. ROOF JOIST- SEE SHEET 5.
19. SUPPORT ANGLE ASSY- SEE DETAIL 13:6.
20. #10x 2" SCREW AT EACH CEILING MEMBER TO BLOCK OR STUD.
21. CONTINUOUS WALL ANGLE WITH (2) POP RIVETS TO EACH CEILING MEMBER.
22. (2) #10x 2" SCREWS AT EACH CEILING MEMBER TO BLOCK OR STUD.
23. METAL TRASITION BOXES ATTACHED TO SUPPLY AIR GRILLE WITH (4) #8 SHEET METAL SCREWS.
24. 26 Ga. x 1" GALVANIZED METAL STRAPS. ATTACH TO REGISTER BOX WITH #8 SHEET METAL SCREW. ATTACH TO ROOF JOIST WITH #8 WOOD SCREW.
25. 26 Ga. x 1" GALVANIZED METAL STRAPS. ATTACH TO ROOF JOISTS WITH #8 WOOD SCREWS. STRAPS SHALL SUPPORT DUCT 4'0" O.C. MAXIMUM.
26. FLEX DUCT - SEE SHEET A-1
27. SUPPLY AIR REGISTER - SEE SHEET A-1

OFFICE OF THE STATE ARCHITECT ACCESS COMPLIANCE SECTION 5166 MAR 22 '89

LEGEND

▭	FLUORESCENT DROP-IN LIGHT FIXTURE
⊠	AIR SUPPLY REGISTER
▲	MAIN RUNNERS
⧄	EXHAUST FAN
- - - -	2 WAY SPLAY WIRE CONFIG. SEE DET. #1
▱	24 x 12" RELIEF GRILLE

OSA
OFFICE OF THE STATE ARCHITECT STRUCTURAL SAFETY SECTION
A 5166 MAR 22 1989
ACS
FIRE MARSHAL
APPROVED FIRE AND PANIC ONLY MAR 22 1989 STATE FIRE MARSHAL SOUTHERN REGION

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP03 119149

AURORA MODULAR INDUSTRIES
1320 W. Oleander Ave. Perris, California 92370 Phone #(714) 943-2871

REFLECTED CEILING PLAN
24 x 40 - SHEARWALL
Date 5-87
SHEET 7

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APP03 1 1 3 0 5 8
AC 5/ FLS SS VC
DATE OCT 1 9 2011

PANEL A	120 /240 VOLT	1 PHASE	3 WIRE							
100 a BUS	100 a MAIN									
CIRCUIT No.	OUTLETS			WATTAGE			BREAKER		REMARKS	
	RECPT	LITES	OTHER	A Ø	B Ø	C Ø	AMP	POLE		
1	4	—	CLOCK	740			20	1		
2		10		780			|	|		
3			FIRE ALARM		180		|	|		
4		12			980		20	1		
5			HEAT PUMP	6240			60	2	W/ 8KW HEAT STRIP	
6				—						
7					6240		—	—		
8	4	—			720		20	1	REQ'D FOR BLDG.'A'(OPT 2)ONLY	
9										
10										
11										
12										
TOTALS				7760	8120		=15880		66.17 amps conn.	
LCL = 14420				LCL x 1.25%			= 18025.0			
				OTHER			= 920.0			
							18945.0		78.93 amps	

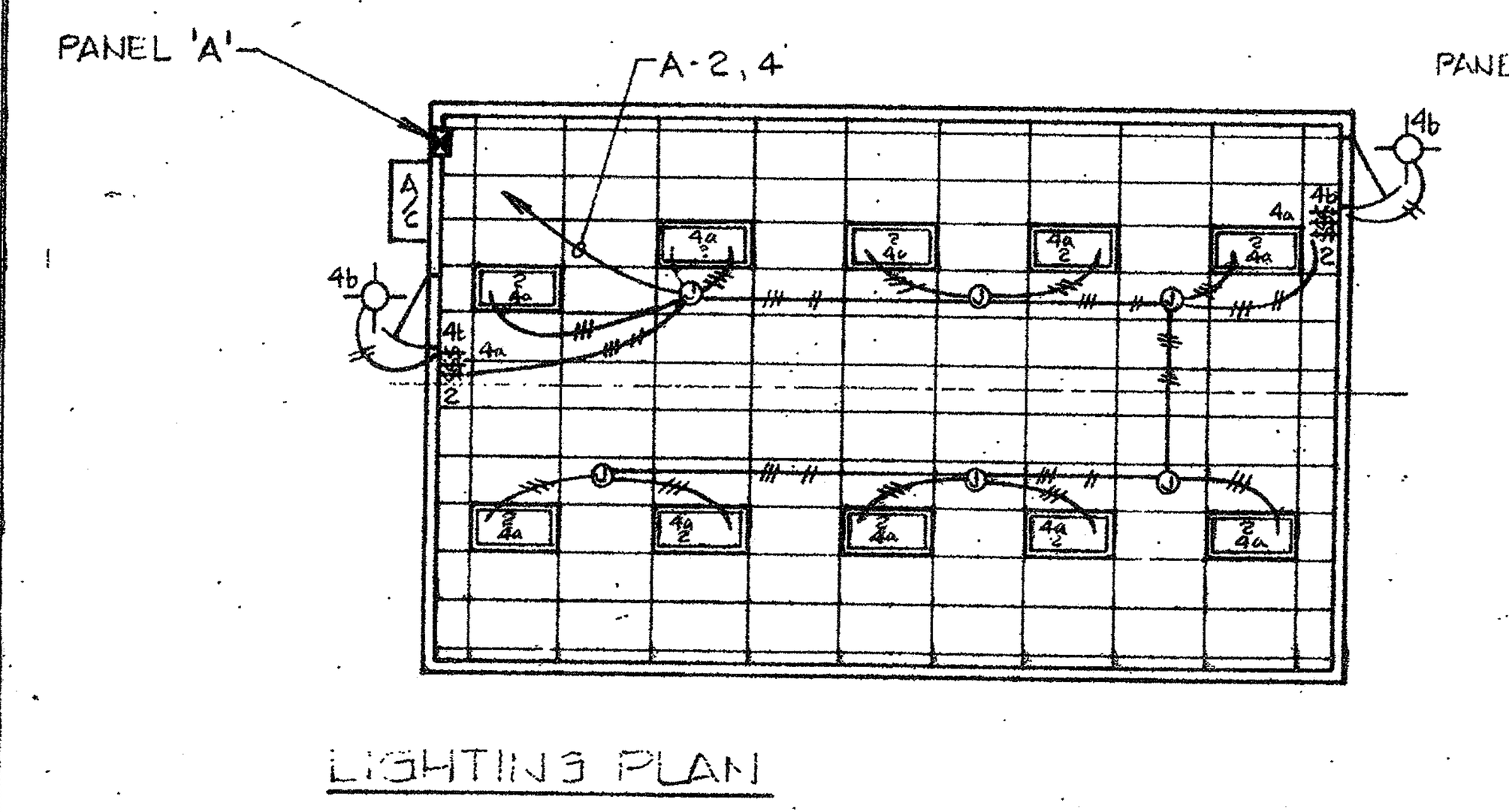
ELECTRICAL LEGEND

SYMBOL	DESCRIPTION
+12"	DUPLEX RECEPT- 15a 125v 3 WIRE GROUNDING TYPE. H[illegible] "GFI" [illegible] FAULT INTERRUPTER.
$ +48"	LIGHT SWITCH- SINGLE POLE
J	JUNCTION BOX
BP	~~BY-PASS TIMER~~
F	DISCONNECT SWITCH- FUSED, RAINTIGHT, SIZED AS NOTED
T +48"	THERMOSTAT - W/ LOCKING COVER, WHITE ROGERS 1F92 ELECTRONIC PROGRAMMABLE
	CLOCK
+48"	FIRE ALARM PULL STATION "EDWARDS" 270-SPD SFM# 7150-073:11
	FIRE ALARM HORN "WHEELOCK SIGNALS" 34T24 SFM# 7135-785:6
W	VISUAL WARNING LIGHT- WHEN INDICATED ON ELECTRICAL PLAN. "WHEELOCK SIGNALS" WS1-115 SFM# 7300-785:11
///	1/2" CONDUIT UNLESS OTHERWISE INDICATED. NUMBER OF SLASHES INDICATE NUMBER OF #12 WIRES IN CONDUIT.

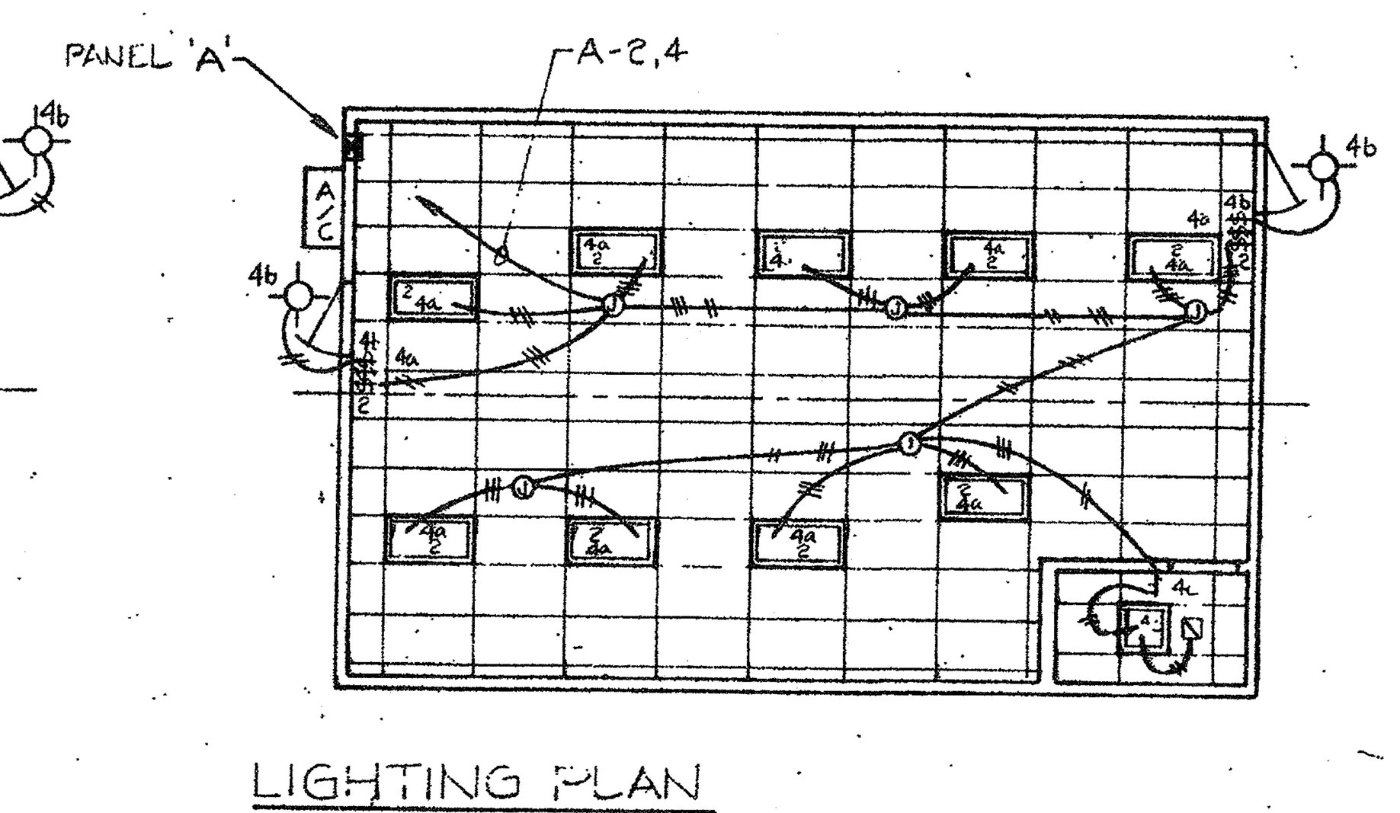
A/C WIRING-1Ø	WIRE SIZE	DISC.
BARD 3 TON WITH HEAT STRIP-5KW	#6	60a
BARD 3 TON WITH NO HEAT STRIP	#8	50a
BARD 4 TON WITH HEAT STRIP-10KW	#4	100a
BARD 4 TON WITH NO HEAT STRIP	#6	60a
INTRTHERM 3 TON WITH HEAT STRIP-5KW	#6	60a
INTRTHERM 3 TON WITH NO HEAT STRIP	#8	40a
INTRTHERM 4 TON WITH HEAT STRIP-10KW	#8 COMP/N #6 STRIP	50a COMP/N 60a STRIP
INTRTHERM 4 TON WITH NO HEAT STRIP	#8	52a

FIXTURE SCHEDULE

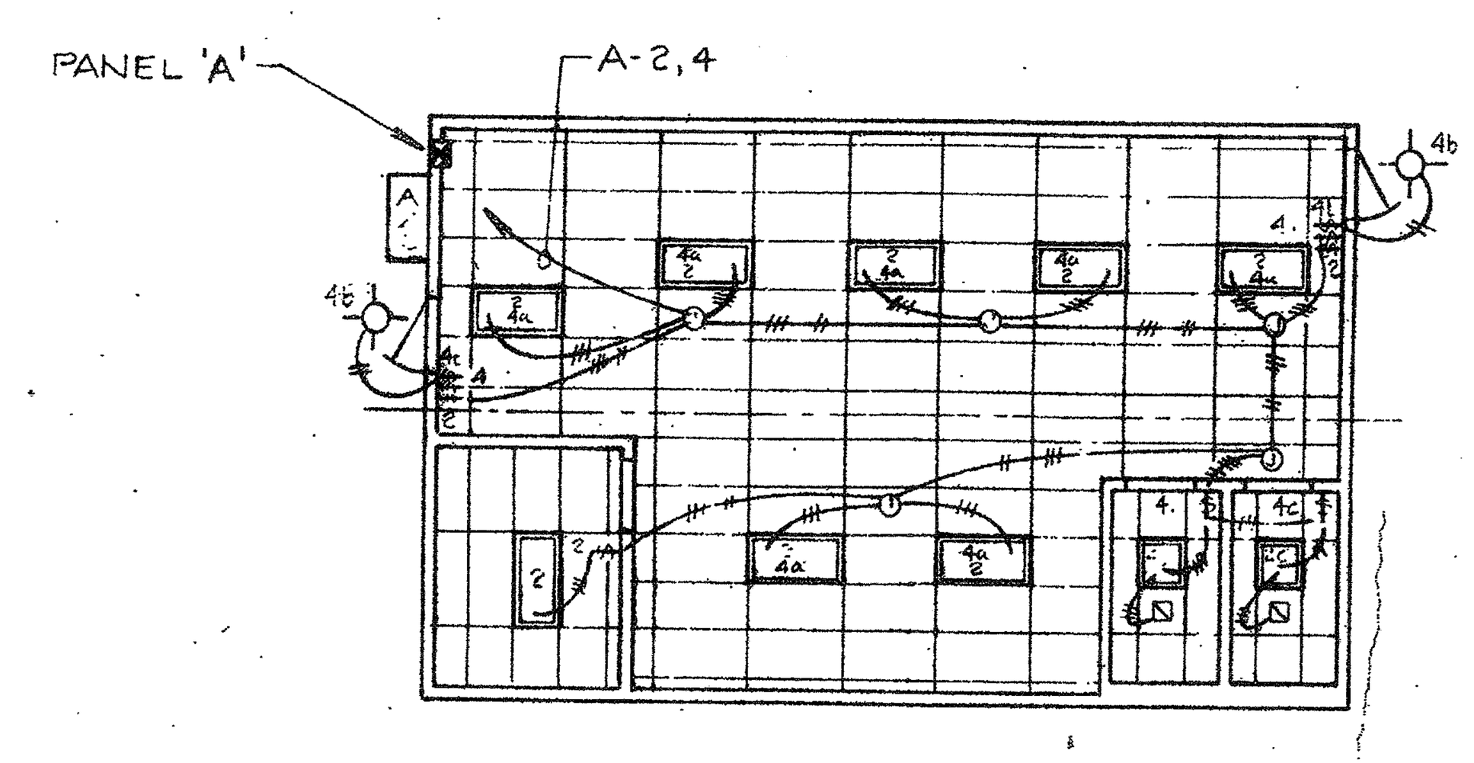
TYPE	SYMBOL	DESCRIPTION	WATTS	MANUFACTURER
		2' x 4' FLUORESCENT DROP IN FIXTURE, ACRYLIC PRISMATIC LENS, ENERGY SAVING BALLAST. (4) 35 WATT TUBES, WT. 27 lbs	156 WATTS	CRESCENT 24TE440DLA
		INCANDESCENT SURFACE MOUNTED EXTERIOR LIGHT WITH IMPACT RESISTANT ENCLOSURE	100 WATTS	KENALL 3663



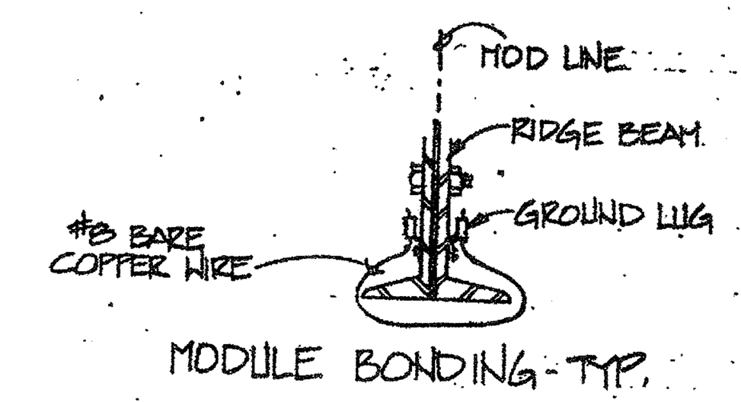
LIGHTING PLAN



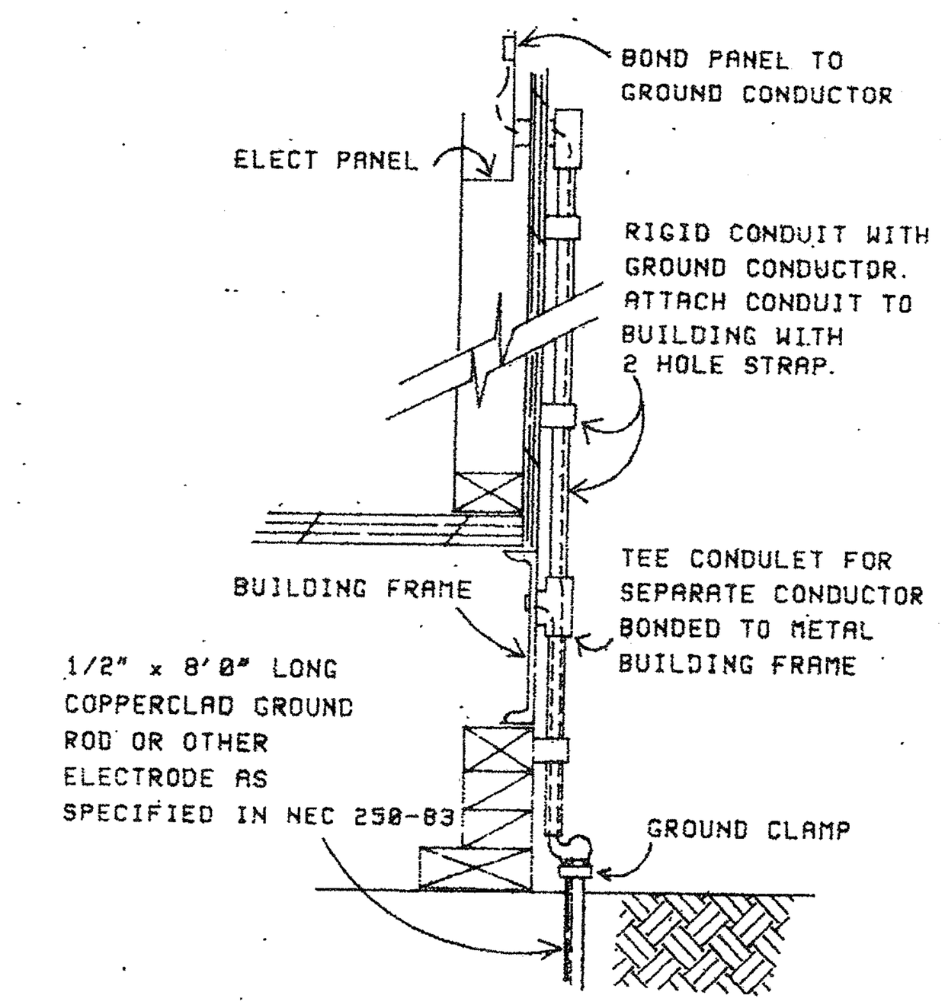
LIGHTING PLAN



LIGHTING PLAN



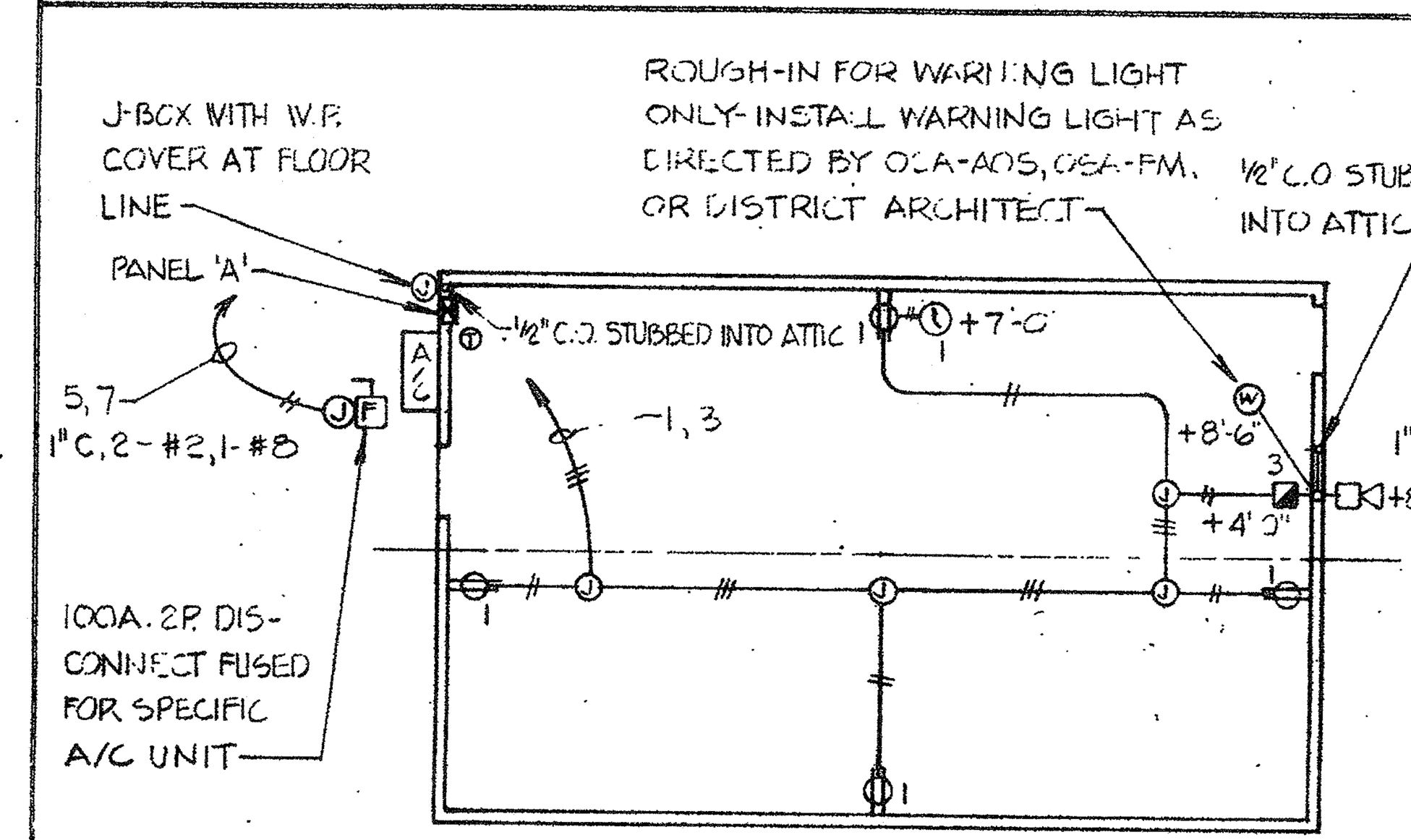
MODULE BONDING-TYP.



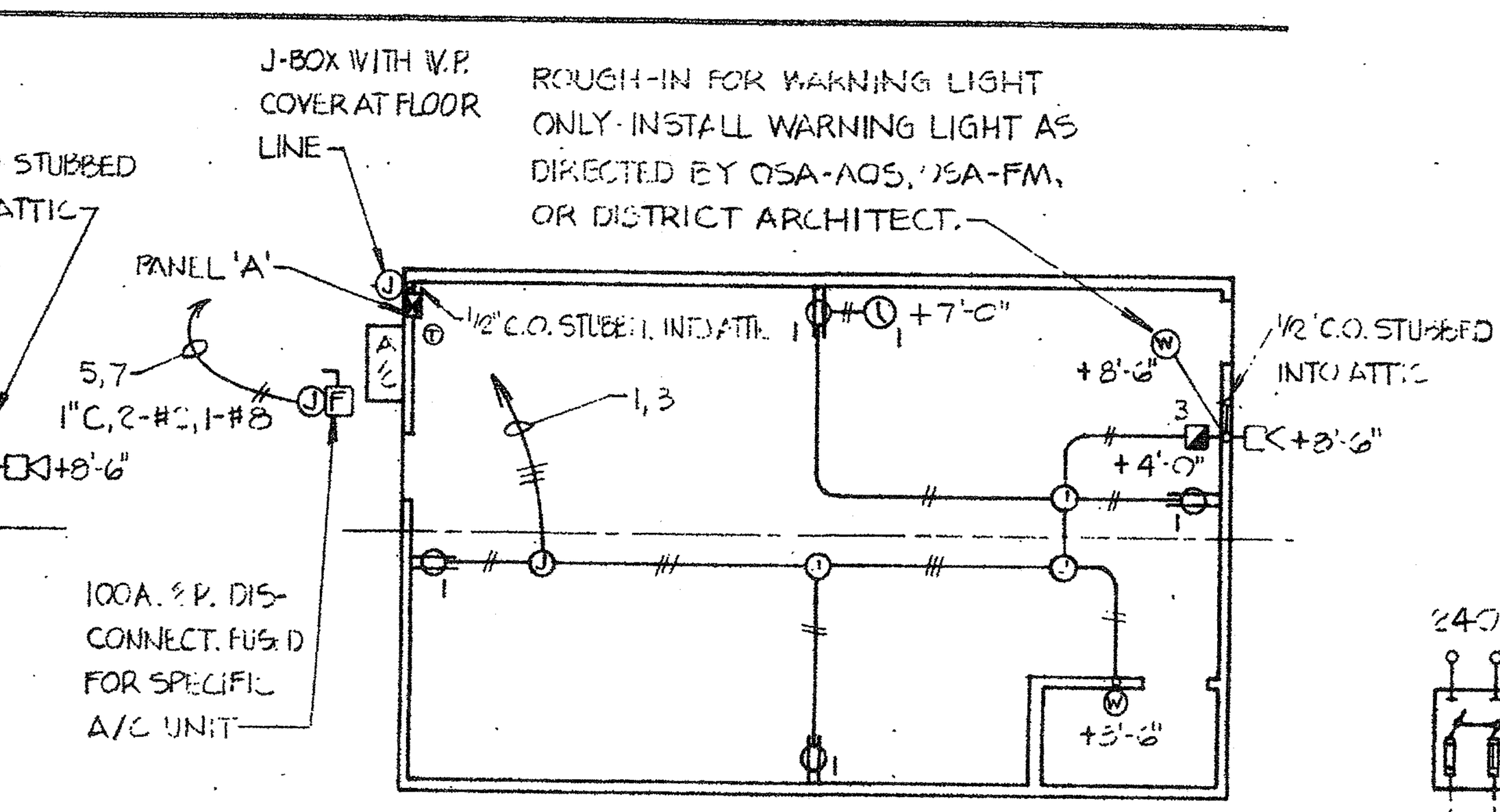
SYSTEM GROUND DETAIL

BY DISTRICT

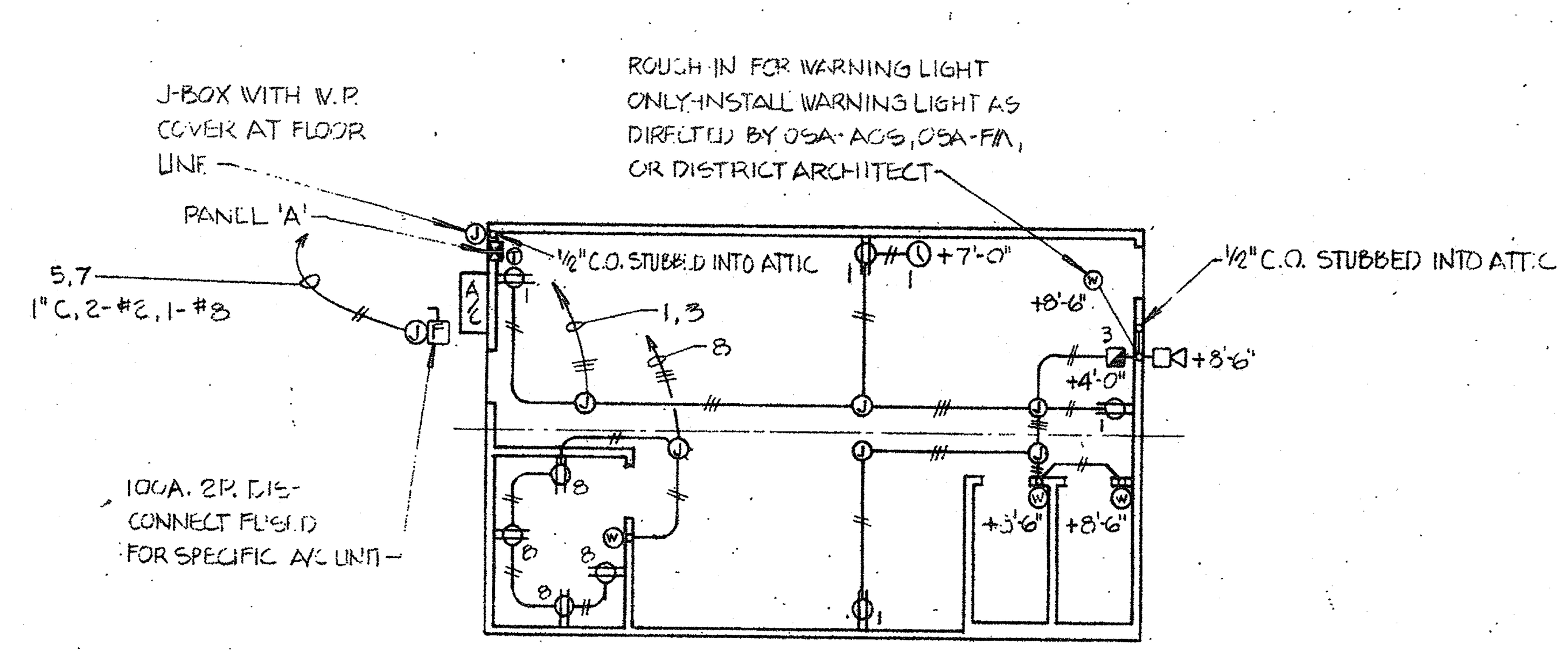
1. SIZE OF CONDUCTORS SHALL COMPLY WITH NEC TABLE 250-95
2. BOND SEPARATE CONDUCTORS FROM GROUND ROD TO ELECTRICAL PANEL AND TO METAL BUILDING FRAME (NEC 250-81). IN ADDITION TO THE DETAIL ABOVE, BOND THE ELECTRICAL GROUND TO METAL WATER PIPE EMBEDDED AT LEAST 10 FT. INTO THE SOIL IF AVAILABLE. (NEC 250-81 & 250-83)
3. ALL MODULES OF METAL FRAME BUILDINGS SHALL BE ELECTRICALLY BONDED TOGETHER (BOLTING ONLY IS NOT ACCEPTABLE BONDING.)
4. CHECK RESISTANCE TO GROUND. IF RESISTANCE EXCEEDS 25 OHMS, INSTALL ADDITIONAL GROUND RODS WITH CONDUCTORS, AS SHOWN, SEPARATED BY AT LEAST 6'0" UNTIL RESISTANCE IS 25 OHMS OR LESS.
5. THE TYPE OF FIRE ALARM SYSTEM AND/OR COMPONENTS MAY HAVE TO BE CHANGED DUE TO SITE, EXISTING SITUATIONS, OR INCOMPATIBLE COMPONENTS. THE APPROVAL OF THIS PLAN DOES NOT CONSTITUTE THE APPROVAL FOR THIS FIRE ALARM AT ALL SITES.



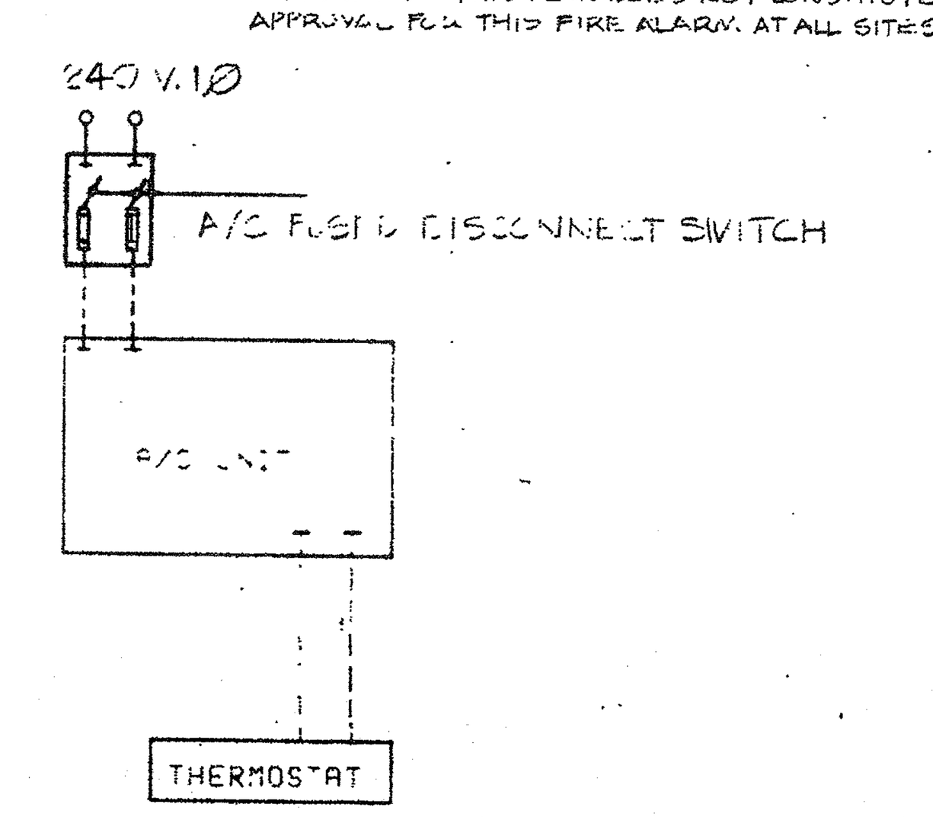
POWER PLAN BUILDING 'A'



POWER PLAN BUILDING 'A' (W/OPTION #1)



POWER PLAN BUILDING 'A' (W/OPTION #2



A/C CONTROL WIRING

OSA
OFFICE OF THE STATE ARCHITECT STRUCTURAL SAFETY SECTION
#51667 MAR 22 1989
APPROVED APPLICATION

ACS

FIRE MARSHAL
APPROVED FIRE AND PANIC ONLY
MAR 22 1989
STATE FIRE MARSHAL SOUTHERN REGION

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DIV. OF THE STATE ARCHITECT
APP03 1 1 9 1 4 9
AC FLS SS
DATE JAN 7 2019

OFFICE OF THE STATE ARCHITECT ACCESS COMPLIANCE SECTION
51667 MAR 22 '89

AURORA MODULAR INDUSTRIES
1320 W. Oleander Ave. Perris, California 92370 Phone # (714) 943-2071

24x40 SHEARWALL RELOCATABLE CLASSROOM BUILDINGS STATE OF CALIFORNIA- OLA

ELECTRICAL POWER PLAN, LIGHTING PLAN, PANEL SCHEDULE

SHEET
8

IDENTIFICATION STAMP
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APP03 113058
AC SU FLS — SS VC
DATE OCT 19 2011

GENERAL NOTES AND SPECIFICATIONS

SECTION 1A GENERAL REQUIREMENTS

1. GENERAL

A. The requirements of the General Conditions of the agreement and this General Requirements apply to the several trade sections with the same force as though fully repeated in each trade section.

B. Name brands are indicated to establish a standard of quality. Items of equal or better quality may be substituted for the listed brand named products. All submittals shall be approved by the Agency Architect.

C. All work shall comply with the requirements of titles 19, 21, and 24 California Administrative Code. No changes shall be made from O.S.A. approved drawings or specifications without prior written approval of O.S.A. and the District Architect.

2. SCOPE OF WORK

A. The work consists of manufacturing off-site in a plant, and installing on-site, modular relocatable buildings as defined herein and shown and detailed on drawings.

B. All requirements of Titles 19, 21 and 24 of the State of California Administrative Code relating to inspections and verified reports shall be complied with and shall include:

1. General responsible charge of Field Administration by the Architect of Record.
2. Inspection in-plant during the course of construction by an inspector approved by the Office of the State Architect and the District Architect. The inspector shall be responsible for and approved to inspect the general construction welding, mechanical and electrical work. Cost of these inspections shall be borne by the Agency Architect.
3. On site inspection of the building installation electrical and utility installation or connections by an inspector approved by the Office of the State Architect and the District Architect and retained by the Agency Architect.
4. Other special tests or inspections as may be required by the Office of the State Architect.

3. WORK NOT INCLUDED

A. All on-site or off-site utilities and the connection of them to the building unless indicated on the drawings.

B. All leveling, grading or other site preparation except concrete or wood leveling strips, where required, unless otherwise indicated on the drawings.

C. Fire alarm system, fire extinguisher, program bell, clock, public address system, intercom system, TV system unless otherwise indicated on the drawings.

4. WHEELS AND HITCH

Shall remain the property of the Contractor.

5. ACCESSIBILITY OF SITE

The School District shall provide access to the site for the installation of buildings. Removal of trees, shrubs, fencing, sprinklers, etc. necessary for the move-in of buildings shall be the responsiblity of the Site Contractor.

6. GENERAL CONSTRUCTION

A. Structural Frame. - Each module shall be designed as a shear wall structure to withstand vertical and horizontal loads and comply with requirements of the Office of the State Architect. The necessary provisions are incorporated in the structure to permit the relocation of the structural frame in sections not exceeding 12 feet in width.

B. Floor - The floor shall be steel framed with a design live load of 50 lbs per square foot.

C. Watertightness - Workmanship and materials shall be such that buildings will be weathertight and watertight.

~~SECTION 3A CAST IN PLACE CONCRETE (When indicated)~~

~~1. SCOPE OF WORK~~

~~Contractor shall provide all materials, labor and services for concrete work indicated on drawings.~~

~~2. MATERIALS~~

~~A. Portland Cement- Type 1, standard brand, ASTM C-150~~
~~B. Aggregate- Washed sand, gravel, rock ASTM C-33~~
~~C. Reinforcing steel- ASTM A615 grade 40 , deformed, ASTM-305~~

~~3. WORKMANSHIP~~

~~A. Minimum compressive strength at 28 days- 2000 psi; maximum aggregate size 1-1/2"; maxumum 7.5 gallons of water per sack of cement; minimum of 5.3 sacks of cement per yard; maximum slump 4". Transit mixed concrete shall be used. Testing will be required.~~

SECTION 5A STRUCTURAL AND MISC. STEEL

1. SCOPE OF WORK

Contractor shall provide all labor, materials and services required for structural and miscellaneous steel as specified and indicated on the drawings.

2. MATERIALS

A. Structural Steel Shapes- ASTM A-36, open hearth or electric furnace only, all regular shapes as described in AISC Construction Manual, unless otherwise noted.

B. Cold Formed Light Guage Steel- ASTM A-570 Grade C, minimum yield 33,000 PSI.

C. Structural Pipe and Tubing- ASTM A-500 Grade B

D. Bolt Material- Bolts and nuts, American Standard Regular, as detailed in AISC Construction Manual, fabricated from structural quality steel, ASTM A-307.

E. Arc-Welding Electrodes- Class E-70 Series for welding A-36 steel to A-36 and E-60 Series for welding A-570 steel to A-36, conforming to requirements of the "Structural Welding Code" of American Welding Society, latest edition.

3. WORKMANSHIP

A. GENERAL- All work shall conform to the requirements of AISC Standard Specifications, Titles 21 and 24 of the California Administrative Code and the American Iron and Steel Institute Specifications for Design of Light Guage Steel Structural Members

B. WELDING- All welding done by shielded electric-arc or flux cored-arc process complying with requirements of the "Structural Welding Code" of the American Welding Society. Welding done by operators qualified by tests acceptable to the Office of the State Architect.

C. ERECTION- Structural Steel erected true, straight, plumb and to its disignated locations. Field connections bolted or welded as indicated on the drawings.

D. NAILS, BOLTS, SCREWS, NUTS, etc.- For exterior work shall be cadmium plated or galvanized.

E. HANDRAILS- Fabricated as detailed, welds ground smooth.

F. SHOP PAINT-
1. Exposed steel coated with one shop coat of red oxide primer
2. Non-exposed steel coated with one shop coat of red oxide primer
3. All surfaces thoroughly cleaned by effective means prior to application of shop coats

G. TESTS-
1. Provide mill certificates or test the following members per T-24 Section 2-2727(a):
[12"x20.7, [7"x9.8, Z 6"x13 Ga. or Z 7"x11 Ga., TS 2"x2"x3/16"
2. Welds shall be inspected and/or tested per T-24 Section 2-2727(e).

SECTION 6A CARPENTRY

1. SCOPE OF WORK

Contractor shall provide all labor, materials and services to install carpentry.

2. MATERIALS

Lumber grade marked in accordance with "Standard Grading and Dressing Rule No. 16" of West Coast Lumber Inspection Bureau, or "Grading Rules for Western Lumber, 3rd. Edition" of Western Wood Products Association. Plywood grade marked in accordance with "Product Standard PS 1-83 for Softwood Plywood" of American Plywood Association, complying with UBC Standard 25-9.

A. JOISTS, RAFTERS, HEADERS, PLATES- Douglas Fir S4S, #2 or better.
B. BLOCKING- Douglas Fir / Larch no. 3 or better
C. SILLS AND LUMBER IN CONTACT WITH CONCRETE, MASONRY OR EARTH- Douglas Fir pressure treated with Wolman Salts, Tanalith U or chromated copper arsenic; Standard and Better grade- 2x4; No. 2 grade- 2x6 and larger, cut ends dipped in preservative (Cuponal).
D. PLYWOOD ROOF DECKING- APA C-D grade, Group 1, Exposure 1 with exterior glue. On overhangs, C-C plugged and touch sanded.
E. PLYWOOD FLOOR DECKING- APA STURD-I-FLOOR 2-4-1 1-1/8" tongue and groove floor sheathing. WITH WOOD VENEER CORE
F. EXTERIOR SIDING/SHEATHING- APA Type 303, exterior, T-1-11 8" o.c, group II; or MDO, exterior, group II
G. MOISTURE BARRIER- Kraft waterproof building paper UBC Standard 17-1.
H. STUDS AND POSTS- Doug Fir no. 2 or better.
J. FASTENERS- All nails shall be corrosion resistant per U.B.C. Standard 25.1717.
K. BUILDING TRIM- 2x Resawn Select D.F. or H.F.
L. DOOR/WINDOW TRIM- 1x4 Resawn Select D.F. or H.F.
M. RETIGHTEN BOLTS BEFORE CLOSING IN.

3. WORKMANSHIP

A. FRAMING- securely nailed, bridged and blocked to form rigid structure. Work cut, fitted and assembled level, plumb and true to line. Trim in as long lengths as possible with all standing trim in one piece. Trim sealed at all edges.

B. NAILING- in accordance with Title 24, California Administrative Code, Table 2-25-P. (BOX NAILS)

C. EXTERIOR WALLS- factory fabricated. Caulking provided between perimeter of wall and structural members providing weather-proof and water-tight seal. Necessary closers, seals, and flashings placed at top and base support of panels and around openings.

D. MACHINE APPLIED NAILING- shall have prior demonstration and approval by OSA field representative and the Architect. Plywood shall have a minimum thickness of 3/8".

E. MOISTURE BARRIER- applied to studs weather-board fashion, horizontal joints lapped min. 2", vertical joints lapped min. 6". Plywood siding/sheathing applied over moisture barrier.

F. Trim sealed at all edges. Sealant painted to match trim or siding.

G. Each piece of pressure treated lumber shall be stamped: "for above ground use" or "not for ground contact" and "for ground contact."

SECTION 7B SHEET METAL

1. SCOPE OF WORK

Contractor shall provide all labor, materials, and services to install indicated sheet metal.

2. MATERIALS

A. SHEET METAL- Steel sheets hot dip galvanized with 1.25 Oz. per square foot zinc coating conforming to ASTM A123. Minimum 26 Ga. unless otherwise noted on the drawings.

B. SOLDER- Of standard brand, Grade "A" of equal parts lead and tin ASTM B32.

C. FLUX- Zinc saturated muriatic acid.

3. WORKMANSHIP

Sheet metal accurately formed to dimensions and shapes detailed with true straight lines, corners and angles. Flashings installed in longest lengths possible. Exterior work formed, fabricated and installed so that it adequately provides for expansion and contraction in the completed work and finishes water and weather tight. Aluminum shall be separated from ferrous metal by polyethelene tape or flood coat of asphaltic paint.

SECTION 7C METAL ROOFING

1. GENERAL

Roofing material shall be 30 Ga. ribbed galvanized sheet metal interlocking panels installed over 30# asphalt base sheet over 1/2" plywood roof deck. Roofing shall be sealed at outside edges WITH SEALANT. FASTENERS SHALL NOT PENETRATE ROOFING MATERIAL. Each lap shall have full length silicone or equal sealant applied.

SECTION 7J SEALANT

1. SCOPE OF WORK

Contractor shall provide all labor, materials and services to seal buildings.

2. MATERIALS

Vulkem Sealant, polyurethane, manufactured by MAMECO INTERNATIONAL

3. WORKMANSHIP

Sealant applied to dry clean surfaces, wherever indicated on details and as needed to make building watertight, in accordance with manufacturer's specifications.

SECTION 8B HOLLOW METAL DOORS AND FRAMES

1. SCOPE OF WORK

Contractor shall provide all labor, materials and services to install hollow metal doors and frames.

2. MATERIALS

A. DOORS- Type L full flush, manufactured by Steelcraft Manufacturing Company; 18 Ga. 1-3/4" thick. Sound deadening material inside; constructed per CS 242. Reinforce both faced for closer.

B. FRAMES- 16 Ga. cold rolled, 2" faces. constructed per CS 242; 1/8" thick undercoating sound deadening material on concealed surfaces. (3) anchors per jamb and floor anchor. Reinforce for hardware.

3. WORKMANSHIP

All work fabricated in shop to required profiles by forming and welding, with arises and edges straight, sharp fit, fabricated accurately with square corners, hairline joints and surfaces free from warp, wave, buckle or other defects. After fabrication, doors and frames cleaned thoroughly, all welds ground smooth and given prime coat.

SECTION 8D FINISH HARDWARE

1. SCOPE OF WORK

Contractor shall supply and install finish hardware as specified and as required.

2. SCHEDULE FOR EXTERIOR DOORS

See note on floor plan

3. SPECIAL REQUIREMENTS

A. Exit doors shall be openable from the interior without key or ANY special knowledge or effort
B. Closer shall be set for a maximum opening pressure of 8.5lbs.
C. DEADBOLTS NOT PERMITTED UNLESS OPERABLE WITH A SINGLE EFFORT USING LEVER HARDWARE
D. HARDWARE SHALL BE CENTERED BETWEEN 30" AND 44" ABOVE FIN. FLOOR

SECTION 9E PAINTING

1. SCOPE OF WORK

Contractor shall provide all labor, materials and services to paint building. All exposed surfaces of building and ramp shall be painted except aluminum window frames and thresholds.

2. MATERIALS

A. For Exterior Wood:

Ref. brand--	Dunn Edwards	Glidden	Kelly Moore	Vista
Primer -----	42-9M	1951	220	4100
Finish -----	60-XX	19XX	175-XXX	6000

B. For Interior Trim:

Ref. brand--	Dunn Edwards	Glidden	Kelly Moore	Vista
Finish -----	450-XX	37XX	165-XXX	7000

C. For Metal:

Ref. brand--	Dunn Edwards	Glidden	Kelly Moore	Vista
Finish -----	10-XX	149XX	175-XXX	5700

3. WORKMANSHIP

A. EXTERIOR- Wood siding, trim and skirting- apply two coats of exterior flat acrylic paint sprayed on. (1) coat as primer and (1) coat as finish. Prime coat will be sprayed on and back-brushed into all grooves.

B. INTERIOR TRIM- Trim not precoated shall be painted with two coats of semi-gloss latex over primer.

C. METAL- All metal surfaces shall be painted with two coats of alkyd finish coat over shop primer.

D. RAMP- One coat of epoxy non-skid surfacing over primer.

SECTION 13F SITE ASSEMBLY

1. SCOPE OF WORK

Contractor shall provide all labor materials and services to prepare the building elements, transport them from the plant to the site and to complete the assembly at the site.

The condition of the site, such as drainage and soil bearing capacity, shall be the responsibility of the School District. Unless specifically called for in the Contract, steps, ramps, walkways or handrails shall not be the responsibility of the contractor.

2. ASSEMBLY OF ELEMENTS

A. In a location on the site as determined by the School District, the contractor shall place concrete leveling strips or other suitable supports as detailed on the drawings.
B. The elements shall be brought to the site on wheel assembly and transferred to the prepared site. Great care shall be taken to avoid damage to the elements by racking or bumping each other.
C. Connection of the elements together shall be done according to instruction on the drawings. Flashings, trim and other loose items shall be installed per details on the drawings.

SECTION 15A AIR CONDITIONING

1. SCOPE OF WORK

Contractor shall provide all labor, materials and services to install the air conditioning system as shown on the drawings and specifications, including A/C units and accessories, remote thermostat, grilles and power wiring complete to load center. Contractor shall instruct owner's operators on operation and maintenance of A/C system.

2. EQUIPMENT

See note on floor plan for size and type.

3. WORKMANSHIP

Units shall be installed complete and operating with all accessories in accordance with the manufacturer's instructions.

SECTION 16A ELECTRICAL

1. SCOPE OF WORK

Contractor shall provide all labor, materials and services for electrical installation complete with associated equipment and fixtures, in operating conditions ready for use. The work includes; light and power systems, lighting fixtures complete with lamps, connections and disconnects to A/C equipment.

2. MATERIALS

All new complying with requirements of National Electric Code and National Fire Protection Association.

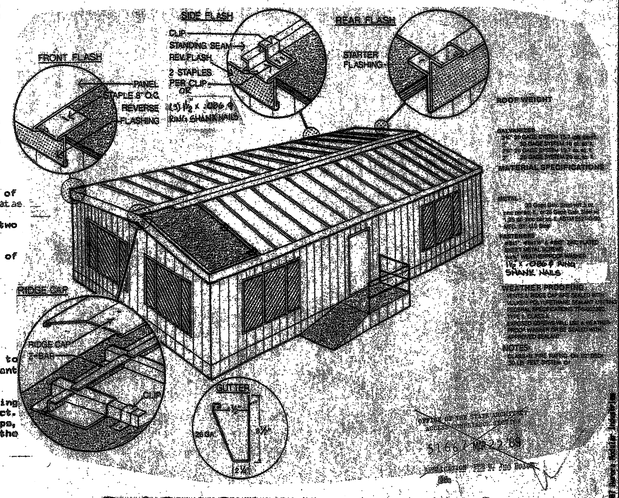
A. ELECTRIC METALLIC TUBING- couplings and flex conduit galvanized or sherardized.
B. PANELBOARDS- flush mounted with hinged lockable doors and indexed card holders. Locks furnished by school district.
C. CONDUCTORS- copper, insulated for 600 volts, type THHN for sizes #12 to #6, type THW for larger sizes. Minimum size- #12.
D. RECEPTACLES- General Electric 8210.2 15a. Hospital Grade
E. CLOCK RECEPTACLE- Eagle or equal
F. SWITCHES- Hubbel premium grade or Bryant heavy duty grade.
G. LIGHTING FIXTURES- as noted on the drawings.

3. WORKMANSHIP

Materials and equipment installed in a secure, neat, workmanlike manner in accordance with code requirements. Panelboard cards filled out. Conduit and cable installed in wall and ceiling spaces. Work piercing waterproofed areas flashed and sealed to a watertight condition.

Machine Applied Nailing

Use of machine nailing is subject to a satisfactory jobsite demonstration for each project and the approval by the project Architect or Structural Engineer and the Office of the State Architect. The approval is subject to continued satisfactory performance. Machine nailing will not be approved in 5/16" plywood. If nailheads penetrate the outer ply more than would be normal for a hand hammer or if minimum allowable edge distances are not maintained the performance will be deemed unsatisfactory.



Roof Deck Installation

OSA
OFFICE OF THE STATE ARCHITECT
STRUCTURAL SAFETY SECTION
A 51667 MAR 22 1989
APPROVED APPLICATION NO.
PRINCIPAL STRUCTURAL ENGINEER

ACS

FIRE MARSHAL
APPROVED
FIRE AND PANIC ONLY
MAR 22 1989
STATE FIRE MARSHAL
SOUTHERN REGION

No. 776
LICENSE EXPIRES 12-31-88

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP03 119149
AC NN FLS ac SS RJ
DATE JAN 7 2019

AURORA
MODULAR INDUSTRIES
1320 W. Oleander Ave.
Perris, California 92370
Phone • (714) 943-2071

24x40 SHEARWALL
RELOCATABLE CLASSROOM BUILDINGS
STATE OF CALIFORNIA

GENERAL NOTES & SPECIFICATIONS
SHEARWALL CONSTRUCTION

24x40 SHEARWALL

9

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP03 113058
AC SU FLS SH SS VC
DATE OCT 19 2011

* (AC 1) 'INTERTHERM' MODEL PWV 042-KAVX08 WALL MOUNTED HEAT PUMP

46,000 BTUH COOLING 9.0 SEER
49,500 BTUH HEATING 3.24COP
1400 CFM AT .4 ESP
208/230 v. - 1 PHASE - 60 CY. MAX UNIT AMPS 71.1

SUPPLY AIR PLENUM: GALV. IRON W/ 1/2" LINER INSULATION
INTERIOR DUCT: CLASS I FLEX DUCT U.L.- 181
REGISTER BOXES: GALV. IRON W/ 1/2" LINER INSULATION
SUPPLY AIR DIFFUSERS: METALAIRE '7000' SERIES
RETURN AIR GRILLES: METALAIRE 'RH' SERIES
MAX OPERATING WT- 500 lbs

All mechanical and electrical equipment shall be braced or anchored to resist a horizontal force acting in any direction using the following criteria:

Fixed Equipment on Grade	22% of Operating Weight
Fixed Equipment on Structure	33% of Operating Weight
Emergency Power Equipment on Grade	33% of Operating Weight
Emergency Power Equipment on Structure	50% of Operating Weight

For Flexibly Mounted Equipment Use 2 X the above values. Simultaneous Vertical Force - Use 1/3 X Horizontal Force.

Where anchorage details are not shown on the drawings the field installation shall be subject to the approval of the STRUCTURAL engineer and the field representative of the Office of the State Architect.

* ALTERNATE AIR CONDITIONERS

(AC 2) 'BARD' MODEL 36WH5 WALL MOUNTED HEAT PUMP

OMIT

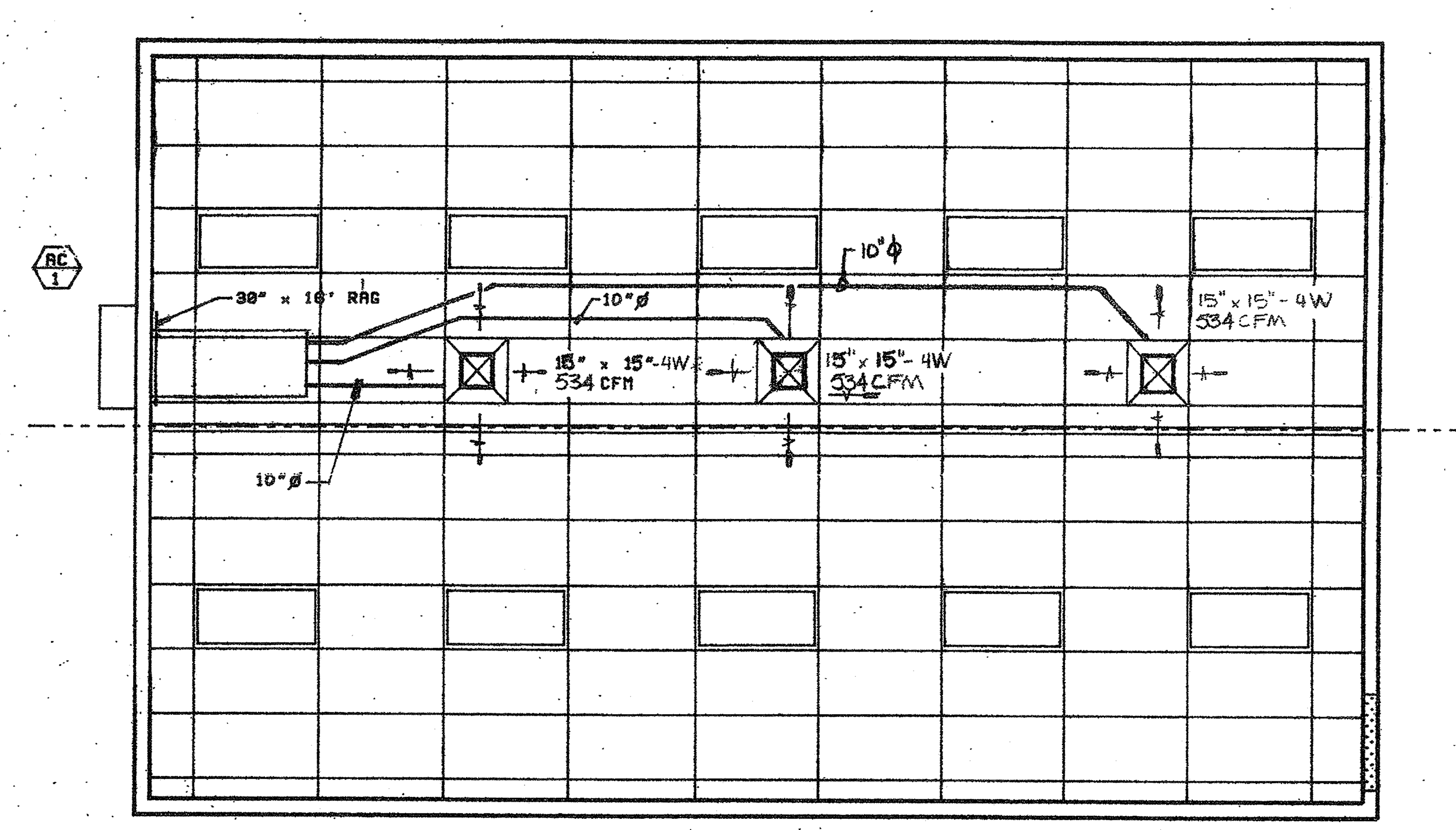
36,000 BTU COOLING
35,000 BTU HEATING
1200 CFM AT .5 E.S.P.
208/230v - 1PH - 60 CY MAX UNIT AMPS 24.0
MAX OPERATING WT- 500 lbs

(AC 3) 'BARD' MODEL 48WH5 WALL MOUNTED HEAT PUMP

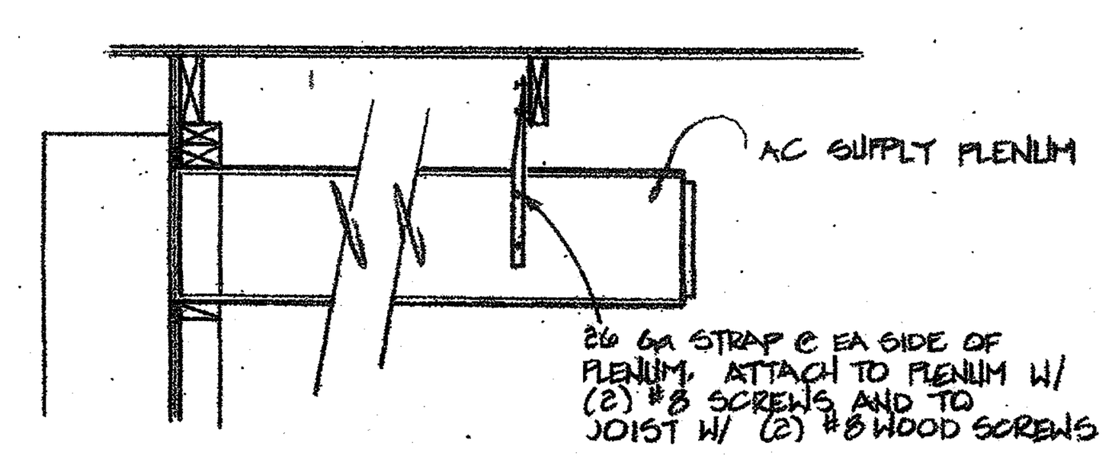
OMIT

48,000 BTU COOLING
48,000 BTU HEATING
1600 CFM AT .5 E.S.P.
120/208v - 1PH - 60 CY MAX UNIT AMPS 41.0
MAX OPERATING WT- 500 lbs

DUE TO VARIOUS BUILDING LOCATIONS, ALTERNATE AIR CONDITIONERS MAY APPLY.



AIR CONDITIONING PLAN



PLENUM SUPPORT

OSA
OFFICE OF THE STATE ARCHITECT
STRUCTURAL SAFETY SECTION
A 51667 MAR 22 1989
APPROVED APPLICATION NO.

ACS

FIRE MARSHAL
APPROVED
FIRE AND PANIC ONLY
MAR 22 1989
STATE FIRE MARSHAL
SOUTHERN REGION

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP03 119149
AC FLS AC SS
DATE JAN 7 2019

OFFICE OF THE STATE ARCHITECT
ACCESS COMPLIANCE SECTION
51667 MAR 22 '89

12/4/87
EXP. 3-31-90

AURORA MODULAR INDUSTRIES
1320 W. Oleander Ave.
Perris, California 92370
Phone • (714) 943-2071

24' x 40' SHEARWALL
RELOCATABLE CLASSROOM BUILDINGS

MECHANICAL
AIR CONDITIONING
PLAN

By | Date
SHEET
M-1

2014A

DESIGN VALUES:

DESCRIPTION	DESIGN VALUES
DEAD AND LIVE LOADS	
ROOF LIVE LOAD	20 PSF
ROOF DEAD LOAD (SUPERIMPOSED ON FRAME)	VARIES
ALLOWABLE SOIL PRESSURE	
DL+LL (CONCRETE FOOTING)	~~2000~~ PSF SEE LETTER
DL+LL+SEISMIC (CONCRETE FOOTING)	~~2000~~ PSF ON A8.1
ROOF SNOW LOAD	
GROUND SNOW LOAD, Pg, FROM COUNTY	10 PSF
RISK CATEGORY	[X] II [ ] III
ROOF SNOW LOAD: [ ] FLAT, Pf OR [ ] LOW-SLOPE, Pm OR [X] SLOPED, Ps	10 PSF
SNOW ROOF SLOPE FACTOR, Cs	1.0
SNOW EXPOSURE FACTOR, Ce	1.2
SNOW LOAD IMPORTANCE FACTOR, Is	[X] 1.0 [ ] 1.1
THERMAL FACTOR, Ct	[ ] 1.0 [X] 1.2
FLOOD DESIGN	
FLOOD HAZARD AREA: [ ] YES [X] NO	
WIND DESIGN	
BASIC WIND SPEED (3 SECOND GUST), Vult	110 MPH
RISK CATEGORY	[X] II [ ] III
EXPOSURE CATEGORY	[X] C [ ] D
TOPOGRAPHIC FACTOR, Kzt (1 MINIMUM)	1.0
INTERNAL PRESSURE COEFFICIENT, GCpi (IF APPLICABLE)	0.0
SEISMIC DESIGN	
LATERAL FORCE-RESISTING SYSTEM	STEEL ORDINARY CANTILEVER COLUMN SYSTEMS
ANALYSIS PROCEDURE	EQUIVALENT LATERAL FORCE PROCEDURE
SEISMIC DESIGN CATEGORY (SDC)	E
SEISMIC IMPORTANCE FACTOR, Ie	[X] 1.0 [ ] 1.25
DESIGN BASE SHEAR, V	Cs x W
SEISMIC RESPONSE COEFFICIENT, Cs	LOAD SCENARIO = { 1, 2, 3, 4 } Cs = { 0.80, 0.80, 1.07, 1.28 }
RESPONSE MODIFICATION FACTOR, R	1.25
SITE CLASS	[X] D [ ] E
REDUNDANCY FACTOR, p	1.3
MAPPED SPECTRAL RESPONSE ACCELERATION AT SHORT PERIOD, Ss - USED TO DETERMINE Cs (WITH CAP PER CBC 1616A.1.12)	LOAD SCENARIO = { 1, 2, 3, 4 } Ss (MAX) = { 1.875, 1.875, 2.500, 3.000 }
MAPPED SPECTRAL RESPONSE ACCELERATION AT SHORT PERIOD, Ss - USED TO DETERMINE OTHER PARAMETERS AND NON-STRUCTURAL COMPONENT ANHORAGE (NO CAP)	3.00
SHORT-PERIOD SITE COEFFICIENT, Fa	1.0
DESIGN SPECTRAL RESPONSE ACCELERATION AT SHORT PERIOD, Sds - USED TO DETERMINE Cs (WITH CAP PER CBC 1616.1.12)	LOAD SCENARIO = { 1, 2, 3, 4} Sds (MAX) = { 1.00, 1.00, 1.33, 1.60 }
DESIGN SPECTRAL RESPONSE ACCELERATION AT SHORT PERIOD, Sds - USED TO DETERMINE OTHER PARAMETERS AND NON-STRUCTURAL COMPONENTS ANCHORAGE (NO CAP)	2.00
MAPPED SPECTRAL RESPONSE ACCELERATION AT 1 SECOND PERIOD, S1	1.07
LONG-PERIOD SITE COEFFICIENT, Fv	1.5
DESIGN SPECTRAL RESPONSE ACCELERATION AT 1 SECOND PERIOD, Sd1	1.07
HORIZONTAL OR VERTICAL IRREGULARITIES TYPE(S)	NONE

ARCHITECTURAL REQUIREMENTS:

DESCRIPTION	DESIGN VALUES
TYPE OF CONSTRUCTION	VB
OCCUPANCY CLASSIFICATION	A3
NUMBER OF STORIES	1
FIRE HAZARD SEVERITY ZONE	VERY HIGH
FIRE SPRINKLER SYSTEM	NOT BY POLIGON

POLIGON ASSUMES ANY OCCUPANT LOAD CALCULATIONS ARE BASED ON 15 SQ FT/ PERSON. PROJECT ARCHITECT MAY ADJUST OCCUPANT LOAD AS PERMITTLED BY THE BUILDING CDE.

RELATED BUILDING CODES AND STANDARDS:

TITLE 24 CODES:

2013 California Administrative Code (CAC)..........................(Part 1, Title 24, CCR)
2013 California Building Code (CBC), Volumes 1, and 2 (Part 2, Title 24, CCR)
(2012 International Building Code with 2013 California amendments)
2013 California Electrical Code ....(Part 3, Title 24, CCR)
(2011 National Electrical Code with 2013 California amendments)
2013 California Mechanical Code (CMC) ....(Part 4, Title 24, CCR)
(2012 Uniform Mechanical Code with 2013 California amendments)
2013 California Plumbing Code (CPC) ....(Part 5, Title 24, CCR)
(2012 Uniform Plumbing Code with 2013 California amendments)
2013 California Energy Code ....(Part 6, Title 24, CCR)
(Effective July 1, 2014)
2013 California Fire Code (CFC) ....(Part 9, Title 24, CCR)
(2012 International Fire Code with 2010 California Amendments)
2013 California Green Building Standards Code...................(Part 11, Title 24, CCR)
(Effective January 1, 2014)
2013 California Referenced Standards Code .... (Part 12, Title 24, CCR)

NFPA 13 - 2013
NFPA 72 - 2013

REFERENCE CODE SECTIONS FOR APPLICABLE STANDARDS:

2013 CBC, CHAPTER **35**
2013 CFC, CHAPTER **45**

SCOPE OF WORK NARRATIVE:

THESE DRAWINGS ILLUSTRATE THE FABRICATION AND INSTALLATION REQUIREMENTS FOR A FREE-STANDING PREFABRICATED STEEL SHADE STRUCTURE. THE ENTIRE STRUCTURAL SYSTEM IS COMPRISED OF TUBULAR STEEL MEMBERS SUPPORTED ON CONCRETE FOUNDATIONS. THE FLEXIBILITY INCLUDED HEREIN ALLOWS THIS STRUCTURE TO COMPLY WITH A WIDE VARIETY OF PROJECT SITES AND LOADING REQUIREMENTS.

GENERAL:

1. GENERAL NOTES AND TYPICAL DETAILS SHALL APPLY TO ALL PARTS OF THE JOB EXCEPT WHERE THEY MAY CONFLICT WITH DETAILS AND NOTES ON OTHER SHEETS. WHERE CONDITIONS ARE NOT SPECIFICALLY INDICATED BUT ARE OF SIMILAR CHARACTER TO DETAILS SHOWN, SIMILAR DETAILS OF CONSTRUCTION SHALL BE USED SUBJECT TO REVIEW BY THE STRUCTURAL ENGINEER FOR THIS PROJECT.
2. WORK SHALL CONFORM TO THE REQUIREMENTS, AS AMENDED TO DATE, OF THE LATEST ADOPTED EDITION OF THE CBC, C.A.C. TITLE 24, AND ALL OTHER LOCAL, STATE AND FEDERAL REGULATIONS.
3. OMISSIONS OR CONFLICTS BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS AND/OR SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE STRUCTURAL ENGINEER FOR THIS PROJECT PRIOR TO PROCEEDING WITH ANY WORK INVOLVED.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE WORK OF ALL TRADES AND SHALL CHECK ALL DIMENSIONS. ALL DISCREPANCIES SHALL BE CALLED TO THE ATTENTION OF THE STRUCTURAL ENGINEER FOR THIS PROJECT AND BE RESOLVED BEFORE PROCEEDING WITH THE WORK.
5. THESE CONSTRUCTION DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE AND DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES, INCLUDING, BUT NOT LIMITED TO, BRACING, TEMPORARY SUPPORTS, AND SHORING. OBSERVATION VISITS TO THE SITE BY FIELD REPRESENTATIVES OF THE ARCHITECT/ENGINEER SHALL NOT INCLUDE INSPECTIONS OF THE PROTECTIVE MEASURES OR THE CONSTRUCTION PROCEDURES. ANY SUPPORT SERVICES PERFORMED BY THE ARCHITECT/ENGINEER DURING THE CONSTRUCTION SHALL BE DISTINGUISHED FROM CONSTRUCTION AND DETAILED INSPECTION SERVICES WHICH ARE FURNISHED BY OTHERS. THESE SUPPORT SERVICES PERFORMED BY THE ARCHITECT/ENGINEER, WHETHER OF MATERIAL OR WORK, ARE FOR THE PURPOSE OF ASSISTING IN QUALITY CONTROL AND IN ACHIEVING CONFORMANCE WITH CONTRACT DOCUMENTS, BUT DO NOT GUARANTEE CONSTRUCTION.
6. ASTM DESIGNATIONS AND ALL STANDARDS REFER TO THE LATEST AMENDMENTS.
7. CONFORM TO APPLICABLE CAL/OSHA CONSTRUCTION SAFETY REGULATIONS FOR ALL WORK PERFORMED DURING CONSTRUCTION. JOB SITE SAFETY IS STRICTLY THE RESPONSIBILITY OF THE CONTRACTOR AND NOT THE ARCHITECT/ENGINEER OR OWNER.
8. THE ENGINEER AND THEIR CONSULTANTS SHALL HAVE NO RESPONSIBILITY FOR THE DISCOVERY, HANDLING, REMOVAL OR DISPOSAL OF HAZARDOUS MATERIALS AT THE PROJECT SITE, INCLUDING BUT NOT LIMITED, TO ASBESTOS, ASBESTOS PRODUCTS, POLYCHLORINATED BIPHENYL (PCB) OR OTHER TOXIC SUBSTANCES.
9. SHOULD ANY CONDITIONS DEVELOP NOT COVERED BY THE CONTRACT DOCUMENTS, OR IF A CHANGE IN THE SCOPE OF WORK IS PROPOSED, A CONSTRUCTION CHANGE DOCUMENT DETAILING AND SPECIFYING THE REQUIRED CHANGE(S) SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK.
10. THE SCHOOL DISTRICT'S INSPECTOR OF RECORD SHALL INSPECT AND APPROVE THE ERECTED FRAME PRIOR TO ROOF INSTALLATION.
11. SEE REQUIREMENTS FOR LOCATION IN ANY FIRE HAZARD SEVERITY ZONE FOR WILDLAND URBAN INTERFACE AREAS (WUI) AS SPECIFIED IN THE APPLICABLE VERSION OF THE CALIFORNIA BUILDING CODE. PROVIDE PROTECTION AND DETAILS OF ALL AREAS COMPLYING WITH THE WUI REQUIRMENTS.
12. LOCATING THIS STRUCTURE CLOSER THAN 20 FEET TO OTHER STRUCTURES MAY AFFECT THE ALLOWABLE AREA FOR THE EXISTING CONSTRUCTION PER THE APPLICABLE VERSION OF THE CALIFORNIA BUILDING CODE.
13. VIEWS AND DETAILS ARE NOT DRAWN TO SCALE (UNLESS NOTED OTHERWISE). DO NOT SCALE THESE DRAWINGS.
14. OTHER SITE SPECIFIC ITEMS MAY BE REQUIRED.

STRUCTURAL AND MISCELLANEOUS STEEL:

1. ALL STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) SPECIFIATION MANUAL REFERENCED BY THE LATEST EDITION OF THE CALIFORNIA BUILDING CODE.
2. PIPE SECTIONS SHALL CONFORM TO ASTM A53, Fy = 35 ksi, GRADE B OR A501 UNLESS NOTED OTHERWISE.
3. STRUCTURAL TUBING (HSS SHAPES) SHALL CONFORM TO ASTM A500, GRADE B (OR HIGHER), Fy = 46 KSI.
4. IF MATERIAL AVAILABILITY IS LIMITED, MEMBER THICKNESSES CAN BE INCREASED BEYOND WHAT IS SHOWN IN THESE DRAWINGS (MAXIMUM INCREASE OF 1/8").
5. ALL CHANNELS, ANGLES, AND MISC. STEEL SHALL CONFORM TO ASTM A36, Fy = 36 KSI.
6. ALL COLD FORM STEEL SHALL CONFORM TO ASTM A653, CS = TYPE B, Fy = 50 KSI.
7. STRUCTURAL STEEL AND DECK SHALL BE IDENTIFIED FOR CONFORMITY PER CBC 2203A.1.
8. ROOF DECK SHALL HAVE KYNAR 5000 METAL COATING.
9. ROOF DECK SHALL CONFORM TO ATSM A792, Fy = 50 KSI.
10. MR ROOF SCREWS MEET ASTM A510 WITH A HEAD DIMENSION OF 0.31" (FLAT-TO-FLAT) AND INTEGRAL WASHER DIMENSION OF 0.58" (OUTSIDE DIAMETER).
11. SS ROOF SCREWS MEET ASTM A510 WITH A HEAD DIMENSION OF 0.437" (OUTSIDE DIAMETER).

WELDING:

1. ALL WELDING SHALL COMPLY WITH AWS D1.1 SPECIFICATIONS AND SHALL BE DONE BY AWS QUALIFIED WELDERS CERTIFIED FOR THE TYPE OF WELDING TO BE PERFORMED AS REQUIRED BY DSA.
2. ALL WELDING SHALL BE DONE BY GAS METAL ARC PROCESS WITH E70XX ELECTRODES. FLUX CORE ARC WELD SHALL CONFORM TO CHARPY NOTCH TOUGHNESS RATING OF 20 ft-lb @ (O° F).
3. ALL WELDING SHALL BE DONE IN THE SHOP WITH REQUIRED INSPECTION, PRE-APPROVED BY DSA, TO INSURE PROPER MATERIAL ID AND WELDING.
4. WELD FILLER METAL MANUFACTURER SHALL PROVIDE WRITTEN CERTIFICATION OF COMPLIANCE WITH CODE AND SPECIFICATIONS.

BOLTING:

1. ALL BOLTS SHOWN ON THESE DRAWINGS ARE ASTM A325 HIGH STRENGTH BOLTS (UNO), TYPE 3.
2. HIGH STRENGTH BOLTS SHALL BE SAMPLED AND TESTED IN COMPLANCE WITH CBC 2213A.1.
3. BEFORE ERECTING THE FRAME, VERIFY ALL BOLTS AND NUTS ARE CLEAN OF DEBRIS AND BURRS - INCLUDING THE HARDWARE ALREADY FASTENED INSIDE THE MEMBERS. CHASING SOME OF THE BOLTS AND NUTS MAY BE REQUIRED.
4. ANCHOR BOLTS (HEAVY HEX HEAD, ASTM F1554, GRADE 55) SHALL BE HOT DIPPED GALVANIZED PER ASTM F2329. ANCHOR BOLTS MAY BE HEADED OR THREADED WITH A NUT THAT IS PREVENTED FROM ROTATING.
5. HIGH STRENGTH NUTS SHALL CONFORM TO ASTM A563.
6. HIGH STRENGTH WASHERS SHALL CONFORM TO ASTM F436.
7. THE BOLTING INSTALLATION REQUIREMENTS OUTLINED BELOW ARE CRITICAL TO THE STRUCTURE'S DESIGN AND PERFORMANCE. **THE INSTALLER IS REQUIRED TO COORDINATE THIS PHASE OF CONSTRUCTION WITH THE SPECIAL BOLTING INSPECTOR AND THE INSPECTOR OF RECORD PRIOR TO THE ERECTION OF THE FRAME**. ALL BOLTS SHALL BE INSTALLED AND INSPECTED PER THE APPLICABLE VERSION OF AISC'S "SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS", CBC 1705A.2.1; AISC 341-10 J7; AISC 360-10 N5.6.
   - A. PRETENSIONED JOINTS (IDENTIFIED ON THE FRAME CONNECTION DETAILS WITH A "PJ REQUIRED") MUST BE INSTALLED AND INSPECTED TO MEET ONE OF FOLLOWING REQUIREMENTS:
     1. TURN-OF-NUT PRETENSIONING
     2. CALIBRATED WRENCH PRENTENSIONING
     3. DIRECT-TENSION-INDICATOR PRETENSIONING (CONTRACTOR RESPONSIBLE FOR PURCHASE OF REQUIRED WASHERS)
   - B. ALL OTHER JOINTS MUST BE INSTALLED AND INSPECTED TO MEET THE REQUIREMENTS OF SNUG-TIGHTENED JOINTS. **NOTE TO INSTALLER AND INSPECTOR(S): THE SNUG-TIGHT CONDITION EXISTS, IN PART, WHEN ALL THE BOLTS IN THE JOINT HAVE BEEN TIGHTENED SUFFICIENTLY TO PREVENT THE REMOVAL OF THE NUTS WITHOUT THE USE OF A WRENCH.**

THE CONTRACTOR, SPECIAL BOLTING INSPECTOR AND THE INSPECTOR OF RECORD MUST ALL AGREE ON WHICH APPROACH WILL BE USED TO PRETENSION THE BOLTS. THE CONTRACTOR IS RESPONSIBLE FOR DOCUMENTING THE APPROACH AGREED TO BY ALL PARTIES LISTED ABOVE.

FOUNDATIONS:

2. ALLOWABLE SOIL PRESSURES ASSUME CLASS 4 SOIL CLASSIFICATION PER CBC TABLE 1806A.
3. FILL AND BACKFILL SHALL BE COMPACTED TO 95% OF MAX. DENSITY IN ACCORDANCE WITH ASTM TEST METHOD D1557-70. FLOODING NOT PERMITTED.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SHORING, ETC. NECCESSARY TO SUPPORT CUT AND/OR FILL BANKS DURING EXCAVATION, AND FORMING AND PLACEMENT OF CONCRETE.

CONCRETE:

1. MIX DESIGN REQUIREMENTS: (NORMAL WEIGHT CONCRETE)

STRENGTH f'c (28 DAYS)	W/C RATIO (NON-AIR ENTRAINED)	W/C RATIO (AIR ENTRAINED)	SLUMP (± 1")	UNIT WEIGHT (NORMAL WEIGHT)
5000 PSI	0.63	0.55	3"	150 PCF

2. CHANGES TO THE MIX DESIGN MUST BE APPROVED BY THE ENGINEER OR ARCHITECT OF RECORD AND DSA
3. AGGREGATES SHALL CONFORM TO ASTM C33 WITH PROVEN SHRINKAGE CHARACTERISTICS OF LESS THAN .005. MAX AGGREGATE SIZE = 1".
4. CEMENT SHALL CONFORM TO ASTM C150 (TYPE V) UNLESS NOTED OTHERWISE ON THE DRAWINGS.
5. CONCRETE SHALL BE MAINTAINED IN A MOIST CONDITION FOR A MINIMUM OF FIVE DAYS AFTER PLACEMENT. ALTERNATE METHODS WILL BE APPROVED IF SATISFACTORY PERFORMANCE CAN BE ASSURED.
6. CONCRETE SHALL NOT FREE FALL MORE THAN FIVE FEET.
7. CONCRETE SHALL BE PROPORTIONED PER ACI 318-11 5.2.
8. CONCRETE SHALL BE TESTED PER CBC 1905A.1.2, 1913A.1, 1705A.3, AND ACI 318-11 5.6.

REINFORCING STEEL:

1. REINFORCING STEEL SHALL BE DEFORMED STEEL CONFORMING TO THE REQUIREMENTS OF ASTM A615, (DEFORMATIONS SHALL BE IN ACCORDANCE WITH ASTM A305) AS FOLLOWS:
   GR 60: (#4 BARS AND LARGER)
   GR 40: (#3 BARS)
2. DETAILING, FABRICATION, AND ERECTION OF REINFORCING BARS SHALL CONFORM THE ACI "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCING CONCRETE STRUCTURES."
3. MIN. COVER FOR CAST-IN-PLACE CONCRETE SHALL BE AS FOLLOWS:
   - A. CAST AGAINST EARTH........................ 3"
   - B. CAST AGAINST FORM BELOW GRADE.................. 2"
   - C. FORMED SLABS (#11 BAR & SMALLER)................. 3/4"
   - D. SLABS ON GRADE (FROM TOP OF SLAB)................. 1"
   - E. COLUMNS AND BEAMS (MAIN BARS)..................... 2"
   - F. WALLS EXPOSED TO WEATHER (#6-#18 BARS)......... 2"
     (#5 & SMALLER)......... 11/2"
   - G. NOT EXPOSED TO WEATHER (#11 & SMALLER)........ 3/4"
4. BARS SHALL BE CLEAN OF RUST, GREASE OR OTHER MATERIAL LIKELY TO IMPAIR BOND. BENDS SHALL BE MADE COLD.
5. REINFORCING SHALL BE LAP SPLICED 45 BAR DIA. MINIMUM IN CONCRETE AND MUST COMPLY WITH ACI 318-11.
6. PRIOR TO PLACING OF CONCRETE, REINFORCING STEEL AND EMBEDDED ITEMS SHALL BE WELL SECURED IN POSITION.
7. WELDING OF REINFORCING IS NOT ALLOWED
8. REINFORCING STEEL SHALL BE SAMPLED AND TESTED PER CBC 1913A.2.

POWDER COATED AND EPOXY PRIMED FINISH:

1. ENTIRE POWDER COATING PROCESS COMPLETED IN SAME FACILITY AS STEEL FABRICATION.
2. ALL CARBON STEEL MEMBERS (COLUMNS, BEAMS, PLATES, ETC.) PAINTED WITH PRIME COAT PER THE "AISC CODE OF STANDARD PRACTICE" AND THE "AISC SPECIFICATION SECTION M3" (UNLESS NOTED OTHERWISE).
3. PARTS PRETREATED IN A 3 STAGE IRON PHOSPHATE WASHER (OR EQUAL).
4. EPOXY PRIMER POWDER COAT APPLIED TO PARTS FOR SUPERIOR CORROSION PROTECTION.
5. TOP POWDER COAT OF SUPER DURABLE TGIC (COLOR SELECTED FROM MANUFACTURER'S STANDARD OPTIONS OR CUSTOM COLOR).
6. SAMPLE PRODUCTION PARTS TESTED TO MEET THE FOLLOWING CRITERIA:
   - A. SALT SPRAY RESISTANCE PER ASTM B 117/ ASTM D 1654
     1. 10000 HOURS WITH NO CREEP FROM SCRIBE LINE AND RATING OF 10
   - B. HUMIDITY RESISTANCE PER ASTM D2247-02
     1. 5000 HOURS WITH NO LOSS OF ADHESION OR BLISTERING
   - C. COLOR/UV RESISTANCE PER ASTM G154-04
     1. 2000 HOURS EXPOSURE ALTERNATE CYCLES WITH NO CHALKING, 75% COLOR RETENTION, AND COLOR VARIATION MAXIMUM 3.0 E VARIATION CIE FORMULA (BEFORE AND AFTER 2000 HOURS EXPOSURE

ABBREVIATIONS:

ACI	AMERICAN CONCRETE INSTITUTE	MR	MULTI-RIB ROOF PANEL (MCELROY)
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	NTS	NOT TO SCALE
ASM	ASSEMBLY (INTERNAL REFERENCE)	NO	NUMBER
ASTM	AMERICAN SOCIETY FOR TESTING AND MAT'LS	OC	ON CENTER
AWS	AMERICAN WELDING SOCIETY	OSHA	OCCUPATIONAL HEALTH AND SAFETY ADM.
CBC	CALIFORNIA BUILDING CODE	PCF	POUNDS PER CUBIC FOOT
CJP	COMPLETE JOINT PENETRATION	PD	POLIGON DRAWING
CLR	CLEAR	PJ	PRETENSIONED JOINT
DEG	DEGREE	PLCS	PLACES
DIA	DIAMETER	PLT	PLATE
DIM	DIMENSION	PSF	POUNDS PER SQUARE FOOT
DSA	DIVISION OF THE STATE ARCHITECT	PSI	POUNDS PER SQUARE INCH
EQ	EQUAL	QTY	QUANTITY
FT	FEET	REF	REFERENCE
GA	GAGE	RH	RIGHT HAND
IN	INCHES	SQ	SQUARE
KSI	KIPS PER SQUARE INCH	SS	STANDING SEAM ROOF PANEL (MCELROY)
LH	LEFT HAND	TYP	TYPICAL
MAX	MAXIMUM	UNO	UNLESS NOTED OTHERWISE
MIN	MINIMUM	USGS	U.S. GEOLOGICAL SURVEY
MISC	MISCELLANEOUS	W/	WITH
MPH	MILES PER HOUR		

INSTRUCTIONS FOR ARCHITECTS SUBMITTING THESE PRE-CHECKED DRAWINGS TO DSA:

BEFORE SUBMITTING THESE PRE-CHECKED DRAWINGS FOR YOUR PROJECT, FOLLOW THE STEPS BELOW TO PROPERLY DEFINE THE APPROVED OPTIONS:
THE POLIGON ENGINEERING DEPARTMENT IS AVAILABLE TO HELP YOU COMPLETE THESE STEPS (616-399-1963).

STEP 1: SELECT FRAME DIMENSIONS FOR YOUR PROJECT
- STRUCTURES UP TO 20' WIDE USE THE "RAM 20" BASE FRAME
- STRUCTURES UP TO 30' WIDE USE THE "RAM 30" BASE FRAME
- THE 20' AND 30' WIDTHS ARE SUGGESTED BECAUSE THEY ARE THE MOST ECONOMICAL
- MAXIMUM WIDTH IS 30'; (SEE 'ARCHITECTURAL VIEWS' SHEET FOR REFERENCE)
- THE 44', 64', AND 84' LENGTHS ARE SUGGESTED BECAUSE THEY ARE THE MOST COMMON (20' BAYS ARE MOST ECONOMICAL)
- FRAME WIDTHS AND LENGTHS ASSUME 2' OVERHANGS (UNO BY ARCHITECT - 2' MAX DIMENSION)

STEP 2: SELECT ROOF DECK FOR YOUR PROJECT
- "MR" REPRESENTS MCELROY METAL "MULTI-RIB" ROOF DECK
- "SS" REPRESENTS MCELROY METAL "MEDALLION-LOK" 16" STANDING SEAM ROOF DECK

STEP 3: IDENTIFY THE Ss ACCELERATION (g) FOR YOUR PROJECT
- Ss VALUE DETERMINES THE REQUIRED SEISMIC DESIGN FORCES
- Ss VALUE DEPENDS ON THE PROJECTS GEOGRAPHICAL LOCATION (VALUES RANGE FROM 0.00 TO 3.73)
  - FIND Ss VALUES FOR YOUR PROJECT ON THE USGS WEBSITE (SEARCH INTERNET FOR "USGS SEISMIC DESIGN MAPS")
- THIS PC IS NOT APPROVED FOR Ss VALUES GREATER THAN 3.00 (CONTACT POLIGON FOR ADDITIONAL OPTIONS)

STEP 4: IDENTIFY THE Ss REGION FOR YOUR PROJECT
- THE REGIONS ARE DEPENDANT ON THE Ss VALUE DETERMINED IN STEP 3
- REFERENCE DSA BU 14-01 FOR A MAP OF VARIOUS Ss REGIONS
- THE Ss REGION DICTATES THE MAXIMUM DEAD LOAD PERMITTED ON THE FRAME (SEE TABLE TO THE RIGHT)

STEP 5: IDENTIFY THE ROOF DEAD LOAD FOR YOUR PROJECT
- THE ROOF DECK DEAD LOAD WILL ALWAYS BE INCLUDED
- THE COLLATERAL LOAD REPRESENTS ADDITIONAL LOAD THAT CAN BE SUPPORTED BY THE FRAME
- BE SURE THE TOTAL ROOF DEAD LOAD FOR YOUR PROJECT IS LESS THAN OR EQUAL TO THE MAX DEAD LOAD SHOWN IN STEP 4

STEP 6: IDENTIFY THE FOUNDATION REQUIREMENTS FOR YOUR PROJECT
- REFERENCE THE Ss REGION (STEP 4) AND THE TOTAL ROOF DEAD (STEP 5)
- IDENTIFY **A SINGLE** LOAD SCENARIO
  - E.G. A PROJECT IN THE WHITE Ss REGION WITH A 4 PSF ROOF DEAD LOAD IS LOAD SCENARIO 2
  - LOAD SCENARIOS HAVE NO IMPACT ON FRAME DESIGN OR COST (BUT DO AFFECT FOUNDATION SIZE)
- SELECT **EITHER** SPREAD PAD OR DRILLED PIER FOUNDATION
  - FOUNDATION TYPE IMPACTS STEEL FABRICATION (COLUMN LENGTH) AND CONSTRUCTION (TIMING, SEQUENCE, COST, ETC.)
  - POLIGON CAN REVIEW THE SITE-SPECIFIC SOILS REPORT TO EVALUATE THE POSSIBILITY OF SMALLER FOUNDATIONS

STEP 1 — FRAME DIMENSIONS

	SUGGESTED			OTHER
FRAME WIDTH	□ 20'	□ 30'		□ 16'-0" (30' MAX)
FRAME LENGTH	[X] 44'	□ 64'	□ 84'	□ (NO MAX)

STEP 2 — ROOF DECK

ROOF DECK TYPE	□ MR	[X] SS

STEP 3 — Ss ACCELERATION (g)

2.697

STEP 4 — Ss REGIONS[1]

		Ss REGIONS	MAX DEAD LOAD
DESCRIPTION	□ WHITE	0.000 < Ss <= 1.875	5 PSF
	□ BLUE	1.875 < Ss <= 2.500	3.5 PSF
	[X] GREEN	2.500 < Ss <= 2.750	2 PSF
	□ YELLOW	2.750 < Ss <= 3.000	2 PSF

[1] REFERENCE DSA BU 14-01 FOR A MAP OF VARIOUS Ss REGIONS

STEP 5 — TOTAL ROOF DEAD LOAD

	DEAD LOAD	EXAMPLES
ROOF DECK	1.8 PSF	MR = 1.2 PSF ; SS = 1.8 PSF (SEE STEP 2)
COLLATERAL[1]	0.0 PSF	LIGHTING, FIRE SUPPRESSION, PV PANELS, ETC.
TOTAL[2]	1.8 PSF	ADD ROOF DECK AND COLLATERAL LOADS

[1] PROVIDE DSA WITH EVIDENCE THAT THE COLLATERAL LOAD FOR YOUR PROJECT MEETS THESE REQUIREMENTS
[2] MAY NOT EXCEED REQUIREMENTS LISTED IN STEP 6 BELOW

STEP 6 — FOUNDATION REQUIREMENTS

Ss REGION	DEAD LOAD (DL)	LOAD SCENARIO	SPREAD PAD	DRILLED PIER
WHITE	DL <= 2 PSF	□ LOAD SCENARIO 1	□	[X]
	2 PSF < DL <= 5 PSF	□ LOAD SCENARIO 2		
BLUE	DL <= 3.5 PSF	□ LOAD SCENARIO 3		
GREEN	DL <= 2 PSF	[X] LOAD SCENARIO 4		
YELLOW	DL <= 2 PSF	□ LOAD SCENARIO 4		

STEP 7: SELECT MISCELLANEOUS OPTIONS FOR YOUR PROJECT
- MAXIMUM CLEAR HEIGHT IS 10'-0"; (SEE 'ARCHITECTURAL VIEWS' SHEET FOR REFERENCE)
- MARK UP PC DRAWINGS WITH SIZE AND LOCATION OF CUTOUTS BEFORE SUBMITTING TO DSA

STEP 8: SELECT APPLICABLE SHEET INDEX FOR YOUR PROJECT
- REFERENCE THE BASE FRAME (STEP 1) AND THE ROOF DECK TYPE (STEP 2)
- IDENTIFY THE APPLICABLE SHEET INDEX

STEP 9: INCLUDE APPLICABLE SHEETS WITH YOUR DSA SUBMITTAL
- EXCLUDE 'MISC DESIGN OPTIONS' SHEET FOR PROJECTS WITHOUT ELECTRICAL CUTOUTS OR GUTTERS

STEP 10: IDENTIFY PROJECT NAME AND SCHOOL DISTRICT

PROJECT NAME: CLOUD PRESCHOOL PORTABLES

SCHOOL DISTRICT: GLENDALE UNIFIED SCHOOL DISTRICT

STEP 7 — MISCELLANEOUS

	DESIGN OPTIONS	
CLEAR HEIGHT	[X] 10'-0"	□ (10' MAX)
ELECTRICAL CUTOUTS	□ YES	[X] NO
GUTTERS	[X] YES	□ NO

STEP 8 — SHEET INDEX

BASE FRAME	RAM 20		RAM 30	
ROOF DECK	MR	SS	MR	SS
SELECT ONE	□	[X]	□	□
GENERAL NOTES	PD1.0	PD1.0	PD1.0	PD1.0
SPECIAL INSPECTIONS	PD1.1	PD1.1	PD1.1	PD1.1
FOUNDATION PLAN	PD2.0	PD2.0	PD2.1	PD2.1
FRAMING PLAN	PD3.0	PD3.0	PD3.1	PD3.1
FRAME CONNECTION DETAILS	PD4.0	PD4.0	PD4.1	PD4.1
SECTION DETAILS	PD5.0	PD5.0	PD5.1	PD5.1
PLATE DETAILS	PD6.0 - PD6.1		PD6.2 - PD6.3	
ARCHITECTURAL VIEWS	PD7.0	PD7.0	PD7.1	PD7.1
ROOF CONNECTION DETAILS	PD8.0	PD8.1	PD8.0	PD8.1
MISC DESIGN OPTIONS	PD9.0	PD9.0	PD9.0	PD9.0

(Revision 1)

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP03 119149
AC / FLS / SS
DATE JAN 7 2019

REGISTERED PROFESSIONAL ENGINEER No. S4378 Exp. 3/31/16 STRUCTURAL STATE OF CALIFORNIA

CARLTON Engineering Inc.

poligon

STATE APPROVALS
File No. PC-1
Rev. 1

PRE-CHECK (PC) DOCUMENT
CODE: 2013 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

GENERAL NOTES
HIP ROOF (RAM)
PC DRAWINGS

DRAWN BY: JMD
CHECKED BY: CE
POLIGON #: 51458

PD1.0

2014A

SPECIAL INSPECTION NOTES:

1. THE PROJECT INSPECTOR AND TESTING AGENCY SHALL BE SELECTED BY THE SCHOOL DISTRICT AND APPROVED BY DSA AND THE ARCHITECT OF RECORD.
2. COSTS OF THE PROJECT INSPECTOR AND THE TESTING AGENCY SHALL BE BORN BY THE SCHOOL DISTRICT.
3. THE PROJECT INSPECTOR, AND ENTIRE CONSTRUCTION OVERSIGHT PROCESS, SHALL COMPLY WITH DSA PR 13-01.
4. ON APPROVED PC DRAWINGS, THE STATEMENT OF STRUCTURAL TESTS AND SPECIAL INSPECTIONS (FORM DSA-103) BELOW IS ONLY AN EXAMPLE. ON APPROVED PC DRAWINGS, THE EXAMPLE FORM DSA-103 MUST BE CROSSED OUT BEFORE THE PC DRAWINGS CAN BE APPROVED AS PART OF A SITE-SPECIFIC (OR STOCKPILE) PROJECT SO THEY WILL NOT CONFLICT WITH THE OFFICIAL FORM DSA-103 FOR THE PROJECT.

DSA
DIVISION OF THE STATE ARCHITECT
DEPARTMENT OF GENERAL SERVICES

DSA-103 rev 12/20/13

Statement of Structural Tests & Special Inspections - 2013 CBC

INCREMENT #
DSA File No.: PC-1
Application No.: 02-113591
Date Submitted:
Revised:
Revised:

School Name: EXAMPLE - REMOVE ON SITE-SPECIFIC PROJECTS
District: EXAMPLE - REMOVE ON SITE-SPECIFIC PROJECTS

IMPORTANT: This form is only a summary list of structural tests and special inspections required for the project. The actual tests and inspections must be performed as detailed on the DSA approved documents. The project inspector is responsible for providing inspection of all facets of construction, including but not limited to, special inspections not listed on this form such as structural wood framing, high-load wood diaphragms, cold-formed steel framing, anchorage of non-structural components, etc., per Title 24, Part 2, Chapter 17A.
NOTE: This form is also available for projects submitted for review under the 2007 and 2010 CBC.

INSTRUCTIONS: Click a plus sign (+) before any category or subcategory to reveal additional tests and special inspections. An "X" before a listed test or inspection indicates it is a mandatory requirement. A shaded box indicates a test or special inspection that may be required, depending on the scope of the construction and other issues. A shaded box can be clicked indicating your selection of that test. **Note:** A minus (-) on a category or subcategory heading indicates that it can be collapsed. However, any selections you may have made will be cleared. Click on the "COMPILE" button to show only the tests finally selected. **For more information on use of this form, see DSA-103.INSTR.**

Note: References are to the 2013 edition of the California Building Code (CBC) unless otherwise noted.

REQUIRED	TEST OR SPECIAL INSPECTION	TYPE[1]	PERFORMED BY[2]	CODE REFERENCE AND NOTES
-	**SOILS**			
	1. GENERAL:	Table 1705A.6		
X	a. Verify that: • site has been prepared properly prior to placement of controlled fill and/or excavations for foundations, • foundation excavations are extended to proper depth and have reached proper material, and • materials below footings are adequate to achieve the design bearing capacity.	Periodic	GE*	* By geotechnical engineer or his or her qualified representative.
-	**4. CAST-IN-PLACE DEEP FOUNDATIONS (PIERS):**	Table 1705A.7		
X	a. Inspect drilling operations and maintain complete and accurate records for each pier.	Continuous	GE*	* By geotechnical engineer or his or her qualified representative.
X	b. Verify locations of piers.	Continuous	PI	
X	c. Confirm pier diameters, plumbness, bell diameters (if applicable), lengths, and embedment into bedrock (if applicable). Record concrete or grout volumes.	Continuous	GE*	* By geotechnical engineer or his or her qualified representative.
X	e. Concrete piers.	Provide tests and inspections per CONCRETE section below.		
-	**CONCRETE**	Table 1705A.3		
-	**7. CAST IN PLACE CONCRETE**			
	Material Verification and Testing:			
X	a. Verify use of required design mix.	Periodic	SI & PI*	* To be performed by batch-plant special inspector and project inspector.
X	b. Test reinforcing steel.	Test	Lab	**1913A.2** (1913.2.6*). ASTM A370. DSA IR 17-10
X	c. Perform slump, temperature, and (where required) air content tests.	Test	Lab	ASTM C172, ASTM C31.
X	d. Test concrete (compression).	Test	Lab	**ACI 318 Section 5.6 and 1905A.1.2** (1913.3.1*). ASTM C39.
X	g. Inspect placement of formwork, reinforcing steel, embedded items and concrete. Inspect curing and form removal.	Continuous	PI*	* May be performed by a special inspector when specifically approved by DSA.
+	**MASONRY**	TMS 402-11/ACI 530-11/ASCE 5-11 Table 1.19.3		
-	**STEEL**	Table 1705A.2.1		
-	**17. STRUCTURAL STEEL AND COLD-FORMED STEEL USED FOR STRUCTURAL PURPOSES**			
	Material Verification:			
X	a. Verify that all materials are appropriately marked and that: • Mill certificates indicate material properties that comply with requirements, • Material sizes, types and grades comply with requirements.	Periodic	*	* By special inspector when performed off-site; by project inspector for steel shipped directly to project site without welding or fabrication.
X	b. Test unidentified materials	Test	Lab	**2203A.1** (2203.1*). ASTM A370.
X	c. Examine seam welds of structural tubes and pipes	Periodic	SI*	* DSA IR 17-3.
	Inspection:			
X	d. Verify member locations, bracing and all details constructed in the field.	Continuous	PI	
X	e. Verify stiffener locations, connection tab locations and all construction details fabricated in the shop.	Periodic	SI	
-	**18. HIGH STRENGTH BOLTS:**			
	Material Verification of High-Strength Bolts, Nuts, and Washers:			
X	a. Verify identification markings and manufacturer's certificates of compliance conform to ASTM standards specified in the DSA approved documents.	Periodic	SI	DSA IR 17-9
X	b. Test high-strength bolts, nuts and washers.	Test	Lab	**2213A.1** (2212.6.1*). ASTM F606, A370. DSA IR 17-8
	Inspection of High-Strength Bolt Installation:			
X	d. Slip-critical connections.	*	SI	* "Continuous" or "Periodic" depends on the tightening method used, DSA IR 17-9 and **1705A.2.1.**
-	**19. WELDING:**			DSA IR 17-3, AWS D1.1 and AWS D1.8 (AWS D1.3 for cold formed steel).
	Verification of Materials, Equipment, Welders, etc:			
X	a. Verify weld filler material identification markings per AWS designation listed on the DSA approved documents and the WPS.	Periodic	SI	
X	b. Verify weld filler material manufacturer's certificate of compliance.	Periodic	SI	
X	c. Verify WPS, welder qualifications and equipment.	Periodic	SI	DSA IR 17-3.
-	**19.1 SHOP WELDING:**			
X	a. Inspect groove, multi-pass, and fillet welds > 5/16"	Continuous	SI	Per AISC 360 (and AISC 341 as applicable). DSA IR 17-3.
X	b. Inspect single-pass fillet welds ≤ 5/16"	Periodic	SI	Per AISC 360 (and AISC 341 as applicable). DSA IR 17-3.
+	**WOOD**			
+	**OTHER**			

1 Soils testing and Inspection: Geotechnical Verified Report - Form DSA-293
2 All Structural Testing: Laboratory Verified Report - Form DSA-291
3 Concrete Batch Plant Inspection: Special Inspection Verified Report - Form DSA-292
4 Shop Welding Inspection: Special Inspection Verified Report - Form DSA-292
5 HS Bolt Installation Inspection: Special Inspection Verified Report - Form DSA-292

KEY to Columns

1 Type -	2 Performed By -
Continuous – Indicates that a continuous special inspection is required	**GE** – Indicates that the special inspection is to be performed by a registered geotechnical engineer or his or her authorized representative
Periodic – Indicates that a periodic special inspection is required	**Lab** – Indicates that the test or inspection is to be performed by a testing laboratory accepted in the DSA laboratory Evaluation and Acceptance (LEA) Program. See section 4-335, 2013 CCR Title 24, Part 1.
Test – Indicates that a test is required	**PI** – Indicates that the special inspection is to be performed by the project inspector
	SI – Indicates that the special inspection is to be performed by a special inspector

Name of Architect or Engineer in general responsible charge

THOMAS A. BURKHART
Name of Structural Engineer (When structural design has been delegated)

T.A. Burkhart 8/28/14
Signature of Architect or Structural Engineer date

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AC ✓ FLS ✓ SS [initials]
DATE JAN 7 2019

REGISTERED PROFESSIONAL ENGINEER
THOMAS A. BURKHART
No. S4378
Exp. 3/31/16
STRUCTURAL
STATE OF CALIFORNIA

TEAM DRIVEN SOLUTIONS FOR THE BUILT ENVIRONMENT
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A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

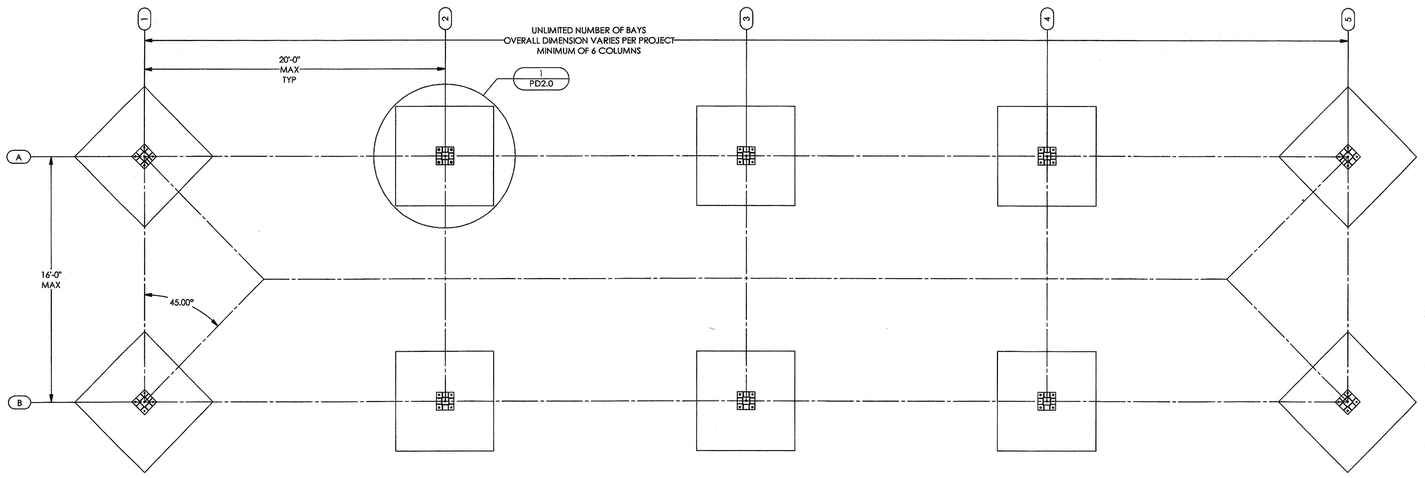
SPECIAL INSPECTIONS

HIP ROOF (RAM)
PC DRAWINGS

DRAWN BY: JMD
CHECKED BY: CE
POLIGON #: 51458

PD1.1

2014A



FOUNDATION PLAN (SPREAD PAD)

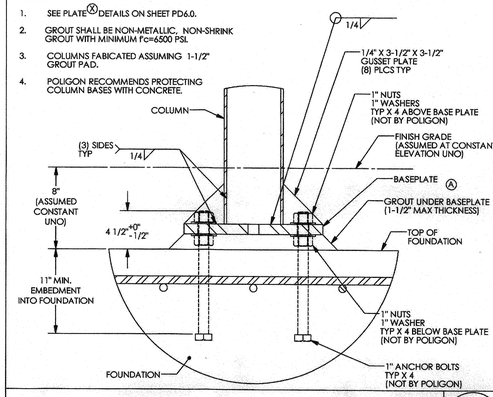
SCALE: 1/4" = 1'-0"

FOUNDATION PLAN NOTES:

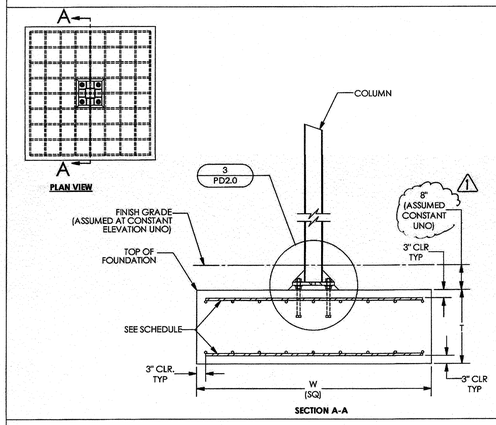
1. TOP OF ALL FOUNDATIONS MUST BE CONSTRUCTED AT ONE COMMON ELEVATION (COORDINATE WITH SITE PLANS - NOT BY POLIGON)
2. ALL FOUNDATIONS MUST BE CENTERED UNDER COLUMNS (UNO).
3. SEE SHEET PD1.0 FOR CONCRETE REQUIREMENTS.
4. PRIOR TO FORMING AND CASTING FOUNDATIONS, REVIEW FOUNDATION PLAN FOR REQUIRED ORIENTATION.
5. FOUNDATION MATERIAL AND INSTALLATION NOT BY POLIGON.
6. VIBRATE CONCRETE FULL DEPTH OF FOUNDATION.
7. FOR DRILLED PIER FOUNDATIONS, PREVENT SOIL FROM ENTERING EXCAVATED HOLE (FORM, ETC).

NOTES:

1. SEE PLATE Ⓧ DETAILS ON SHEET PD6.0.
2. GROUT SHALL BE NON-METALLIC, NON-SHRINK GROUT WITH MINIMUM f'c=6500 PSI.
3. COLUMNS FABICATED ASSUMING 1-1/2" GROUT PAD.
4. POLIGON RECOMMENDS PROTECTING COLUMN BASES WITH CONCRETE.



COLUMN BASE PLATE AND ANCHOR BOLTS — 3



SECTION A-A

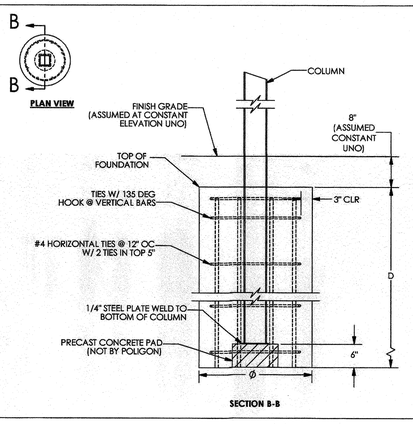
FOUNDATION REQUIREMENTS VARY PER PROJECT
SEE SHEET PD1.0 FOR REQUIRED LOAD SCENARIO AND FOUNDATION TYPE (STEP 6 OF 'INSTRUCTIONS')
ONLY REFERENCE COPY OF PC DRAWINGS SUBMITTED FOR THIS PROJECT

SPREAD PAD
SIZE AND REINFORCING REQUIREMENTS

LOAD SCENARIO	WIDTH (W)	THICKNESS (T)	HORIZONTAL REINFORCING[1]	
			QTY	SIZE
1	6'-0"	1'-6"	6	#6
2	6'-0"	2'-0"	8	#6
3	7'-0"	2'-0"	9	#6
4	7'-6"	2'-0"	9	#6

[1] EQUALLY SPACED EACH W AY, TOP AND BOTTOM

SPREAD PAD FOUNDATION — 1



SECTION B-B

FOUNDATION REQUIREMENTS VARY PER PROJECT
SEE SHEET PD1.0 FOR REQUIRED LOAD SCENARIO AND FOUNDATION TYPE (STEP 6 OF 'INSTRUCTIONS')
ONLY REFERENCE COPY OF PC DRAWINGS SUBMITTED FOR THIS PROJECT

DRILLED PIER
SIZE AND REINFORCING REQUIREMENTS

LOAD SCENARIO	DIAMETER (Ø)	DEPTH (D)	VERTICAL REINFORCING[1]	
			QTY	SIZE
1	2'-6"	8'-0"	6	#6
2	2'-6"	9'-6"	8	#6
3	2'-6"	10'-0"	8	#6
4	2'-6"	10'-0"	8	#6

[1] EQUALLY SPACED AROUND DRILLED PIER

PRIOR TO CONCRETE PLACEMENT, POLIGON STRONGLY RECOMMENDS ERECTING ENOUGH OF THE FRAME (E.G. BEAMS AND PURLINS) TO ENSURE ACCURATE COLUMN SPACING, ROTATION, AND VERTICALITY.

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DRILLED PIER FOUNDATION (BURIED COLUMN) — 2

REGISTERED PROFESSIONAL ENGINEER
THOMAS A. BURGHART
No. S4378
Exp. 3/31/14
STRUCTURAL
STATE OF CALIFORNIA

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A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

FOUNDATION PLAN
RAM 20
HIP ROOF (RAM)
PC DRAWINGS

DRAWN BY: JMD
CHECKED BY: CE
POLIGON #: 51458

PD2.0

PD3.0

FRAMING PLAN
RAM 20

HIP ROOF (RAM)
PC DRAWINGS

DRAWN BY: JMD
CHECKED BY: CE
POLIGON #: 51458

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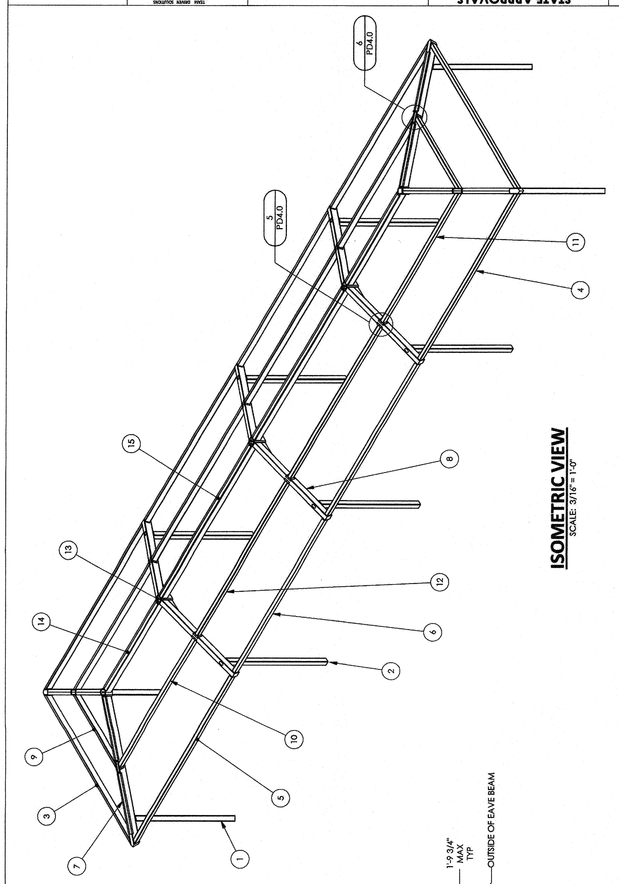
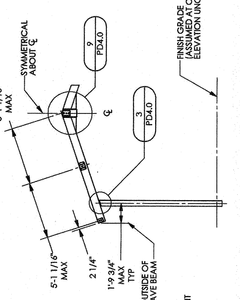
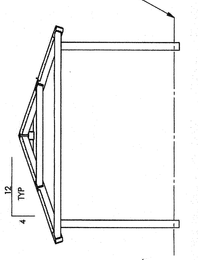
ITEM	FRAME/QTY.	PART NO.	DESCRIPTION	MATERIAL
1	4	-	COLUMN ASM, CORNER	HSS6X6X1/4
2	6	-	COLUMN ASM, SIDE	HSS6X6X1/4
3	2	-	EAVE BEAM ASM, END	HSS6X4X1/8
4	2	-	EAVE BEAM ASM, LH	HSS6X4X1/8
5	2	-	EAVE BEAM ASM, RH	HSS6X4X1/8
6	4	-	EAVE BEAM ASM, SIDE	HSS6X4X1/8
7	4	-	HIP BEAM ASM	HSS8X6X3/16
8	6	-	GABLE BEAM ASM	HSS8X4X3/16
9	2	-	PURLIN ASM, END	HSS4X4X3/16
10	2	-	PURLIN ASM, LH	HSS4X4X3/16
11	2	-	PURLIN ASM, RH	HSS4X4X3/16
12	4	-	PURLIN ASM, SIDE	HSS4X4X3/16
13	3	-	COMPRESSION TUBE ASM	HSS8X8X5/8
14	2	-	RIDGE BEAM ASM, END	HSS8X6X3/16
15	2	-	RIDGE BEAM ASM, MID	HSS8X6X3/16



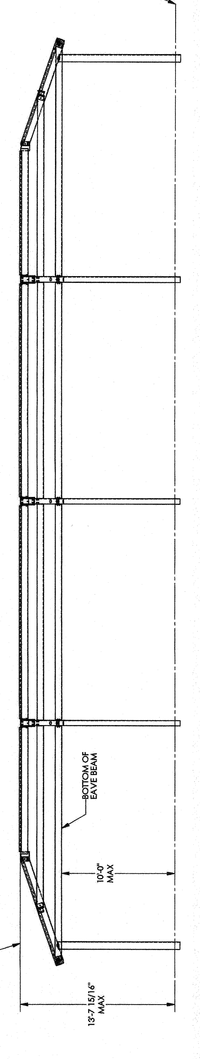
ISOMETRIC VIEW
SCALE: 3/16" = 1'-0"



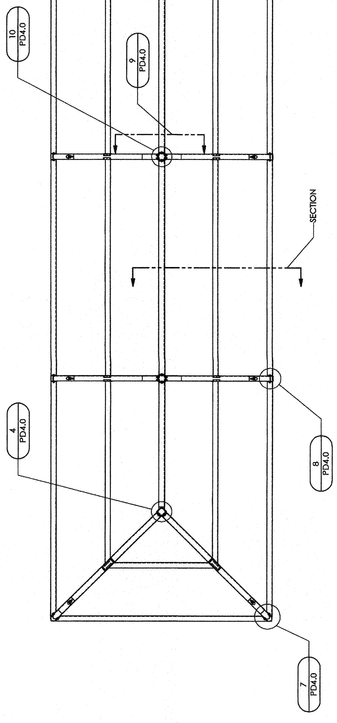
SECTION
SCALE: 3/16" = 1'-0"



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



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

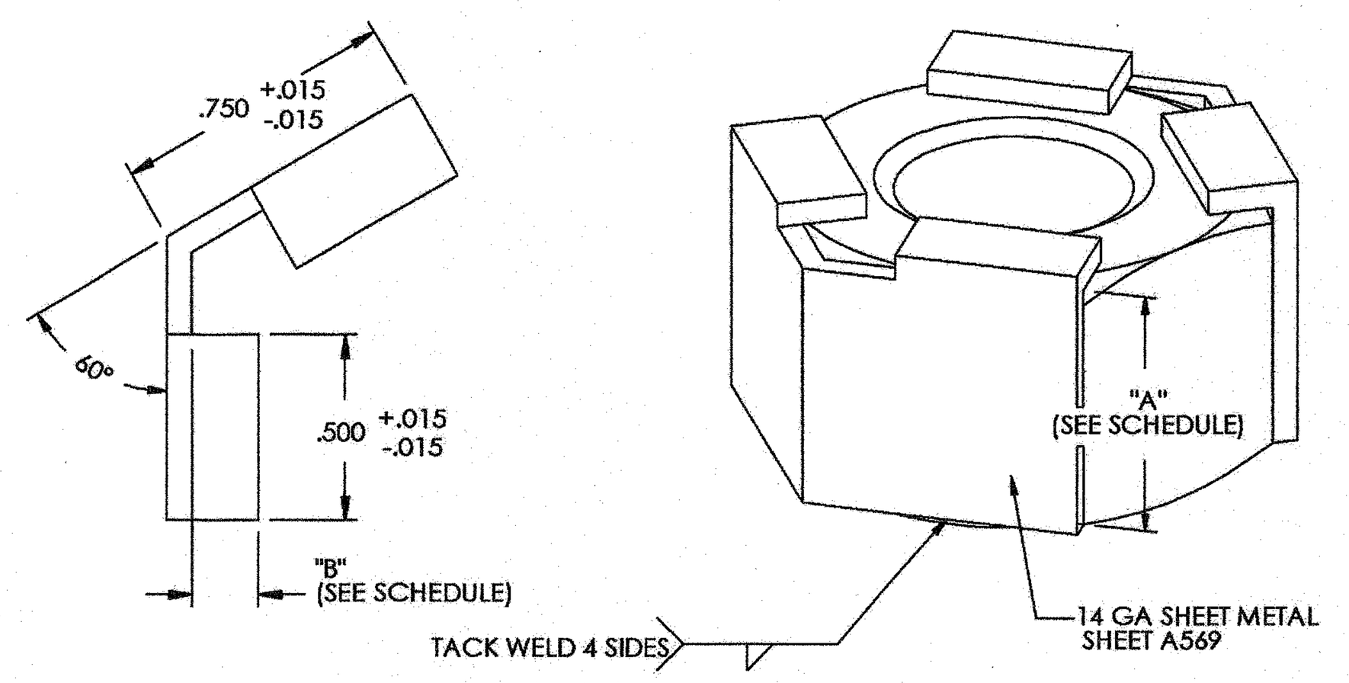


PLAN VIEW
SCALE: 3/16" = 1'-0"

201A

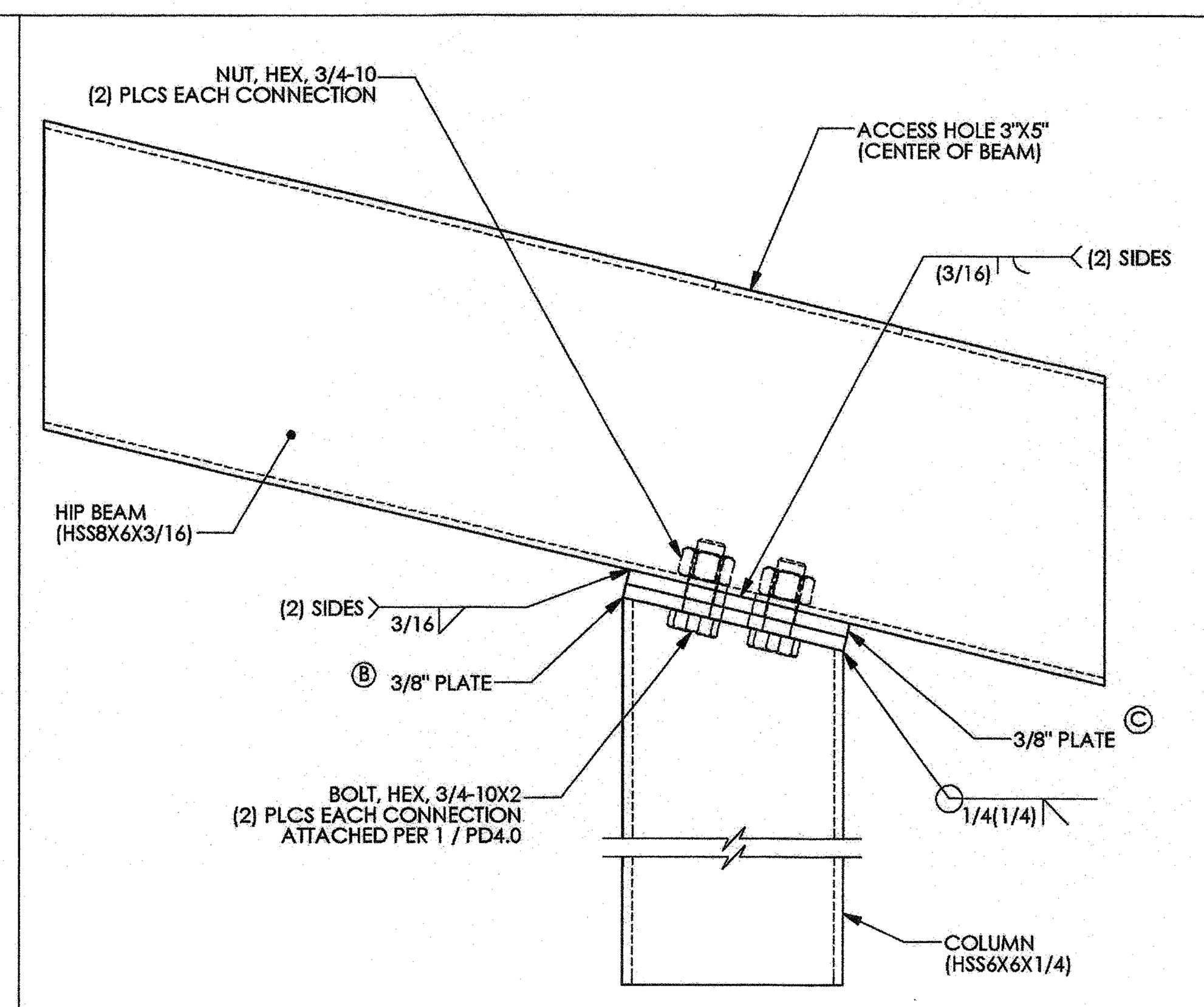
2014A

ALL HIDDEN NUTS AND BOLTS (INSTALLED IN SHOP DURING FABRICATION) ARE SECURED WITH THIS NUT AND BOLT RESTAINING SYSTEM.

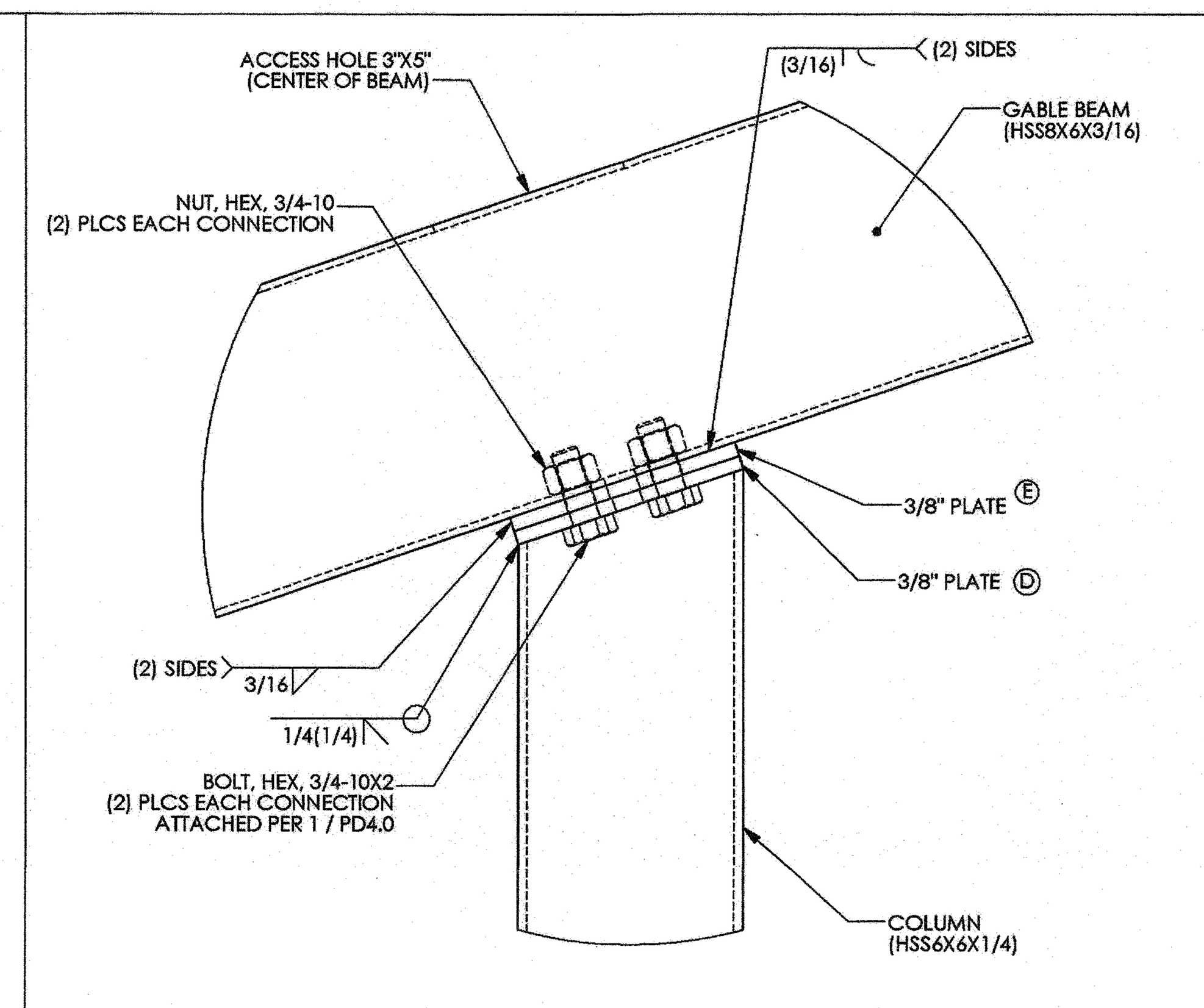


DIMENSION SCHEDULE		
FASTENER	DIM A	DIM B
5/8" NUT	.631 +.000 -.015	.180 +.015 -.015
5/8" BOLT	.403 +.000 -.015	.250 +.015 -.015
3/4" NUT	.758 +.000 -.015	.180 +.015 -.015
3/4" BOLT	.483 +.000 -.015	.375 +.015 -.015
1" NUT	1.012 +.000 -.015	.180 +.015 -.015
1" BOLT	.643 +.000 -.015	.375 +.015 -.015

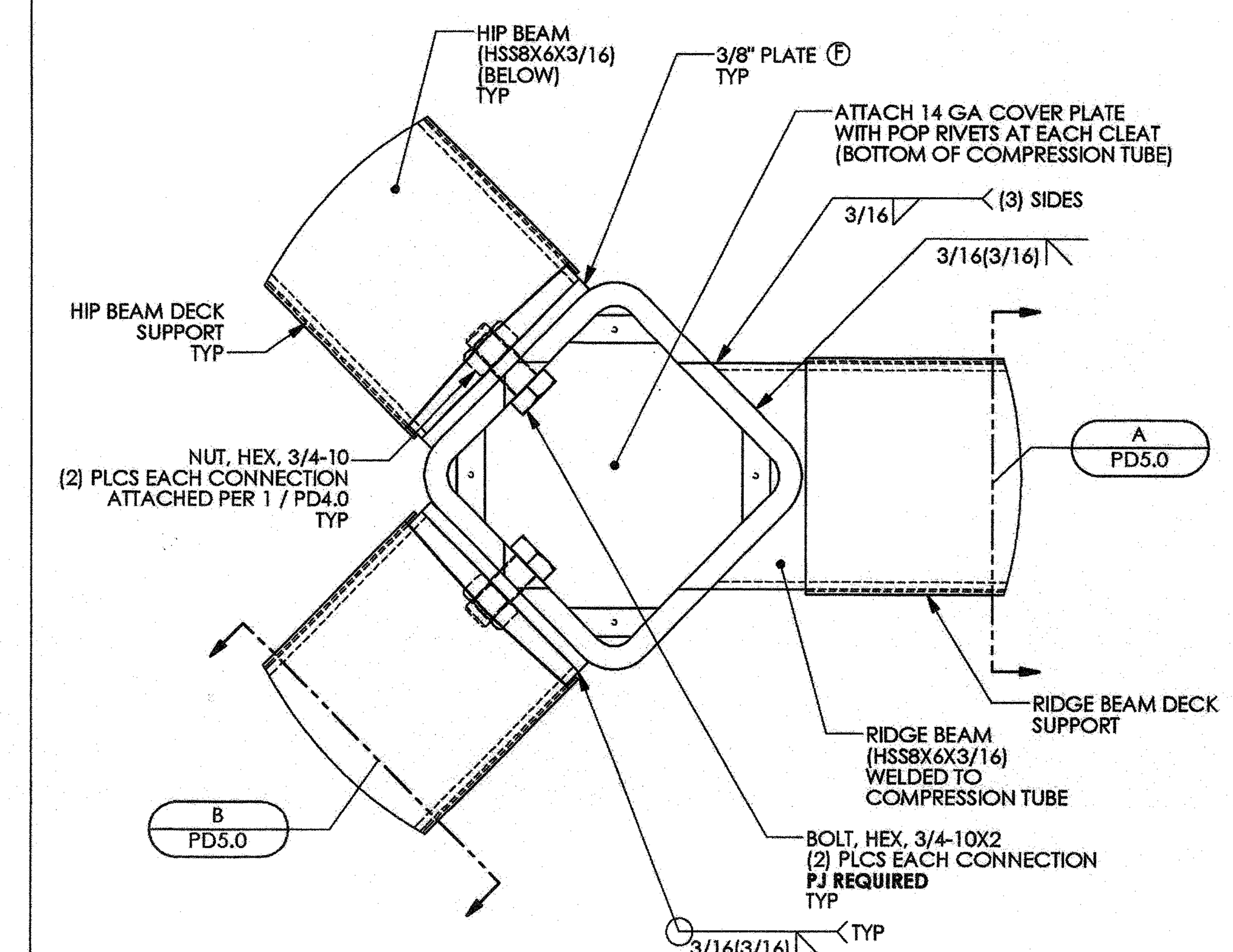
NUT & BOLT RESTRAINING SYSTEM — 1



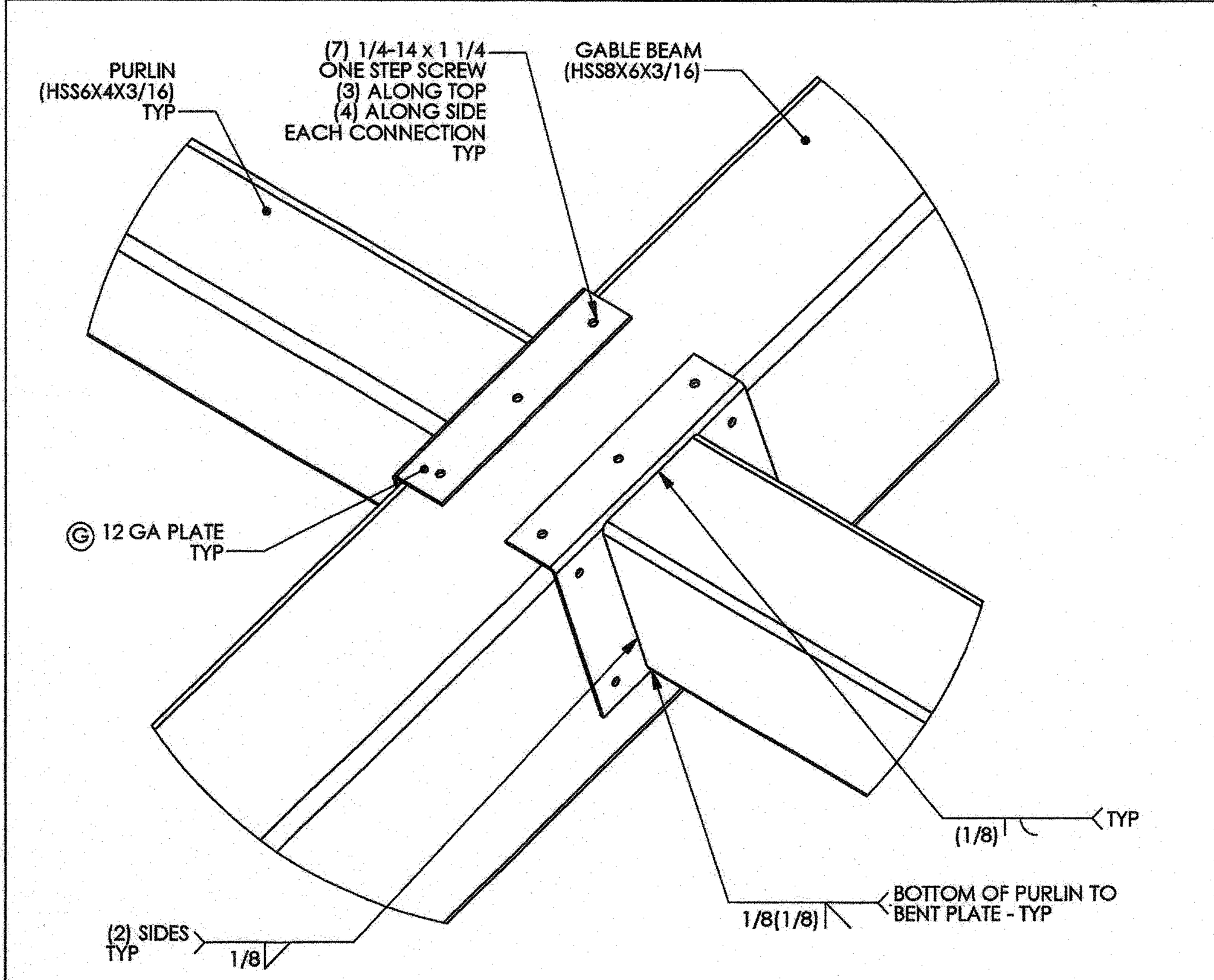
HIP BEAM CONNECTION @ COLUMN — 2



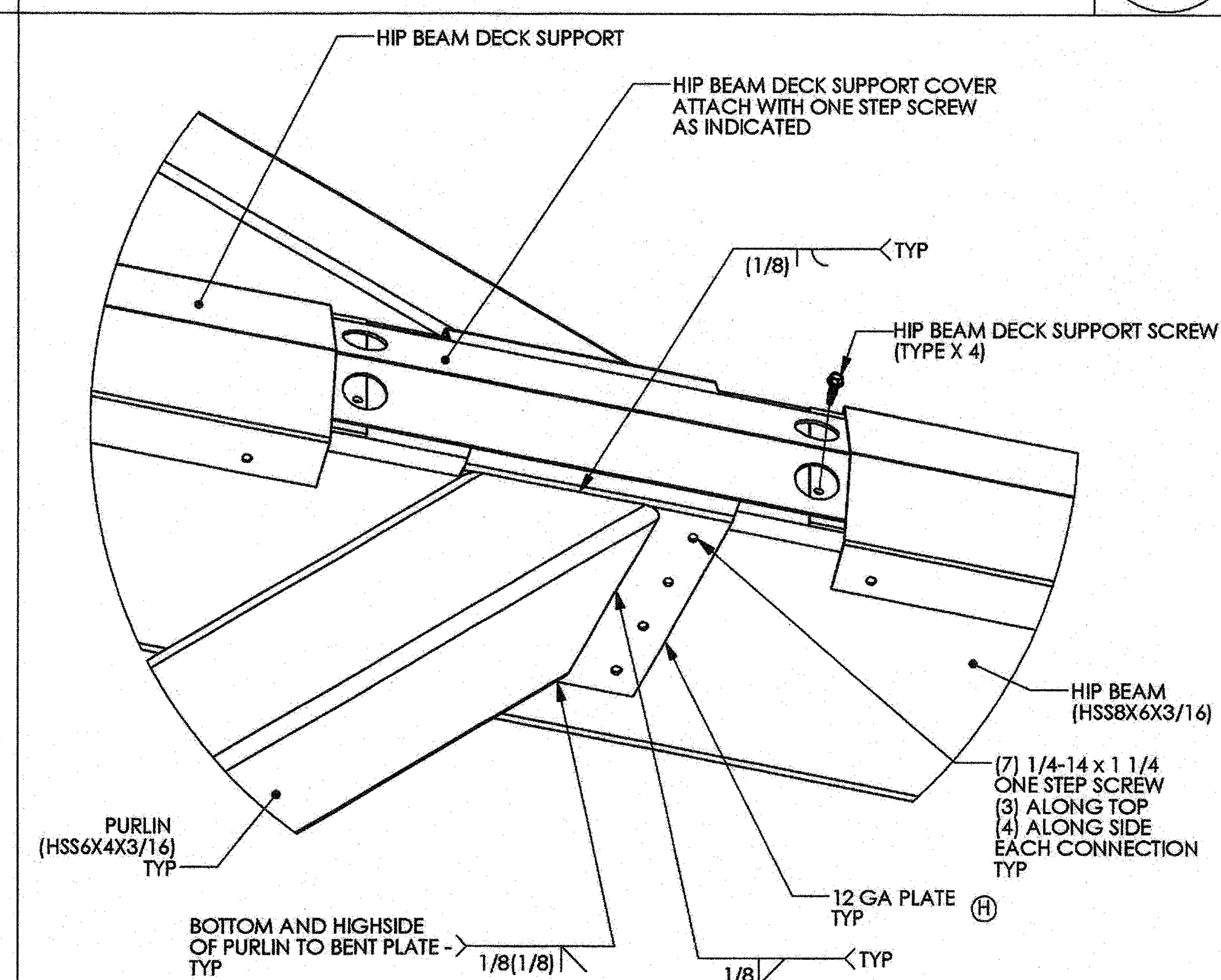
GABLE BEAM CONNECTION @ COLUMN — 3



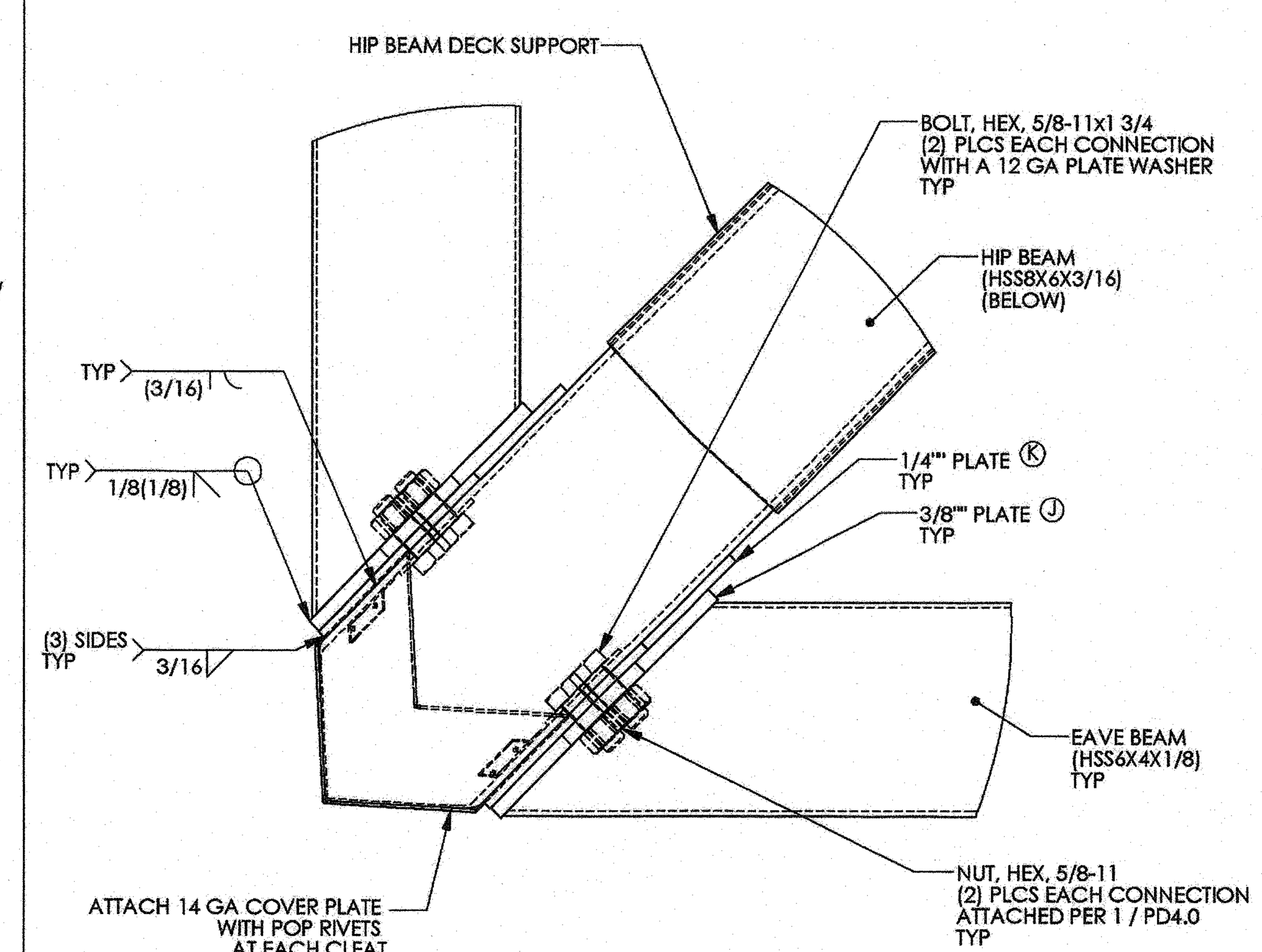
HIP BEAM CONNECTION @ COMPRESSION TUBE — 4



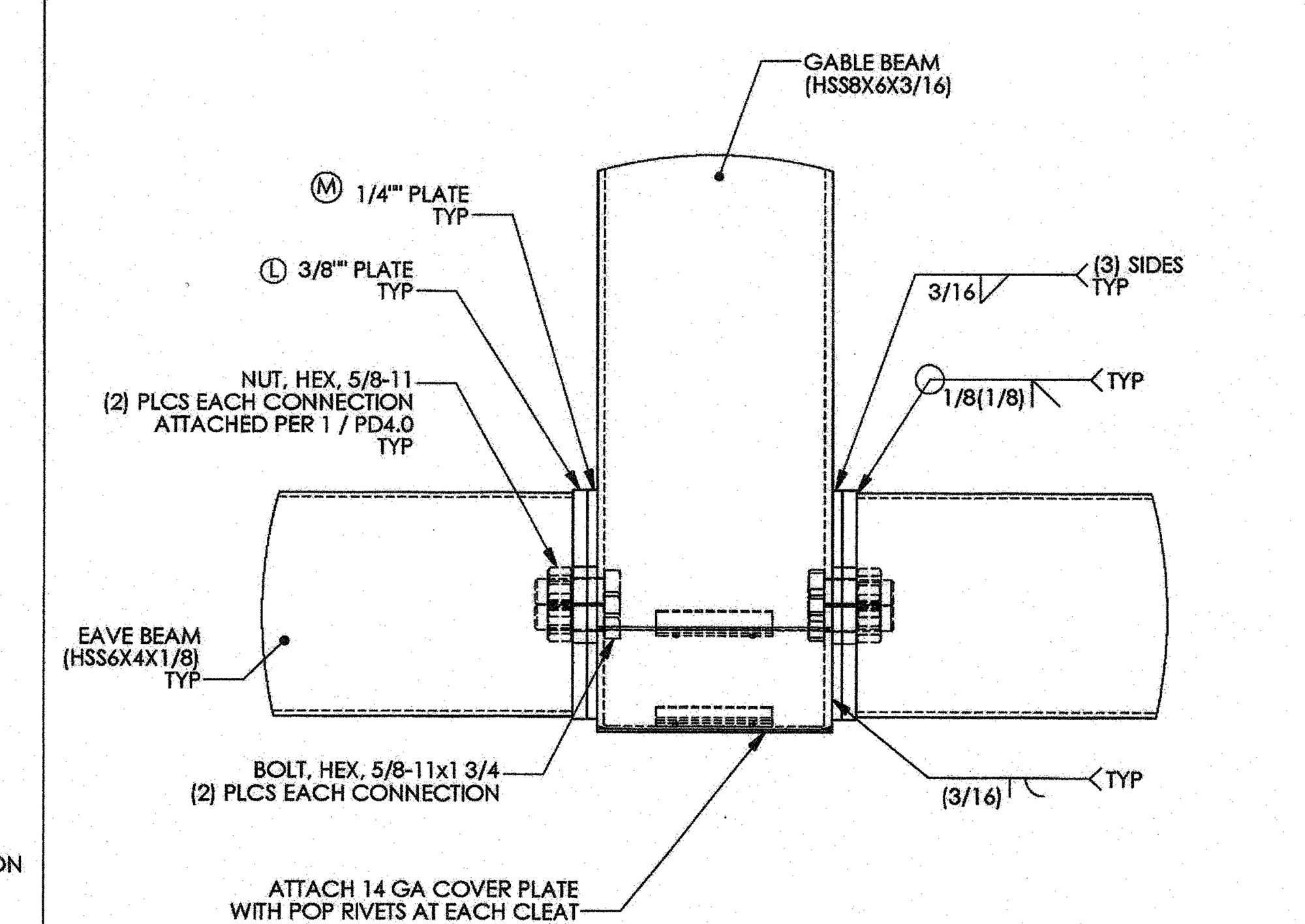
PURLIN CONNECION @ GABLE BEAM — 5



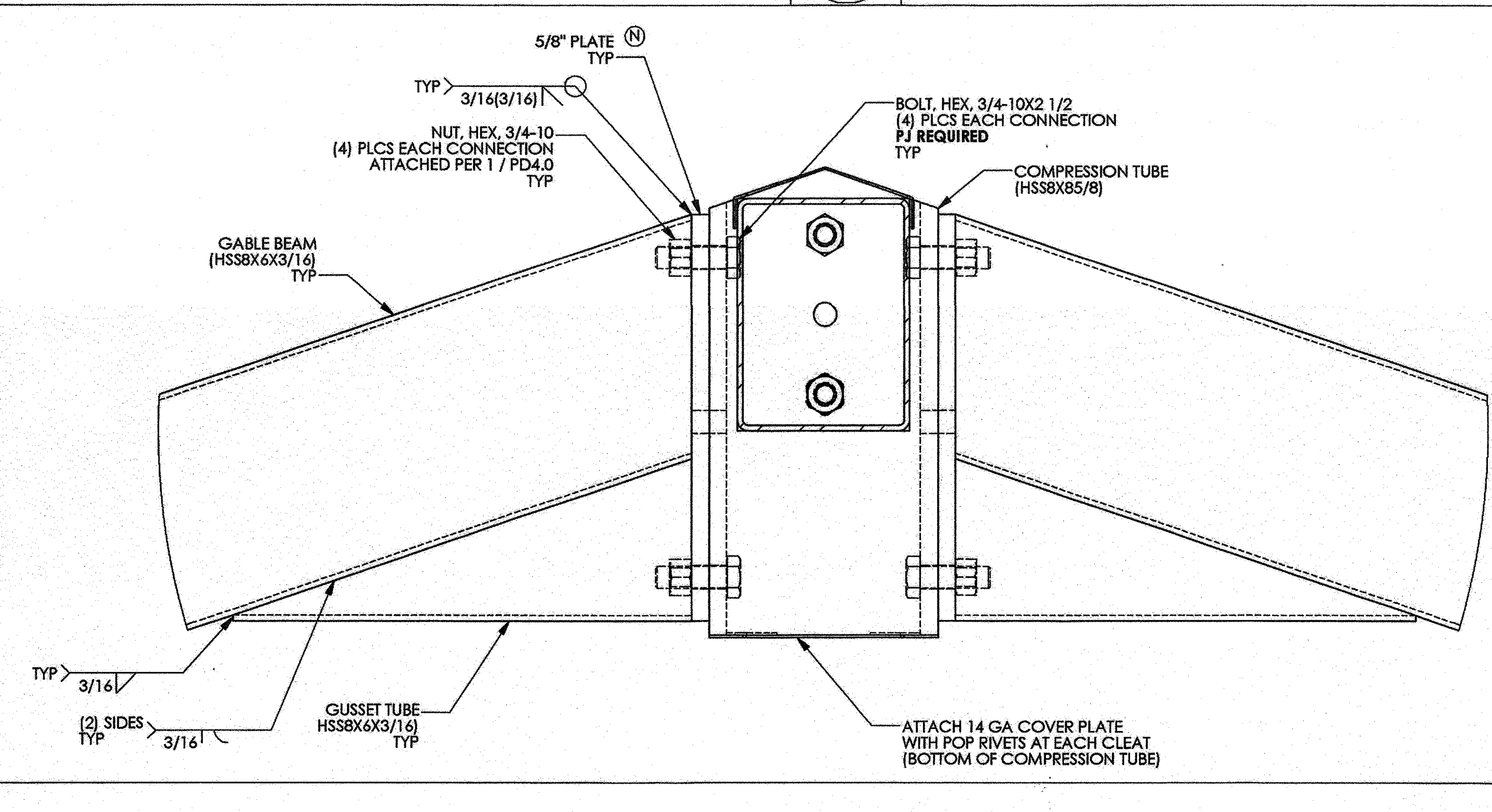
PURLIN CONNECTON @ HIP BEAM — 6



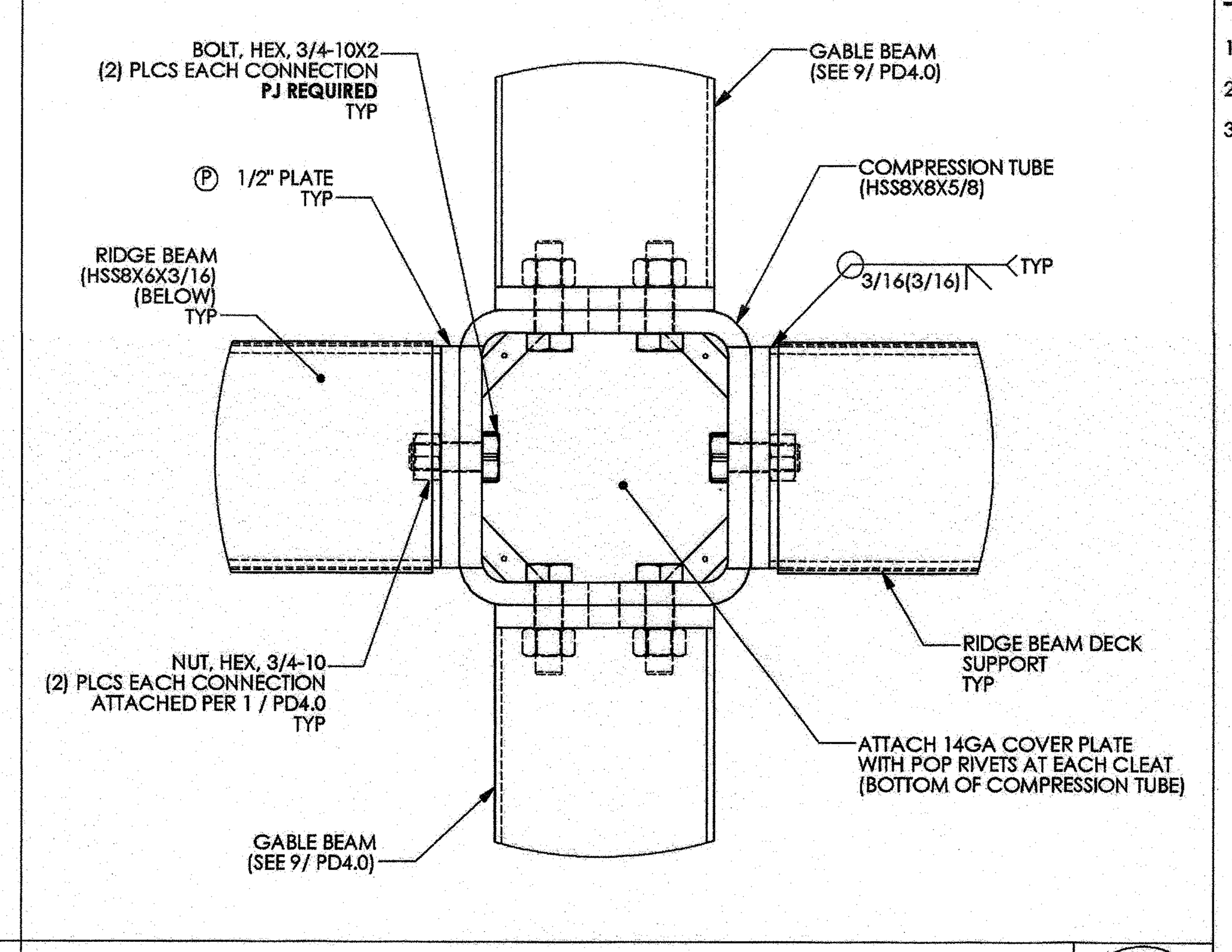
EAVE BEAM CONNECTION @ HIP BEAM — 7



EAVE BEAM CONNECTION @ GABLE BEAM — 8



GABLE BEAM CONNECTION @ COMPRESSION TUBE — 9



RIDGE BEAM CONNECTION @ COMPRESSION TUBE — 10

FRAME CONNECTION DETAIL NOTES:

1. SEE SECTIONS ON SHEET PD5.0.
2. SEE PLATE(X) DETAILS ON SHEET PD6.0 AND PD6.1
3. COVER ACCESS HOLES WITH GRACE ICE AND WATER SHIELD BEFORE ATTACHING ROOF DECK.

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A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

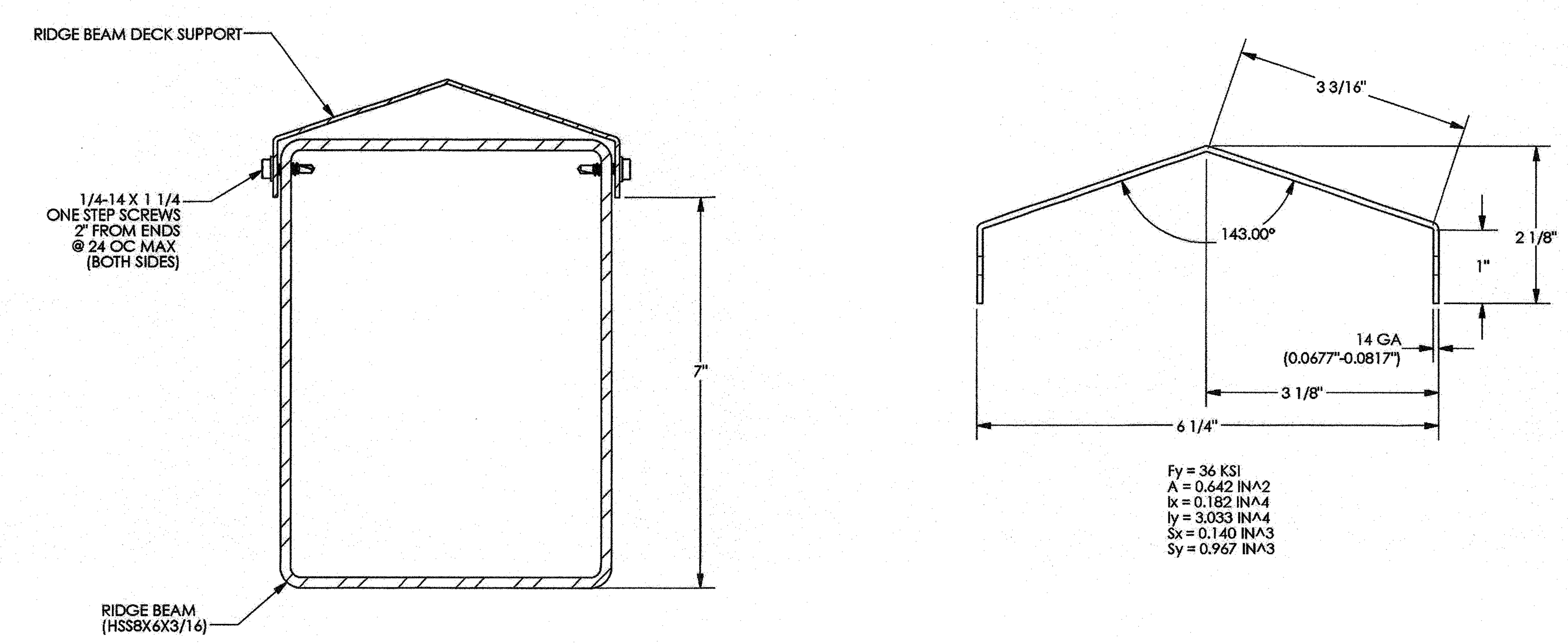
FRAME CONNECTION DETAILS
RAM 20

HIP ROOF (RAM)
PC DRAWINGS

DRAWN BY: JMD
CHECKED BY: CE
POLIGON #: 51458

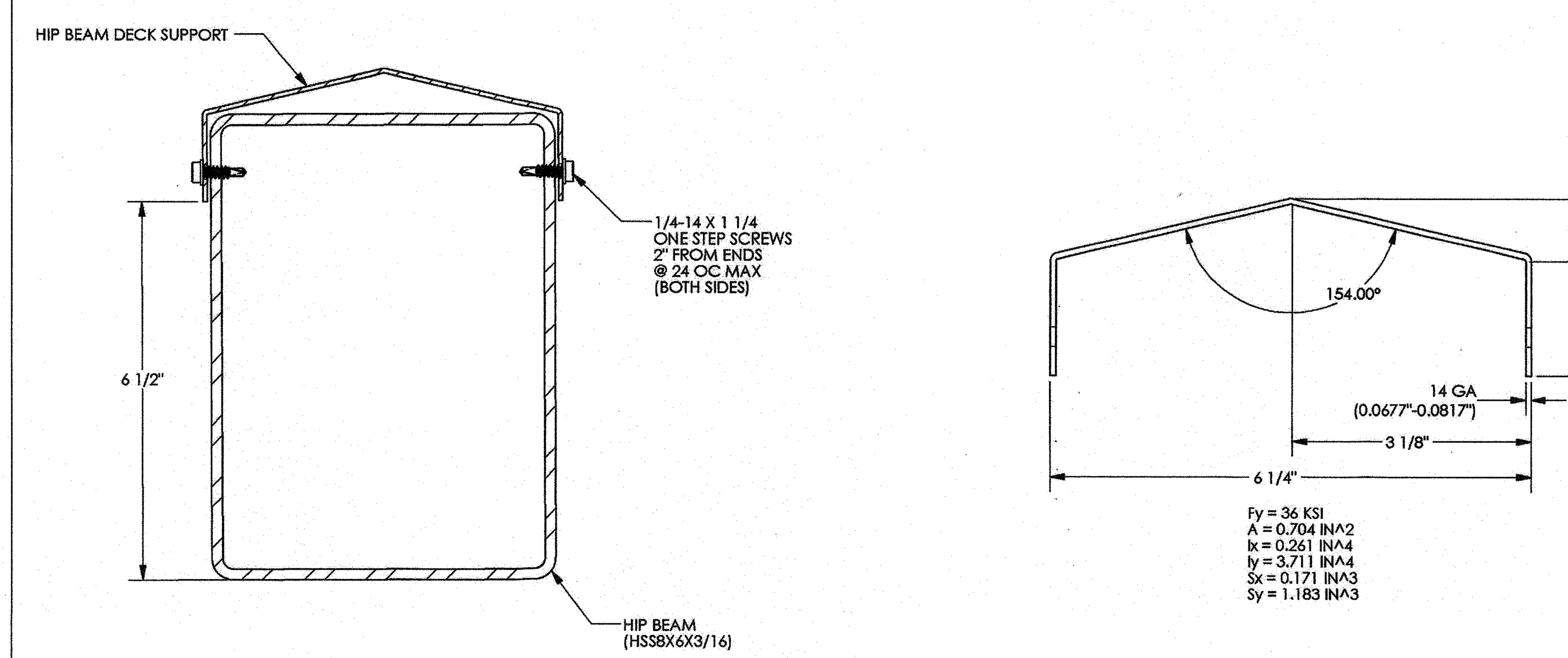
PD4.0

2014A



RIDGE BEAM DECK SUPPORT

A



HIP BEAM DECK SUPPORT

B

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A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

SECTION DETAILS

RAM 20

HIP ROOF (RAM)

PC DRAWINGS

DRAWN BY: JMD

CHECKED BY: CE

POLIGON #: 51458

PD5.0

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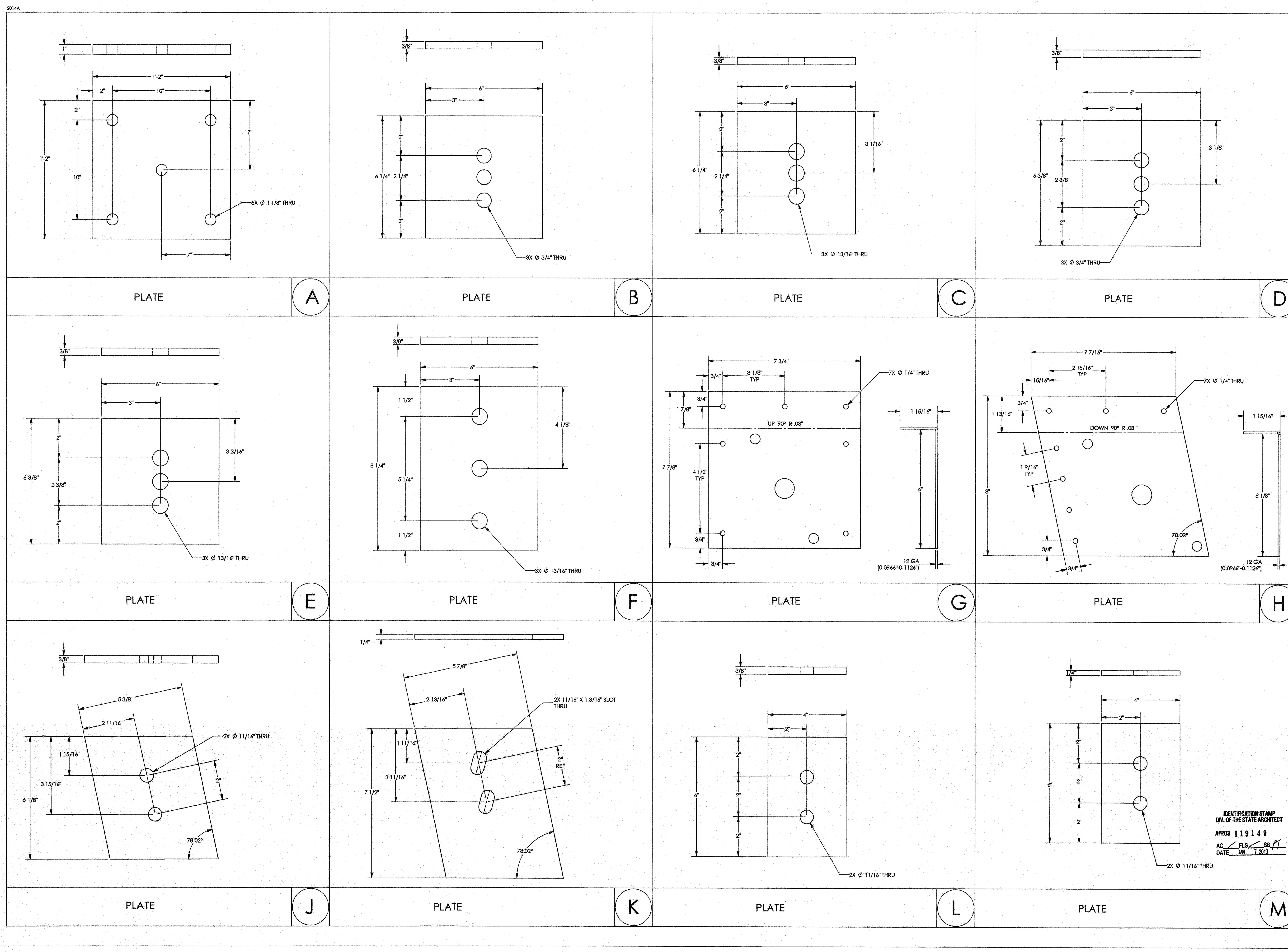

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A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

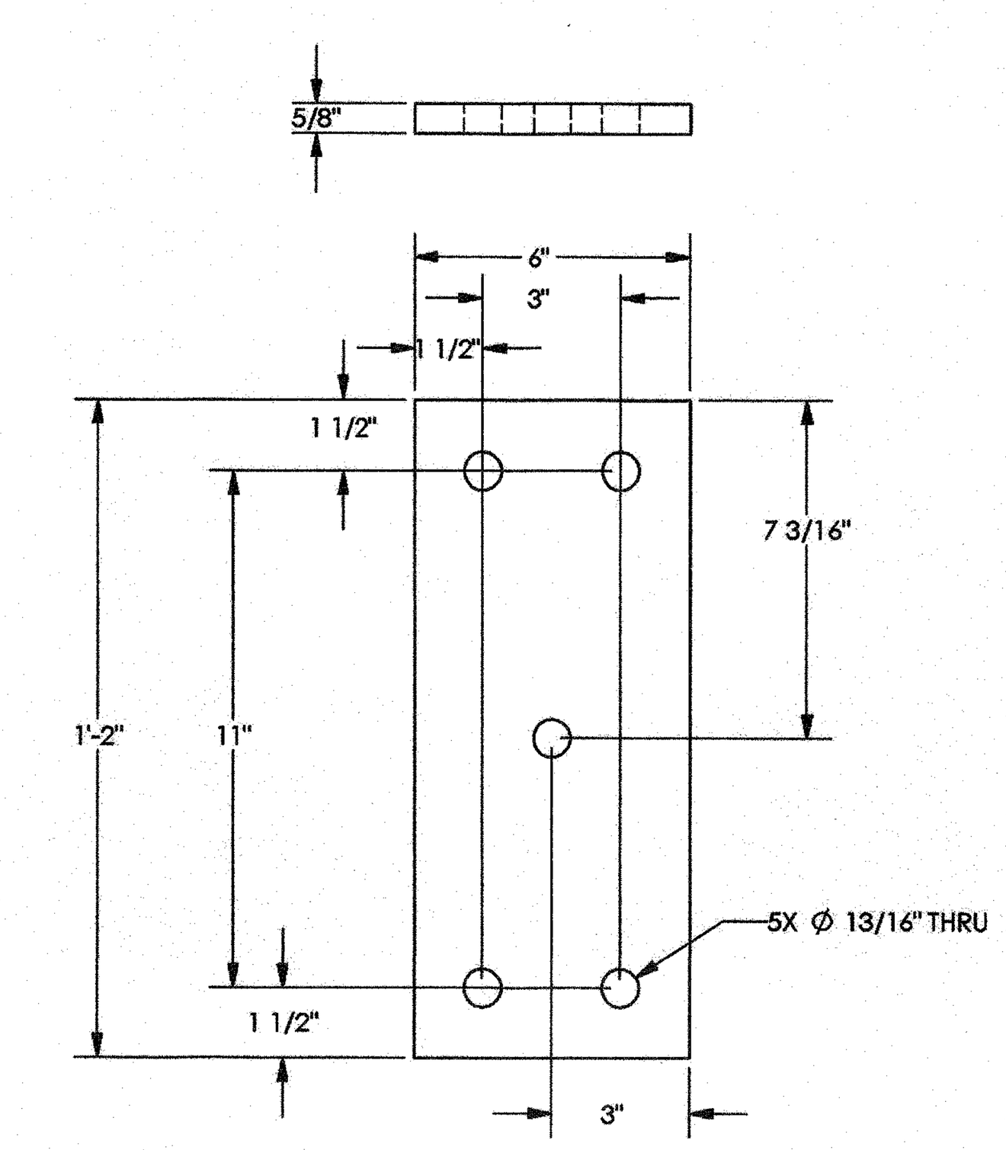
PLATE DETAILS
RAM 20

HIP ROOF (RAM)
PC DRAWINGS

DRAWN BY: JMD
CHECKED BY: CE
POLIGON #: 51458

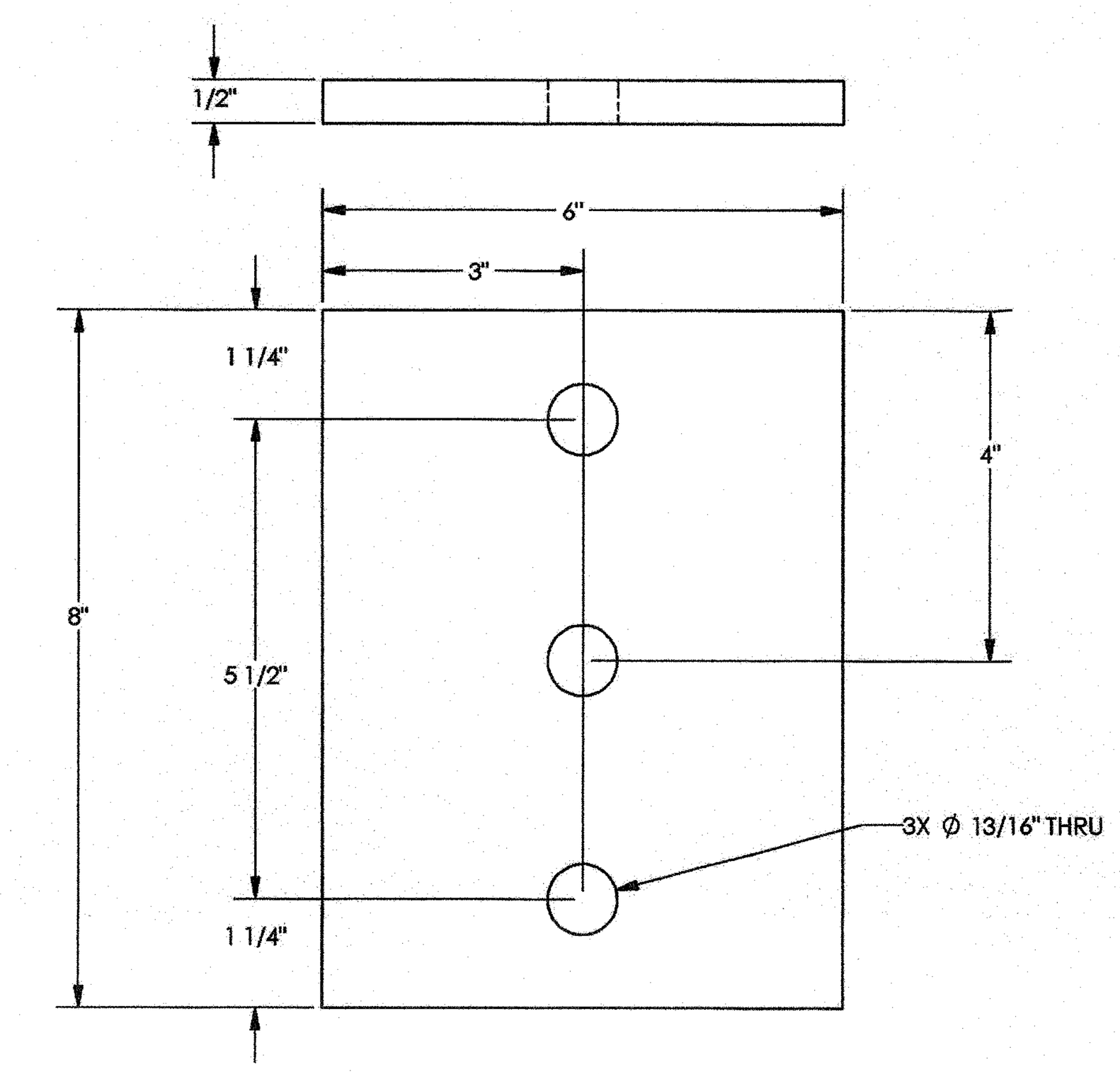
PD6.0

2014A



PLATE

N



PLATE

P

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A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

PLATE DETAILS

RAM 20

HIP ROOF (RAM)

PC DRAWINGS

DRAWN BY: JMD

CHECKED BY: CE

POLIGON #: 51458

PD6.1

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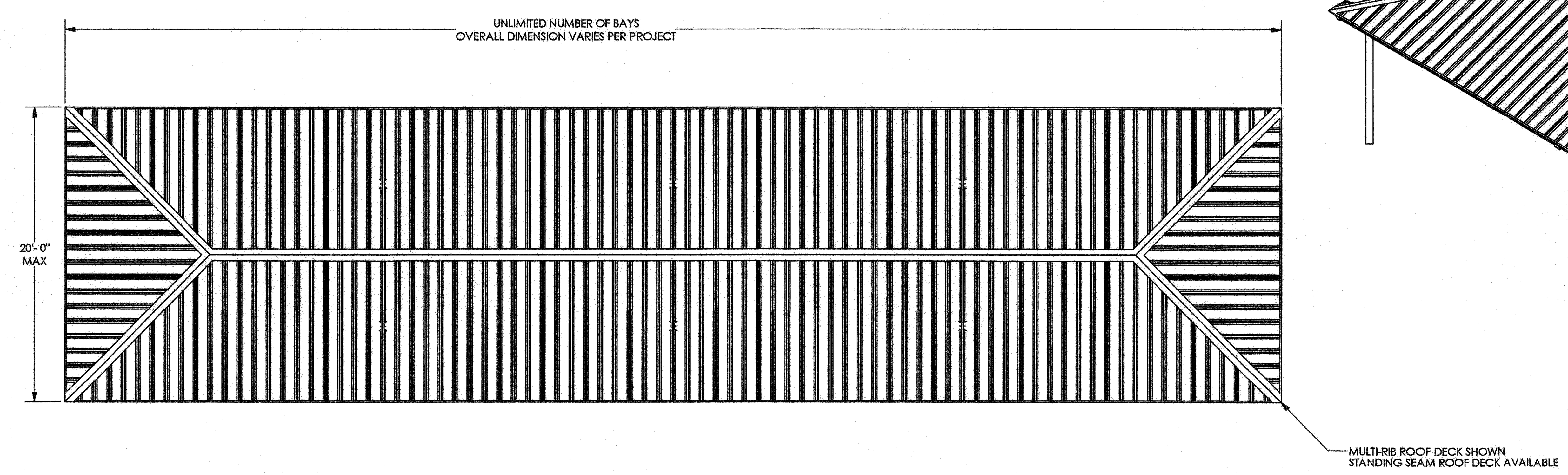
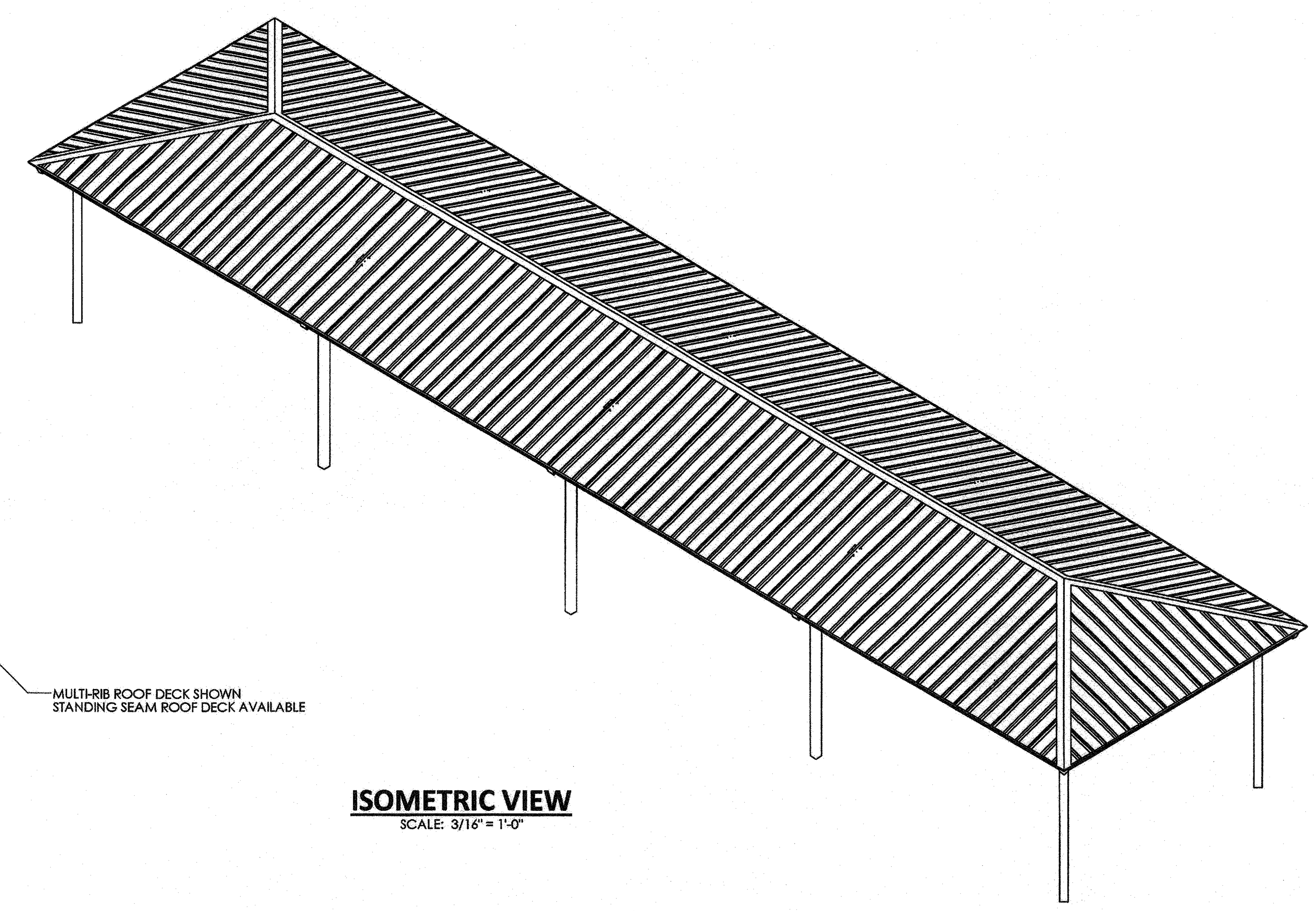
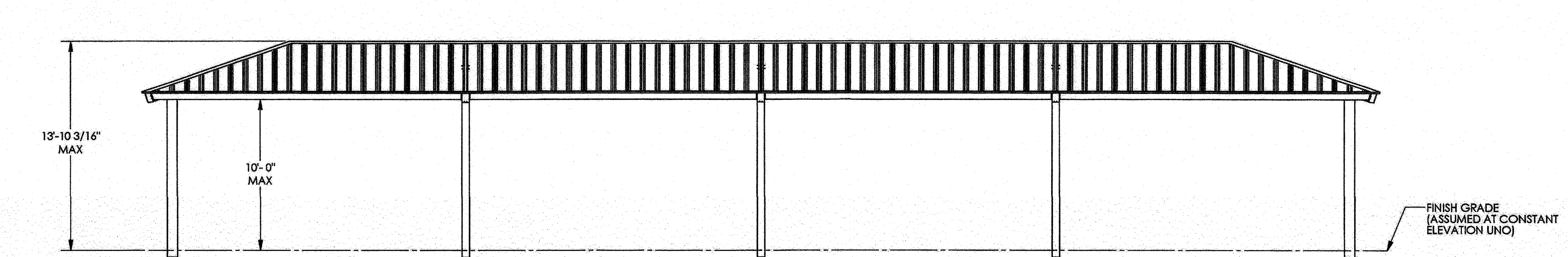


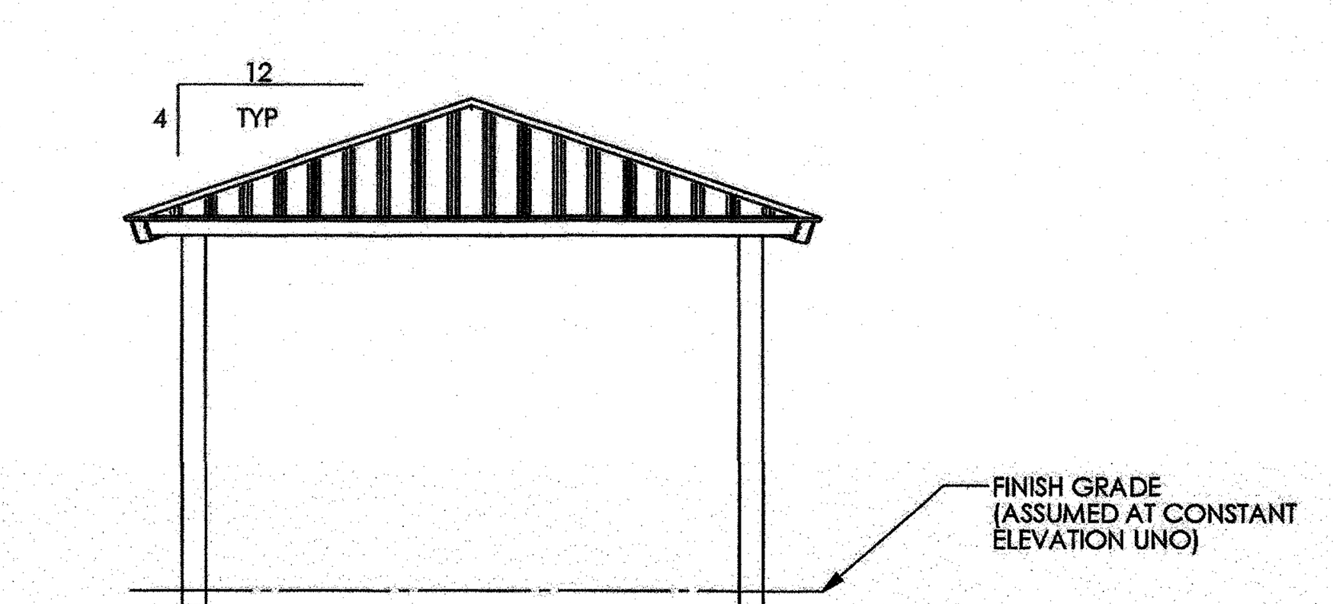
PLAN VIEW
SCALE: 3/16" = 1'-0"



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



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



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

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REGISTERED PROFESSIONAL ENGINEER
THOMAS A. BURKHART
No. S4378
Exp. 3/31/16
STRUCTURAL
STATE OF CALIFORNIA

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A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

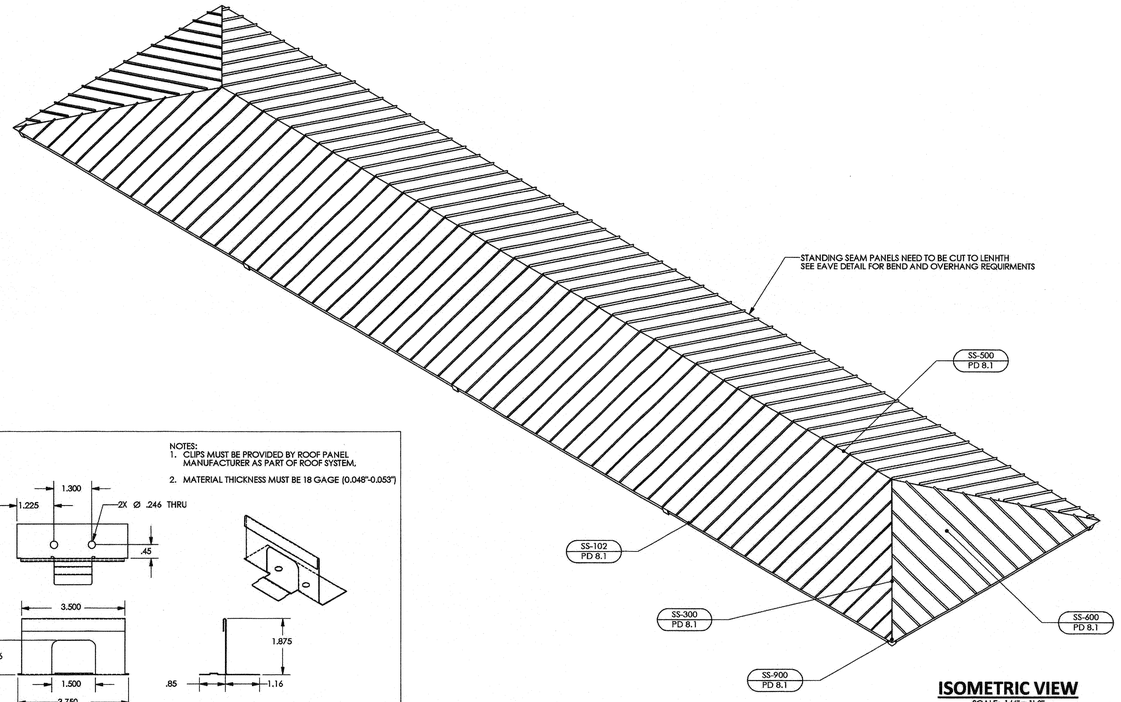
ARCHITECTURAL VIEWS
RAM 20

HIP ROOF (RAM)
PC DRAWINGS

DRAWN BY: JMD
CHECKED BY: CE
POLIGON #: 51458

PD7.0

2014A



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

ROOF LAYOUT NOTES (SS):

1. THE DETAILS SHOWN ARE SUGGESTIONS OR GUIDELINES ON HOW TO ERECT THE SYSTEMS. THE INFORMATION SHOWN IS ACCURATE, BUT IT IS NOT INTENDED TO COVER ALL INSTANCES, BUILDING REQUIREMENTS, DESIGNS OR CODES. THE DETAILS MAY REQUIRE CHANGES OR REVISIONS DUE TO FIELD CONDITIONS.
2. IT SHALL BE THE RESPONSIBILITY OF THE ERECTOR TO ENSURE THAT THE DETAILS MEET PARTICULAR BUILDING REQUIREMENTS AND TO ASSURE ADEQUATE WATER TIGHTNESS.
3. THE ERECTOR SHOULD THOROUGHLY FAMILIARIZE HIMSELF/HERSELF WITH ALL ERECTION INSTRUCTIONS BEFORE STARTING WORK.
4. THE PANELS SHOULD BE INSTALLED PLUMB, STRAIGHT, AND ACCURATELY TO THE ADJACENT WORK.
5. FLASHING AND TRIM SHALL BE INSTALLED TRUE, AND IN PROPER ALIGNMENT, WITH ANY EXPOSED FASTENERS EQUALLY SPACED FOR THE BEST APPEARANCE.
6. SEALANT SHALL BE FIELD APPLIED ON DRY, CLEAN SURFACES. SOME FIELD CUTTING AND FITTING OF PANELS AND FLASHING IS TO BE EXPECTED BY THE ERECTOR AND MINOR FIELD CORRECTIONS ARE A PART OF NORMAL ERECTION WORK.
7. WORKMANSHIP SHALL BE OF THE BEST INDUSTRY STANDARDS AND INSTALLATION SHALL BE PERFORMED BY EXPERIENCED METAL CRAFTSMEN.
8. METAL SHAVINGS FROM DRILLING OR INSTALLATION OF ROOF FASTENERS MUST BE CAREFULLY REMOVED FROM THE ROOF BY BRUSHING OR SWEEPING AT THE END OF EACH DAY DURING INSTALLATION. SHAVINGS LEFT ON THE ROOF WILL QUICKLY RUST AND STAIN THE ROOF FINISH.

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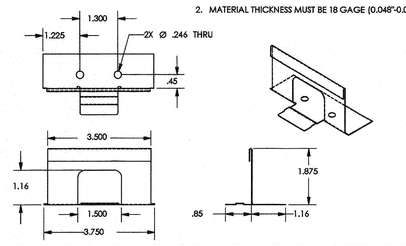
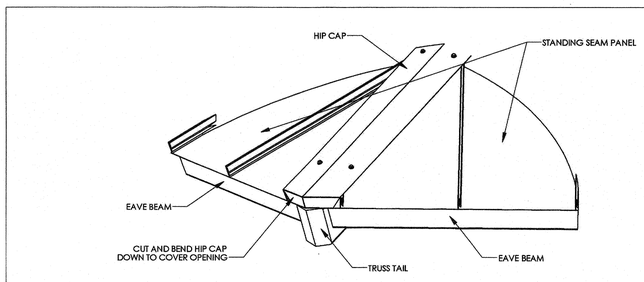
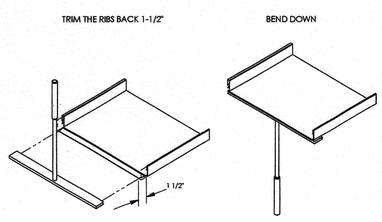
NOTES:
1. CLIPS MUST BE PROVIDED BY ROOF PANEL MANUFACTURER AS PART OF ROOF SYSTEM.
2. MATERIAL THICKNESS MUST BE 18 GAGE (0.048"-0.053")



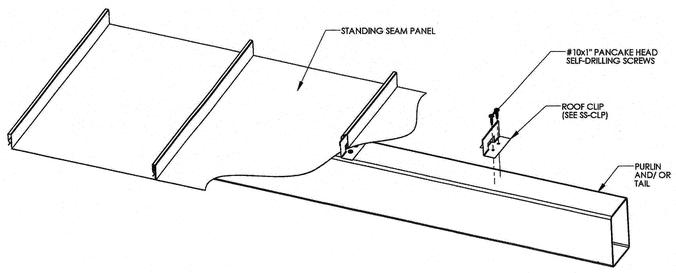
CLIP DETAIL | SS-CLP



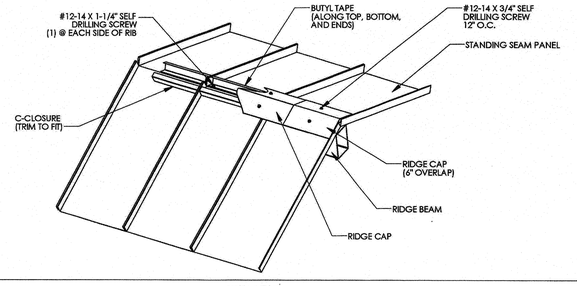
CORNER DETAIL | SS-900



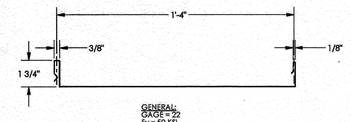
HEMMING DETAIL | SS-HEM



PURLIN DETAIL | SS-600



RIDGE DETAIL | SS-500

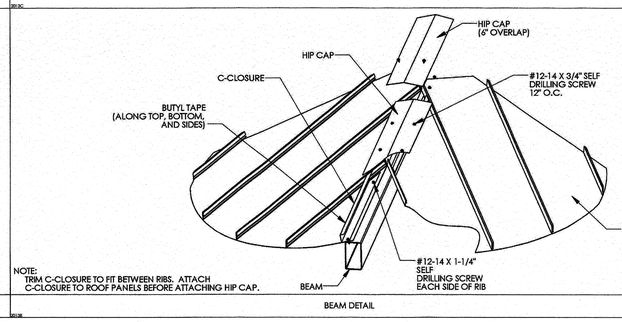


GENERAL:
GRADE = 22
Fy = 50 KSI

TOP IN COMPRESSION:
Ix=0.1222 IN^4
Se=0.0820 IN^3
Ma=2.4548 IN-KIPS

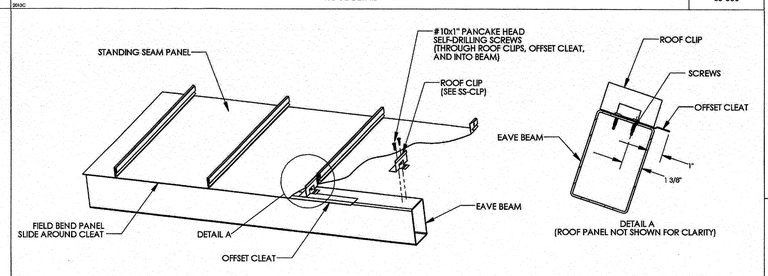
BOTTOM IN COMPRESSION:
Ix=0.0578 IN^4
Se=0.0746 IN^3
Ma=1.746 IN-KIPS

SS ROOF DECK SECTION PROPERTIES | SS-951



NOTE:
TRIM C-CLOSURE TO FIT BETWEEN RIBS. ATTACH C-CLOSURE TO ROOF PANELS BEFORE ATTACHING HIP CAP.

BEAM DETAIL | SS-300



EAVE DETAIL | SS-102

REGISTERED PROFESSIONAL ENGINEER
THOMAS A. BUSHNELL
No. S4379
Exp. 3/31/19
STRUCTURAL
STATE OF CALIFORNIA

CARLTON Engineering Inc.

poligon

STATE APPROVALS

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
02 113591
AC FLS SS
DATE 4-2-19

PRE-CHECK (PC) DOCUMENT

CODE: 2013 CBC

A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

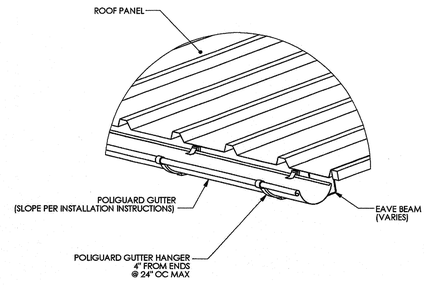
ROOF CONNECTION DETAILS
SS ROOF DECK

HIP ROOF (RAM)
PC DRAWINGS

DRAWN BY: JMD
CHECKED BY: CE
POLIGON #: 51458

PD8.1

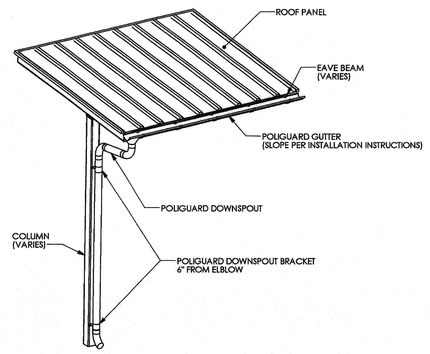
2014A



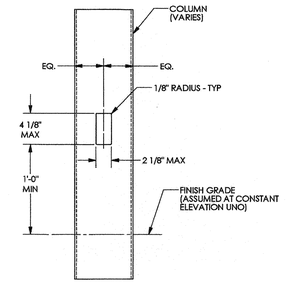
GUTTER DETAIL — GS-100

POLIGUARD GUTTER SYSTEM NOTES:

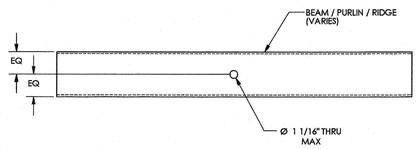
1. PREFABRICATED GUTTER SYSTEM IS ATTACHED TO THE STRUCTURE AFTER ROOF IS INSTALLED.
2. DETAILED INSTALLATION INSTRUCTIONS ARE SHIPPED WITH THE STRUCTURE.
3. DOWNSPOUTS REQUIRED AT EACH COLUMN.



DOWNSPOUT DETAIL — GS-200



ELECTRICAL CUTOUT IN COLUMNS — EC-100



ELECTRICAL CUTOUT IN BEAMS / PURLINS / RIDGES — EC-200

ELECTRICAL CUTOUT NOTES:

1. MAXIMUM ONE CUTOUT PERMITTED IN EACH MEMBER.
2. CUTOUTS CAN BE PLACED ON ANY SIDE OF A MEMBER.
3. CUTOUTS CAN BE PLACED ALONG MEMBERS AS INDICATED IN THE DETAILS.
4. ARCHITECTS REQUESTING CUTOUTS MUST MARKUP APPROVED PC DRAWINGS TO LOCATE CUTOUTS FOR APPROVAL AND FABRICATION.

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APP03 119149
AC FLS SS
DATE JAN 7 2019

REGISTERED PROFESSIONAL ENGINEER
RONALD A. BUNCH
No. S4378
Exp. 3/31/16
STRUCTURAL
STATE OF CALIFORNIA

CARLTON Engineering Inc.

poligon®

STATE APPROVALS

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP03 119591
DATE JAN 7 2019

PRE-CHECK (PC) DOCUMENT

CODE: 2013 CBC

A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

MISC DESIGN OPTIONS

DRAWN BY: JMD
CHECKED BY: CE
POLIGON #: 51458

HIP ROOF (RAM)
PC DRAWINGS

PD9.0

PROJECT WORK SCOPE

THE ATTACHED PC 304 STRUCTURAL DRAWINGS ARE THE ORIGINAL STRUCTURAL DESIGN DRAWINGS APPROVED BY DSA ON JANUARY 21, 1997.
THE FABRICATOR/MANUFACTURER WAS MODTECH INC. & FABRICATED ON NOVEMBER 1998.
MODULAR UNIT SERIAL NUMBERS FOR THE BUILDING 4 ARE 35909 AND 35910, AND FOR BUILDING 5 ARE 35911 AND 35912.

THE UNITS WERE FABRICATED AND INSTALLED AT THE CURRENT SCHOOL SITE. HOWEVER, THIS CONSTRUCTION WAS NOT CERTIFIED BY DSA AT THE TIME OF CONSTRUCTION COMPLETION.

SCHOOL DISTRICT WANTS TO GET THE DSA CERTIFICATION BY ADOPTING THE DSA PROJECT CERTIFICATION GUIDE WITH THIS SUBMITTAL.

BASED ON OPTION 1 OF SECTION 11.6 OF PROJECT CERTIFICATION GUIDE, A PROCEDURE HAS BEEN FOLLOWED:

- BUILDING MANUFACTURER MODTECH INC.
- FABRICATION DATE: NOV. 1998
- SERIAL NUMBERS: 35909,35910 AND 35912
- PC NUMBER/ PC 304 (JAN. 2, 1997)
- BUILDING PLAN: AVAILABLE AND ATTACHED.
- INSPECTION AND TESTING PROGRAM: PREPARED AND ACCEPTED BY DSA.
- INSPECTION AND TESTING: COMPLETED WITH ALL THE REQUIREMENTS PASSED.
- CURRENT CODE USED FOR THIS SUBMITTAL: 2016 CALIFORNIA BUILDING CODE CALIFORNIA CODE OF REGULATION PART 2, VOLUME 2.
- ALL ORIGINAL MODTECH DRAWINGS ARE RE-STAMPED AND SIGNED BY VCA ENGINEERS INC.
  S0.1, S1.0, S2.1, S3.0, S3.1, S4.0, S5.0, S5.1, S5.2, FB1.1, FB2.1

tBP architecture planning interiors

tBP/Architecture
4611 Teller Avenue
Newport Beach, CA 92660
ph. 949.673.0300 fx. 949.732.3895

architect

VCA ENGINEERS INC
CIVIL + STRUCTURAL
2151 Michelson Dr. #242
Irvine, CA 92612
Tel. 949.679.0870
Fax. 949.679.9370
PROJECT NO. B113-1258

consultant

FILE NO.
IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
DEPARTMENT OF GENERAL SERVICES
11914 9
AC. FLS. SS.
DATE JAN 7 2019

DEPARTMENT OF GENERAL SERVICES
DSA Los Angeles Regional Office
700 N. Alameda Street, Suite 5-500
Los Angeles, California 90012
ph: (213)897-3995 fx: (213)897-3159/0726

CLOUD PRESCHOOL RELOCATABLES
4444 CLOUD AVENUE
LA CRESCENTA, CALIFORNIA 91214

GLENDALE UNIFIED SCHOOL DISTRICT

owner

tBP project number : 20778.10
file name:
drawn by: checked by:
date: June 2017

Rev:	date:	description:

drawing title:
GENERAL NOTES

drawing no.:
S-0.0

drawing of

MATERIAL SCHEDULE

	NAME	SIZE	TYPE OR MFG. NAME	GRADE	COMMENTS
FLOOR	PERIMETER FRAME	C 7 X 9.8	STEEL CHANNEL Fy = 36 KSI	ASTM A-36	
	JOIST	Z 6 3/8" X 2 1/2"	12 GA. STEEL ZEE Fy = 55 KSI	ASTM A-570	WELDED TO 7" CHANNEL SEE FLOOR FRAMING PLAN FOR SPACING
	DECKING	1 1/8"	"STURDI-FLOOR" PLYWOOD	UNDERLAYMENT	PLYWOOD SHALL BE IN ACCORDANCE WITH PS 1-83.
	INSULATION	3 1/2"	FIBERGLASS UNFACED	R-11	
	BOTTOM BOARD		TRANSIT GUARD		FASTENED TO UNDERSIDE OF FLOOR JOIST
	COLUMN EXTERIOR	4" X 4"	1/4" THICK	ASTM A-500	GRADE B
	COLUMN INTERIOR	3 1/2" X 3 1/2"	1/4" THICK	ASTM A-500	GRADE B
EXTERIOR PARTITION	PLATES	2 X 4	DOUG-FIR LARCH	STD. OR BETTER	SINGLE TOP PLATE AND SINGLE BOTTOM PLATE
	STUDS	2 X 4	DOUG-FIR LARCH	STUD	AT 16" O.C. W/ DOUBLE STUD AT 48" O.C.
	EXTERIOR FINISH	5/8"	APA RATED SIDING	EXPOSURE 1	GROOVES AT 8" O.C.
	INTERIOR FINISH	1"	1/2" VINYL TACK BOARD OVER 1/2" GYPSUM BOARD		SEE FINISH SCHEDULE
	INSULATION	3 1/2"	FIBERGLASS UNFACED	R-11	
	STEEL STUDS (OPTIONAL)	3 1/2" X 1 1/2"	20 GA. STEEL CEE	ASTM A-446	
	STEEL TRACK (OPTIONAL)	3 1/2" X 1 1/2"	20 GA. STEEL CEE	ASTM A-446	WITH KNOCK OUTS AT 24" O.C.
INTERIOR PARTITION	PLATES	2 X 4	DOUG-FIR LARCH	STD. OR BETTER	SINGLE TOP PLATE AND SINGLE BOTTOM PLATE
	STUDS	2 X 4	DOUG-FIR LARCH	STUD	AT 16" O.C.
	INTERIOR FINISH	1"	1/2" VINYL TACK BOARD OVER 1/2" GYPSUM BOARD		SEE FINISH SCHEDULE
	STEEL STUDS (OPTIONAL)	3 1/2" X 1 1/2"	20 GA. STEEL CEE	ASTM A-446	
	STEEL TRACK (OPTIONAL)	3 1/2" X 1 1/2"	20 GA. STEEL CEE	ASTM A-446	WITH KNOCK OUTS AT 24" O.C.
ROOF	PURLINS	Z 6" X 2 1/2"	14 GA. STEEL ZEE Fy = 55 KSI	ASTM A-570	WELDED TO ROOF BEAM AT 48" O.C.
	BEAM	[14"/21 1/2"/14" X 4"	10 GA. STEEL CEE Fy = 40 KSI	ASTM A-36	WELDED TO COLUMN
	HEADER	[14" X 4"	12 GA. STEEL CEE Fy = 36 KSI	ASTM A-36	
	DECKING	3/4"	PLYWOOD	CDX	PLYWOOD SHALL BE IN ACCORDANCE WITH PS 1-83 EXPOSURE 1 P.I.I 48/24
	INSULATION	5 1/2"	FIBERGLASS UNFACED	R-19	
	ROOFING	26 GA.	STANDING SEAM STEEL PANELS	CLASS "A"	INSTALL PER DRAWINGS
	ROOFING (OPTIONAL)	30 GA.	STANDING SEAM STEEL PANELS	CLASS "A"	INSTALL PER DRAWINGS

LICENSED ARCHITECT · NO. C-23975 · STATE OF CALIFORNIA
10/22/98

REVISIONS	ELECTRICAL	MECHANICAL	STRUCTURAL	ARCHITECT	DIVISION OF THE STATE ARCHITECT
			REGISTERED PROFESSIONAL ENGINEER JAMES T. SIMPSON No. 3602 STRUCTURAL STATE OF CALIFORNIA LICENSE EXPIRES 6-30-2000		IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES PC 304 AC FLS SS DATE JAN 2 1997

MODTECH INC.
2830 BARRETT AVE.
PERRIS, CA. 92572
PH. (909) 943-4014
FX. (909) 940-0427

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MODTECH INC.

JOB NO: 2872

MATERIAL SCHEDULE

DRAWN BY RN
DATE 10-4-96
CHECKED BY
DATE

S0.1

tBP architecture planning interiors

LICENSED ARCHITECT HUNG L. CHENG NO. C34187 REN. 4-30-17 STATE OF CALIFORNIA

tBP/Architecture
4611 Teller Avenue
Newport Beach, CA 92660
ph: 949.673.0300 fx: 949.732.3895

architect

REGISTERED PROFESSIONAL ENGINEER YOUNG-KEUN NAM No. S4029 Exp. 9/30/20 STRUCTURAL STATE OF CALIFORNIA

VCA ENGINEERS INC
CIVIL • STRUCTURAL MBE DBE SBE
2151 Michelson Dr. #242
Irvine, CA 92612
Tel. 949.679.0870
Fax. 949.679.9370
PROJECT NO. B113-1258

consultant

FILE NO.:
IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
DEPARTMENT OF GENERAL SERVICES
119149
AC FLS SS
DATE JAN 7 2019

DEPARTMENT OF GENERAL SERVICES
DSA Los Angeles Regional Office
700 N. Alameda Street, Suite 5-500
Los Angeles, California 90012
ph: (213)897-3995 fx: (213)897-3159/0726

CLOUD PRESCHOOL RELOCATABLES
4444 CLOUD AVENUE
LA CRESCENTA, CALIFORNIA 91214
GLENDALE UNIFIED SCHOOL DISTRICT

owner

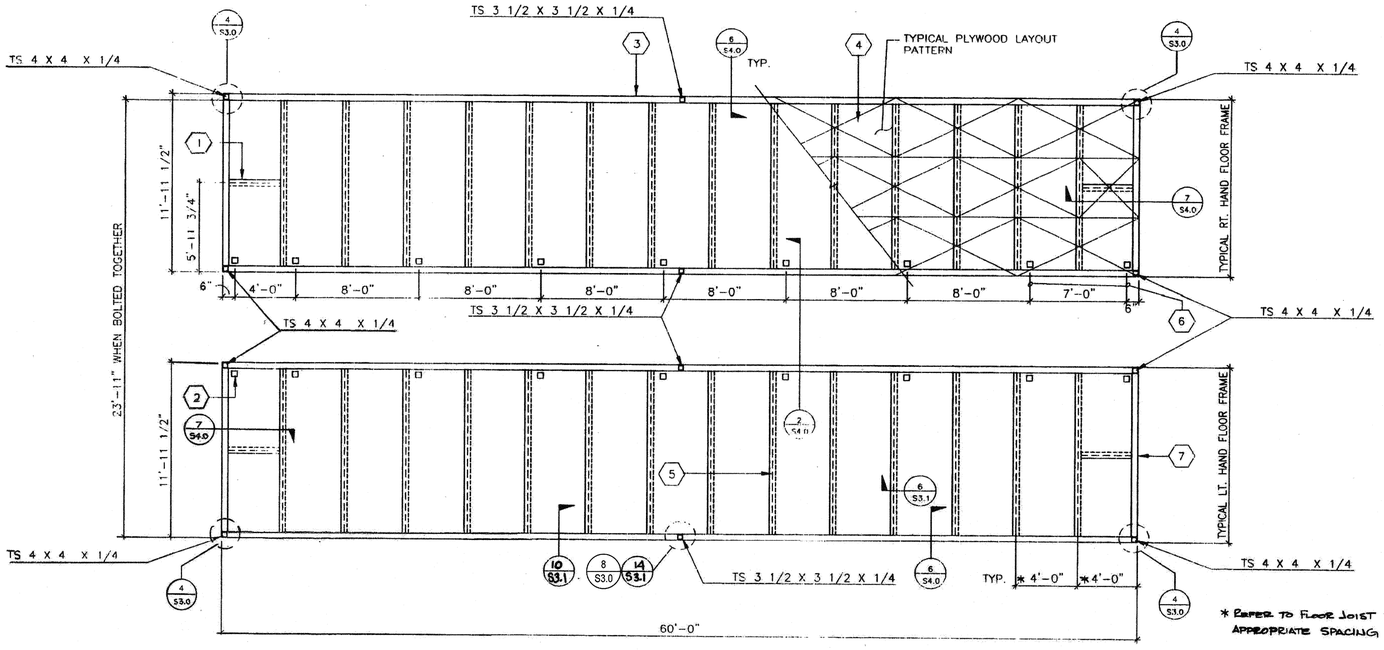
tBP project number : 20778.10
file name:
drawn by: checked by:
date: June 2017
Rev: date: description:

drawing title:
MATERIAL SCHEDULE

drawing no.:
S-0.1
drawing of

FLOOR JOIST TABLE

LIVE LOAD	STANDARD ⌠ 6 3/8"X2 1/2"X12GA.	ALTERNATE ⌠ 6 3/8"X2 1/2"X14GA.
50 P.S.F.	48" O.C.	32" O.C.
50 P.S.F. W/ 20 P.S.F. PARTITIONS	32" O.C.	24" O.C.
100 P.S.F.	24" O.C.	16" O.C.
125 P.S.F.	16" O.C.	12" O.C.



* REFER TO FLOOR JOIST TABLE FOR APPROPRIATE SPACING PER PROJECT.

KEY NOTES

1. ⌠ 6 3/8 X 2 1/2 X 12GA. BLOCKING AT MIDSPAN OF FLOOR HDR. TYPICAL
2. 5" SQ. HAND HOLES AT BOLT BM TO BM (18 PLACES)
3. C 7X9.8 PERIMETER CHANNEL (TYPICAL)
4. PLYWOOD FLOOR SHEATHING: APA PS 1-83 1 1/8" THICK, STURD-I-FLOOR W/48" O.C. SPAN RATING. ATTACHED W/#10 X 1 3/4" SELF-TAPPING FLAT HEAD SCREWS AT 6" O.C. TO PERIMETER FRAME, AEROSMITH AKN 144.0175 DRIVE PINS AT 6" O.C. SUPPORTED EDGES AND 6" O.C. FIELD TO JOIST. (TYPICAL)
5. 6 3/8 X 2 1/2 X 12GA. FLOOR JOIST @ 48" O.C.
6. TYPICAL BOLT HOLE LOCATION (SEE 2/S4.0)
7. 11/16ø HOLE @ MID DEPTH FOR HANDLING TYPICAL FOR (4) FOUR.

NOTE

FOR CONCRETE FOUNDATIONS SEE SHEETS FB-1.1 FOR LOCATION OF FLOOR FRAME FOUNDATION ANCHOR PLATES. SEE DETAIL 12/S3.1

FLOOR FRAMING PLAN

OPTIONS A-B-C

FLOOR LIVE LOAD - 50 PSF

SCALE 1/4"=1'-0"

ARCHITECT	ELECTRICAL	STRUCTURAL	MECHANICAL	FIRE MARSHAL	ACCESS COMPLIANCE	STRUCTURAL SAFETY
		LICENSE EXPIRES 6-30-2000				IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REVISION SERVICES PC 304 AC FLS SS DATE JAN 2 1 1997

MODTECH INC.

JOB # 2872

DRAWN BY RS
DATE 9-12-96
CHECKED BY
DATE

FLOOR FRAMING PLAN S1.0

CSB NO. PC-304

tBP architecture planning interiors

tBP/Architecture
4611 Teller Avenue
Newport Beach, CA 92660
ph: 949.673.0300 fx: 949.732.3895

architect

VCA ENGINEERS INC
CIVIL + STRUCTURAL
2151 Michelson Dr. #242
Irvine, CA 92612
Tel. 949.679.0870
Fax. 949.679.9370
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DEPARTMENT OF GENERAL SERVICES
DSA Los Angeles Regional Office
700 N. Alameda Street, Suite 5-500
Los Angeles, California 90012
ph: (213)897-3995 fx: (213)897-3159/0726

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4444 CLOUD AVENUE
LA CRESCENTA, CALIFORNIA 91214

GLENDALE UNIFIED SCHOOL DISTRICT

owner

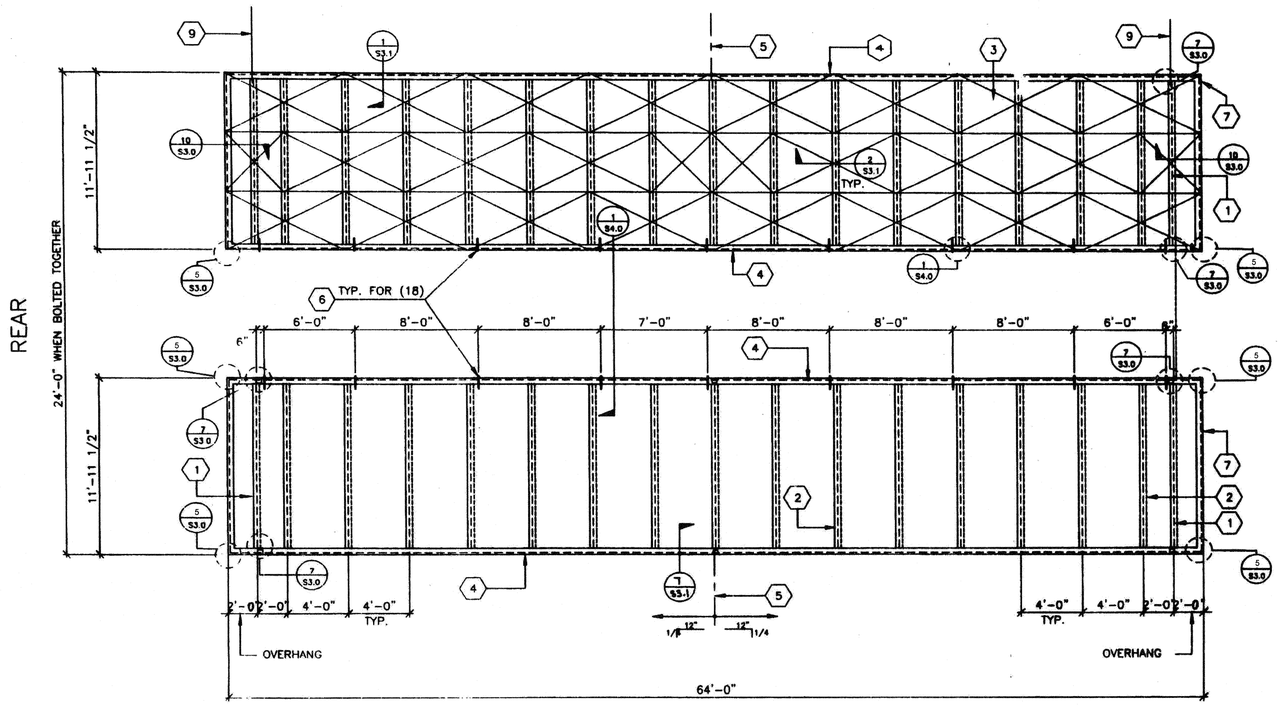
tBP project number : 20778.10
file name:
drawn by: checked by:
date: June 2017

Rev: date: description:

drawing title:
FLOOR FRAMING PLAN

drawing no.:
S-1.0

drawing of



KEY NOTES

1. 14 X 4 X 12 GA [HEADER
2. 6"X2 1/2X14 GA. PURLIN AT 48" O.C.
   ALTERNATE:
   4 1/2"X2 1/2X12 GA. PURLIN AT 48" O.C.
3. PLYWOOD ROOF SHEATHING 3/4" CD EXPOSURE 1 P.I.I 48/24 PSI-83 PLYCLIPS AT 16" O.C. LONG EDGES. #10-1-1/4" SELF TAPPING FLAT HEAD SCREWS AT 6" O.C. TO PERIMETER FRAME. AEROSMITH AKN 144.0125 DRIVE PINS @ 6" O.C. @ SUPPORTED EDGES AND 6" O.C. FIELD TO PURLINS. PLYWOOD PATTERN SHOWN IS TYPICAL THRU OUT.
   (ALTERNATE: USE AEROSMITH AKN144.0175 DRIVE PINS @ 6" O.C. PERIMETER.)
4. TAPERED ROOF BEAM 10GA. SEE 7/S3.1 [
5. RIDGE-LINE
6. 11/16" ø DRILL SEE DETAIL 1/S4.0
7. [13 1/2"X14GA. FACIA @ 2'-0" OVERHANG
8. [12 3/4"X14GA. FACIA @ 5'-0" OVERHANG
9. E.N. THIS LINE

ROOF FRAMING PLAN OPTIONS "A" & "B" & "C"

SCALE 1/4=1'-0"

ARCHITECT	ELECTRICAL	STRUCTURAL	MECHANICAL	FIRE MARSHAL	ACCESS COMPLIANCE	STRUCTURAL SAFETY
		LICENSE EXPIRES 9-30-2020				PC 304

JOB # 2872

DRAWN BY RS
DATE 9-12-96
CHECKED BY
DATE

MODTECH INC.

ROOF FRAMING PLAN S2.1

10/22/98

tBP architecture planning interiors
tBP/Architecture
4611 Teller Avenue
Newport Beach, CA 92660
ph. 949.673.0300 fx. 949.732.3695
architect

VCA ENGINEERS INC
CIVIL + STRUCTURAL
2151 Michelson Dr. #242
Irvine, CA 92612
Tel. 949.679.0870
Fax. 949.679.9370
PROJECT NO. B113-1258
consultant

DEPARTMENT OF GENERAL SERVICES
DSA Los Angeles Regional Office
700 N. Alameda Street, Suite 5-500
Los Angeles, California 90012
ph: (213)897-3995 fx: (213)897-3159/0726

FILE NO.
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DIVISION OF THE STATE ARCHITECT
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11914
AC FLS SS
DATE JAN 7 2019

CLOUD PRESCHOOL RELOCATABLES
4444 CLOUD AVENUE
LA CRESCENTA, CALIFORNIA 91214
GLENDALE UNIFIED SCHOOL DISTRICT

owner

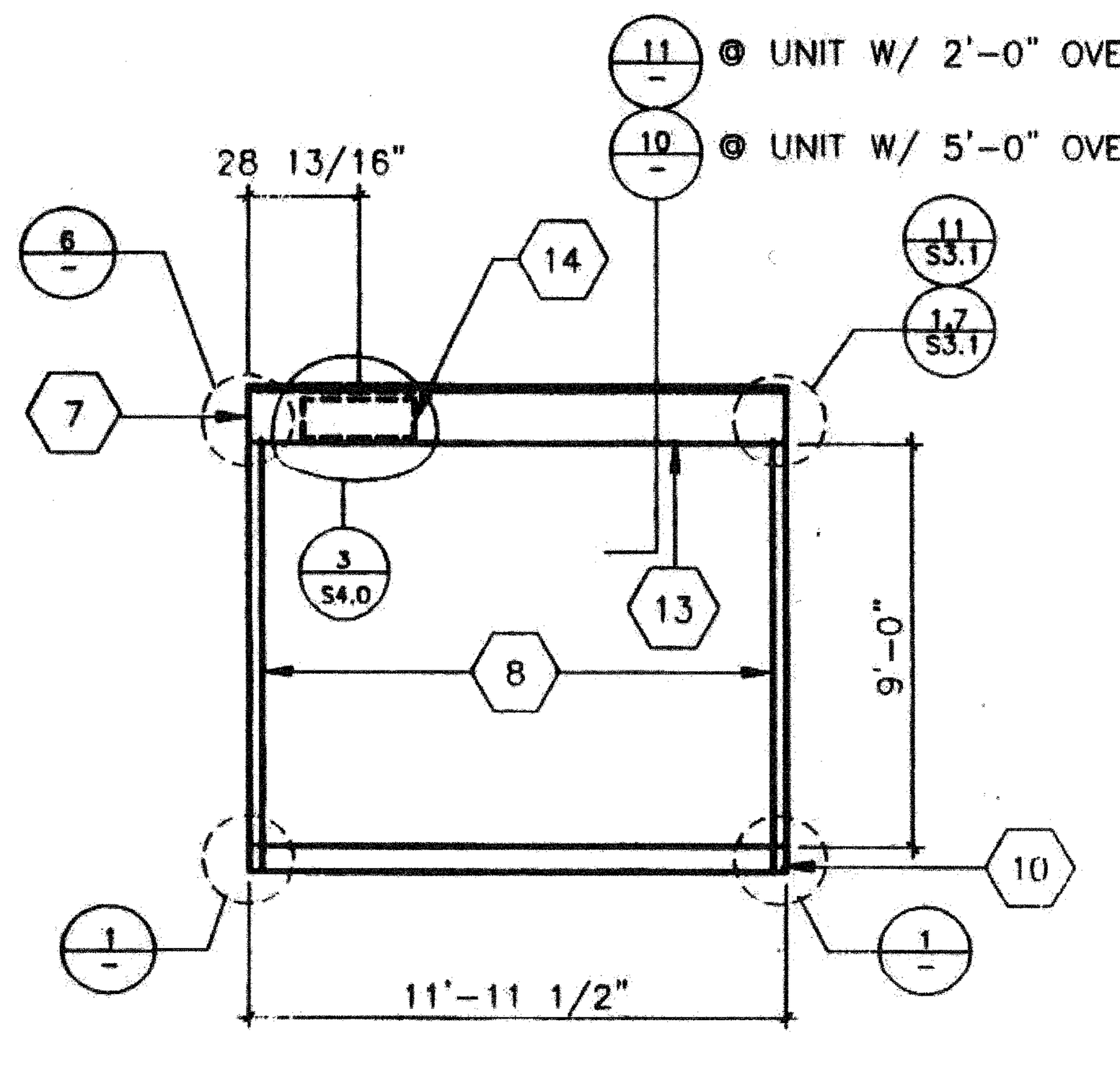
tBP project number : 20778.10
file name:
drawn by: checked by:
date: June 2017

Rev:	date:	description:

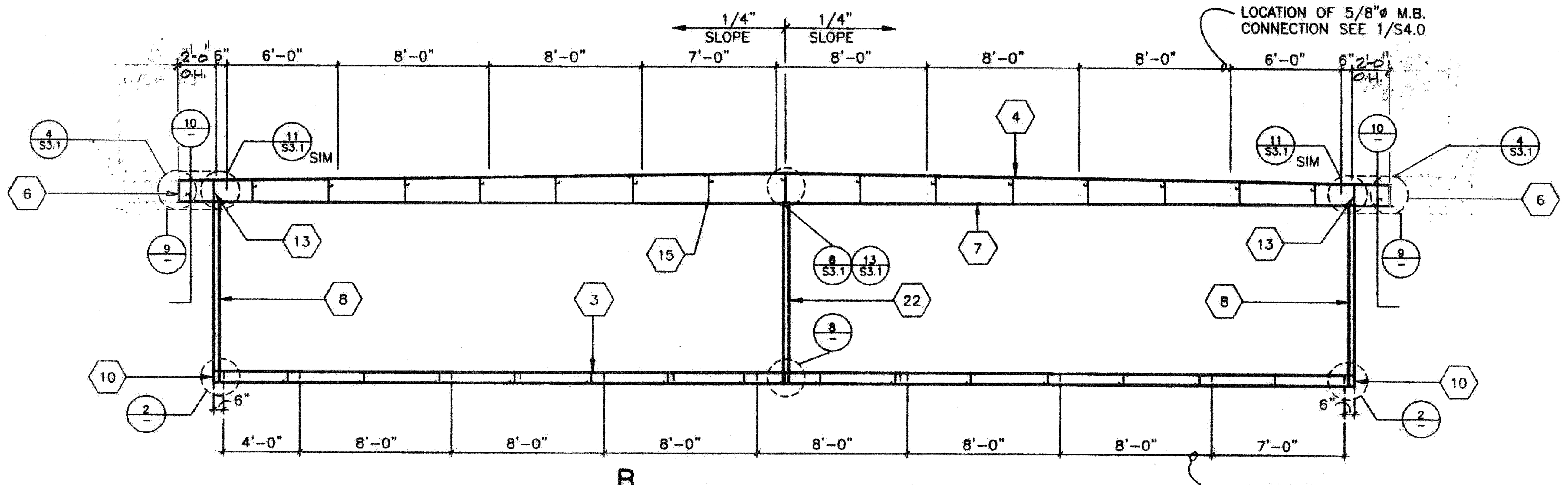
drawing title:
ROOF FRAMING PLAN

drawing no.:
S-2.1

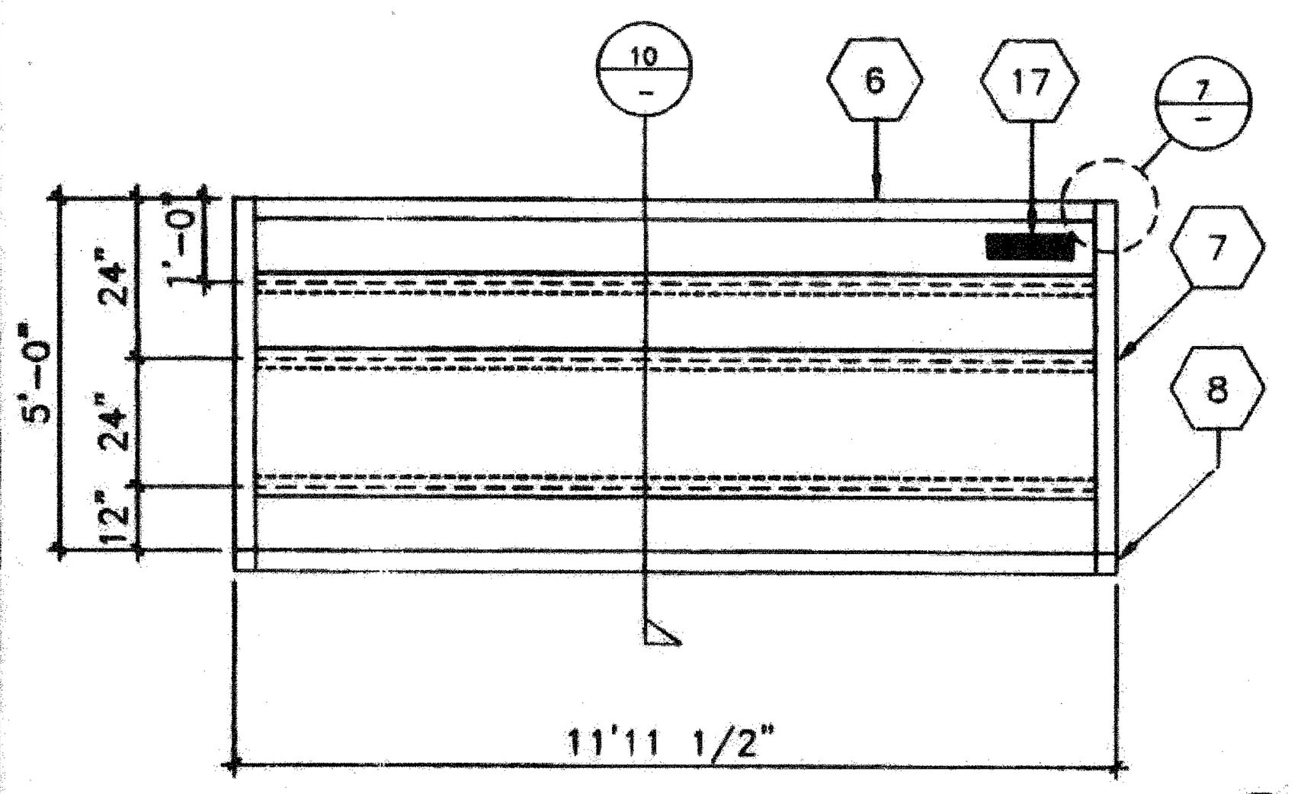
drawing of



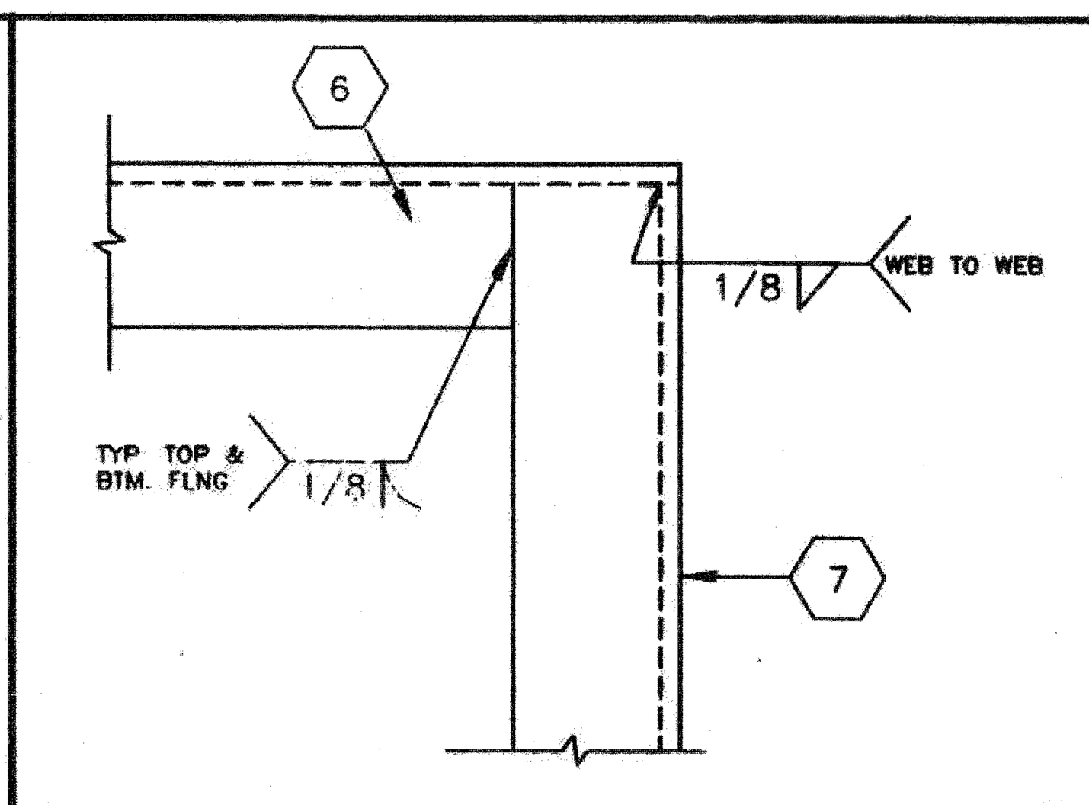
SECTION A @ ENDWALL



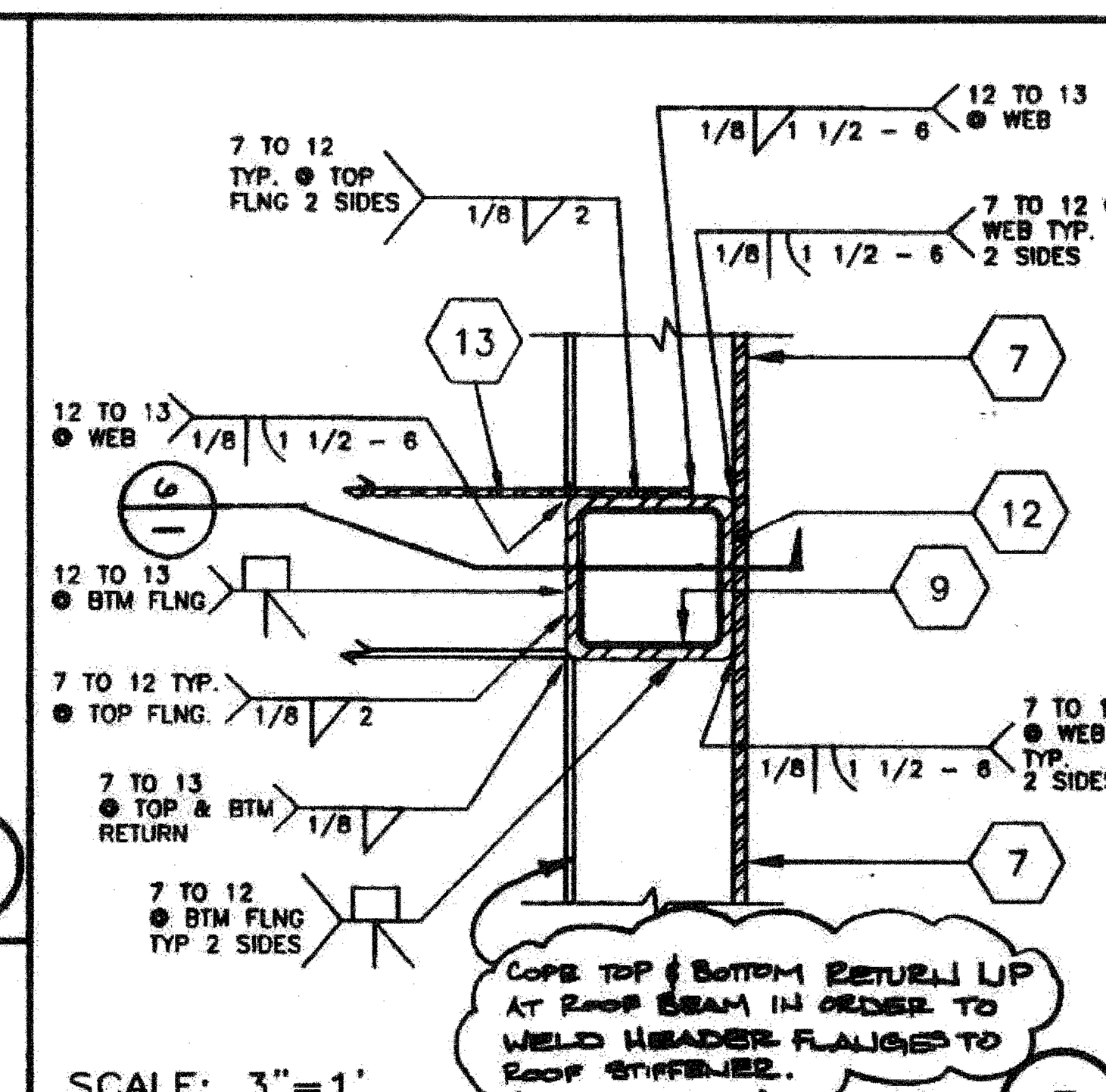
SECTION B @ SIDEWALL



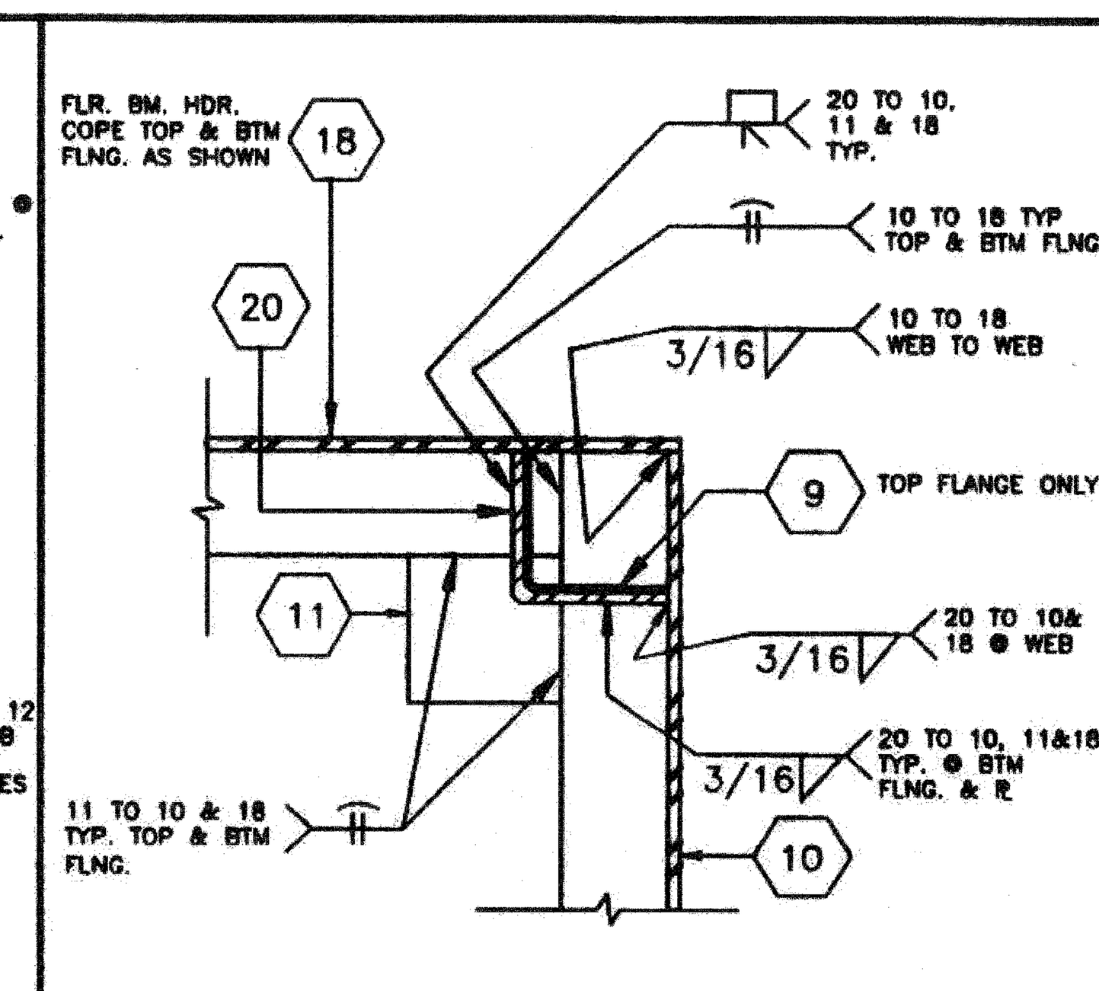
SCALE: 3/8"= 1'-0"
ENCLOSED SOFFIT PLAN (9)



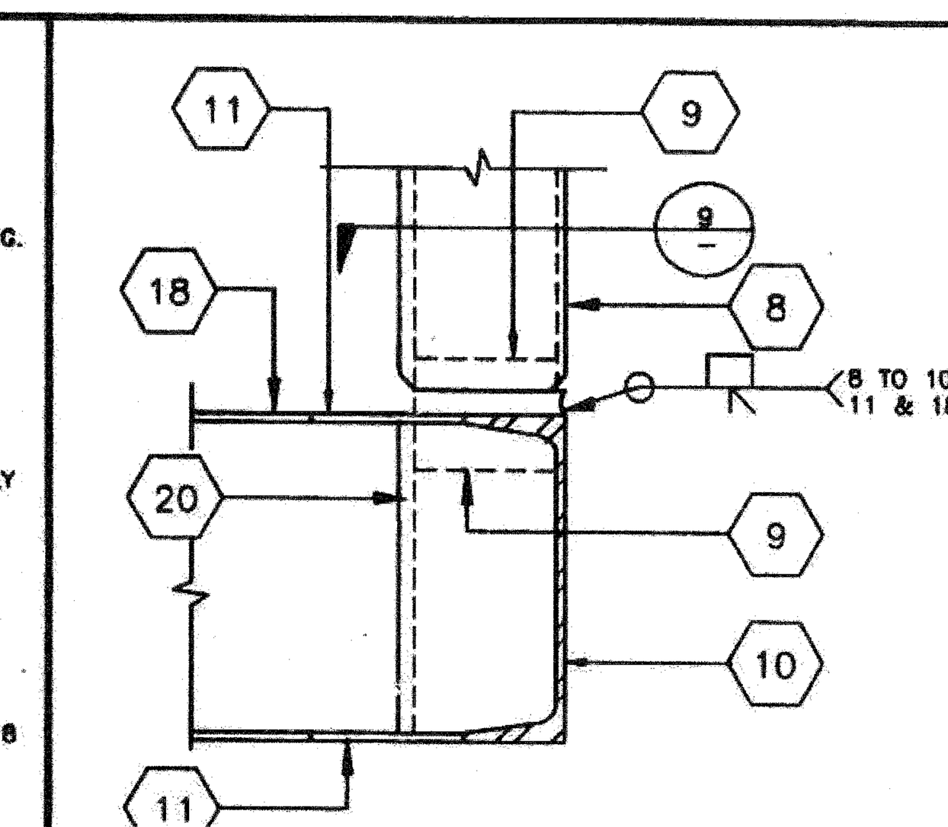
SCALE: 3"=1'
PLAN @ ROOF OVERHANG (7)



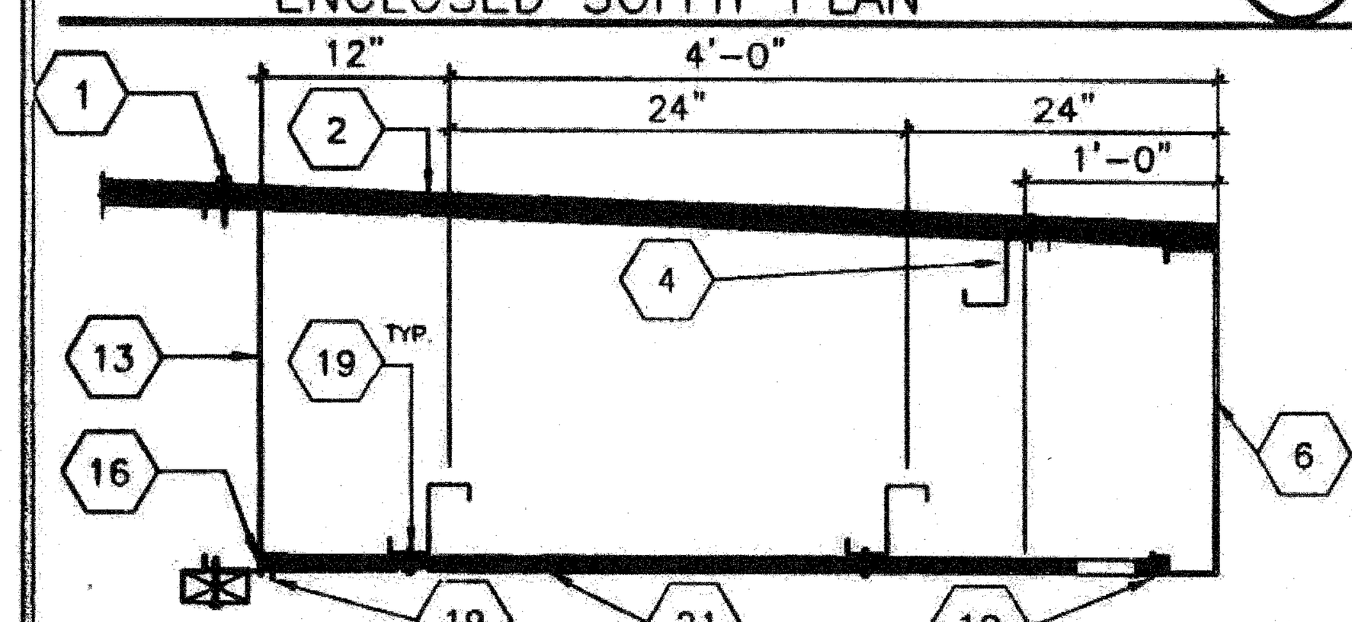
SCALE: 3"=1'
STIFFENER SECTION @ ROOF (5)



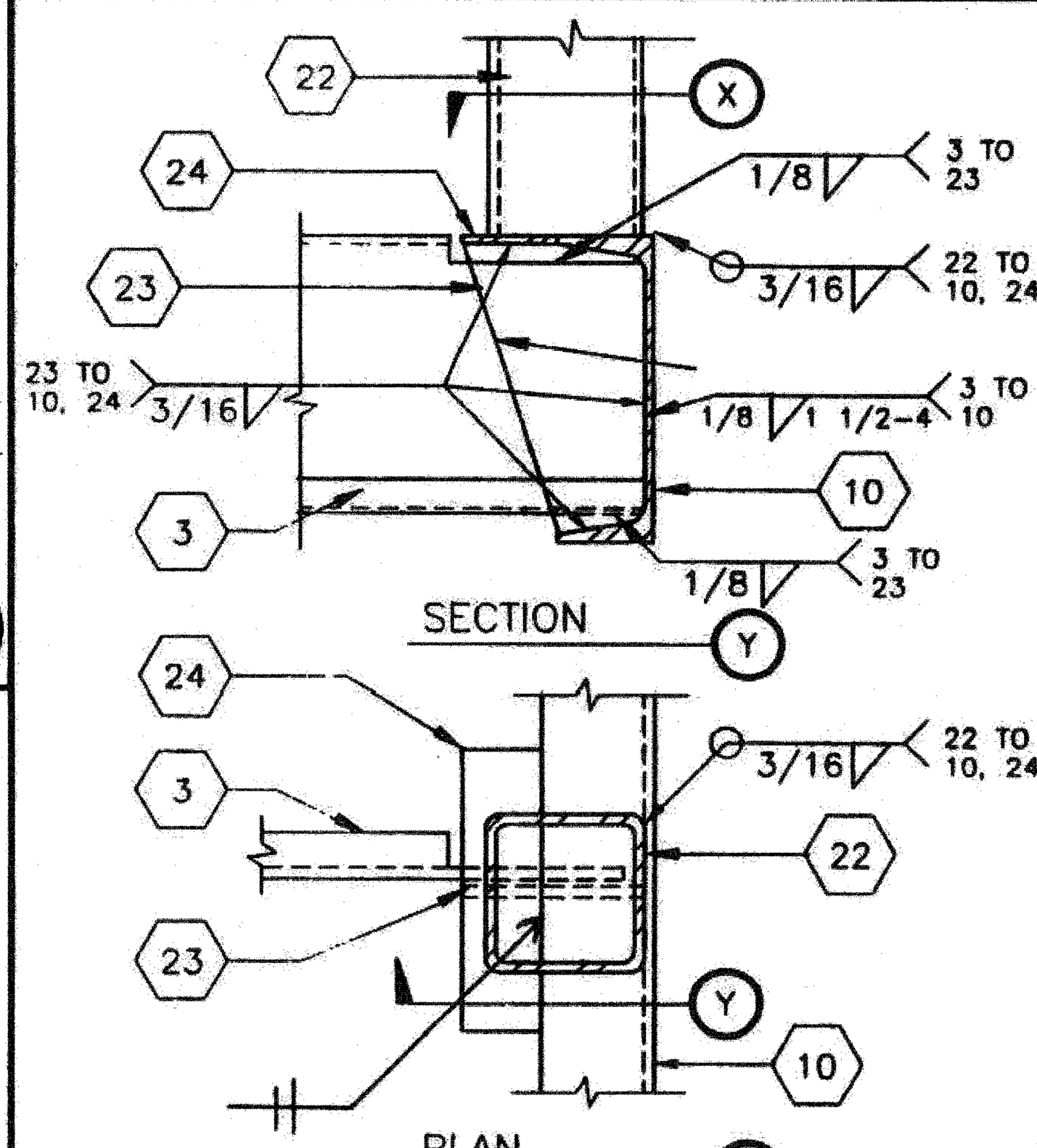
SCALE: 3"=1'
STIFFENER SECTION @ FLOOR (3)



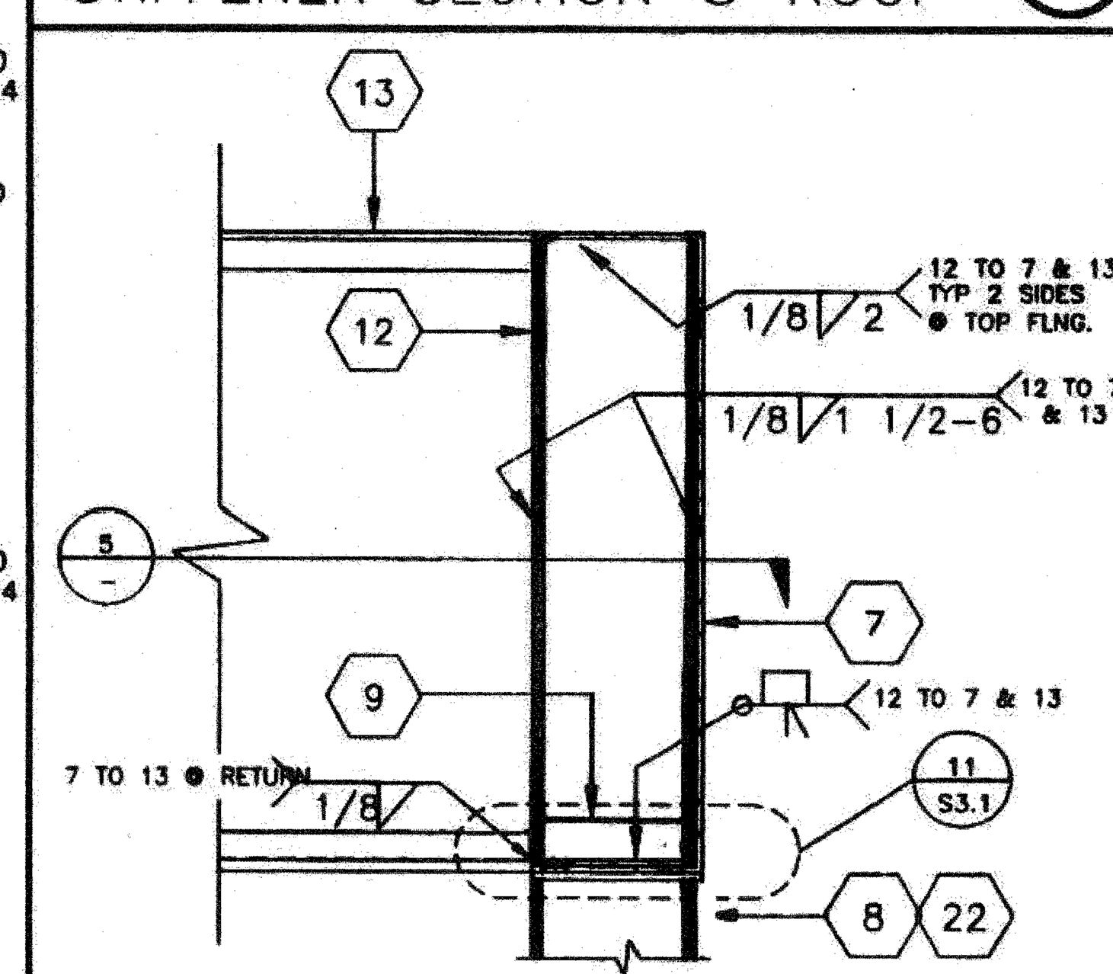
SCALE: 3"=1'
COLUMN CONN. @ FLOOR (1)



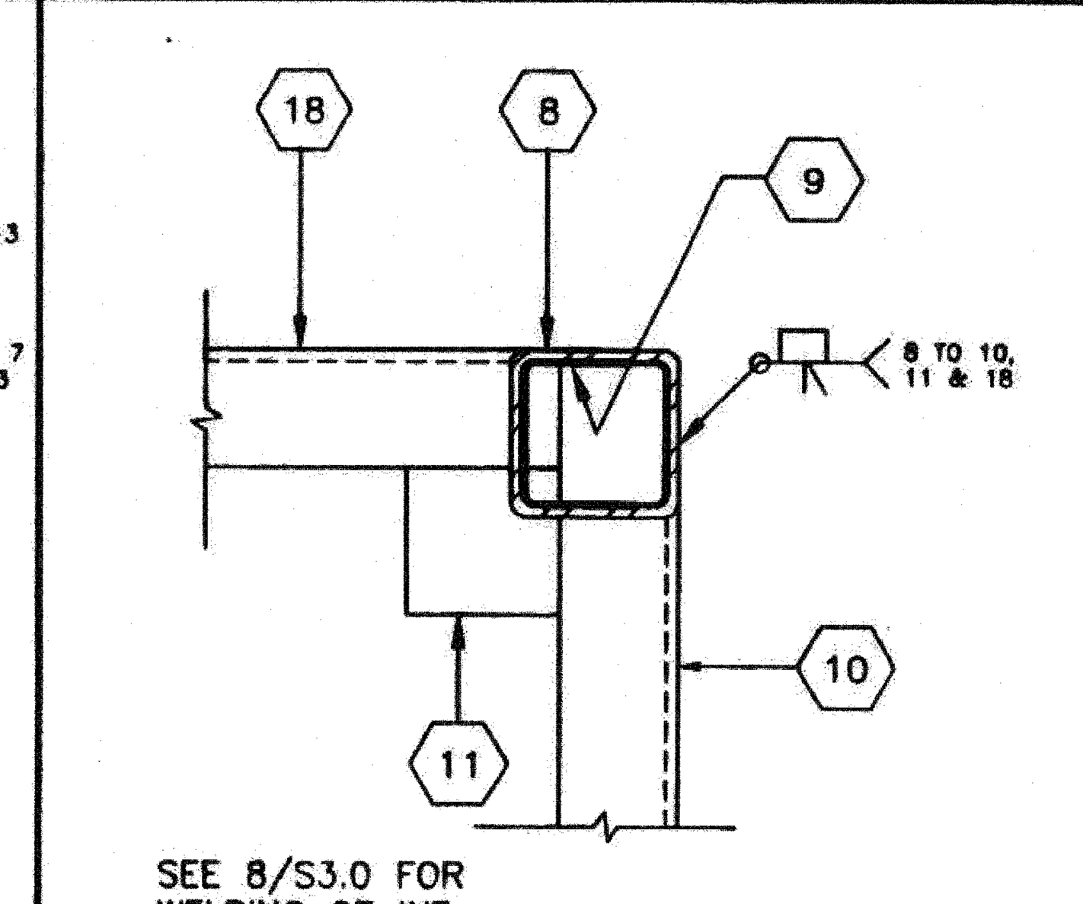
SCALE: 1"= 1'-0"
ENCLOSED SOFFIT SECTION (10)



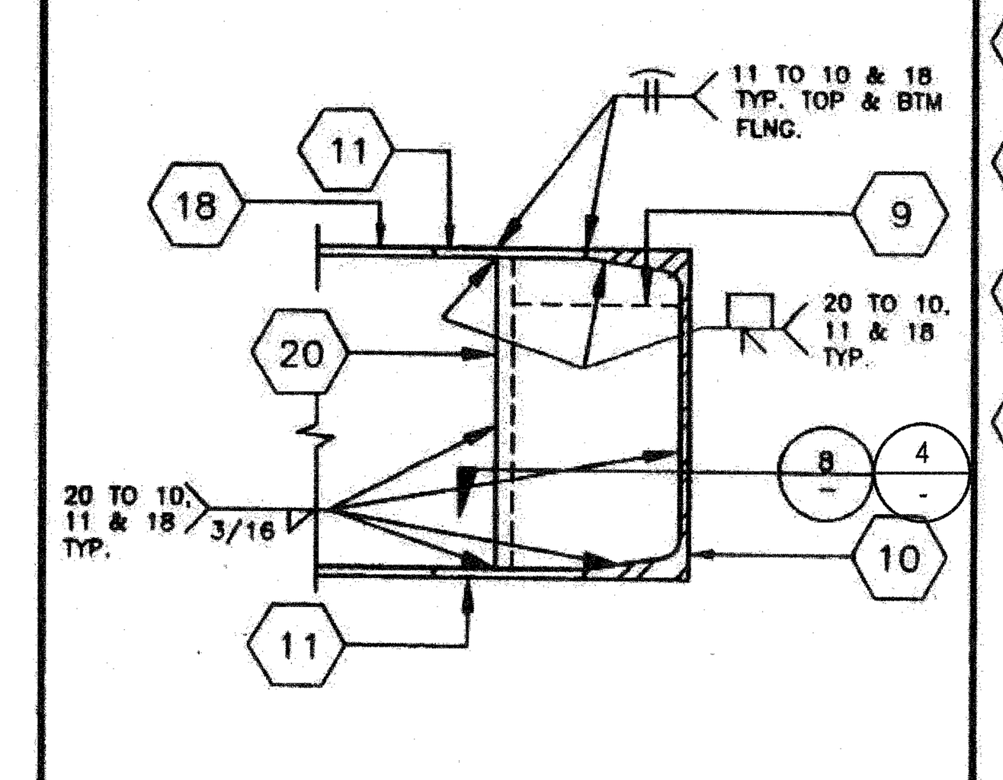
SCALE: 3"=1'
INT. COL. TO FLR. CHANNEL (8)



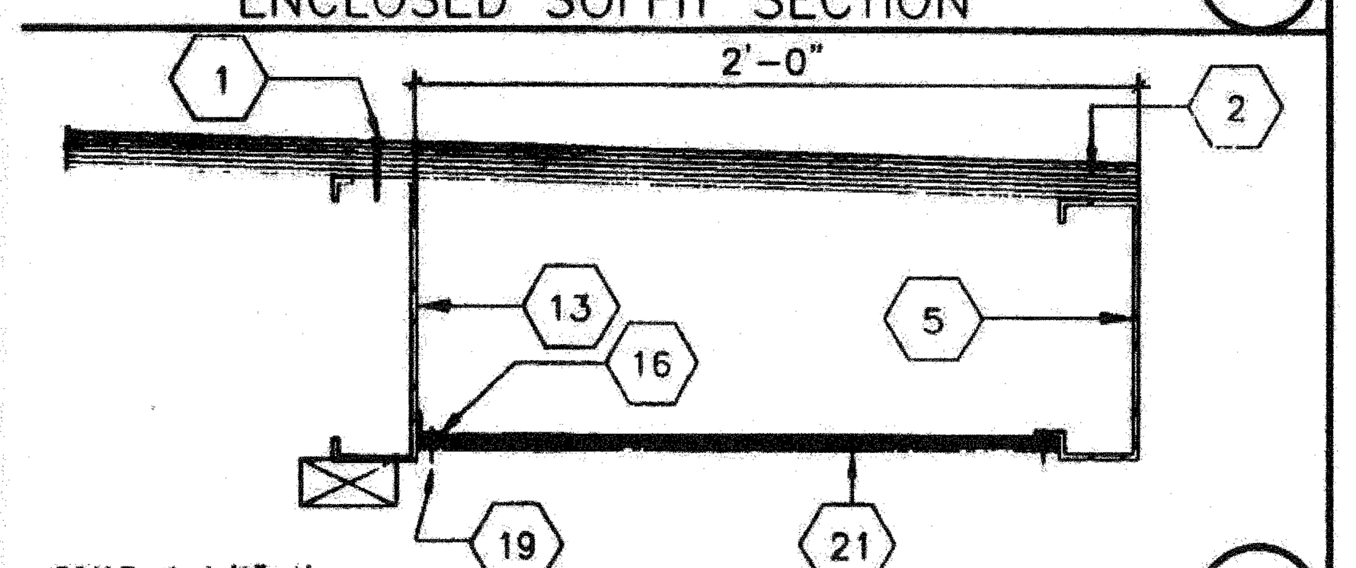
SCALE: 3"=1'
COLUMN CONN. @ ROOF (6)



SCALE: 3"=1'
COLUMN @ FLOOR (4)



SCALE: 3"=1'
COL. CONN. @ FLOOR (2)



SCALE: 1 1/2"=1'
ENCLOSED SOFFIT SECTION (11)

KEY NOTES

1. EN @ PLYWOOD EDGES
2. PLYWOOD ROOF SHEATHING
3. 6 3/8"X2 1/2"X12GA. FLR. JOIST 6/S3.1
4. 6X2 1/2"X14GA. ROOF PURLIN 2/S3.1
5. [13 1/2"X4"X14GA. FACIA 4/S3.1 AT 2'-0" OVERHANG
6. [12 3/4"X4"X14GA. FACIA 4/S3.1 AT 5'-0" OVERHANG
7. [10 GA. TAPERED ROOF BEAM (SEE 7/S3.1) OR 1/S3.1 REFER TO RF. FRAMING PLAN
8. 4"X4"X1/4" COLUMN. ENDS
9. BACK-UP PLATE MIN. 10 GA.
10. [7X9.8 FLOOR CHANNEL
11. 3 1/2"X3 1/2"X1/4" STEEL PLATE WELDED FLUSH TO TOP AND BOTTOM OF CHANNEL FLANGES
12. SECTION OF 4"X4"X1/4" TUBE STEEL COPE TO FIT ROOF BEAM
13. FASCIA HEADER SEE 4/S3.1
14. LOCATION OF HVAC
15. 10 GA. FULL DEPTH STIFFNER PLATE AT 4'-0" O.C. ALIGN W/ & WELDED TO PURLIN
16. 1/2"X 1 1/2"X16 GA.< TACK WELD IN PLANT
17. SCREENED VENT OPENING (4"X14")
18. [7X9.8 FLOOR HEADER
19. #10 STSMS @ 6" O.C. TYP. @ EN & 12" OC. FN (ALT. AEROSMITH AKN 144.0175 DRIVE PIN)
20. 4"X4"X1/4" TUBE STEEL CUT TO FIT FLOOR BEAM
21. SOFFIT PLYWOOD
22. 3 1/2"X3 1/2"X1/4" COLUMN. SIDEWALL AND MODULE LINE
23. 1/4" GUSSETT PLATE CENTER ON COLUMN
24. 3 1/2"X6"X1/4" STEEL PLATE WELDED FLUSH TO TOP OF CHANNEL FLANGE

10/22/98

REVISIONS	ELECTRICAL	MECHANICAL	STRUCTURAL	ARCHITECT	DIVISION OF THE STATE ARCHITECT
			LICENSE EXPIRES 6-30-2000		IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES PC304 AC___ FLS___ SS___ DATE JAN 2 1 1997

MODTECH INC.
2830 BARRETT AVE.
PERRIS, CA. 92572
PH. (909) 943-4014
FX. (909) 940-0427

JOB NO: 2872
DRAWN BY
DATE 1-13-97
CHECKED BY
DATE

FRAMING ELEVATIONS AND DETAILS
S3.0
JOB NO: PC-304

tBP architecture planning interiors
tBP/Architecture
4611 Teller Avenue
Newport Beach, CA 92660
ph: 949.673.0300 fx: 949.732.3895
architect

VCA ENGINEERS INC
Civil • Structural
2151 Michelson Dr. #242
Irvine, CA 92612
Tel. 949.679.0870
Fax. 949.679.9370
PROJECT NO. 8113-1258
consultant

FILE NO.:
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DSA Los Angeles Regional Office
700 N. Alameda Street, Suite 5-500
Los Angeles, California 90012
ph: (213)897-3995 fx: (213)897-3159/0726

CLOUD PRESCHOOL RELOCATABLES

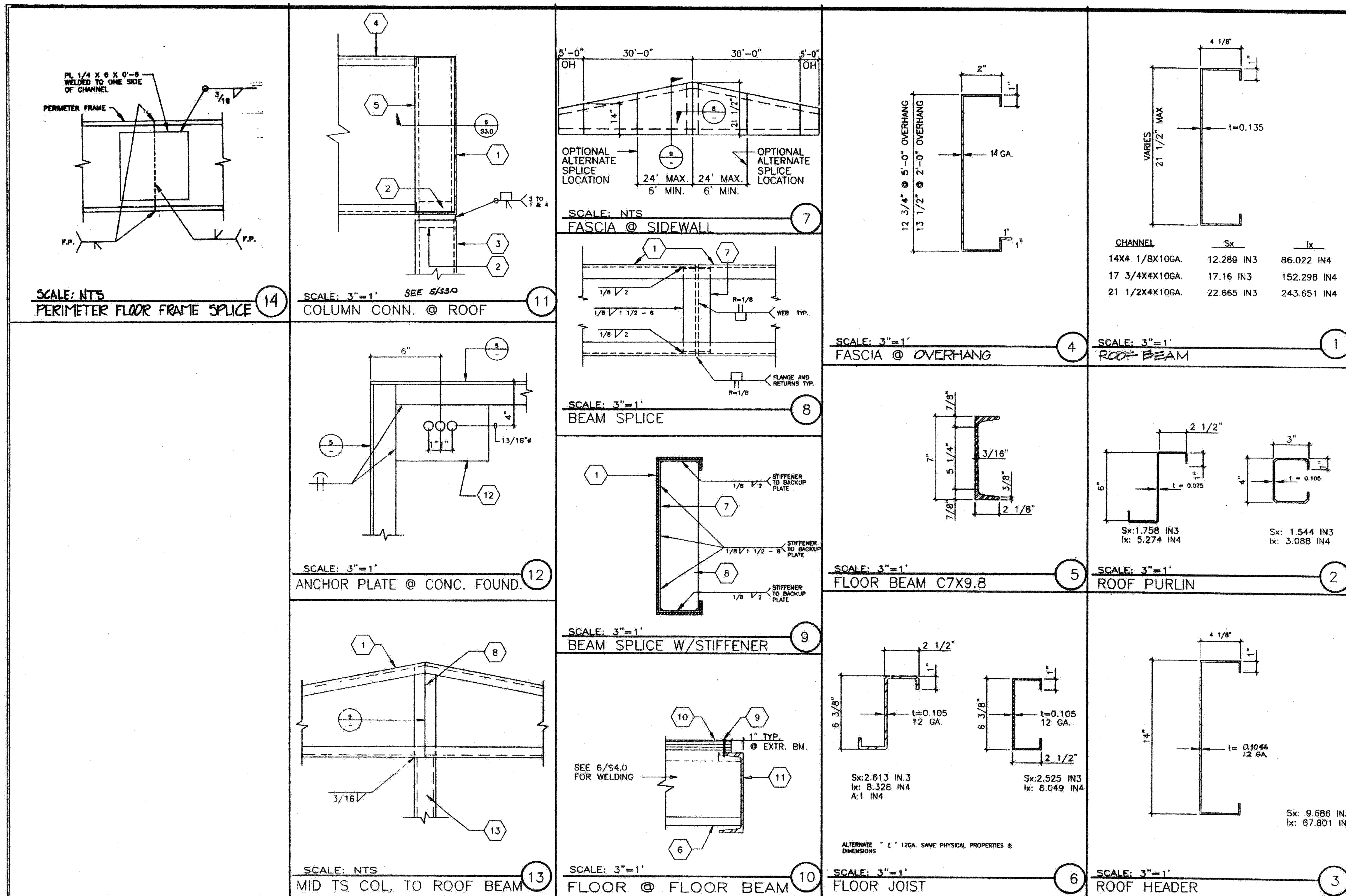
4444 CLOUD AVENUE
LA CRESCENTA, CALIFORNIA 91214
GLENDALE UNIFIED SCHOOL DISTRICT
owner

tBP project number: 20778.10
file name:
drawn by: checked by:
date: June 2017
Rev: date: description:

drawing title:
FRAMING ELEVATIONS AND DETAILS

drawing no.:
S-3.0

drawing of



KEY NOTES

1. 10GA. TAPERED RF. BM. SEE 1/S3.1 & 7/S3.1
2. BACK-UP PLATE MIN. 10GA.
3. 4"X4"X1/4" COLUMN
4. [14"X12GA. RF. HDR. SEE 3/S3.1
5. 4"X4"X1/4" TUBE COPE TO FIT RF. BM.
6. FLOOR JOIST SEE 6/S3.1
7. 10GA. BENT PLATE BACK-UP
8. 10 GA. STIFFENER @ 4'-0" O.C.
9. #10 STSMS @ 6" O.C. (SEE S1.0 (4))
10. PLYWOOD FLR. SHEATHING
11. FLOOR BEAM SEE 5/S3.1
12. 5"X8"X1/4"?
13. 3 1/2"X3 1/2"X1/4" COLUMN

6/22/98

REVISIONS	ELECTRICAL	MECHANICAL	STRUCTURAL	ARCHITECT	DIVISION OF THE STATE ARCHITECT
			LICENSE EXPIRES 6-30-2000		IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES PC 304 AC FLS SS DATE JAN 2 1 1997

MODTECH INC.

MODTECH INC.
2830 BARRETT AVE.
PERRIS, CA. 92572
PH. (909) 943-4014
FX. (909) 940-0427

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JOB NO: 2672

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DATE 9-12-96
CHECKED BY
DATE

STRUCTURAL DETAILS S3.1

JOB NO: PC-304

tBP architecture planning interiors

tBP/Architecture
4611 Teller Avenue
Newport Beach, CA 92660
ph: 949.673.0300 fx: 949.732.3895

architect

VCA ENGINEERS INC
2151 Michelson Dr. #242
Irvine, CA 92612
Tel. 949.679.0870
Fax. 949.679.9370
PROJECT NO. 8113-1258

consultant

FILE NO.:
IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
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DEPARTMENT OF GENERAL SERVICES
DSA Los Angeles Regional Office
700 N. Alameda Street, Suite 5-500
Los Angeles, California 90012
ph: (213)897-3995 fx: (213)897-3159/0726

CLOUD PRESCHOOL RELOCATABLES

4444 CLOUD AVENUE
LA CRESCENTA, CALIFORNIA 91214

GLENDALE UNIFIED SCHOOL DISTRICT

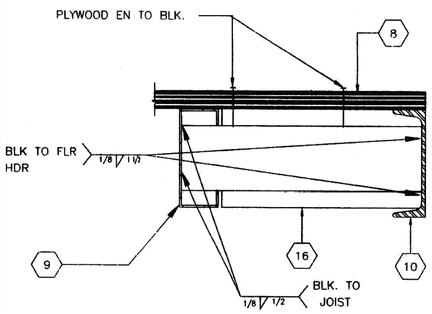
owner

tBP project number: 20778.10
file name:
drawn by: checked by:
date: June 2017
Rev: date: description:

drawing title:
STRUCTURAL DETAILS

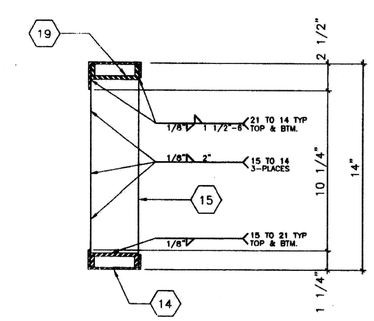
drawing no.:
S-3.1

drawing of



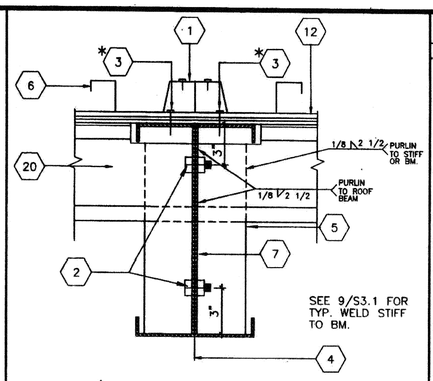
SCALE: 3"=1'

BLOCK @ MIDSPAN (7)



SCALE: 3"=1'

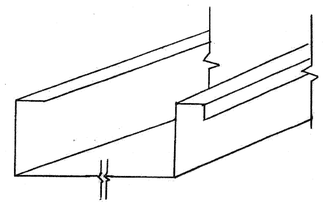
MECH. DUCT OPENING IN HEADER (4)



SCALE: 3"=1'

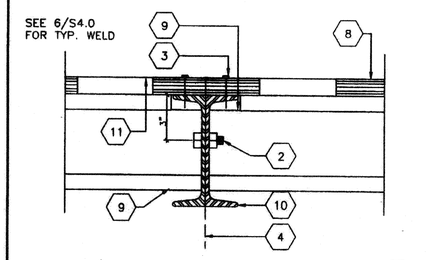
* DO NOT PENETRATE MT'L RF. DECK

ROOFING @ MODLINE (1)



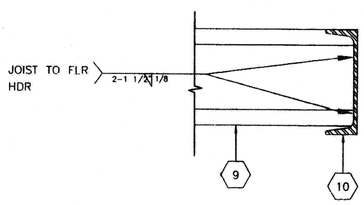
SCALE: NTS

ROOF PAN (26GA.) (5)



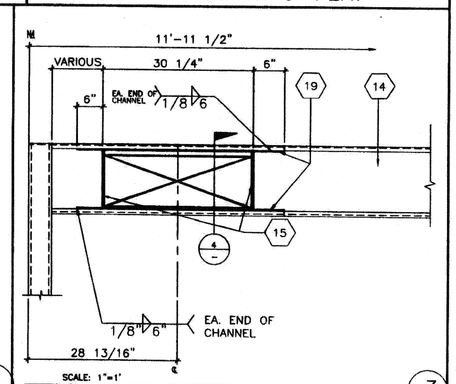
SCALE: 3"=1'

MODULE JOINT @ FLR. (2)



SCALE: 3"=1'

FLOOR FRAME/JOIST TO BEAM (6)



SCALE: 1"=1'

ELEVATION–OPENING (3)

KEY NOTES

1. CAP CLOSURE @ RIDGE 26GA. GALV. W/#10 TYPE FASTENERS W/NEOPRENE WASHERS TO RIB BOTH SIDES OF MODLINE. SET CAP IN SEALANT SEE DETAIL–
2. 5/8" M.B. A307 MODULE JOINT (SEE STRUCTURAL PLAN FOR LOCATION) @ 8' O.C.
3. E.N.
4. MODULE JOINT
5. 1/4" @ 8' O.C. FULL DEPTH STIFFENER PLATE (SEE 9/S3.1)
6. STANDING ROOF SEAM (SEE ROOF PLAN)
7. ROOF BEAM (SEE STRUCTURAL) SEE 1/S3.1
8. PLYWOOD FLOOR SHEATHING
9. FLOOR JOIST 6/S3.1
10. FLOOR BEAM (SEE STRUCTURAL 5/S3.1)
11. HAND HOLE @ BOLT LOCATION (5" SQ.)
12. PLYWOOD ROOF SHEATHING
13. 4"X4"X1/4" STEEL TUBE COLUMN
14. ROOF HEADER (SEE STRUCTURAL 3/S3.1)
15. 1/4" STIFFENER PLATE SEE 9/S3.1 FOR TYP WELD
16. "C" BLOCKING SEE 6/S3.1
17. 10GA. BACK–UP PL
18. 2"X2"X3/16" ∠
19. 3 3/4"X1"X12GA. REINFORCING CHANNEL TOP & BOTTOM OF FLANGES
20. ROOF PURLIN SEE 2/S3.1
21. TUBE STEEL (SEE NOTE #13)
22. ROOF BEAM AT OVERHANG
23. 1/4" PLATE

LICENSED ARCHITECT TROY JAY ADAY NO. C-23875 REN. 2-29-20 STATE OF CALIFORNIA

10/22/96

8

9

ARCHITECT	ELECTRICAL	STRUCTURAL	MECHANICAL	FIRE MARSHAL	ACCESS COMPLIANCE	STRUCTURAL SAFETY
		LICENSE EXPIRES 6-30-2000				PC 304 AC FLS SS DATE JAN 2 1 1997

MODTECH INC,

JOB # 2872

DRAWN BY KA&A
DATE 9-12-96
CHECKED BY
DATE

STRUCTUAL DETAILS S4.0

JOB NO. PC-304

tBP architecture planning interiors
tBP/Architecture
4611 Teller Avenue
Newport Beach, CA 92660
ph. 949.673.0300 fx. 949.732.3895
architect

VCA ENGINEERS INC
CIVIL • STRUCTURAL
2151 Michelson Dr. #242
Irvine, CA 92612
Tel. 949.679.0870
Fax. 949.679.9370
PROJECT NO. B113-1258
consultant

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DSA Los Angeles Regional Office
700 N. Alameda Street, Suite 5-500
Los Angeles, California 90012
ph: (213)897-3995 fx: (213)897-3159/0726

CLOUD PRESCHOOL RELOCATABLES
4444 CLOUD AVENUE
LA CRESCENTA, CALIFORNIA 91214
GLENDALE UNIFIED SCHOOL DISTRICT

owner

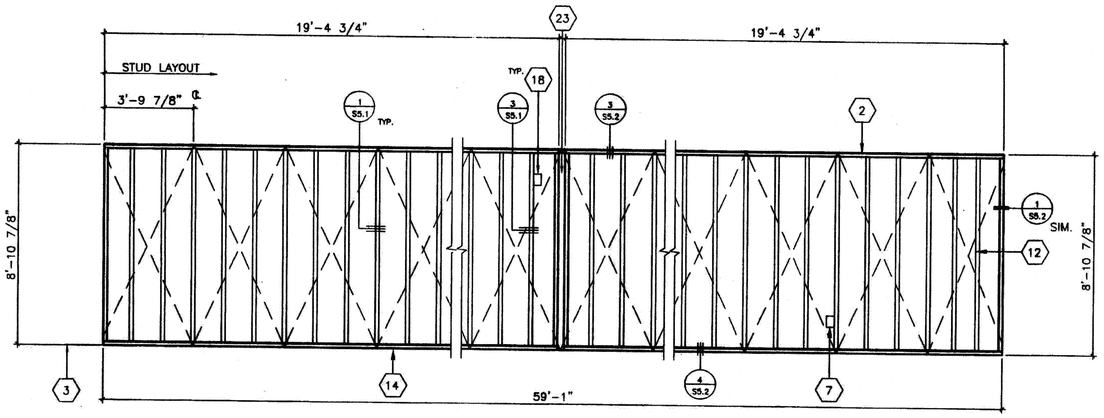
tBP project number : 20778:10
file name:
drawn by: checked by:
date: June 2017

Rev: date: description:

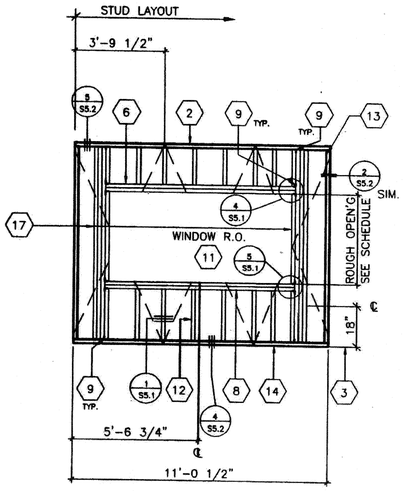
drawing title:
STRUCTURAL DETAILS

drawing no.:
S-4.0

drawing of



A
A$_1$ OPPOSITE HAND



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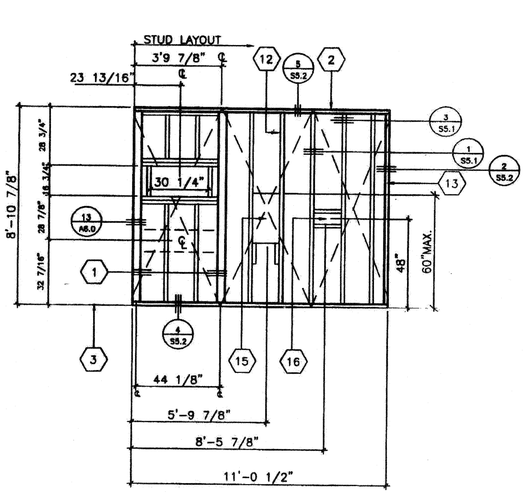

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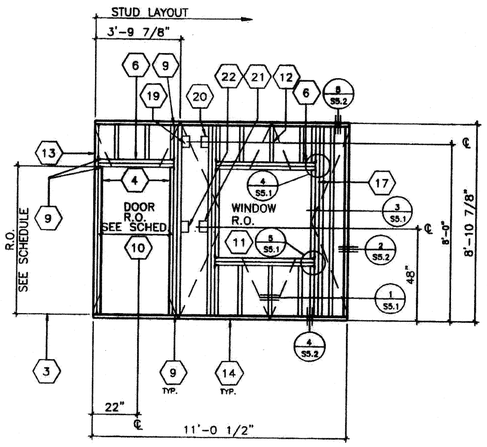
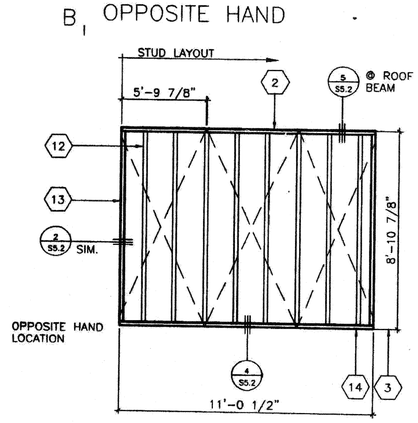


D
D$_1$ OPPOSITE HAND



E

SCALE 3/8"=1'

KEY NOTES

1. 4 X 4 POST
2. 2X4 TOP PLATE
3. FINISH FLOOR
4. 2X4 FULL HGT. KING STUDS AND 2X4 TRIMMER (SEE SCHEDULE FOR QUANTITY SHT S5.1)
5. NOT USED
6. HEADER (SEE SCHEDULE)
7. DUPLEX OUTLET BOX
8. WINDOW SILL PLATE (SEE SCHEDULE)
9. A 34 CLIPS @ HEADER & SILL TO FULL HGT. STUDS AND FULL HGT. STUDS TO TOP AND BOTTOM PLATES
10. REQUIRED OPENING FOR A 3068 DOOR (SEE DETAIL 7/S5.1)
11. REQUIRED OPENING FOR WINDOW (SEE DETAIL 6,12/S5.1)
12. 2X4 STUD @ 16" O.C. TYPICAL
13. 2X4 NAILER TYPICAL @ EACH END
14. 2X4 SILL PLATE
15. FRAME FOR ELECTRICAL PANEL
16. THERMOSTAT LOCATION 4S BOX
17. FULL HGT. STUDS AND 1-2X4 TRIMMER (SEE WINDOW SCHEDULE FOR JAMB STUDS REQUIRED SHT. S5.1)
18. CLOCK OUTLET +90" AFF
19. "J" BOX FOR EXTERIOR LIGHT FIXTURE (TO EXTERIOR)
20. FIRE HORN (TO EXTERIOR)
21. FIRE PULL STATION (TO INTERIOR)
22. LIGHT SWITCH BOX
23. 3 1/2 X 3 1/2 X 1/4 TS COLUMN

10/22/98

REVISIONS	ELECTRICAL	MECHANICAL	STRUCTURAL	ARCHITECT	DIVISION OF THE STATE ARCHITECT
			LICENSE EXPIRES 9-30-2000		IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES PC 304 AC. DLS SS DATE JAN 2 1 1997

MODTECH INC.
2830 BARRETT AVE.
PERRIS, CA. 92572
PH. (909) 943-4014
FX. (909) 940-0427

JOB NO: 2572

DRAWN BY
DATE
CHECKED BY
DATE: 9-12-96

WALL FRAMING

S5.0

JOB NO. PC-304

tBP architecture planning interiors
tBP/Architecture
4611 Teller Avenue
Newport Beach, CA 92660
ph: 949.673.0300 fx: 949.732.3895
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VCA ENGINEERS INC
CIVIL • STRUCTURAL
2151 Michelson Dr. #242
Irvine, CA 92612
Tel. 949.679.0870
Fax. 949.679.9370
PROJECT NO. B113-1258
consultant

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DEPARTMENT OF GENERAL SERVICES
DSA Los Angeles Regional Office
700 N. Alameda Street, Suite 5-500
Los Angeles, California 90012
ph: (213)897-3995 fx: (213)897-3159/0726

CLOUD PRESCHOOL RELOCATABLES
4444 CLOUD AVENUE
LA CRESCENTA, CALIFORNIA 91214
GLENDALE UNIFIED SCHOOL DISTRICT
owner

tBP project number : 20778.10
file name:
drawn by: checked by:
date: June 2017

Rev:	date:	description:

drawing title:
WALL FRAMING

drawing no.:
S-5.0
drawing of

OPENING SCHEDULE

OPENING	HDR.	SILL	JAMB	ROUGH OPENING HEIGHT	ROUGH OPENING WIDTH
3068	(4) 2X4		(4) 2X4	81 1/4"	38"
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
4040	4X4	(2) 2X4	(2) 2X4	48 1/8"	48 1/8"

ALTERNATE: METAL STUD 24 HDS350
IN LIEU OF 2X4 WD. STUDS

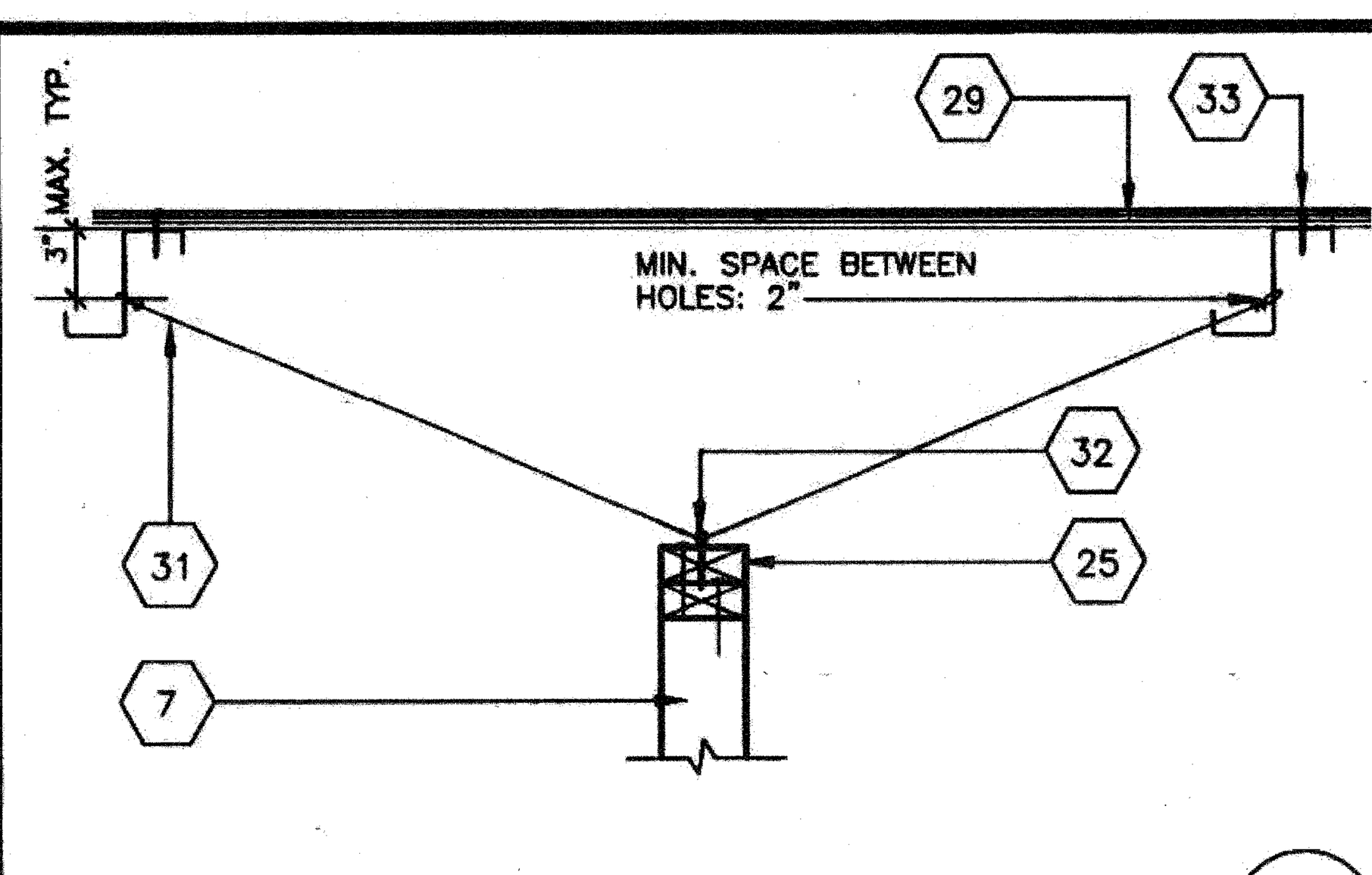
12

NAILING SCHEDULE

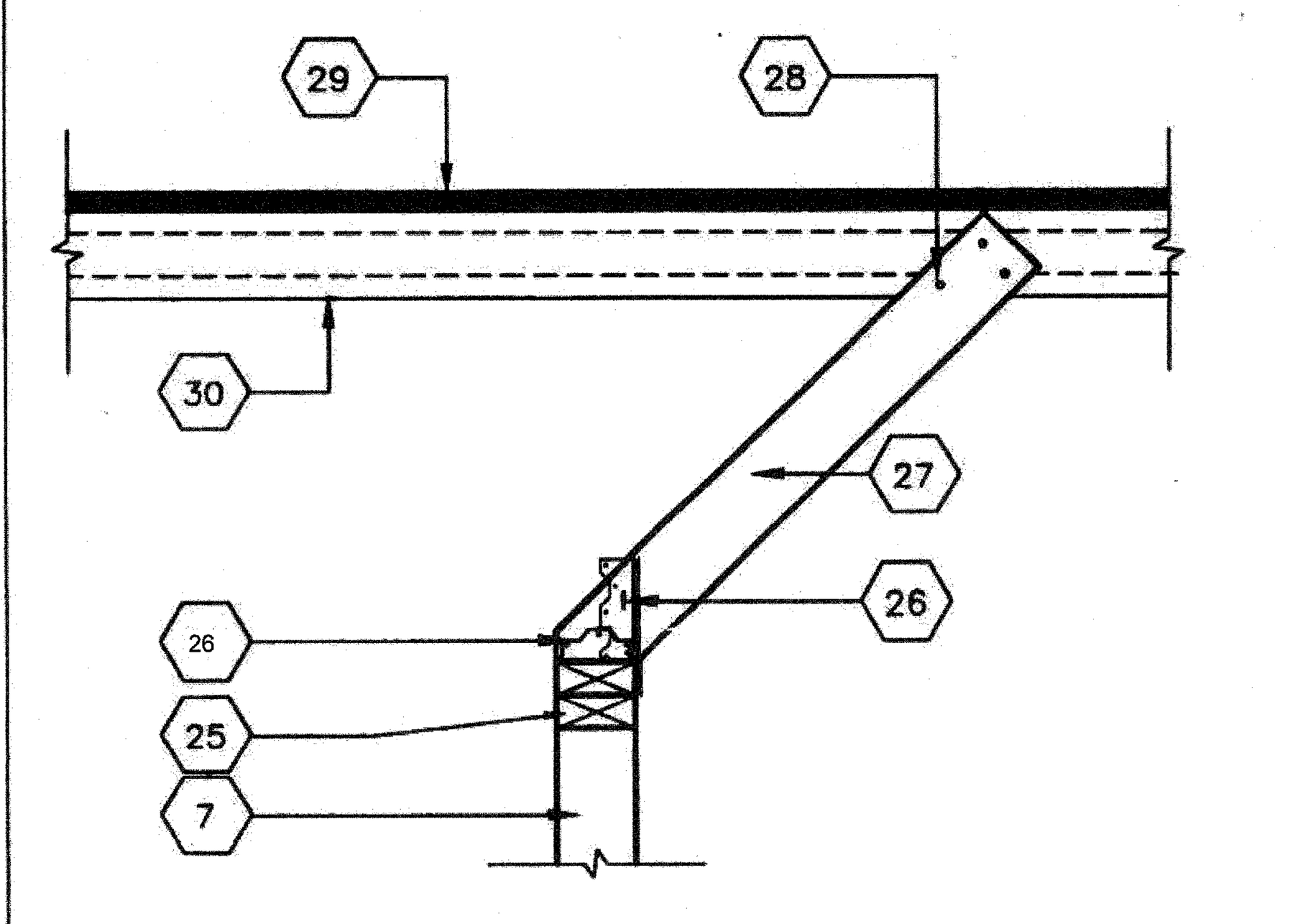
CONNECTION	NAILING
1. JOIST TO SILL OR GIRDER, TOENAIL	3-8d
2. Bridging to joist, toenail each end	2-8d
3. 1" x 8" subfloor or less to each joist, face nail	2-8d
4. Wider than 1"x 8" subfloor to each joist, face nail	3-8d
5. 2" subfloor to joist or girder blind and face nail	2-16d
6. Sole plate to joist or blocking, face nail	16d at 16"o.c.
7. Top plate to stud, end nail	2-16d
8. Stud to sole plate	4-8, or toenail. 2-16d, endnail
9. Double Studs, face nail	16d at 24"o.c.
10. doubled top plates, face nail	16d at 16"o.c.
11. Top plates, laps and intersections, face nail	2-16d
12. Continuous header, two pieces	16d at 16"o.c. along each edge
13. Ceiling joists to plate, toenail	3-8d
14. Continuous header to stud, toenail	4-8d
15. Ceiling joists, laps over partitions, face nail	3-16d
16. Ceiling joists to parallel rafters, face nail	3-16d
17. Rafter to plate, toenail	3-8d
18. 1" brace to each stud and plate, face nail	2-8d
19. 1" x 8" sheathing or less to each bearing, face nail	2-8d
20. Wider than 1" x 8" sheathing to each bearing, face nail	3-8d
21. Built-up corner studs	staggered 2-20d at 16d at 24"o.c.
22. Built-up girder and beams	20d at 32" o.c. at top and bottom and end and at each splice.
23. 2" planks	2-16d at each bearing
24. Plywood and particleboard Subfloor, roof and wall sheathing (to framing)	
1/2" and less	6d
15/32" -3/4"	8d or 6d
7/8" - 1"	8d
1 1/8"-1 1/4"	10d or 8d
Combination Subfloor-underlayment (to framing):	
3/4" and less	6d
7/8" - 1"	8d
1 1/8"-1 1/4"	10d or 8d
25. Panel Siding (to framing):	
1/2" or less	6d
5/8"	8d

NOTE: All nail shall be box nails unless otherwise noted.

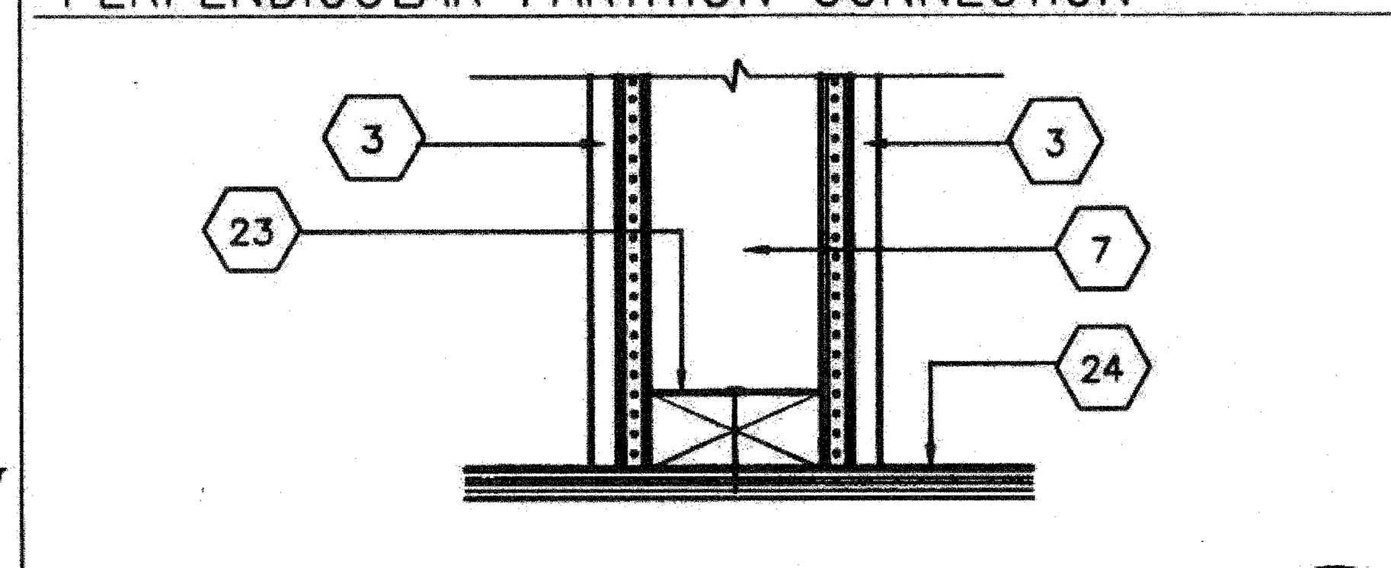
NAILING SCHEDULE 13



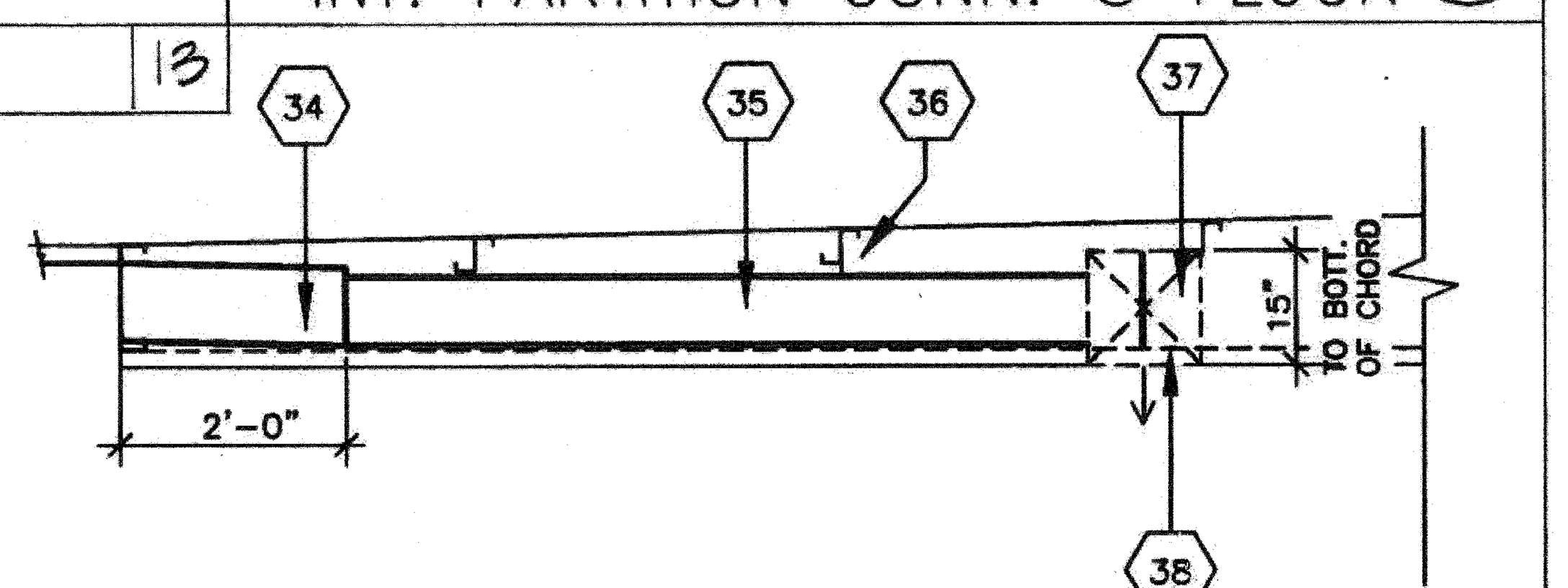
SCALE: 1-1/2"=1'
PARALLEL PARTITION CONN. 8



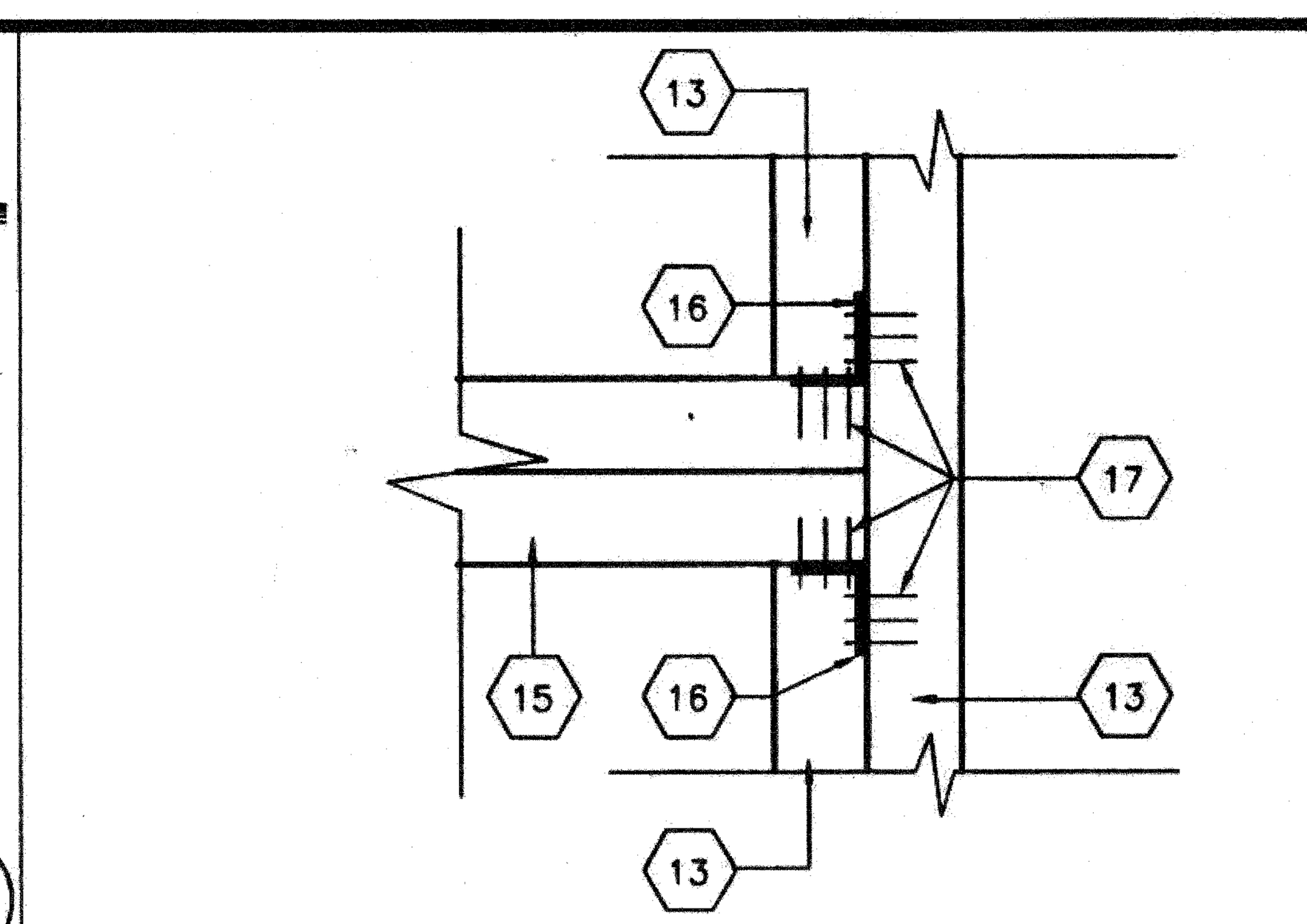
SCALE: 3"=1'
PERPENDICULAR PARTITION CONNECTION 9



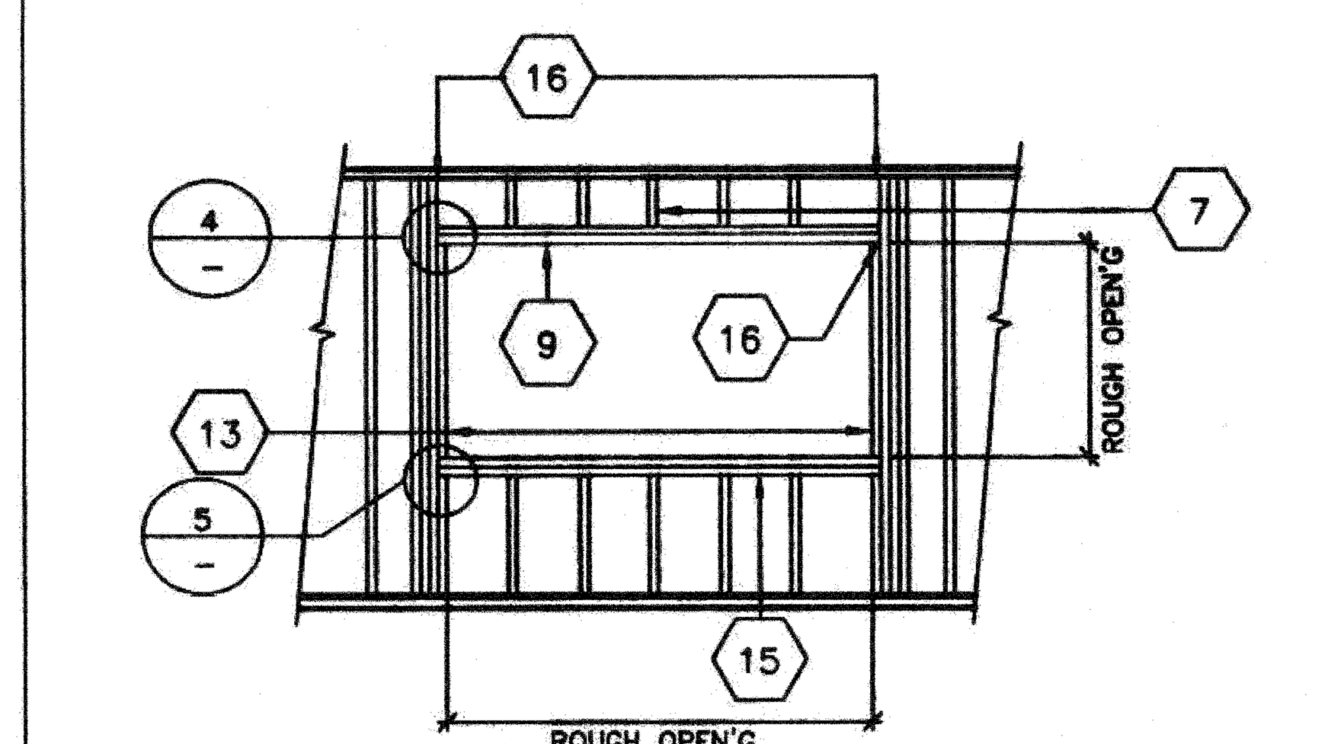
SCALE: 3"=1'
INT. PARTITION CONN. @ FLOOR 10



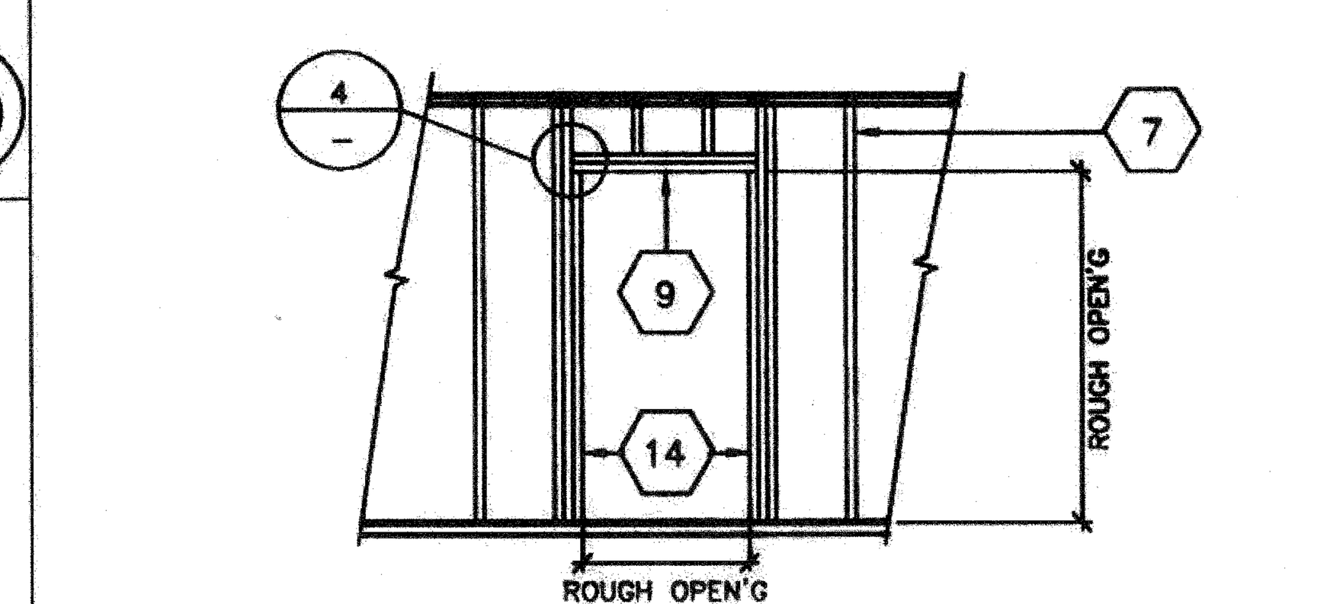
SCALE: 1/2=1'
SECTION; HVAC IN ATTIC 11



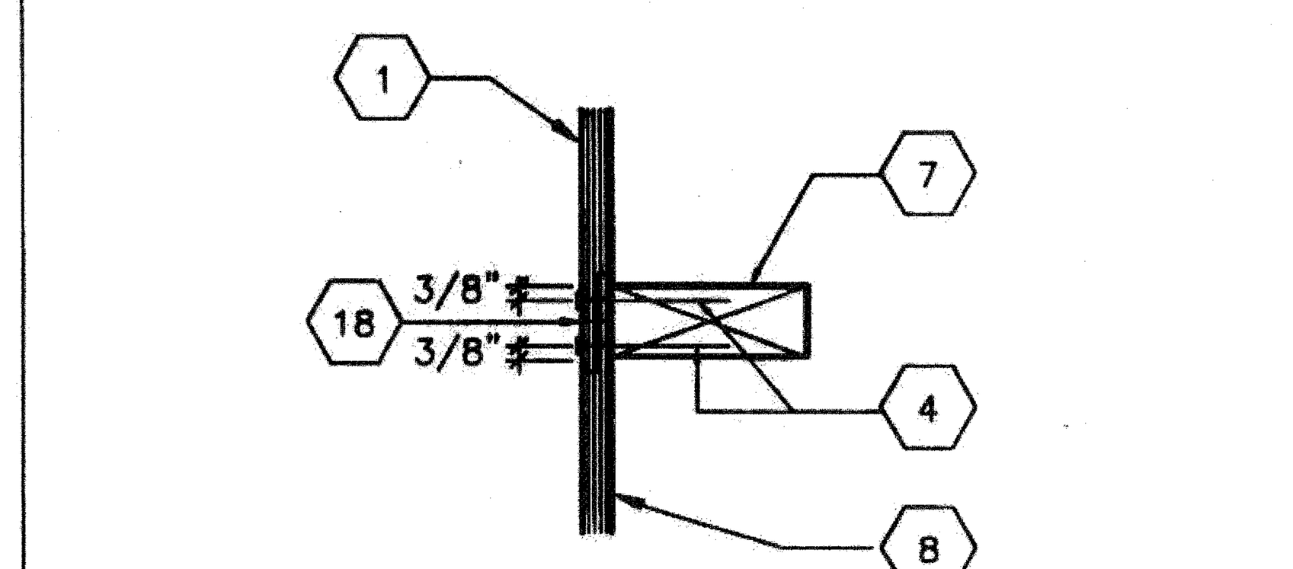
SCALE: 3"=1'
WINDOW SILL @ JAMB 5



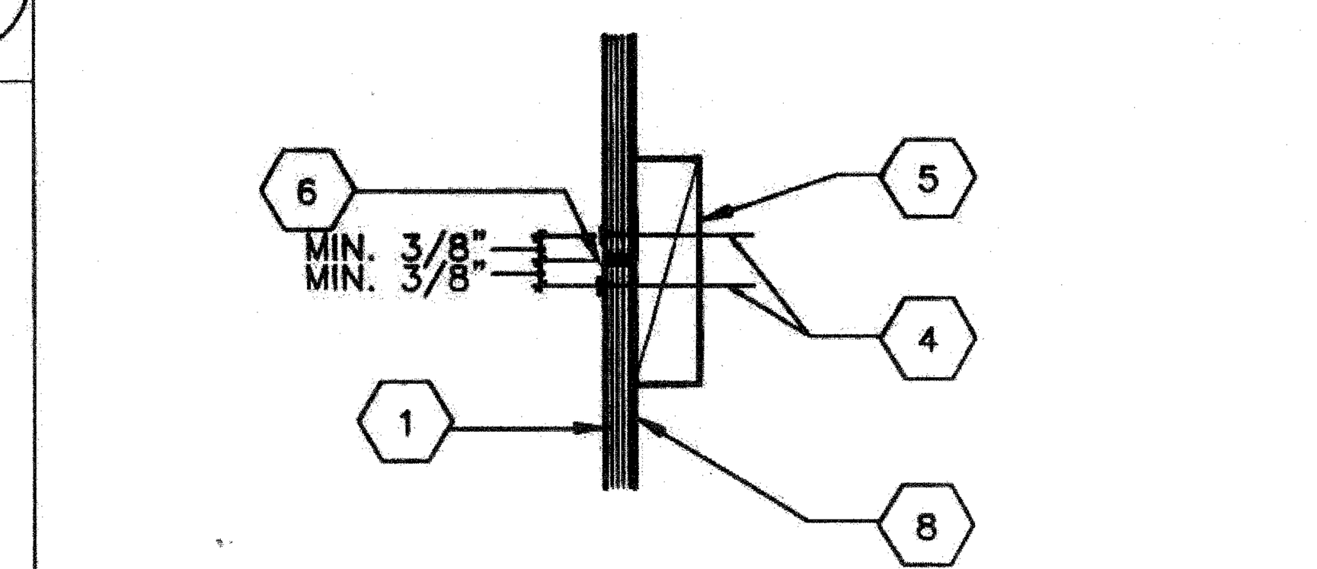
SCALE: 3"=1'
TYPICAL WINDOW FRAMING 6



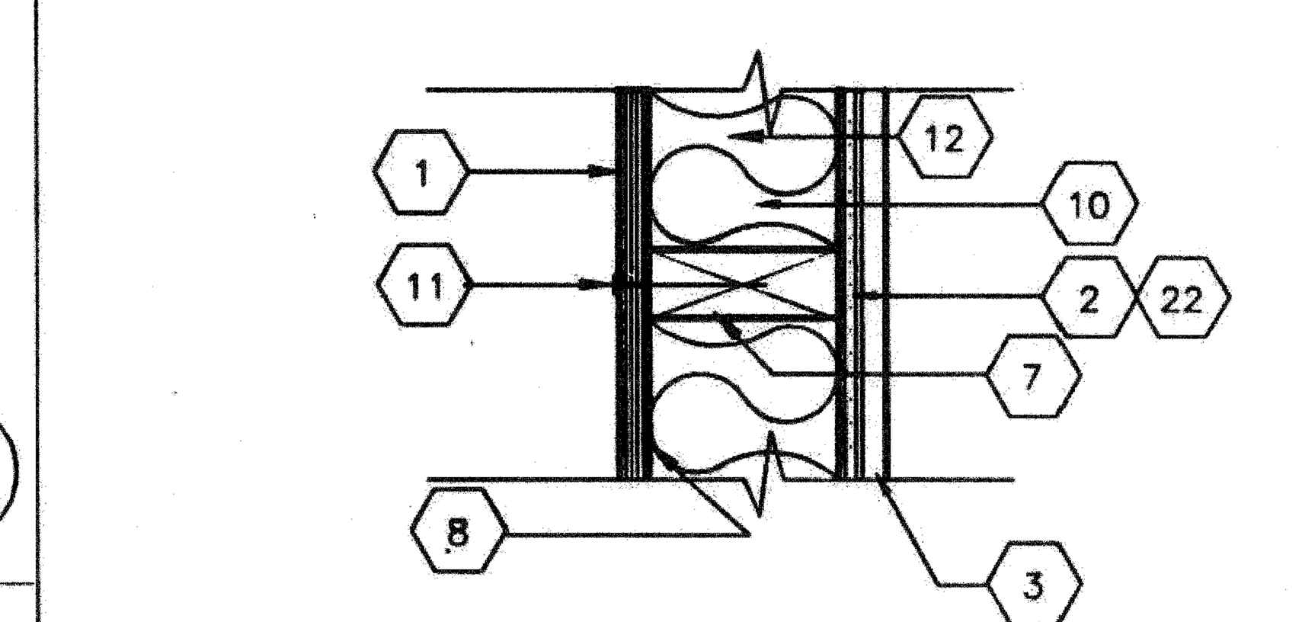
SCALE: 3"=1'
TYPICAL DOOR FRAMING 7



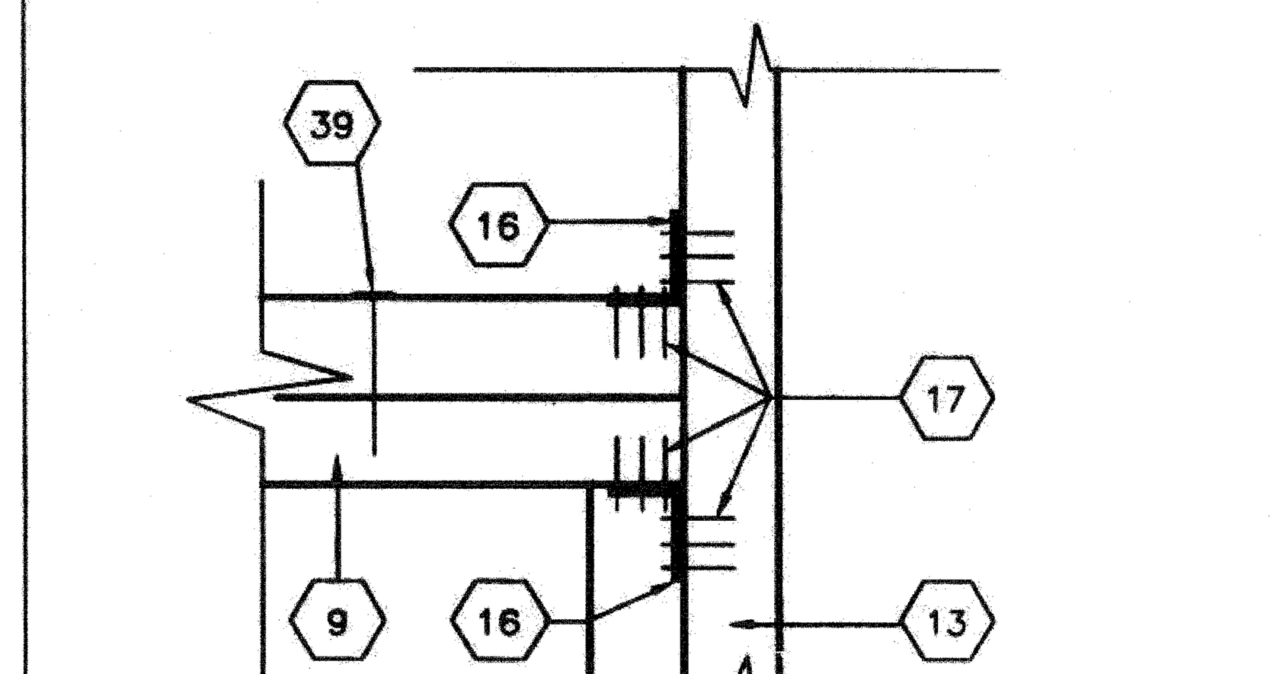
SCALE: 3"=1'
@ VERT. PLYWOOD EDGES 1



SCALE: 3"=1'
DETAIL @ HORIZ. PLYWOOD JOINTS 2



SCALE: 3"=1'
SECTION @ STUD 3



SCALE: 3"=1'
HEADER DETAIL 4

KEY NOTES

1. EXTERIOR PLYWOOD SIDING – SHEATHING NAIL W/GALV. BOX NAILS –8d @ 6" O.C. EDGES, 8d @ 12" O.C. IN FIELD
2. GYP. BOARD
3. TYP. INTERIOR FINISH–SEE FINISH SCHEDULE
4. E.N.
5. 2X4 BLK'G
6. "Z" FLASHING
7. 2X4 @ 16" O.C.
8. WATERPROOF MEMBRANE
9. HEADER SEE SCHED. S5.1
10. INSULATION SEE SPECIFICATIONS
11. 8d ELECTRO GALV. 12" O.C.FN.
12. 2X4 SILL PLATE (BELOW)
13. FULL HEIGHT STUDS AND 1–2X4 TRIMMER (SEE WINDOW SCHEDULE FOR JAMB STUDS REQ'D)
14. 2X4 FULL HEIGHT KING STUDS AND 2X4 TRIMMER (SEE SCHEDULE FOR QUANITY)
15. SILL PLATE (SEE SCHEDULE)
16. A 34 CLIPS @ HEADER AND SILL TO FULL HEIGHT STUDS AND FULL HEIGHT STUDS TO TOP AND BOTTOM PLATES
17. 9GA. 8d 1 1/2" NAILS
18. LAP JOINT
19. NOT USED
20. NOT USED
21. NOT USED
22. ATTACH GYP. BD. TO STUDS W/6d COOLERS @ 6" O.C.
23. 2X4 BOTTOM PLATE W/16d @ 16" O.C.
24. PLYWOOD FLOOR
25. 2X4 DBL TOP PLATE
26. SIMPSON A35 (B LEG) W/8d X 2 1/2"
27. 2X4 BRACE @ 8'–0" O.C. MAX. @ MAX 45°
28. #12 X 2 TYPE A HEX HEAD SCREWS W/WASHERS (TYP. OF 3)
29. PLYWOOD SHEATHING
30. ROOF PURLIN
31. ATTACH 12GA. BRACE WIRES TO EYE LAG SCREWS AND TO ROOF PURLINS @8'–0" O.C. ENDS TO HAVE 4 TIGHT WRAPS IN 1–1/2"
32. 1/4ø 2–1/2" EYE LAG SCREW @8'–0" O.C. (Z " EMBEDMENT)
33. ATTACH PER ROOF FRAMING PLAN (TYP.)
34. PLEMNUM
35. DUCTWORK (RIGID)
36. ROOF PURLIN
37. TRANSFER BOX
38. ROOF CHANNEL
39. 16D @ 16" O.C.

LICENSED ARCHITECT TROY JAY ADAY NO. C-23975 REN. 2-28-[illegible] STATE OF CALIFORNIA

10/22/98

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MODTECH INC.

JOB # 2872

DRAWN BY RS
DATE 9-12-96
CHECKED BY
DATE

FRAMING DETAILS

S5.1

JOB NO. PC-304

tBP architecture planning interiors

tBP/Architecture
4611 Teller Avenue
Newport Beach, CA 92660
ph: 949.673.0300 fx: 949.732.3895

architect

VCA ENGINEERS INC
CIVIL • STRUCTURAL
2151 Michelson Dr. #242
Irvine, CA 92612
Tel. 949.679.0870
Fax. 949.679.9370
PROJECT NO. 8113-1258

consultant

FILE NO.:
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DEPARTMENT OF GENERAL SERVICES
119149
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DATE JAN 7 2019

DEPARTMENT OF GENERAL SERVICES
DSA Los Angeles Regional Office
700 N. Alameda Street, Suite 5-500
Los Angeles, California 90012
ph: (213)897-3995 fx: (213)897-3159/0726

CLOUD PRESCHOOL RELOCATABLES

4444 CLOUD AVENUE
LA CRESCENTA, CALIFORNIA 91214

GLENDALE UNIFIED SCHOOL DISTRICT

owner

tBP project number: 20778.10
file name:
drawn by: checked by:
date: June 2017
Rev: date: description:

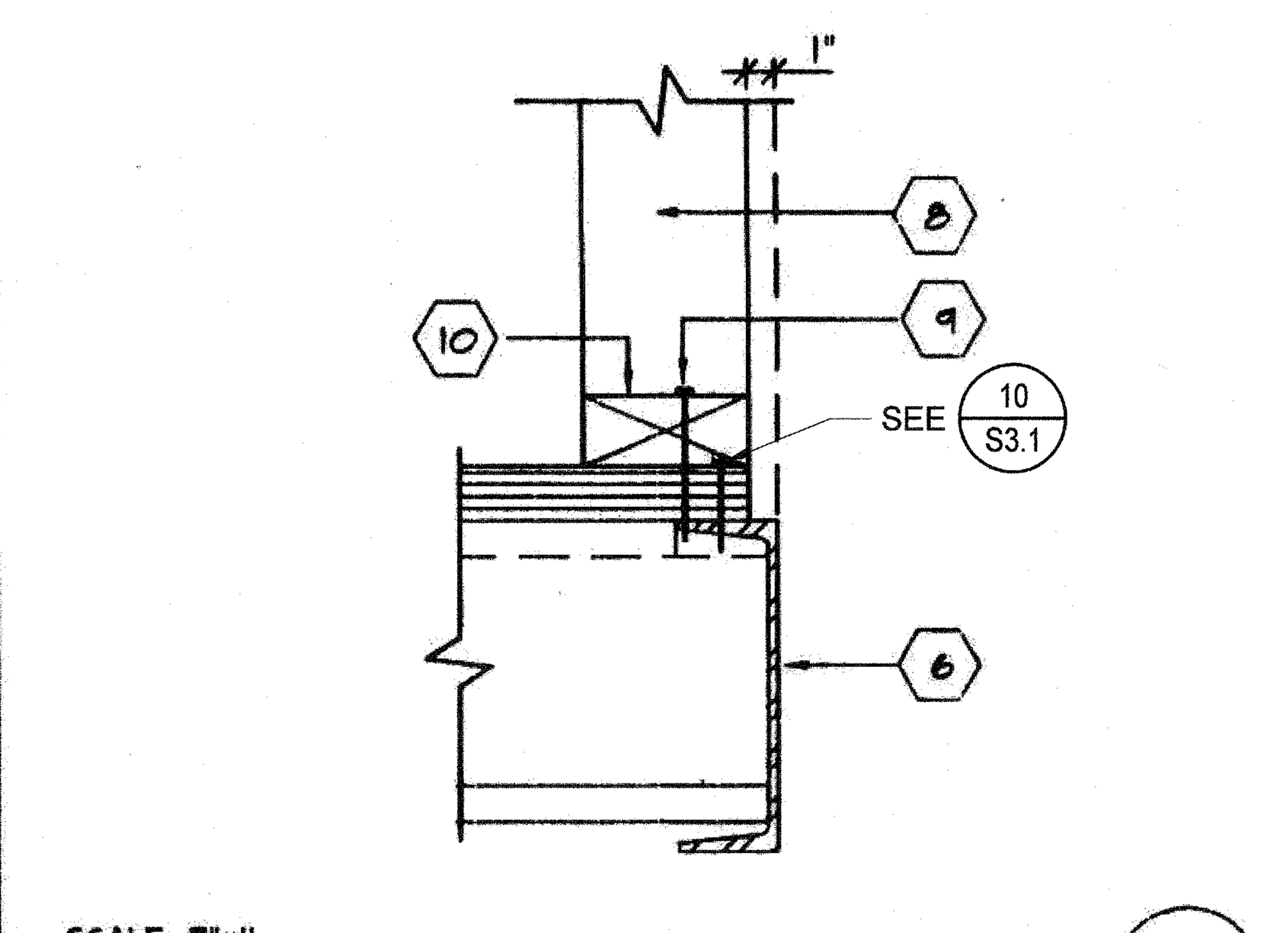
drawing title:
FRAMING DETAILS

drawing no.:
S-5.1

drawing of

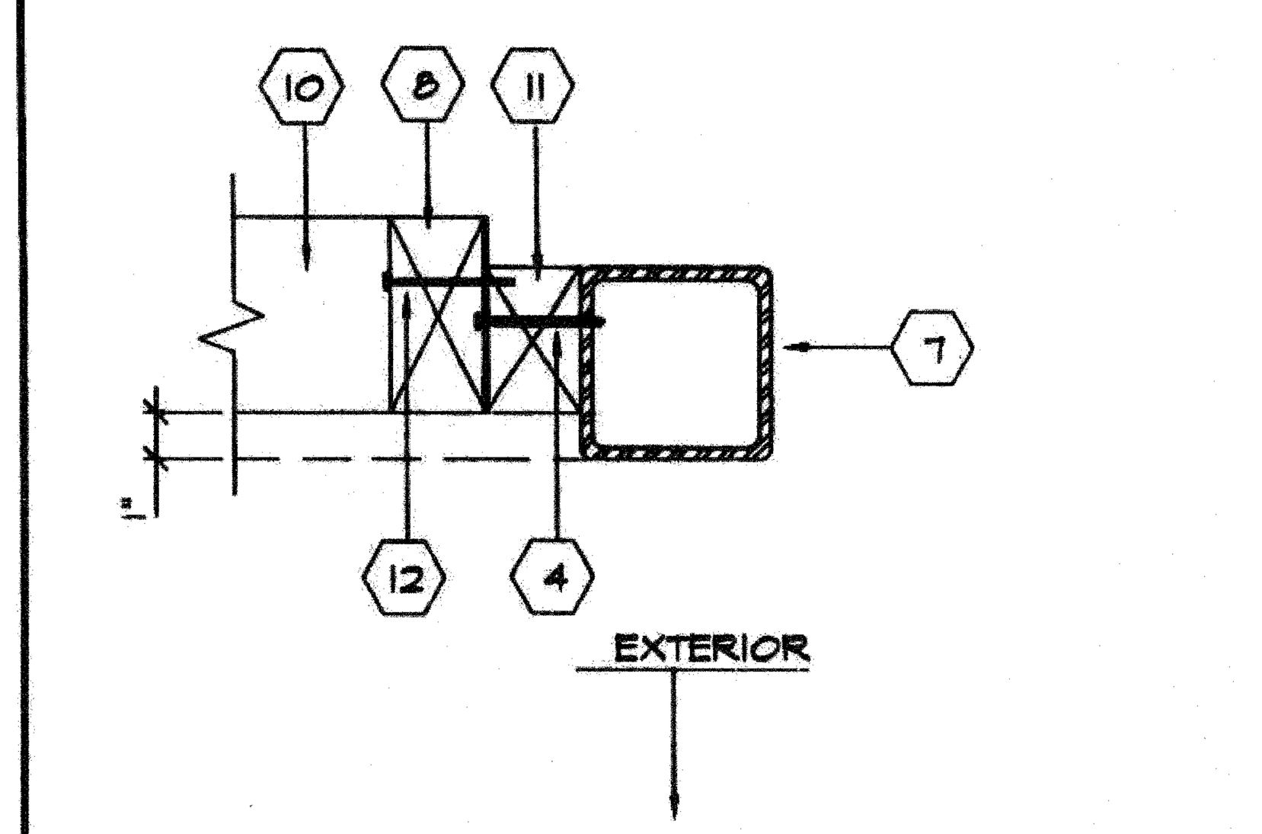
KEY NOTES

1. PLYWOOD ROOF SHEATHING
2. [10GA.X ROOF BEAM
3. 1 1/2 X 1 1/2 X 16GA. ∠
4. #10 S.T.S.M.S @24" O.C. (ALT. HELD DN. SHOT PIN.)
5. E.N. PLYWOOD TO ROOF BEAM. (SEE STRUCTURAL)
6. FLOOR BEAM (SEE STRUCTURAL)
7. TUBE STEEL COLUMN.
8. 2X4 STUD @ 16' O.C. TYP.
9. 16d BOX NAILS @ 8" O.C.
10. 2X4 SOLE PLATE.
11. 2X TRIMMER @ CORNER.
12. 16d @ 24"O.C.
13. 0.145" ⌀ SHOT PINS @ 16" O.C. OR #10 S.T.S.M.S @ 16"O.C. OR AEROSMITH AKN 144.0175 DRIVE PIN.
14. [12GA.X HEADER
15. 10 GA. STIFFENER PLATE @ 4'-0" O.C.



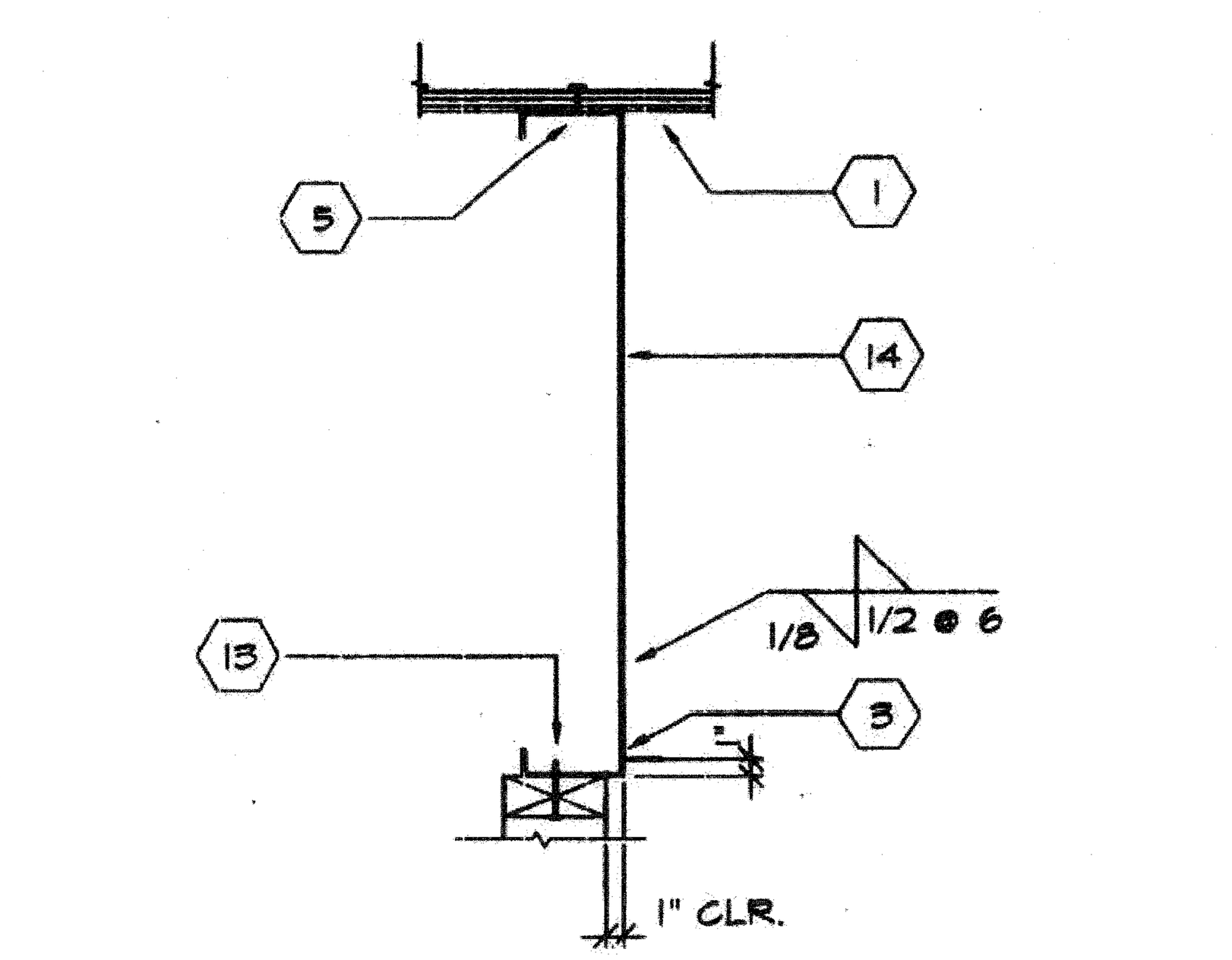
SCALE: 3"=1'

WALL SILL @ FLOOR (4)



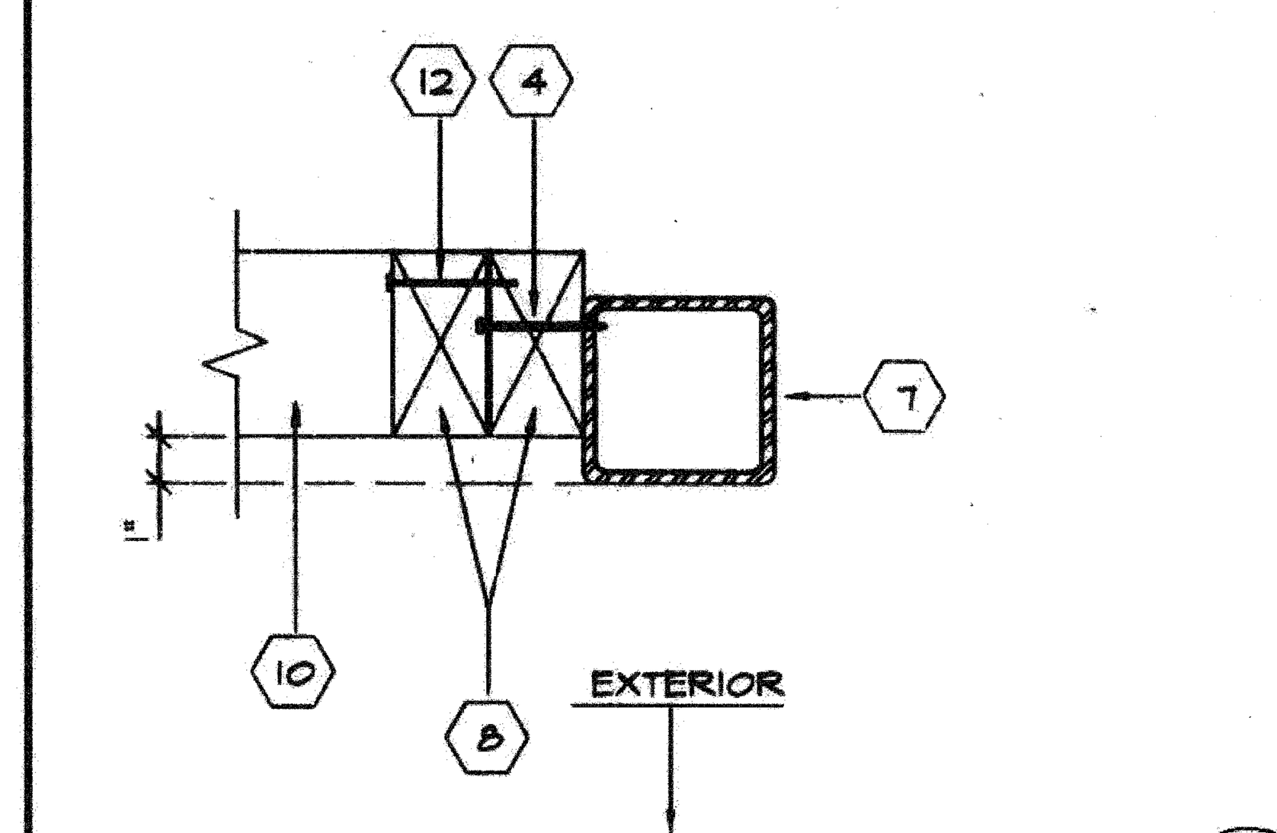
SCALE:3"=1'

COLUMN @ END WALL. (1)



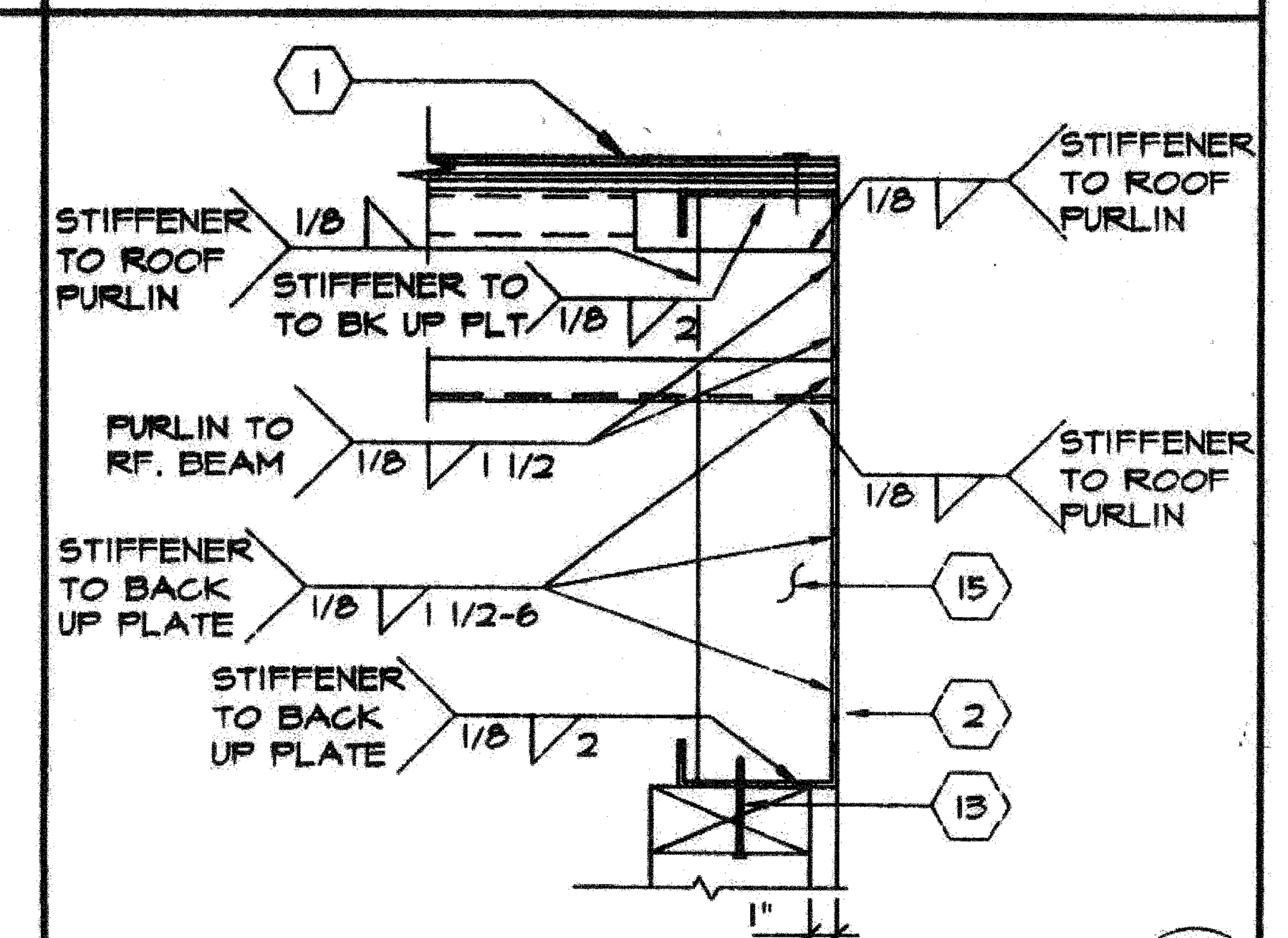
SCALE: 3"=1'

END WALL @ ROOF (5)



SCALE:4"=1'

COLUMN @ SIDE WALL (2)



SCALE: 3"=1'

ROOF PURLIN @ ROOF BEAM (3)

10/22/98

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			LICENSE EXPIRES 6-30-2000		IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES PC 304 AC___ FLS___ SS___ DATE JAN 2 1 1997

MODTECH INC,

MODTECH INC.
2830 BARRETT AVE.
PERRIS, CA. 92572
PH. (909) 943-4014
FX. (909) 940-0427

JOB NO. 2872

WALL FRAMING DETAILS

DRAWN BY RS
DATE 9-12-96
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DATE

S5.2

JOB NO. PC-304

tBP architecture planning interiors

tBP/Architecture
4611 Teller Avenue
Newport Beach, CA 92660
ph: 949.673.0300 fx: 949.732.3895

architect

VCA ENGINEERS INC
2151 Michelson Dr. #242
Irvine, CA 92612
Tel. 949.679.0870
Fax. 949.679.9370
PROJECT NO. B113-1258

consultant

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DEPARTMENT OF GENERAL SERVICES
DSA Los Angeles Regional Office
700 N. Alameda Street, Suite 5-500
Los Angeles, California 90012
ph: (213)897-3995 fx: (213)897-3159/0726

CLOUD PRESCHOOL RELOCATABLES

4444 CLOUD AVENUE
LA CRESCENTA, CALIFORNIA 91214

GLENDALE UNIFIED SCHOOL DISTRICT

owner

tBP project number : 20778.10
file name:
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date: June 2017
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drawing title:
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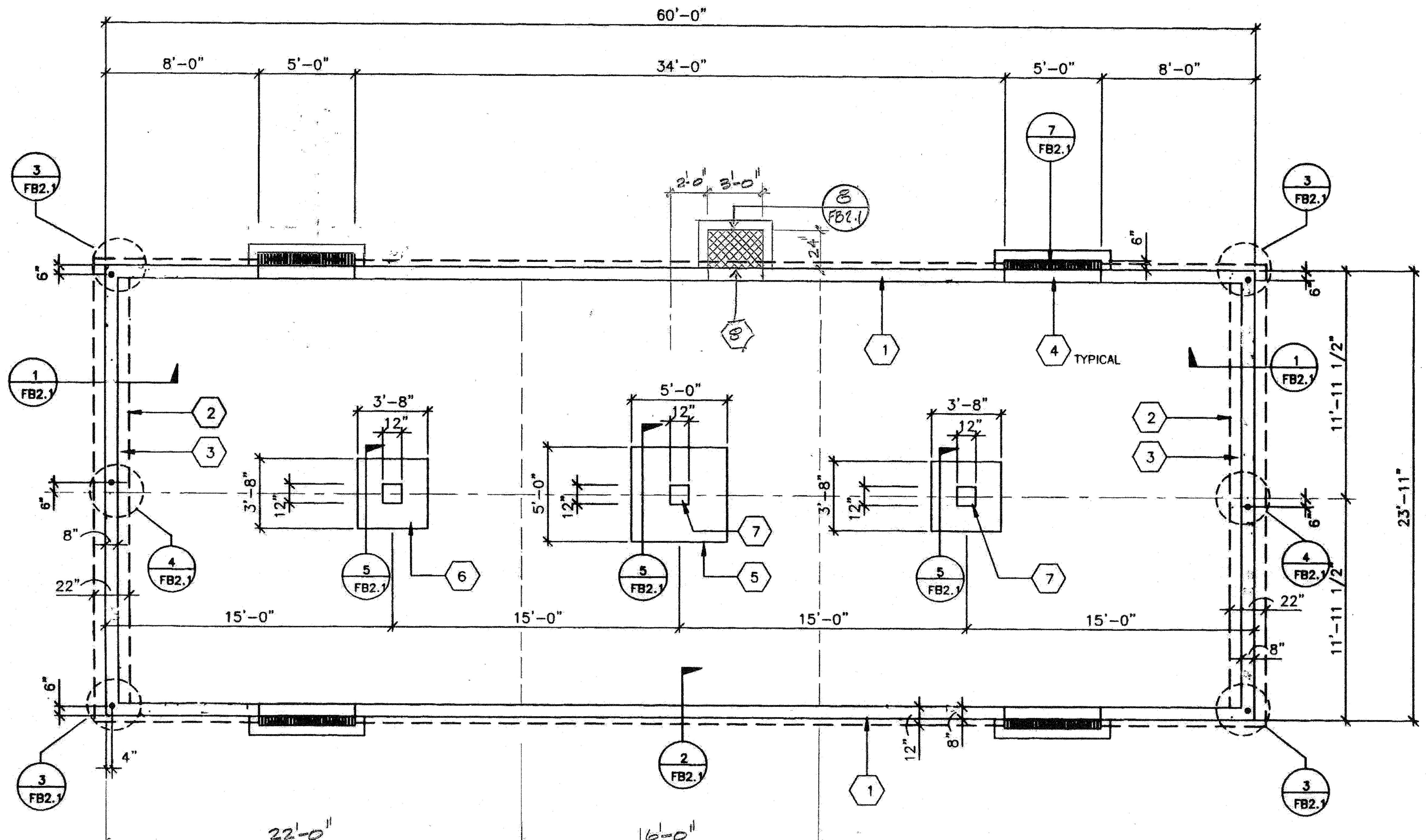
drawing no.:
S-5.2

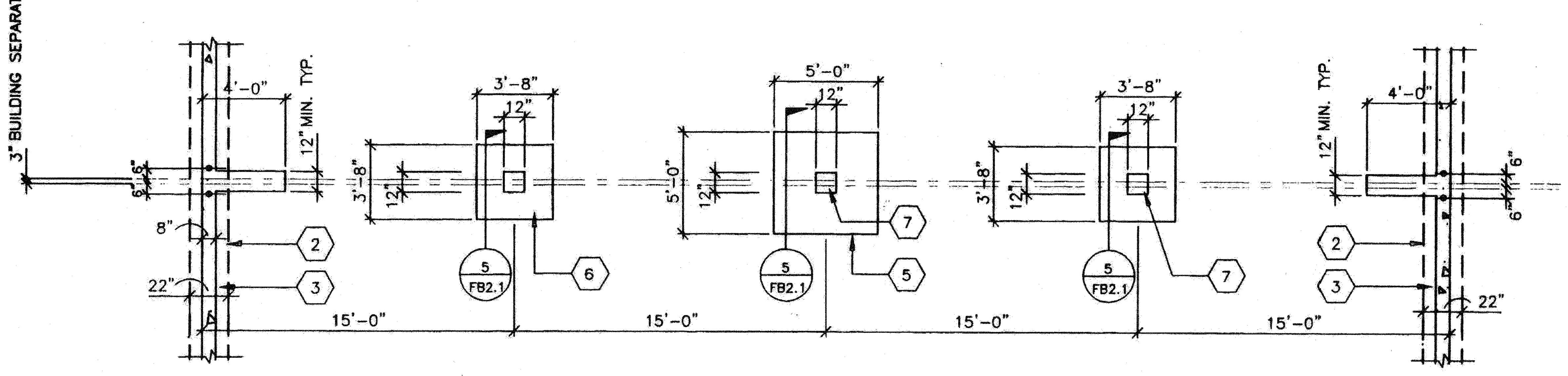
drawing of



BELOW GRADE
FOUNDATION (CONCRETE)
50 PSF FLOOR LOAD

SCALE 1/4"=1'-0"

VENT CALCS	
BLD'G. SIZE 24' X 60' = 1440 ☐	
VENTILATION REQ'D 1440 ÷ 150 = 9.6 ☐	
6" X 5'-0" VENT= 2.5 ☐	
4 VENTS X 2.5 ☐ =	10 ☐
ACCESS VENT 3' x 18" =	4.5
TOTAL	14.5 ☐



FOOTING AT 3" SEPARATION

REVISED by
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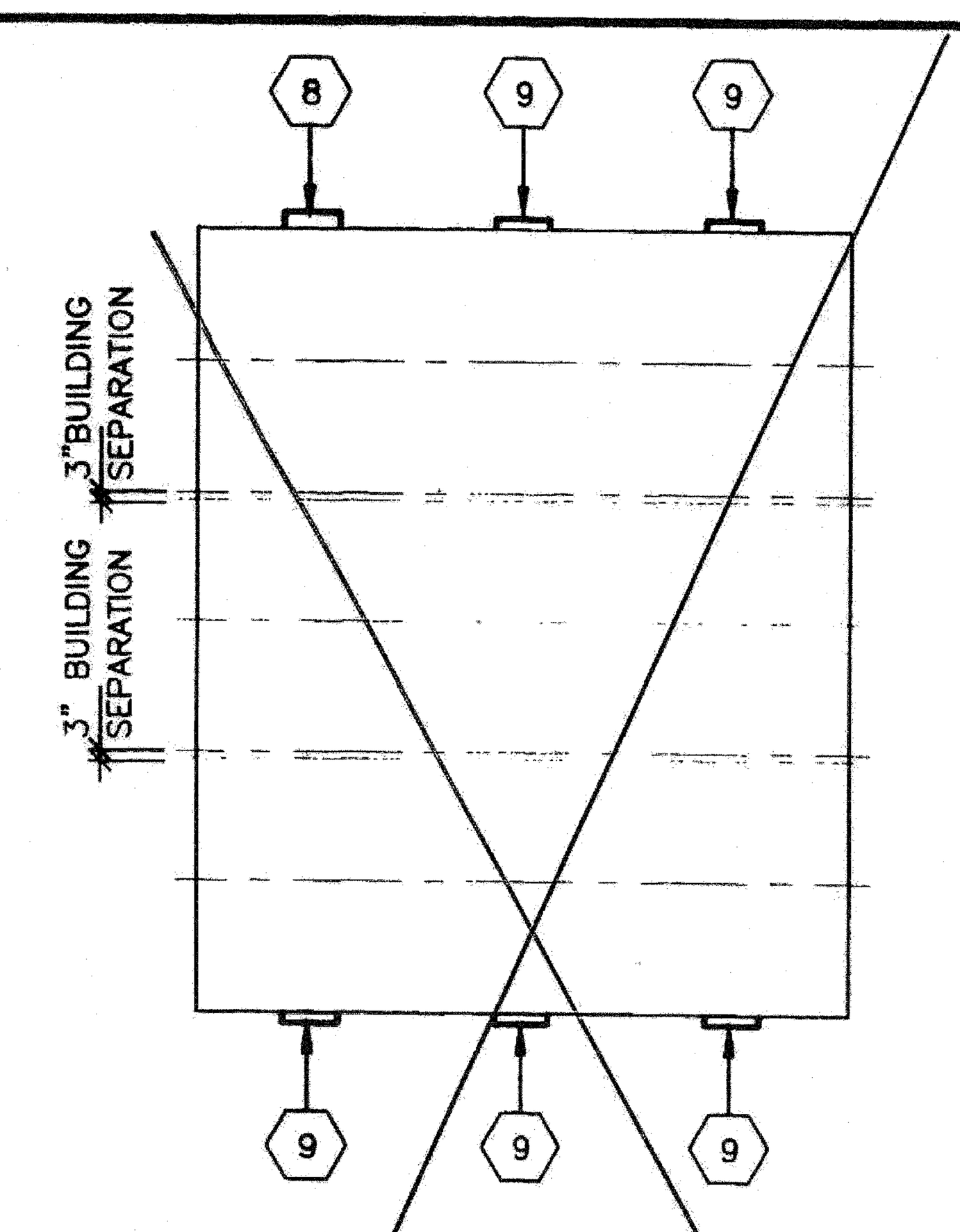
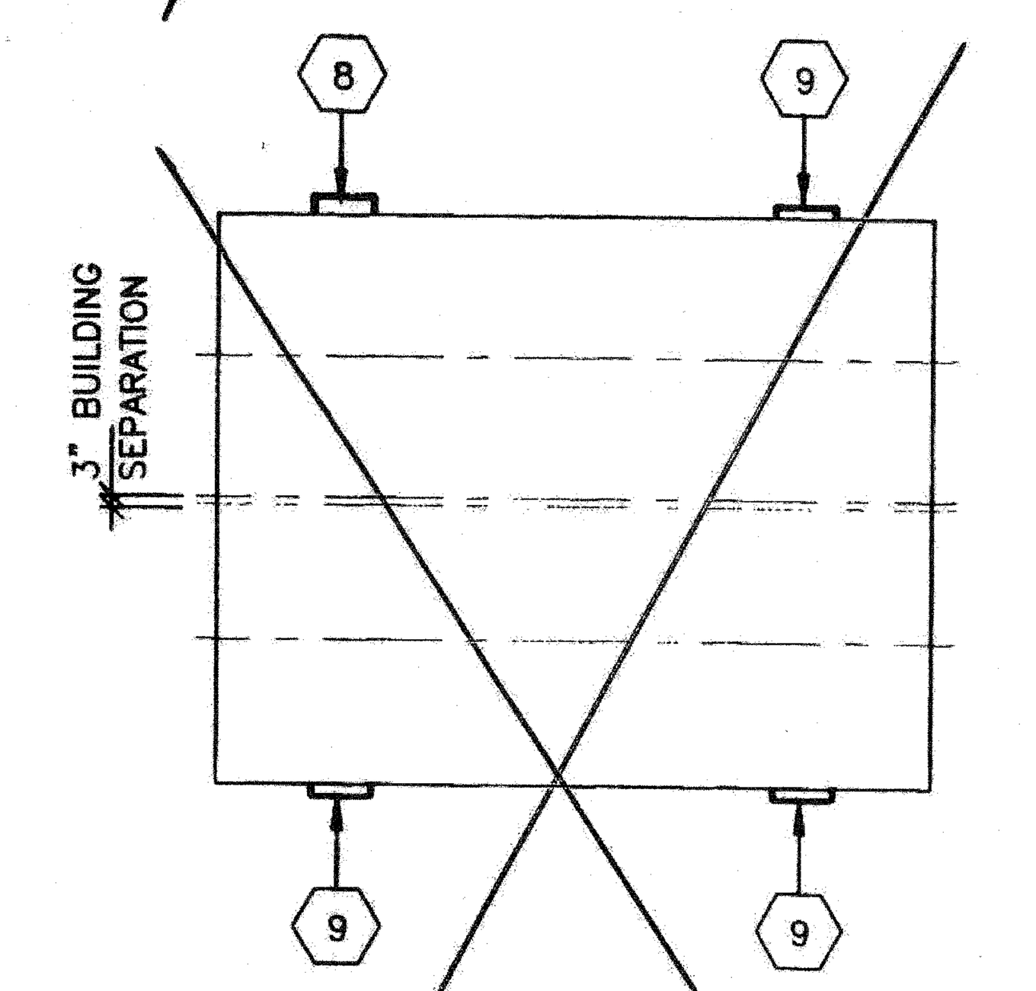


VENT CALCS	
BLD'G. SIZE 72' X 60' = 4320 ☐	
VENTILATION REQ'D 4320 ÷ 150 = 28.8 ☐	
12" X 5'-0" VENT= 5.0 ☐	
5 VENTS X 5.0 ☐ =	25.0 ☐
1'-6" X 5'-0" ACCESS VENT=	7.5 ☐
TOTAL	32.5 ☐

(3) 24' X 60' BUILDINGS



VENT CALCS	
BLD'G. SIZE 48' X 60' = 2880 ☐	
VENTILATION REQ'D 2880 ÷ 150 = 19.2 ☐	
12" X 5'-0" VENT= 5.0 ☐	
3 VENTS X 5.0 ☐ =	15.0 ☐
1'-6" X 5'-0" ACCESS VENT=	7.5 ☐
TOTAL	22.5 ☐

(2) 24' X 60' BUILDINGS

KEY NOTES

1. 12" WIDE CONT. FOOTING
2. 22" WIDE CONT. FOOTING W/ 2 - #5 CONT.
3. 8" MIN. STEM WALL
4. 6"x5' VENT (TYPICAL)
5. 5'-0" SQ. PAD FOOTING W/ 5 - #5 EA. WAY
6. 3'-8" SQ. PAD FOOTING W/ 4 - #5 EA. WAY
7. 12" ø OR ☐ PIER
8. 3'-0" x 18" ACCESS VENT
9. 12"x5' VENT (TYPICAL)

FILE #

NOTES

IMPORTANT NOTE

1. THE ABOVE FOUNDATION PLAN HAS 1/4" ADDED AT EACH MOD LINE AND DOES NOT MATCH THE FLOOR PLAN. THIS IS REQUIRED FOR GROWTH THAT IS EXPERIENCED WHEN SETTING MULTIPLE MODULE BUILDINGS.
2. CONCRETE DESIGNED FOR 3000 PSI AT 28 DAYS
3. FOUNDATION DESIGNED FOR 1000 PSF SOIL PRESSURE.
4. VENT GRATES TO HAVE MAXIMUM 1" OPENINGS EXCEPT 1/2" WHEN GRATE IS IN PATH OF TRAVEL. SEE ARCH. SITE PLAN FOR PATH OF TRAVEL.

LICENSED ARCHITECT TROY JAY ADAMS C-23075
10/22/98

PROJECT NO.

REVISIONS

Electrical Engineer's Seal | Mechanical Engineer's Seal | Structural Engineer's Seal | Architects Seal | Division of the State Architect

LICENSE EXPIRES 6-30-2000

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PC 304
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MODTECH INC.
MODTECH INC.
2830 BARRETT AVENUE
PERRIS, CALIF. 92572
PH (909) 943-4014
FAX (909) 940-0427

JOB# 2872

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drawn by: A.D.
date: 02-11-97
checked by:
date:
Modtech project no:
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FOUNDATION PLAN

FB1.1

PC-304

tBP architecture planning interiors
tBP/Architecture
4611 Teller Avenue
Newport Beach CA 92660
ph: 949.673.0300 fx: 949.732.3895
architect

V C A ENGINEERS INC
CIVIL • STRUCTURAL
2151 Michelson Dr. #242
Irvine, CA 92612
Tel. 949.679.0870
Fax. 949.679.9370
PROJECT NO. 8113-1258
consultant

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DEPARTMENT OF GENERAL SERVICES
DSA Los Angeles Regional Office
700 N. Alameda Street, Suite 5-500
Los Angeles, California 90012
ph: (213)897-3995 fx: (213)897-3159/0726

CLOUD PRESCHOOL RELOCATABLES
4444 CLOUD AVENUE
LA CRESCENTA, CALIFORNIA 91214
GLENDALE UNIFIED SCHOOL DISTRICT
owner

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drawn by: checked by:
date: June 2017

Rev:	date:	description:

drawing title:
FOUNDATION DETAILS

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FB-1.1

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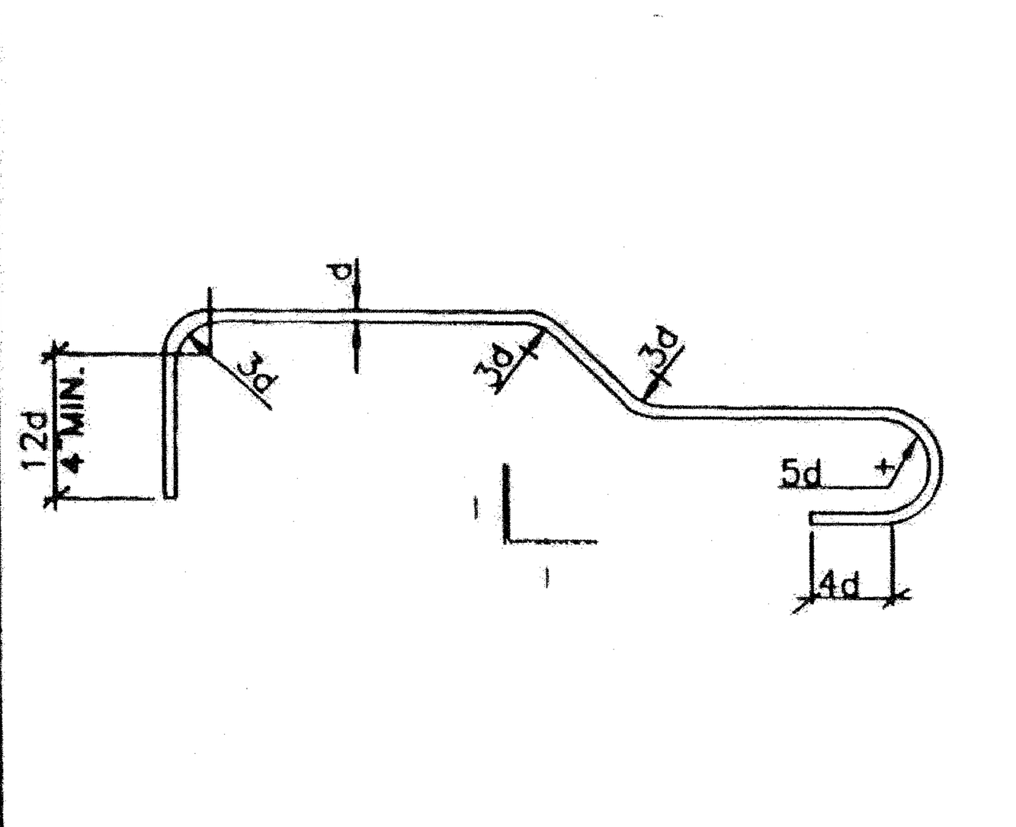
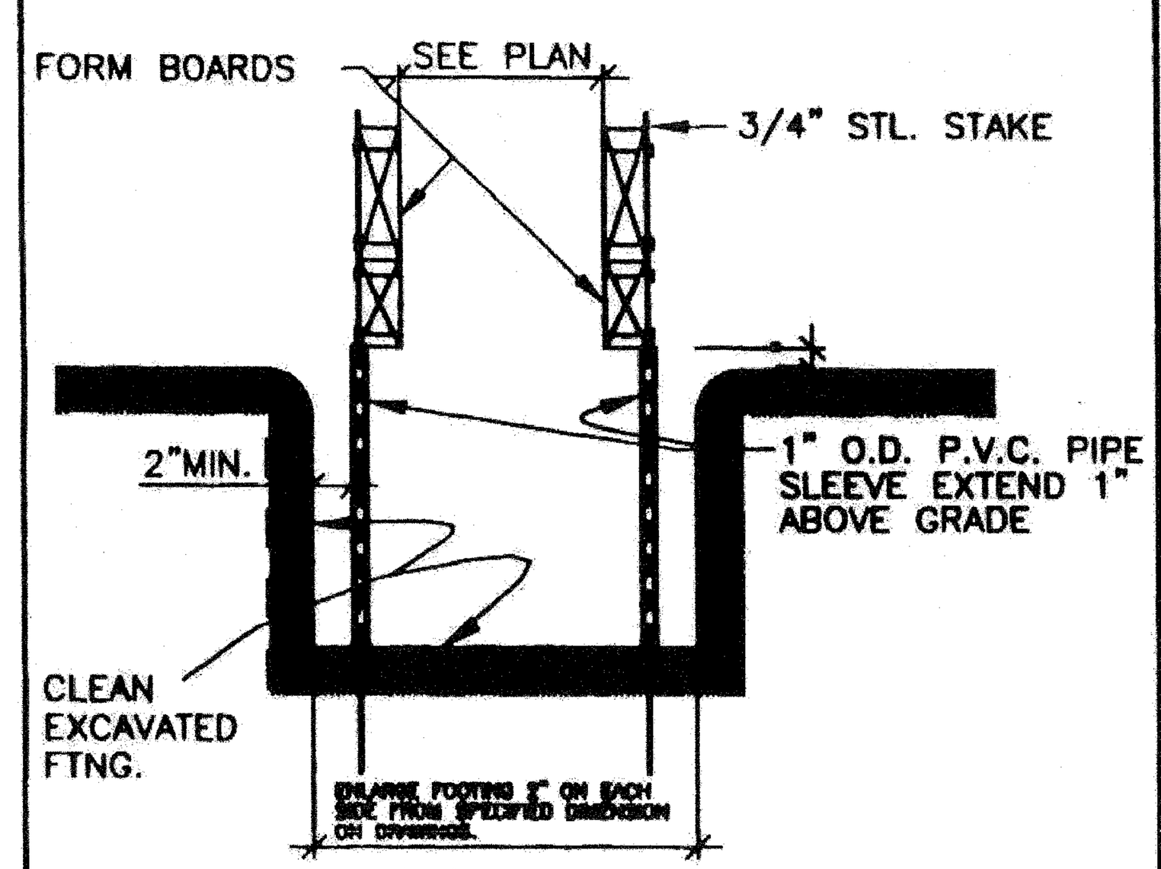


TYPICAL REINF. BENDING DETAIL
(FOR #7 BARS OR SMALLER)

SCALE: NTS

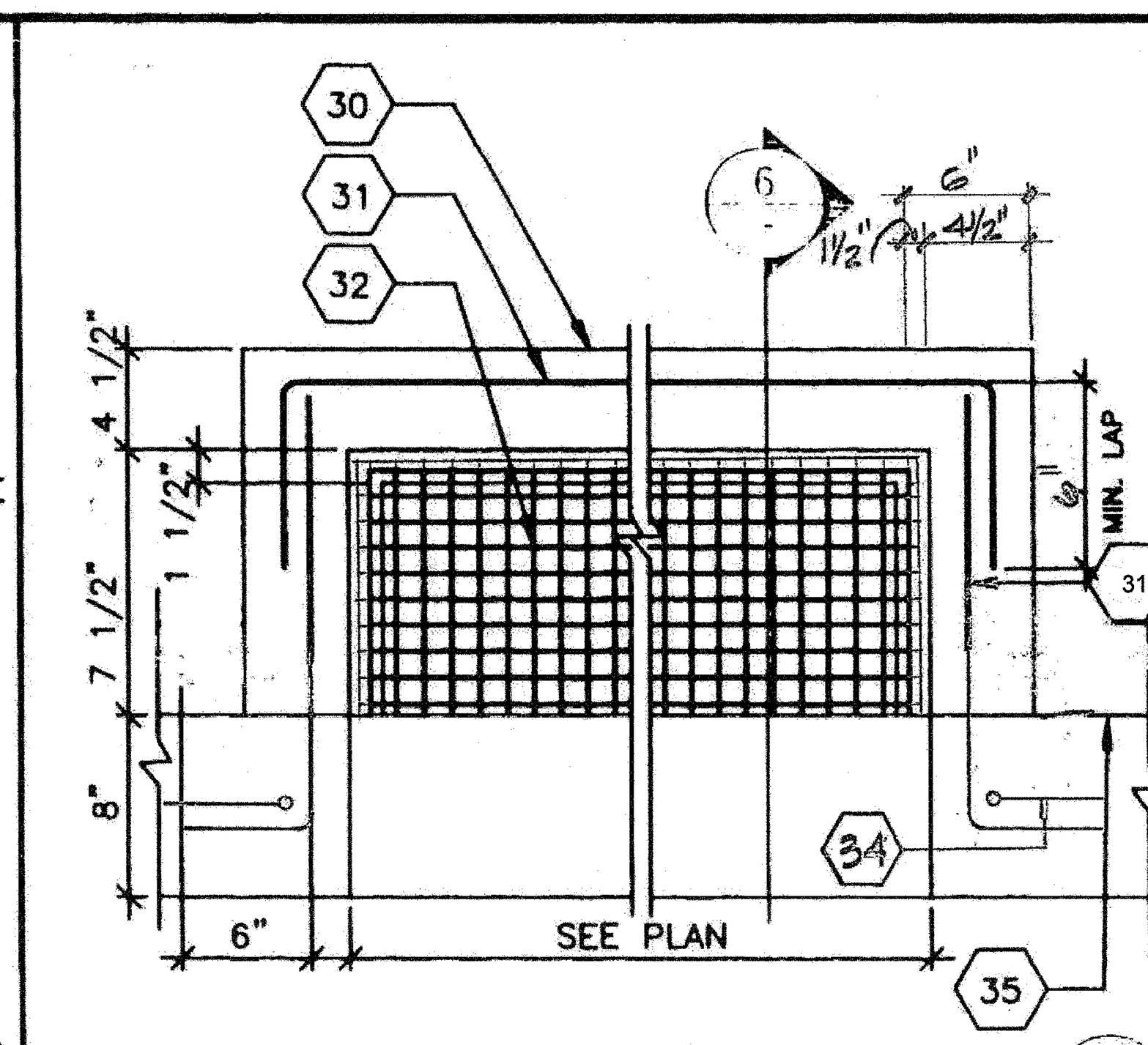
TYP. REBAR BENDING DETAIL (13)



NOTE: USE STAKE PULLER TO REMOVE STL. STAKES. DO NOT BANG TO LOOSEN.

SCALE: 1 1/2"=1'

FOOTING FORMS (10)



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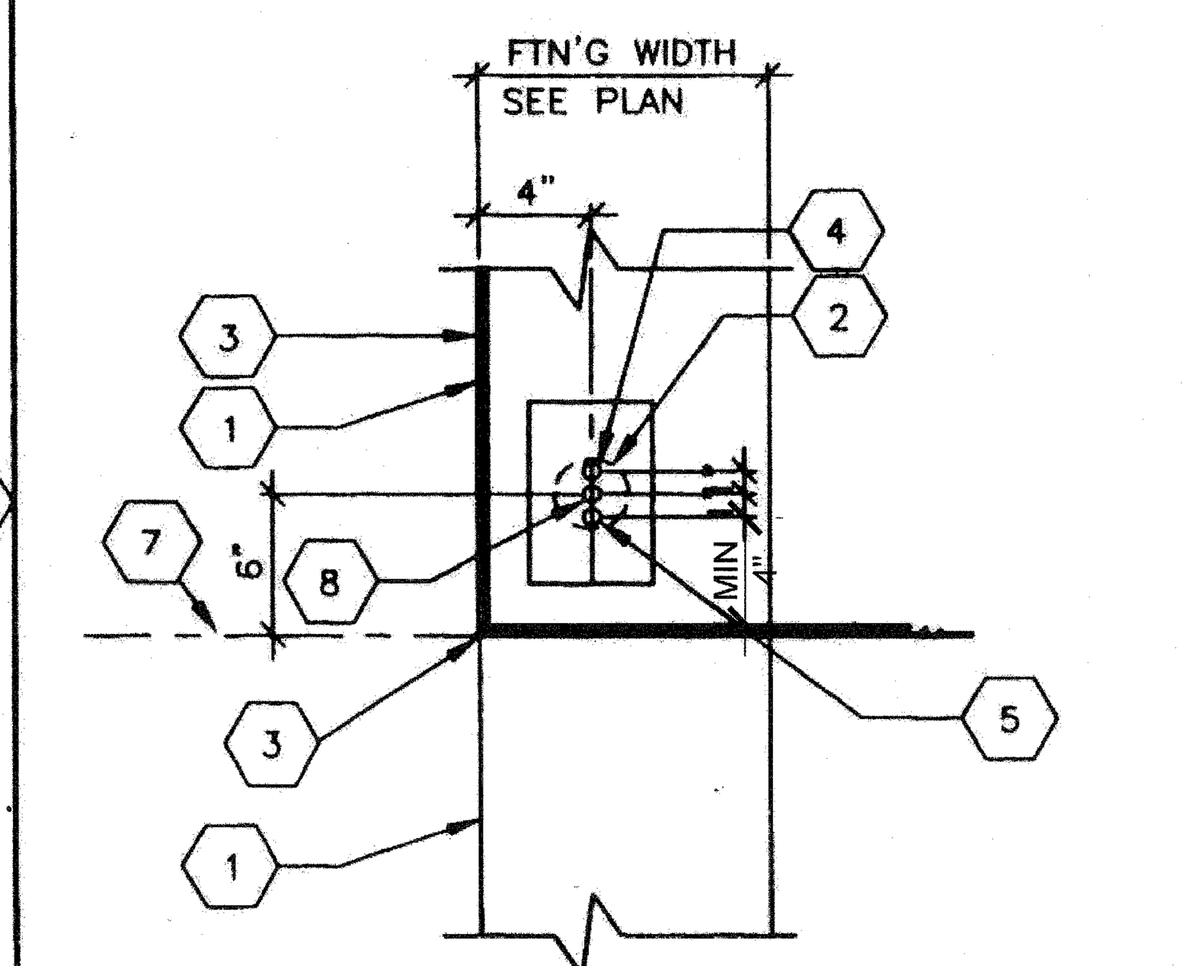
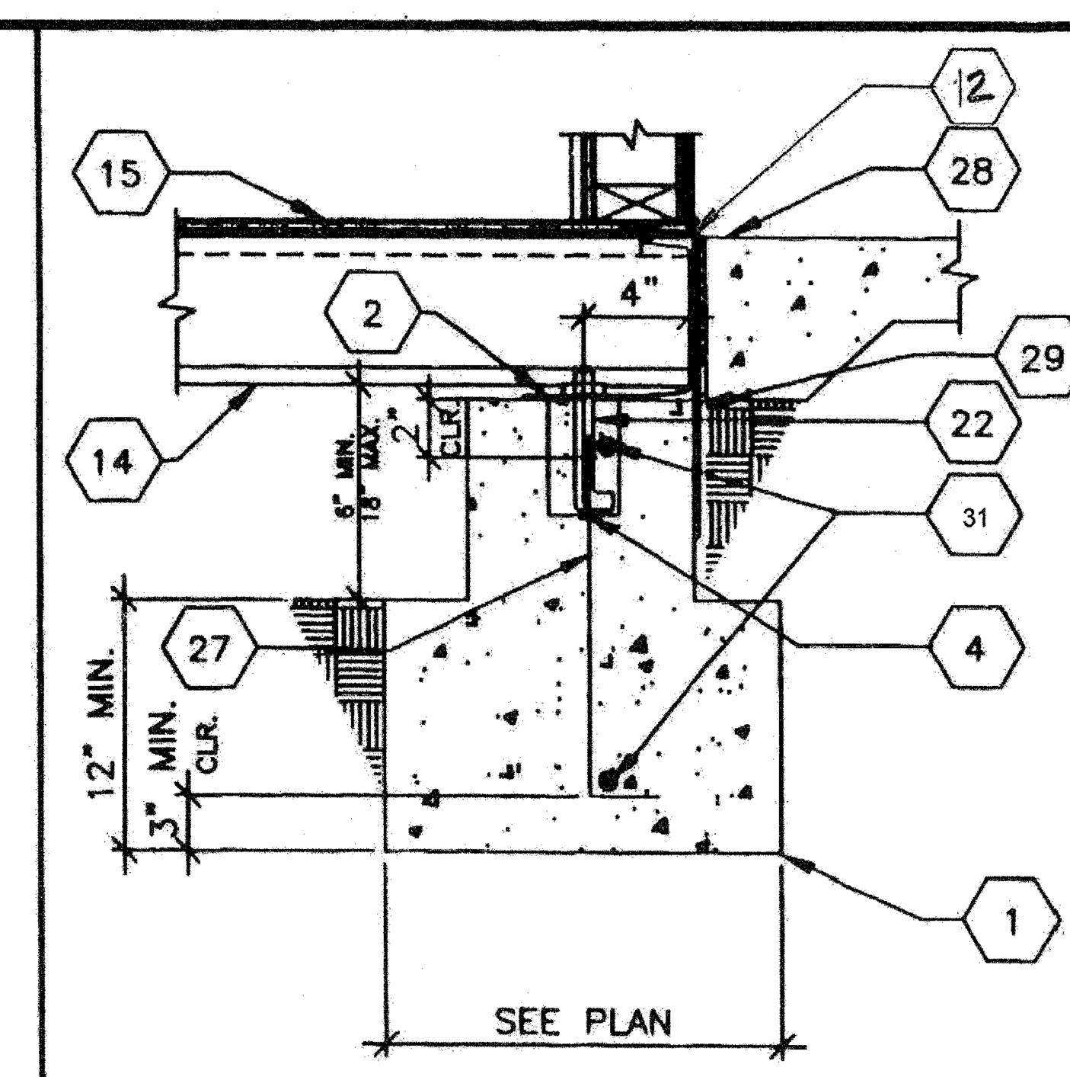
TYPICAL VENT (7)



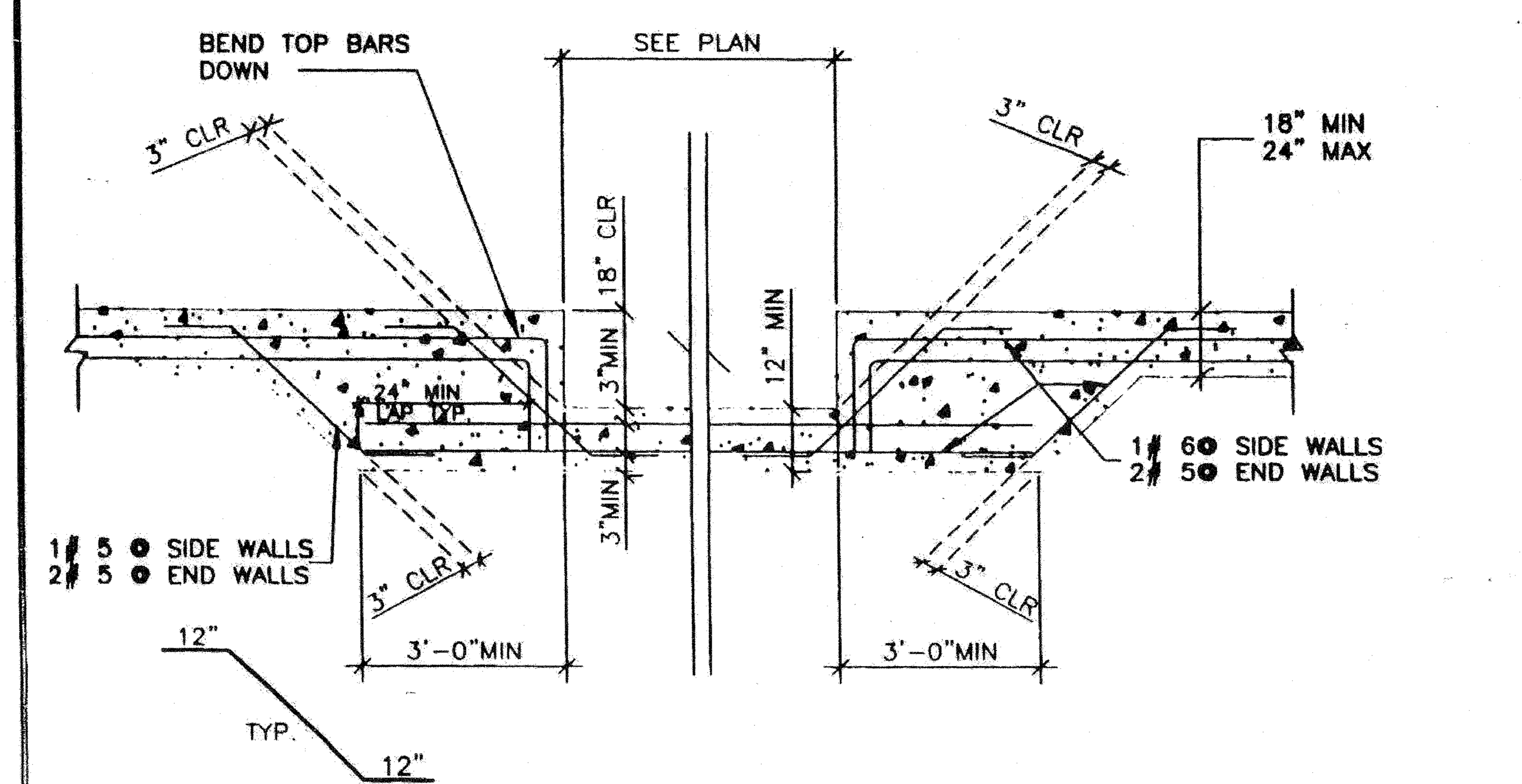
SCALE: 1 1/2"=1'-0"

ANCHOR BOLT @ MODLINE (4)



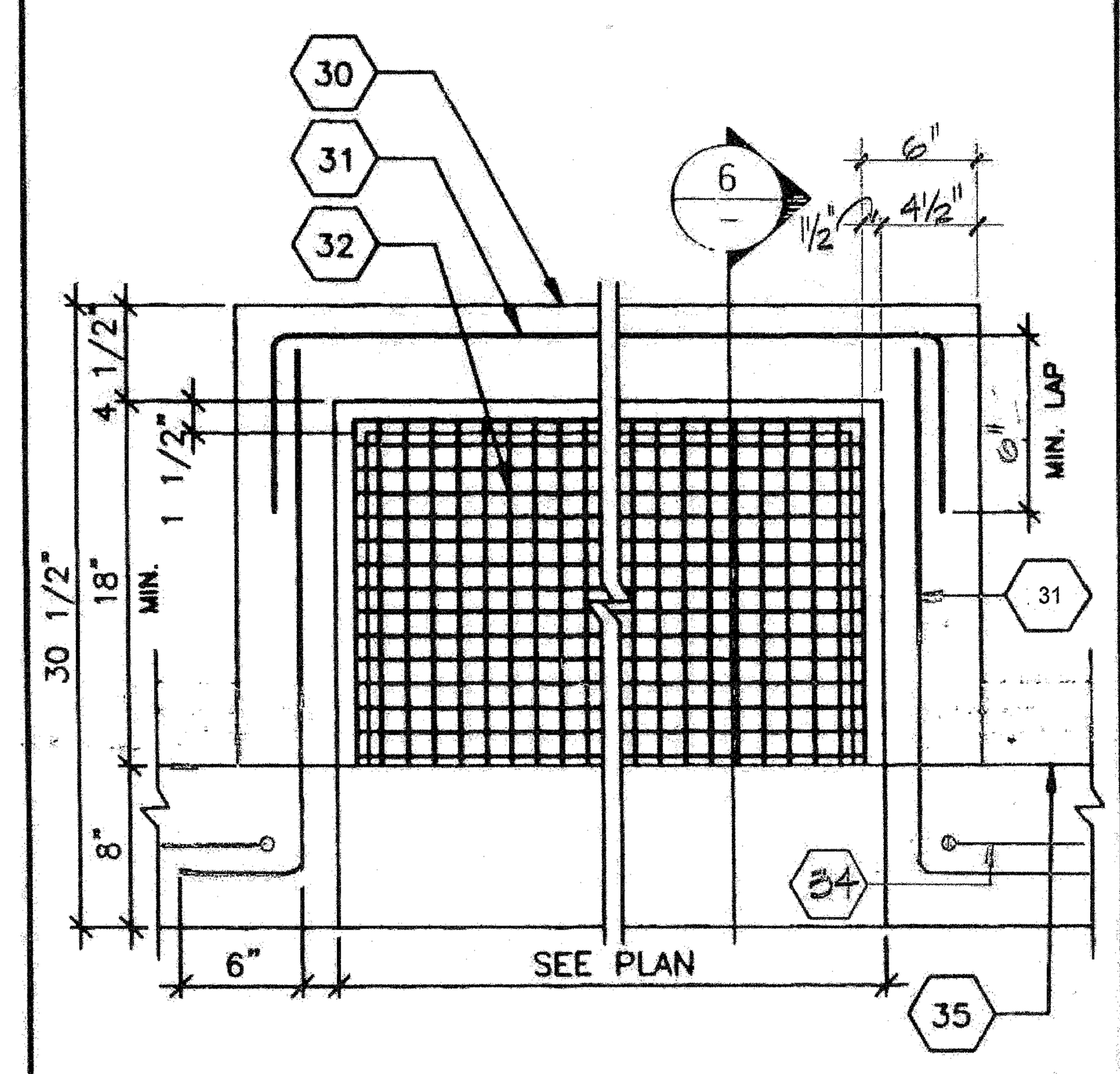
SCALE: 1 1/2"=1'-0"

TYPICAL END WALL FTG. (1)



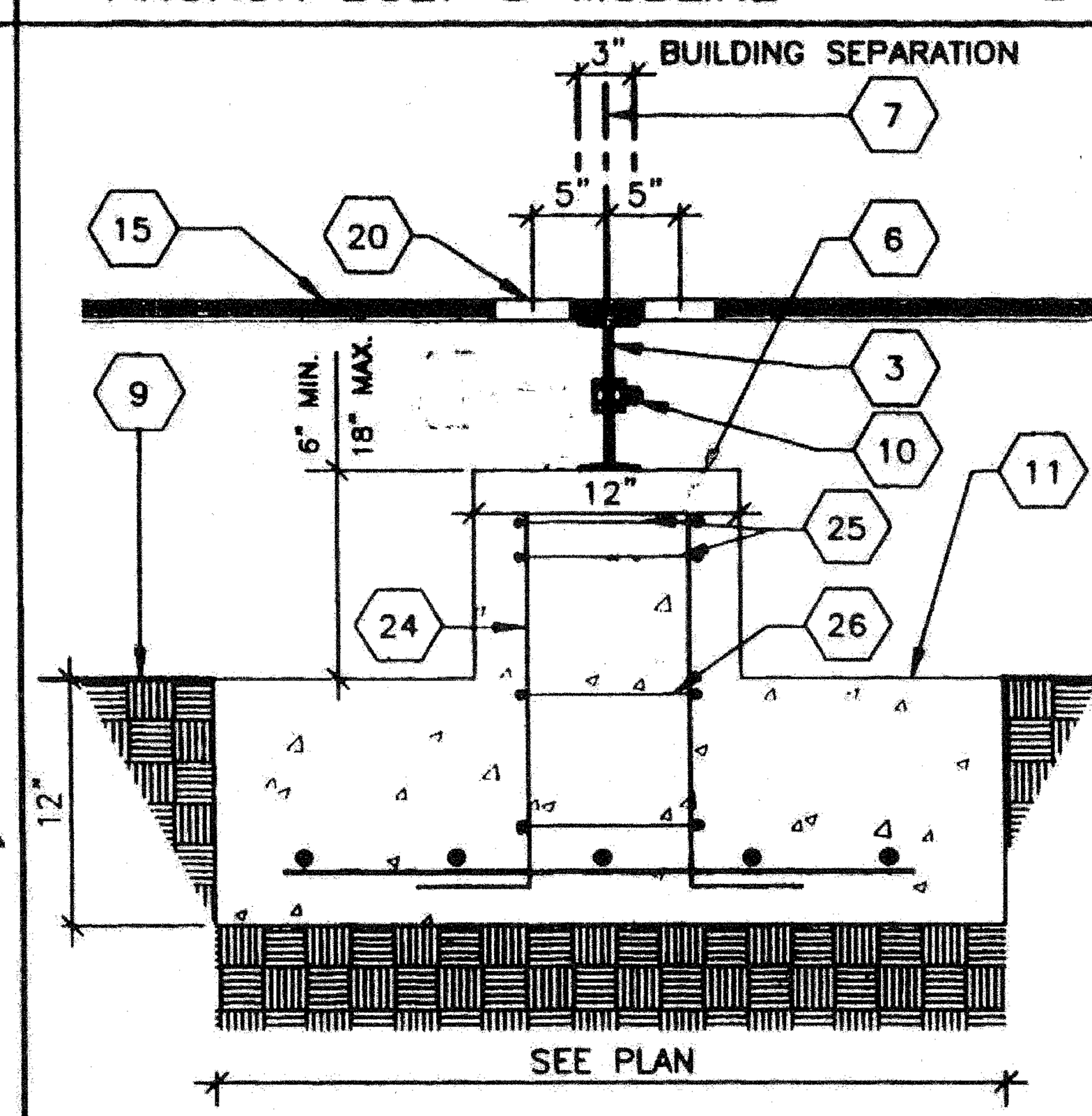
SCALE: 1/2"=1'-0"

ACCESS VENT ELEVATION (11)



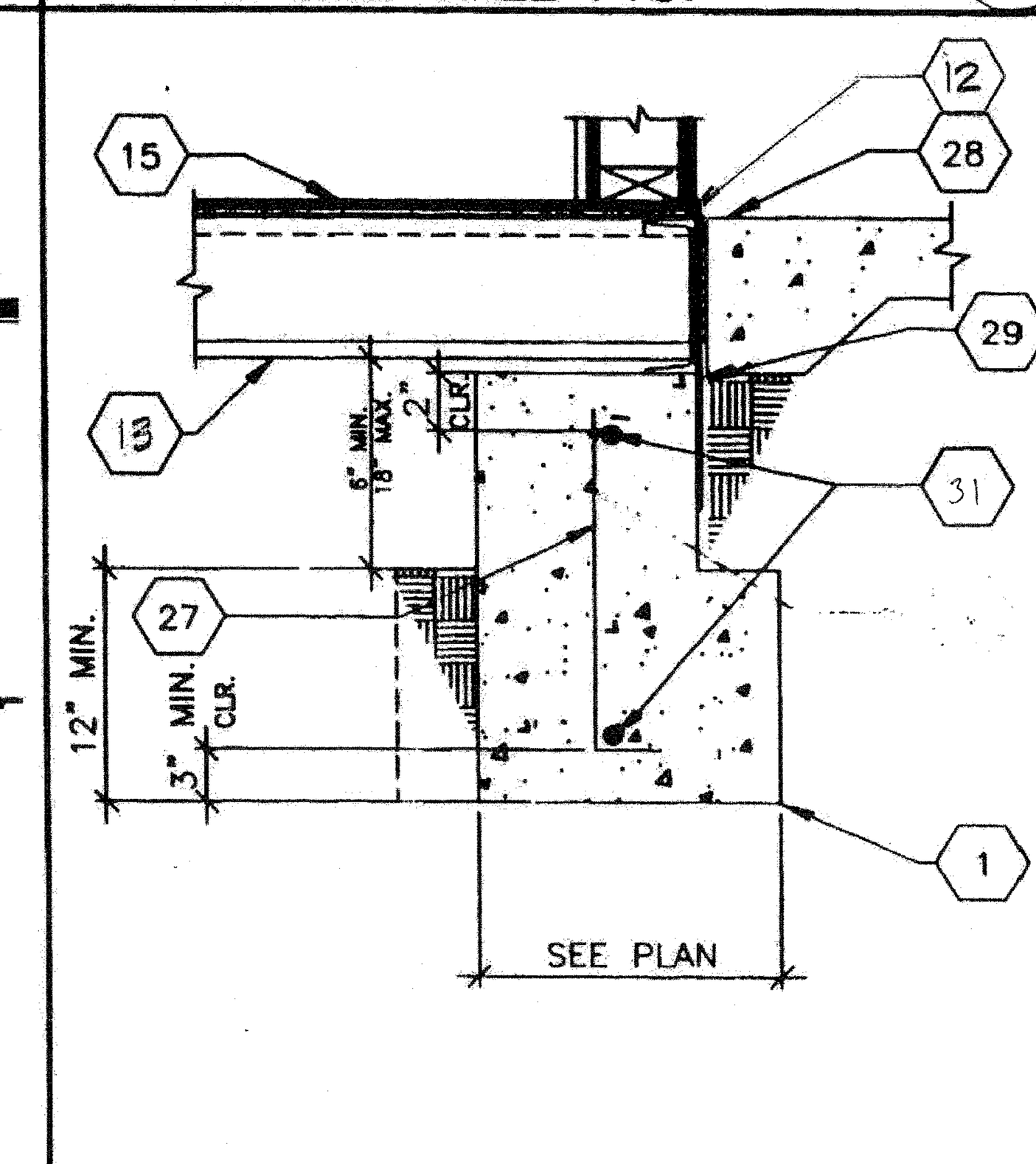
SCALE: N.T.S.

AREAWAY WALL/ACCESS VENT (8)



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

INTERIOR PAD FOOTING (5)



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

TYPICAL SIDE WALL FTG. (2)

SOIL TYPE & FOUNDATION

A. BEARING: SOIL BEARING VALUE OF 1000 PSF USED FOR DESIGN.
B. FOOTINGS: ALL FOOTINGS SHALL EXTEND 12 INCHES MIN. INTO NATIVE SOILS OR APPROVED ENGINEERING FILL.

CONCRETE

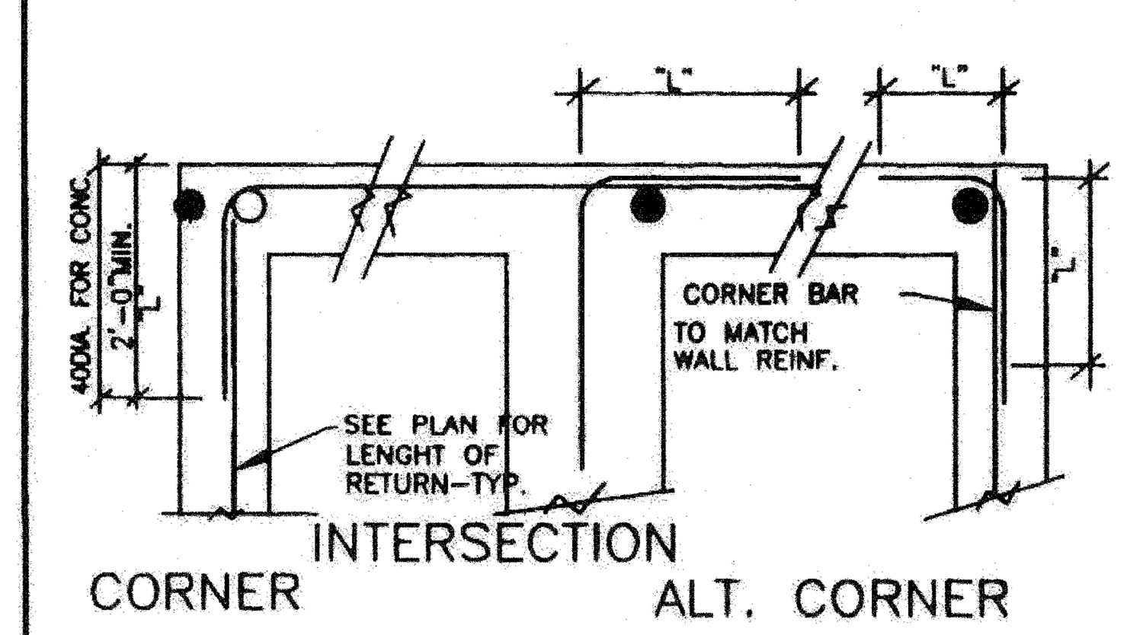
ALL CONC. SHALL HAVE THE FOLLOWING MIN. STRENGTH @ 28 DAYS: FOOTINGS: fc' = 3000 PSI ~~(DESIGN BASED ON f'c = 2000 PSI)~~, NO SPECIAL INSPECTION REQ'D. PER UBC SEC. 306(9)1 EXCEPTION 2. CONCRETE SHALL CONFORM TO TITLE 24 SECTION 2605(C) METHOD A (NON-DESIGNED MIX PER TABLE 26-A-7).
ALL CEMENT SHALL BE TYPE I OR TYPE II PER ASTM C-150.
MINIMUM 7.1 SACKS OF CEMENT PER YARD OF CONCRETE.
WATER CONTENT SHALL NOT EXCEED 6 GALLONS PER SACK OF CEMENT. AGGREGATE SHALL BE 3/4" TO 1" MAXIMUM SIZE BUT NOT MORE THAN 3/4" OF MINIMUM CLEAR BAR SPACING.
ANCHOR BOLTS, DOWELS, REINFORCING STEEL & EMBEDDED ITEMS ARE TO BE SECURELY TIED IN PLACE BEFORE CONC. IS POURED.

REINFORCING STEEL

ALL REINFORCING STEEL SHALL BE BILLET STEEL PER ASTM A-615 GRADE 40.
WELDED REINFORCING STEEL SHALL CONFORM TO ASTM A-706, OR SHALL BE ASTM A-615 PREHEATED & WELDED PER AWS D1.4-79.

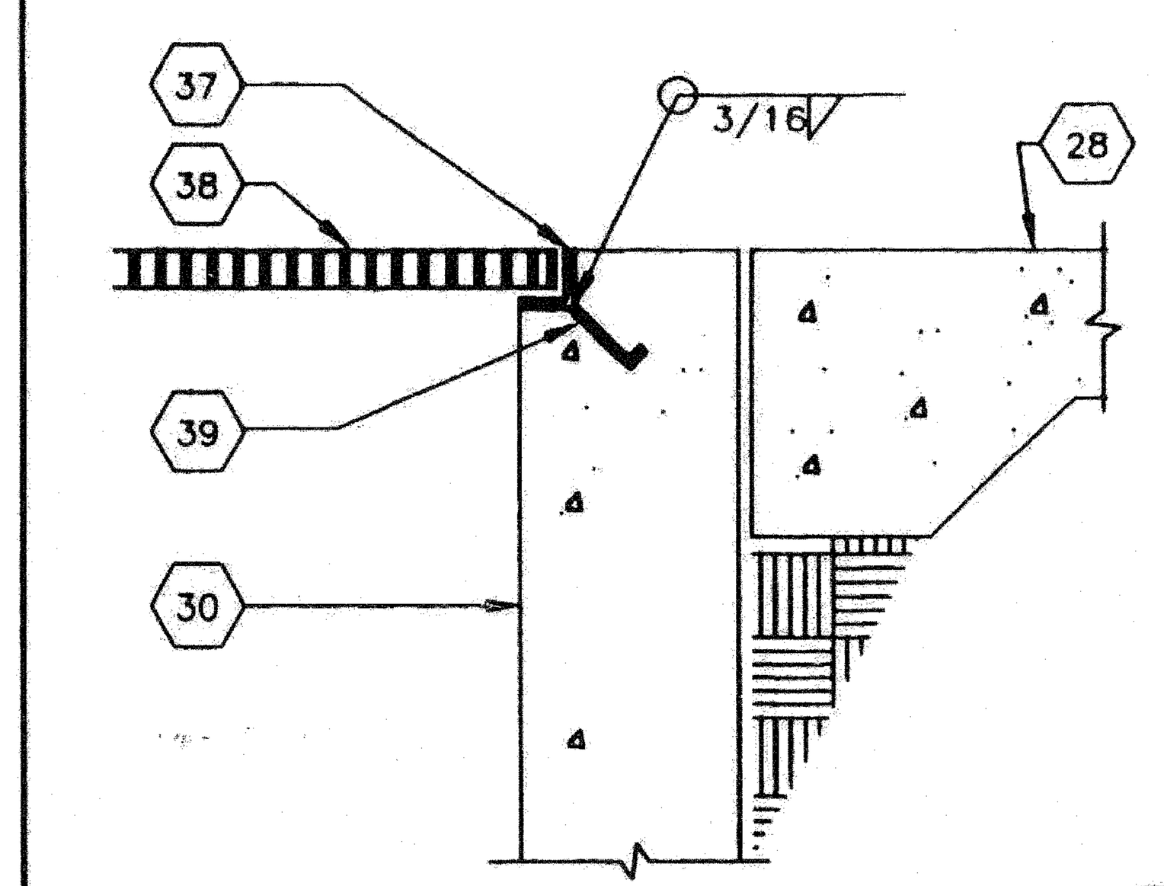
NOTE:

FOR FOOTINGS USING TRENCH FOR FORMING WIDTH SHALL BE INCREASED 2" EA. SIDE



SCALE: NTS

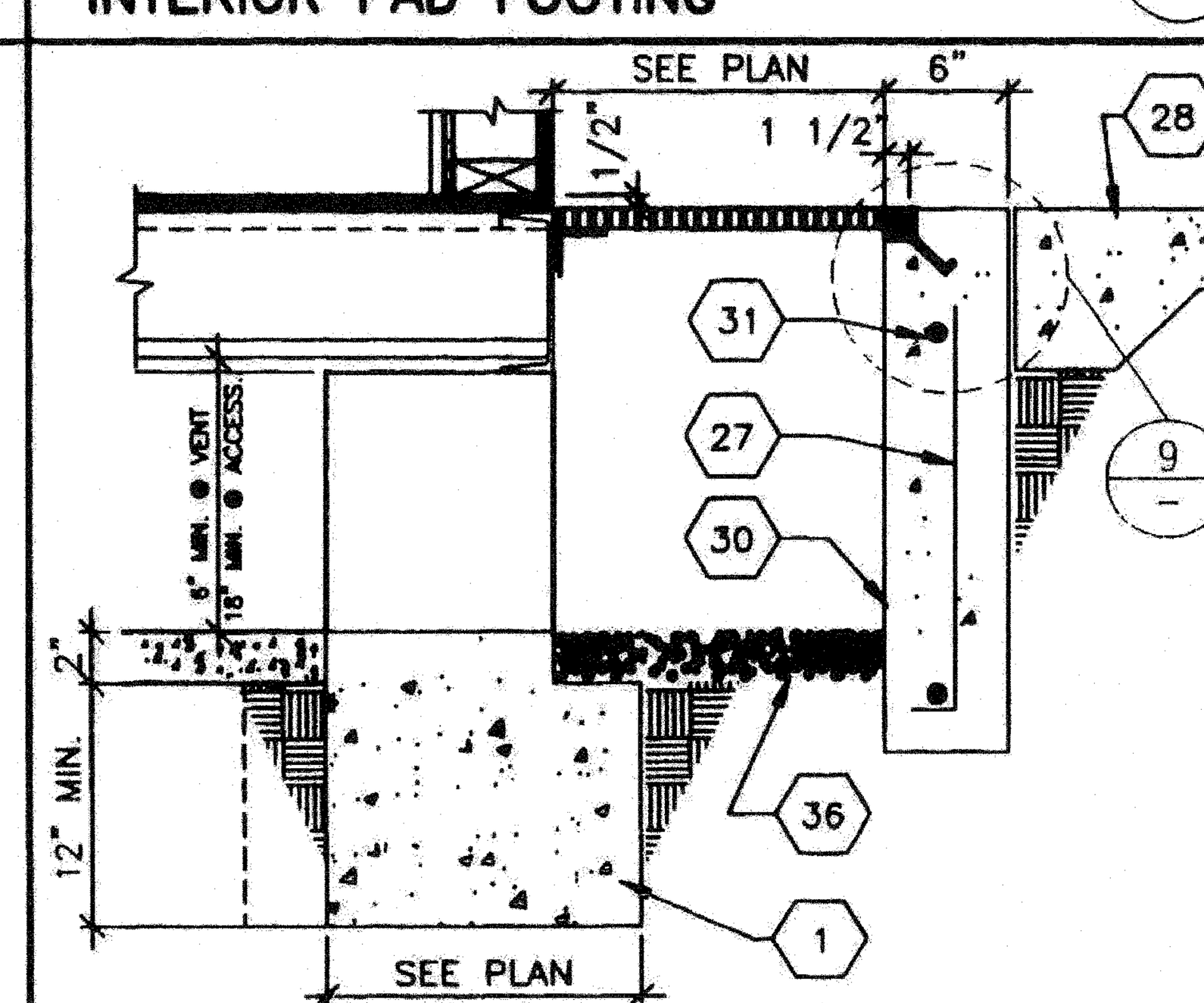
TYPICAL REINFORCING @ CORNER & INTERSECTIONS (12)



SCALE: NTS

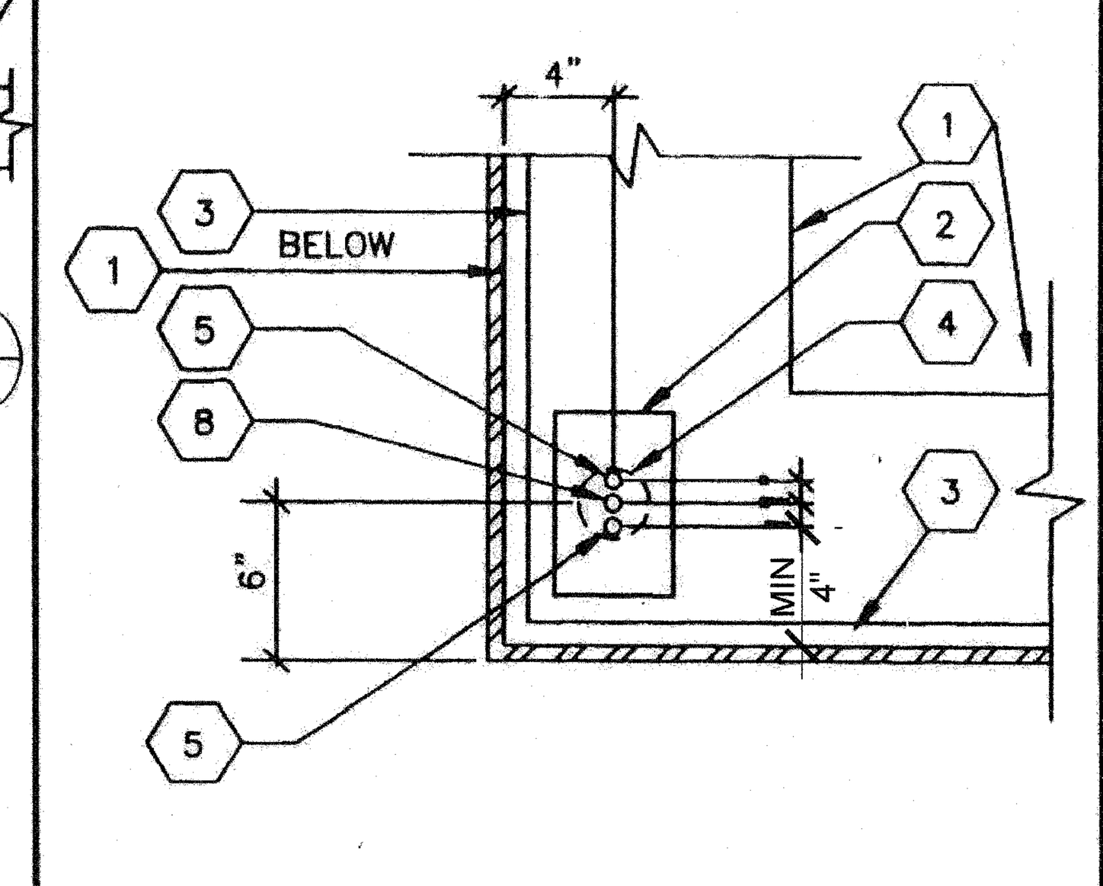
GRATING ANCHOR DETAIL (9)

REVISED FEB 13 1997



SCALE: N.T.S.

ACCESS / VENT SECTION (6)



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

ANCHOR BOLT @ CORNER (3)

KEY NOTES

1. FOUNDATION STEMWALL OR FOOTING
2. 5" X 8" X 1/4" PLATE SEE 12/S3.1
3. STEEL FLOOR FRAME
4. 3"ø X 5" DEEP CANOUT IN FOUNDATION (BY CONC. SUB.)
5. 13/16"ø HOLES EA. SIDE OF ANCHOR BOLT
6. CONC. PIER
7. MODLINE
8. 13/16"ø HOLE FOR 3/4"ø ANCHOR BOLT
9. FINISH GRADE LINE
10. 5/8"ø M.B. SEE FLOOR FRAMING PLAN FOR SPACING
11. CONCRETE INT. PAD FTG. SEE FOUNDATION PLAN FOR SIZES
12. 26GA. GALV. SHEET METAL FLASHING
13. FLOOR JOIST SEE FLOOR FRAMING PLAN
14. FLOOR BLK'NG SEE FLOOR FRAMING PLAN
15. 1-1/8" PLYWOOD FLOOR SHEATHING
16. ~~NOT USED~~
17. ~~NOT USED~~
18. NOT USED
19. NOT USED
20. HAND HOLE @ BOLT LOCATION (5"SQ)
21. NOT USED
22. 3/4"Ø ANCHOR BOLT
23. NOT USED
24. (4) – #5 X L VERT. REBAR
25. (2) – #4 TIES AT TOP
26. #4 TIES AT 8" O.C.
27. -L #3 AT 24" O.C.
28. CONC. FLAT WORK BY SITE CONTRACTOR
29. COUNTER-FLASHING (BY OTHERS)
30. AREAWAY WALL
31. #4 REBAR TOP AND BOTTOM
32. ~~GRATE~~: SEE FB1.1/NOTE 4
33. STD. 90° HOOK (TYP.)
34. #5 AT CURB
35. LINE OF BUILDING
36. DRYWELL W/ 3/8 PEA GRAVEL
37. 1 1/4" X 1 1/4" ANGLE FRAME
38. ~~GRATE: SEE~~ FB1.1/NOTE4
39. 3/8"ø AB X 3" ANCHOR

10/22/98

FILE #

PROJECT NO.

PC-304

REVISIONS		
1		
2		
3		
4		
5		
6		

Electrical Engineer's Seal | Mechanical Engineer's Seal | Structural Engineer's Seal | Architects Seal | Division of the State Architect

REGISTERED PROFESSIONAL ENGINEER No 3602 STRUCTURAL STATE OF CALIFORNIA — LICENSE EXPIRES 6-30-2000

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES — PC 304 — AC FLS SS — DATE FEB 13 1997

MODTECH INC.
2830 BARRETT AVENUE
PERRIS, CALIF. 92572
PH (909) 943-4014
FAX (909) 940-0427

JOB# 2872

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LICENSED ARCHITECT — NO. C-23975 — STATE OF CALIFORNIA

drawn by: A.D.
date: 02-11-97
checked by:
date:
Modtech project no.
MODTECH Index No.

FOUNDATION DTLS(BELOW GRADE)

FB2.1

tBP architecture planning interiors

tBP/Architecture
4611 Teller Avenue
Newport Beach, CA 92660
ph: 949.673.0300 fx: 949.732.3895

architect

V C A ENGINEERS INC
CIVIL • STRUCTURAL
2151 Michelson Dr. #242
Irvine, CA 92612
Tel. 949.679.0870
Fax. 949.679.9370
PROJECT NO. 8113-1258

consultant

FILE NO.:
IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
DEPARTMENT OF GENERAL SERVICES
A# 119149
AC FLS SS
DATE JAN 7 2019

DEPARTMENT OF GENERAL SERVICES
DSA Los Angeles Regional Office
700 N. Alameda Street, Suite 5-500
Los Angeles, California 90012
ph: (213)897-3995 fx: (213)897-3159/0726

CLOUD PRESCHOOL RELOCATABLES

4444 CLOUD AVENUE
LA CRESCENTA, CALIFORNIA 91214

GLENDALE UNIFIED SCHOOL DISTRICT

owner

tBP project number: 20778.10
file name:
drawn by: checked by:
date: June 2017
Rev: date: description:

drawing title:
FOUNDATION DETAILS (BELOW GRADE)

drawing no.:
FB-2.1

drawing of

JOB # 2872

RELOCATABLE BUILDING(S)

FOR

GLENDALE U.S.D.

24 x 60

PC 304

BUILDING DATA

24 x 60 BUILDING

OCCUPANCY	E - 1
TYPE OF CONSTRUCTION	V - N
WIND LOAD	70 MPH. EXPOSURE "C"
FLOOR LIVE LOAD	50 PSF
PARTITION LOAD	[redacted]
ROOF LIVE LOAD	20 PSF
BUILDING AREA	1440 SF
STRUCTURAL DESIGN	RIGID FRAME

APPLICABLE CODES

TITLE 24. CCR. PART 2. 1995 CBC (94 UBC W/95 CA AMENDMENTS)

1994 UBC & 1995 CA AMENDMENTS (95 CBC – PART 2, TITLE 24, CCR)

1993 NEC & 1995 CA AMENDMENTS (95 CEC – PART 3, TITLE 24, CCR)

1994 UMC & 1995 CA AMENDMENTS (95 CMC – PART 4, TITLE 24, CCR)

1994 UPC & 1995 CA AMENDMENTS (95 CPC – PART 5 TITLE 24, CCR)

1994 UNIFORM FIRE CODE W/ STATE AMENDMENTS (CALIFORNIA FIRE CODE – PART 9, TITLE 24, CCR)

1994 BUILDING STANDARDS CODE (95 STATE REFERENCED STANDARDS CODE – PART 12, TITLE 24, CCR)

TITLE 19, CCR, PUBLIC SAFETY, STATE FIRE MARSHALL REGULATIONS.

LEGEND

TYPE	SYMBOL	DESCRIPTION
DETAIL	1/—	DETAIL ON SAME SHEET AS SYMBOL
DETAIL	1/2	DETAIL NUMBER (1) ON SHEET NUMBER (2)
NOTE	1	NOTE NUMBER 1. ON SAME SHEET AS SYMBOL
NOTE	4/5	NOTE NUMBER 4. ON SHEET NUMBER (5)
WALL PANEL	A/1	WALL PANEL TYPE "A" ON SHEET (1)
SECTION	A/2	SECTION "A" ON SHEET (2)
REFERENCE	1	REVISION / CHANGE IN DRAWING NO 1 IS FIRST REVISION
REFERENCE	CLOUD	HIGHLIGHTS CHANGED AREA
REFERENCE	1	DOOR NUMBER
REFERENCE	A	WINDOW NUMBER
REFERENCE	EL	SEE ELECTRICAL DWG.
REFERENCE	HV	SEE MECHANICAL DWG.
REFERENCE	STR	SEE STRUCTURAL DWG.
REFERENCE	PLG	SEE PLUMBING DWG.

SHEET INDEX

ARCHITECTURAL

A0 COVER SHEET

[redacted]

A1.2 FLOOR PLAN

[redacted]

[redacted]

A2.2 ROOF PLAN

[redacted]

A3.2 EXTERIOR ELEVATIONS

[redacted]

[redacted]

A4.2 INTERIOR ELEVATIONS

[redacted]

A5.0 DOOR, WINDOW, FINISH, HARDWARE SCHEDULES

A6.0 ARCHITECTURAL DETAILS (WOOD STUDS)

A6.1 ARCHITECTURAL DETAILS (WOOD STUDS)

[redacted]

[redacted]

A7.2 REFLECTED CEILING PLAN

A7.4 REFLECTED CEILING DETAILS

STRUCTURAL

[redacted]

FB1.1Z FOUNDATION PLAN (CONCRETE-BELOW GRADE)

[redacted]

FB2.1 FOUNDATION DETAILS (CONCRETE-BELOW GRADE)

S0.1 MATERIAL SCHEDULE

S1.0 FLOOR FRAMING PLAN 50 PSF LL

[redacted]

S2.1 ROOF FRAMING PLAN

S3.0 FRAMING ELEVATIONS AND DETAILS

S3.1 STRUCTURAL DETAILS

S4.0 STRUCTURAL DETAILS

S5.0 WALL FRAMING

S5.1 FRAMING DETAILS

S5.2 FRAMING DETAILS

[redacted]

MECHANICAL

[redacted]

M1.2 HVAC PLAN

ELECTRICAL

[redacted]

E1.2 ELECTRICAL PLAN

[redacted]

RAMP

[redacted]

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 PREVAIL OVER CONFLICTING AREAS IN THE BID DRAWINGS AND SPECIFICATIONS, AND ANY ADDENDA THERETO.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP03 119149
AC [redacted] FLS [redacted] SS [redacted]
DATE JAN 7 2019

LICENSED ARCHITECT
ROY JAY ADAM
C-23975
EXPIRES 2-28-99
STATE OF CALIFORNIA

10/22/98

REVISIONS

1			
2			
3			
4			
5			
6			

Electrical Engineer's Seal

Mechanical Engineer's Seal

Structural Engineer's Seal

JAMES T. SIMPSON
No. 3602
Exp. 6-30-2000
STRUCTURAL
STATE OF CALIFORNIA

LICENSE EXPIRES 6-30-2000

Architects Seal

Division of the State Architect

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
PC 304
AC [redacted] FLS [redacted] SS [redacted]
DATE JUNE 2 1997

MODTECH INC,

MODTECH INC.
2830 BARRETT AVENUE
PERRIS, CALIF. 92572
PH. (909) 943-4014
FAX (909) 940-0427

Job Number: JOB # 2872
GLENDALE USD

TITLE SHEET

drawn by: PWH
date: 10-3-98
checked by:
date:
Modtech project no.

MODTECH Inc. No.

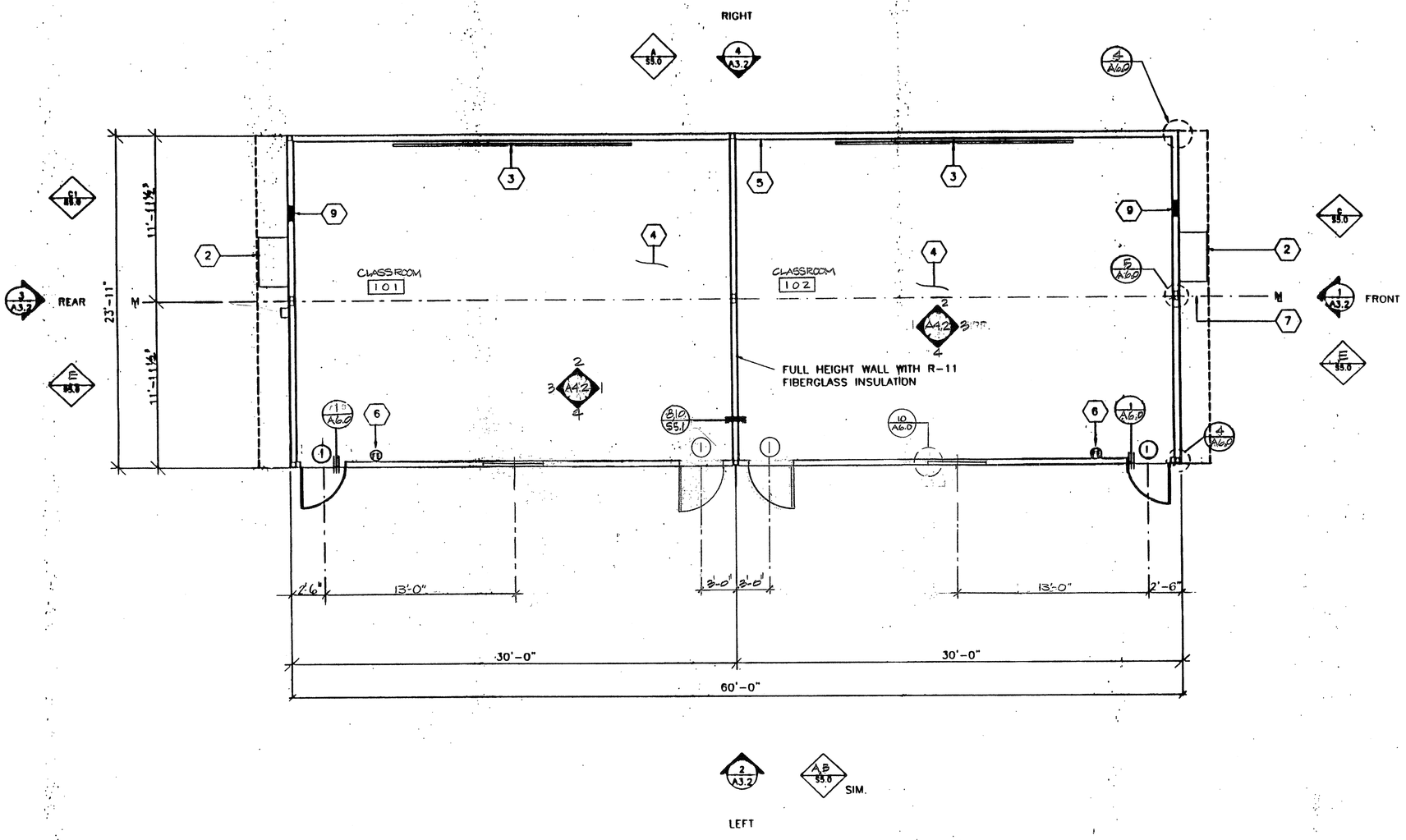
A0.0

P304A0.DWG

PROJECT NO. JOB # 2872
GLENDALE USD 24'X60'

SCHOOL DISTRICT

PC 304



KEY NOTES

1. NOT USED
2. HVAC UNIT (HV)
3. 2- 8'X4' MARKER BOARDS (SEE SPEC'S. FOR TYPE)
4. FINISH FLOORING: (SEE FINISH SCHED.) A5.0
5. TYPICAL INTERIOR FINISH (SEE FINISH SCHEDULE) A5.0
6. FIRE EXTINGUISHER - 5 LBS. DRY CHEMICAL WITH 2A-10BC U.L. RATING ON WALL MTD. FIRE EXTINGUISHER HANDLE AT 48" A.F.F.
7. MODLINE (M TYPICAL)
8. NOT USED
9. ELECTRICAL PANEL (EL)
10. NOT USED

NOTES

1. METAL TAG ON ALL MODULES, MECHANICALLY ATTACHED TO REAR EXTERIOR OF BUILDING SHOW D.S.A. APPLICATION NUMBER, MANUFACTURER'S NAME AND SERIAL NUMBER, ROOF AND FLOOR DESIGN LOADS, AND DESIGN WIND LOAD.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP03 119149
AC FLS 4C-98
DATE JAN 7 2019

LICENSED ARCHITECT
JAY ADAM
C-23975
EXPIR. 2-28-99
STATE OF CALIFORNIA

10/22/98

FLOOR PLAN OPTION "B"

SCALE 1/4"=1'-0"

REVISIONS	ELECTRICAL	MECHANICAL	STRUCTURAL	ARCHITECT	DIVISION OF THE STATE ARCHITECT
					IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES PC 304 AC DATE

MODTECH INC.
MODTECH INC,

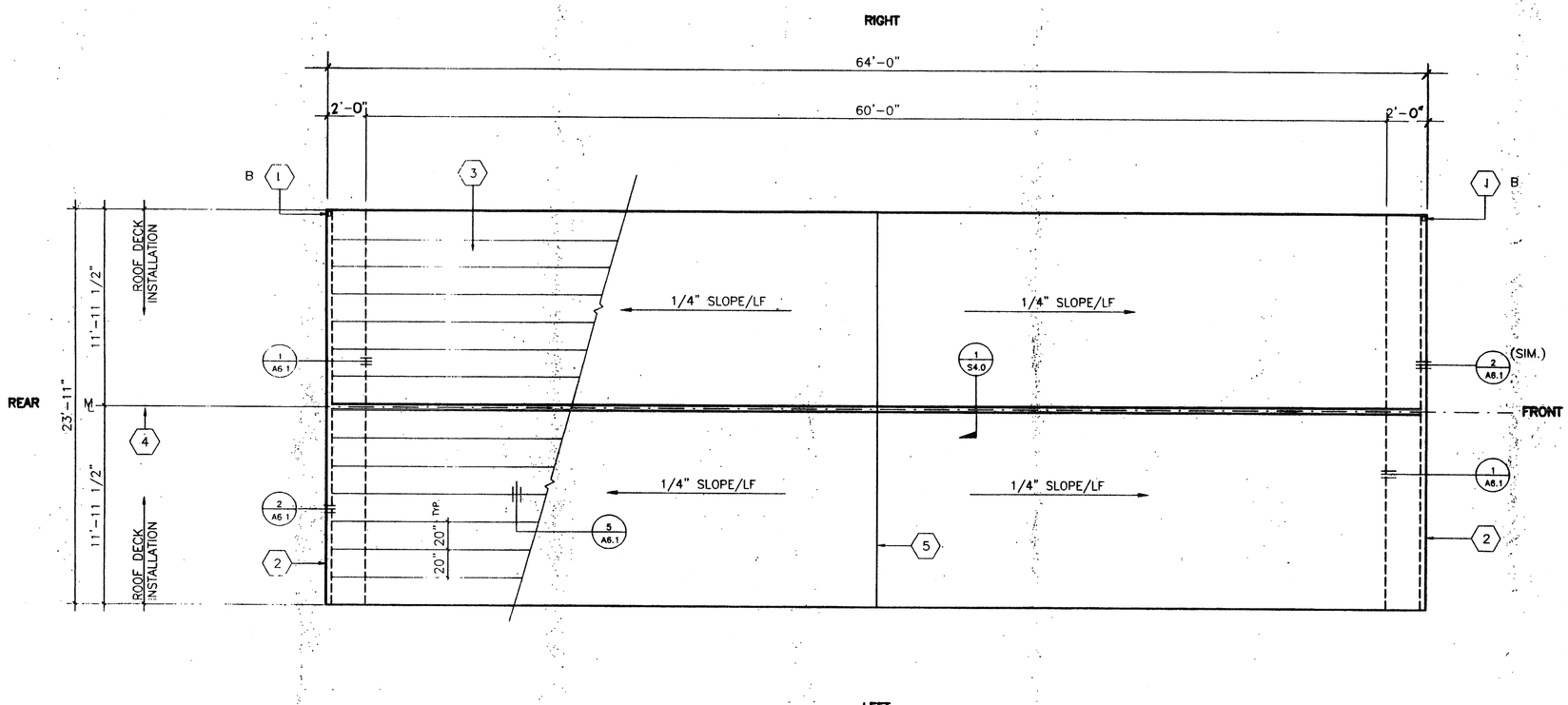
2830 BARRETT AVE.
PERRIS, CA. 92572
PH. (909) 943-4014
FX. (909) 940-0427

JOB NO: 8872
GLENDALE U.S.D.

FLOOR PLAN

DRAWN BY RS
DATE 8-10-98
CHECKED BY
DATE

A1.2



KEY NOTES

1. DOWNSPOUT (TYPICAL FOR TWO) SEE 8/A6.1
2. CONTINUOUS GUTTER SEE 9/A6.1
3. 26 GA. MIN. INTERLOCKING ROOF PANELS OVER 3/4" CDX PLYWOOD OVER AQUA BAR 15 (MHI) ROOFING UNDERLAYMENT RADCO LISTING #1109
4. MODLINE
5. RIDGE LINE

KEY NOTES

1. BUILDINGS, HOUSING, GROUP E OCCUPANCIES SHALL HAVE ROOF COVERINGS AS SPECIFIED IN TABLE 15A. C.B.C., CLASS "A".

GLENDALE UNIFIED

ROOF PLAN OPTION "B"

SCALE 1/4"=1'-0"

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APP03 119149 AC FLS SS DATE JAN 7 2019

LICENSED ARCHITECT TROY JAY ADAM RENEWAL 2-28-99 No. C-23975 STATE OF CALIFORNIA

9/22/98

REVISIONS	ELECTRICAL	MECHANICAL	STRUCTURAL	ARCHITECT	DIVISION OF THE STATE ARCHITECT
			JAMES T. SIMONS REGISTERED PROFESSIONAL ENGINEER No. 3602 RENEWAL 6-30-2000 STATE OF CALIFORNIA LICENSE EXPIRES 6-30-2000		IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES PC 3604 AC FLS SS DATE JAN 27 1997

MODTECH INC,

MODTECH INC.
2830 BARRETT AVE.
PERRIS, CA. 92572
PH. (909) 943-4014
FX. (909) 940-0427

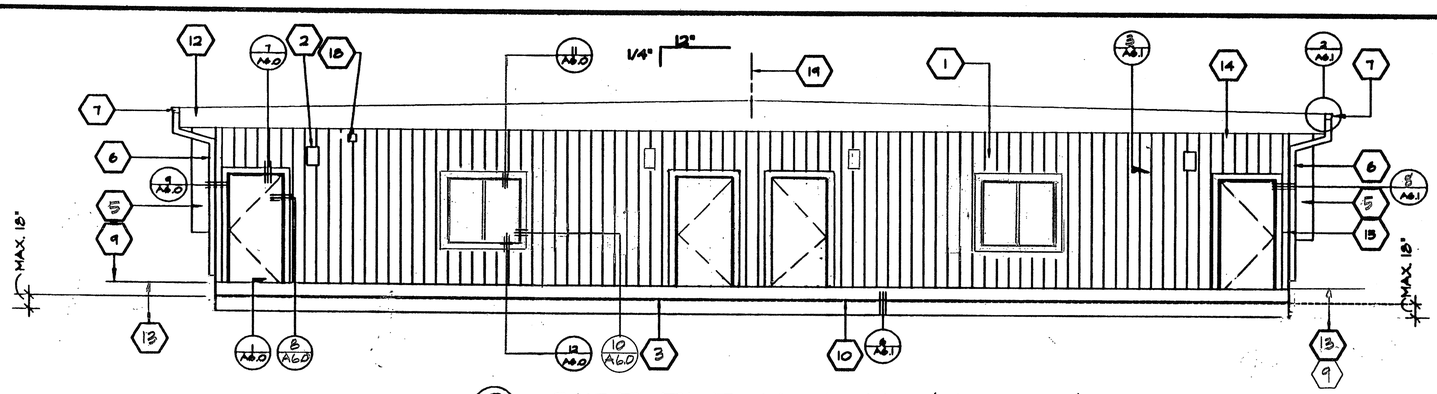
JOB NO: 2872

DRAWN BY RS
DATE 8-10-96
CHECKED BY
DATE

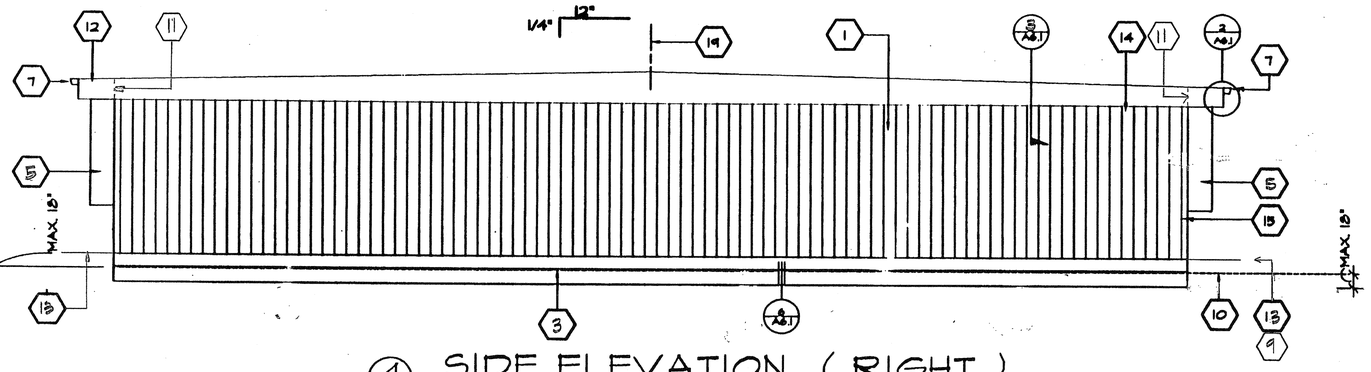
ROOF PLAN

A2.2

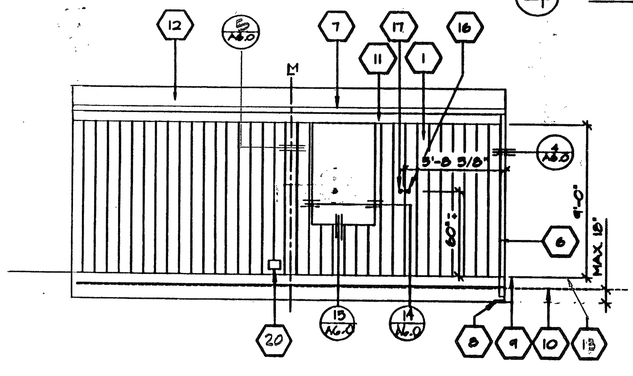
JOB NO 2872



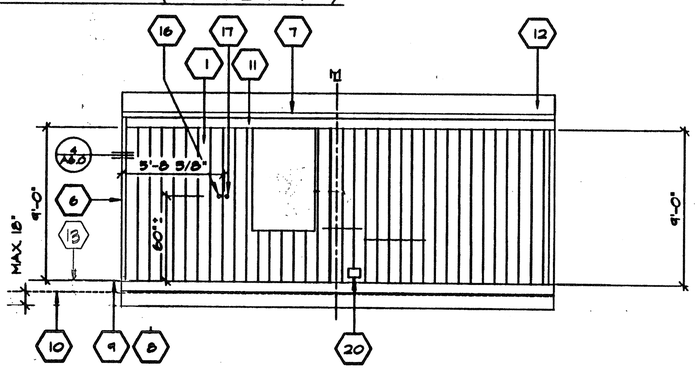
② SIDE ELEVATION (LEFT)



④ SIDE ELEVATION (RIGHT)



① FRONT ELEVATION



③ REAR ELEVATION

EXTERIOR ELEVATIONS

OPTION "B"

SCALE 1/4"=1'-0"

KEY NOTES

1. TYPICAL EXTERIOR SIDING (SEE SPECIFICATIONS)
2. EXTERIOR LIGHT FIXTURE (SEE SPECIFICATIONS)
3. TOP OF SKIRTING
4. NOT USED
5. HVAC UNIT SEE SHT. MI-2
6. DOWNSPOUT (TYP.TWO) FASTEN EACH DOWNSPOUT TO BLDG. TYP. 3 PLACES (SEE B/A6.1)
7. CONTINUOUS GUTTER WITH DOWNSPOUT (LOCATION OF DOWNSPOUT SHOWN ON ROOF PLAN) SEE 9/A6.1
8. SPLASH BLOCK - BY OTHERS
9. FINISH FLOOR LINE
10. BOTTOM FLANGE OF FLOOR BEAM
11. ROOF HEADER
12. ROOF OVERHANGS
13. FINISH GRADE
14. ROOF BEAM STR
15. COLUMN STR
16. ELECTRICAL STUB-OUT EL
17. GROUND STUB-OUT EL
18. FIRE ALARM HORN. EL
19. RIDGE
20. EL WEATHER PROOF ELEC. GUTTER BOX

LICENSED ARCHITECT TROY JAY ADAY REG. C-23975 REN. 2-28-98 STATE OF CALIFORNIA

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APP03 119149 AC 11 FLS 4C SS 87 DATE JAN 7 2019

10/22/98

BASED ON PC-304

REVISIONS	ELECTRICAL	MECHANICAL	STRUCTURAL	ARCHITECT	DIVISION OF THE STATE ARCHITECT
△					IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES APPL PC-304 AC FLS SS DATE
△					
△					
△					
△					
△					

MODTECH INC,

MODTECH INC.
2830 BARRETT AVE.
PERRIS, CA. 92572
PH. (909) 943-4014
FX. (909) 940-0427

JOB NO 2872-
GLENDALE U.S.D.

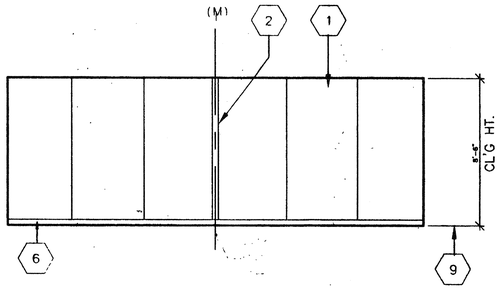
DRAWN BY RS
DATE 8-10-96
CHECKED BY
DATE

EXTERIOR ELEVATIONS

A3.2

JOB NO PC-304

GLENDALE UNIFIED



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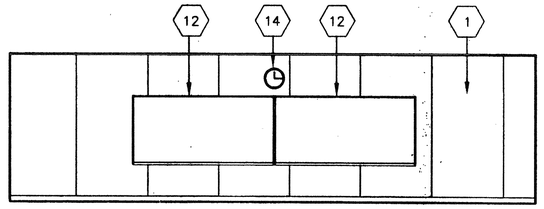

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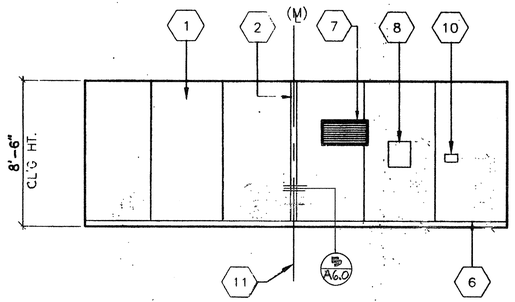

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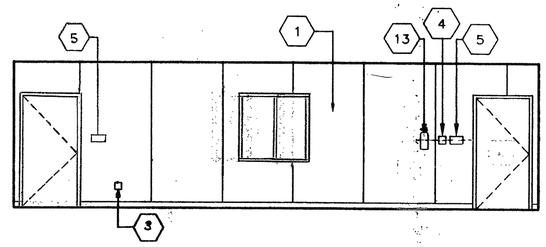


4

KEY NOTES

1. TYPICAL INTERIOR FINISH (SEE FINISH SCHEDULE SHT.A5.0)
2. CLOSURE AT MODULAR JOINT
3. DUPLEX WALL RECEPTACLE (EL) TYP
4. FIRE ALARM PULL STATION (EL)
5. LIGHT SWITCH (EL)
6. TOP SET BASE (TYPICAL) SEE FINISH SCHED.
7. RETURN AIR GRILL
8. ELECTRICAL PANEL (EL)
9. FINISH FLOOR
10. THERMOSTAT (SEE MECH. DRAWG'S)
11. MODULAR JOINT
12. 8040 MARKBOARD
13. FIRE EXTINGUISHER: 5LBS. DRY CHEMICAL WITH 2A:-10BC U.L. RATING ON WALL MTD. FIRE EXTINGUISHER HANDLES AT 48" A.F.F.
14. 12" DIA. ELECTRIC CLOCK (EL)

GLENDALE UNIFIED

INTERIOR ELEVATIONS

OPTION "B"

SCALE 1/4"=1'-0"

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP# 119149
AC FLS SS PT
DATE JAN 7 2019

LICENSED ARCHITECT TROY JAY ADAM No. C-23975 EXP. 2-28-98 STATE OF CALIFORNIA

10/22/96

REVISIONS	ELECTRICAL	MECHANICAL	STRUCTURAL	ARCHITECT	DIVISION OF THE STATE ARCHITECT
△			REGISTERED PROFESSIONAL ENGINEER JAMES T. SIMPSON No. 3608 STRUCTURAL STATE OF CALIFORNIA LICENSE EXPIRES 6-30-2000		IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES PC.304 AC FLS SS DATE JAN 7 1997

MODTECH INC.

MODTECH INC.
2830 BARRETT AVE.
PERRIS, CA. 92572
PH. (909) 943-4014
FX. (909) 940-0427

JOB NO: 2872

DRAWN BY RS
DATE 8-10-96
CHECKED BY
DATE

INTERIOR ELEVATIONS

A4.2

J.O. NO. PC-304

DOOR SCHEDULE

DOORS							FRAMES					
DOOR NUMBER	FRAME OPENING SIZE	MATERIAL	TYPE	FIRE RATING	HARDWARE SET NO.	QUANTITY	MATERIAL	HEAD DETAIL	JAMB DETAIL	SILL DETAIL	JAMB THROAT	NOTE NO.
4	3'-0" X 6'-8"	HM	A	NA	1		HM	7/A6.0	8/A6.0	1/A6.0	5-1/8"	

HM – HOLLOW METAL
AL – ALUMINUM
SST – STAINLESS STEEL
STL – STEEL FRAME. 18ga, FULLY WELDED, GALV @ EXTERIOR, REPUBLIC "ME" SERIES. PAINT TO
WWF – WINDOW WALL FRAME
SC – SOLID CORE WOOD
HC – HOLLOW CORE WOOD
SCL – SOLID CORE WOOD W/LAMINATED PLASTIC FACES.

WINDOW SCHEDULE

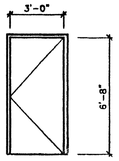
OPTION	AMT.	TYPE	WIDTH	HEIGHT	FINISH	GLASS TYPE
A	2	B	4'-0"	4'-0"	ANODIZED	7/32" MIN, SOLAR GRAY 46%, DUAL GLAZE

ROOM FINISH SCHEDULE

ROOM NUMBER	ROOM NAME	FINISHES								REMARKS
		FLOOR	BASE	WALLS				CEILING	CEILING HEIGHT	
				NORTH	EAST	SOUTH	WEST			
101	CLASSROOM	C	D	F	F	F	F	L	8'-6"	
102	CLASSROOM	C	D	F	F	F	F	L	8'-6"	

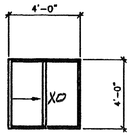
A – CARPET PER STATE OF CALIF SPEC COMPLYING WITH GROUP 1, TYPE A OR TYPE B, CLASS 2, DENSITY 4600, DIRECT GLUE DOWN WITH 4" TOPSET BASE.
B – RESILIENT OR EQUAL
C – VCT. ARMSTRONG STANDARD OR EXCELON
D – TOP SET BASE. 4" BURKE
E – TOP SET BASE. 6" BRIGANTINE OR SANDOVAL
F – WALL FINISH. 1/2" VINYL TACKBOARD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

DOOR ELEVATIONS



TYPE A

WINDOW ELEVATIONS



TYPE B

DOOR NOTES

1. DOOR HANDLES FOR LOCKSETS TO BE CENTERED @ 38" AFF & DEADBOLTS @ 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 UNO
   DOUBLE LETTERS IN SCHEDULE, INDICATES A PAIR OF DOORS.
3. CLOSURE SHALL BE SET FOR MAXIMUM OPENING PRESSURE OF 8.5 LBS @ EXTERIOR DOORS
4. AND 5.0 LBS @ INTERIOR DOORS.
5. PLACE SIGN OVER EXIT DOORS: "THESE DOORS TO REMAIN UNLOCKED DURING BUSINESS HOURS"
6. SIGNAGE IS NOT IN MODTECH CONTRACT

WINDOW NOTES

FINISH NOTES

ALL FINISHES SHALL COMPLY W/ C.B.C. CHAPTERS 3-8 & 10, CA. FIRE CODE & TITLE 19 C.C.R.

HARDWARE SCHEDULE

HARDWARE SET #1
LOCKSET – SCHLAGE D70PD, RHODES LEVER, OR EQUAL
BUTTS – 1-1/2 PAIR HAGER 1279 BB 4-1/2 x 4-1/2 NRP 26D OR EQUAL.
CLOSER – NORTON 8501 BFDP / 900 BFDP CAL ROYAL OR EQUAL.
THRESHOLD – PEMCO 271A OR EQUAL.
DOOR BOTTOM – PEMCO 216AV OR EQUAL.
WEATHERSTRIP – PEMCO 299AV OR EQUAL.

HARDWARE SET #2 (INTERIOR PASSAGE)
LOCKSET – SCHLAGE D10S WITH RHODES LEVER, OR EQUAL
BUTTS – 1-1/2 PAIR HAGER 1279 4-1/2 x 4-1/2 OR EQUAL.

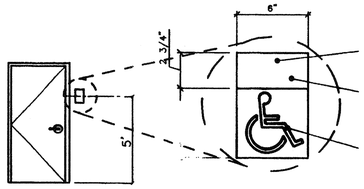
HARDWARE SET #3 (INTERIOR / OFFICE LOCKABLE)
LOCKSET – SCHLAGE D50PD, WITH RHODES LEVER OR EQUAL
BUTTS – 1-1/2 PAIR HAGER 1279 4-1/2 x 4-1/2 26D

HARDWARE SET #4 (INTERIOR TOILET ROOM / PRIVACY)
LOCKSET – SCHLAGE D40S OR EQUAL
BUTTS – 1-1/2 PAIR HAGER 1279 4-1/2 x 4-1/2 26D

HARDWARE SET #5 (INTERIOR STOREROOM)
LOCKSET – SCHLAGE D80PD WITH RHODES LEVER OR EQUAL
BUTTS – 1-1/2 PAIR HAGER 1279 4-1/2 x 4-1/2 26D

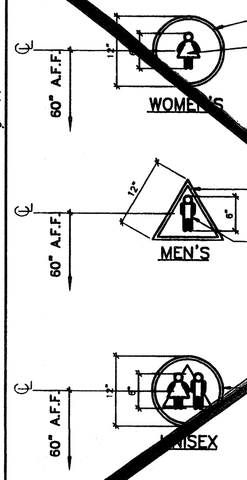
HARDWARE SET #6 (PANIC)
LOCKSET – VON DUPRIN 99L PANIC HARDWARE OR EQUAL
BUTTS – 1-1/2 PAIR HAGER 1279 BB 4-1/2 x 4-1/2 NRP 26D OR EQUAL.
CLOSER – NORTON 8501 BFDP / 900 BFDP CAL ROYAL OR EQUAL.
THRESHOLD – PEMCO 271A OR EQUAL.
DOOR BOTTOM – PEMCO 216AV OR EQUAL.
WEATHERSTRIP – PEMCO 299AV OR EQUAL.

ACCESSIBILITY SIGNAGE (BY DISTRICT)



ENTRY DOOR FROM EXTERIOR VIEW

ACCESSIBILITY SIGNAGE (AS REQUIRED – BY MODTECH)



NOTE:

ATTACH SIGNS USING THREE (3) WOODSCREWS, COUNTERSUNK AND ADHESIVE SIGN SHALL BE CENTERED ON DOOR AND MOUNTED 60" ABOVE FLOOR. ATTACHMENT OF SIGN SHALL BE FULLY CONCEALED AND TAMPER RESISTANT.

RADIUS CORNERS
CLEAR ACRYLIC PLASTIC
OPAQUE WHITE ACRYLIC PLASTIC BACK
PAINT BACKGROUND OF INTERIOR FACE OF CLEAR PLASTIC
1/8" 1/8"

TOILET SIGNAGE

SYMBOL SHALL BE CONTRASTING IN COLOR FROM THE DOOR.

1/4" THICK, 12" DIAMETER CIRCLE FOR BOTH WOMEN/UNISEX

1/4" THICK, 12" SIDES EQUILATERAL TRIANGLE FOR MEN

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP03 119149
AC FLS SS
DATE JAN 7 2019

LICENSED ARCHITECT TROY JAY ADAY No. C-23975 REN. 2-28-99 STATE OF CALIFORNIA

10/22/98

REVISIONS

1			
2			
3			
4			
5			

Electrical Engineer's Seal

Mechanical Engineer's Seal

Structural Engineer's Seal
REGISTERED PROFESSIONAL ENGINEER JAMES T. STRUCTURAL No. 3608 STATE OF CALIFORNIA
LICENSE EXPIRES 6-30-2000

Architects Seal

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
PC304
AC FLS SS
DATE JAN 2 1 1997

PROJECT NO: 2812

drawn by: FH
date 10/98
checked by:
date
Modtech project no:

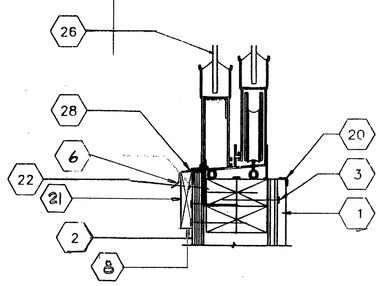
MODTECH Index No.

SCHEDULES

A5.0

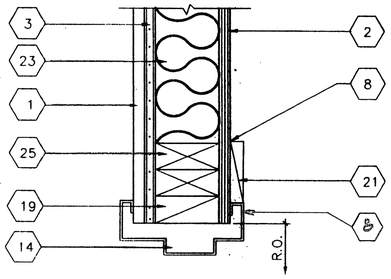
PROJECT NO: 2260

P266A50.DWG



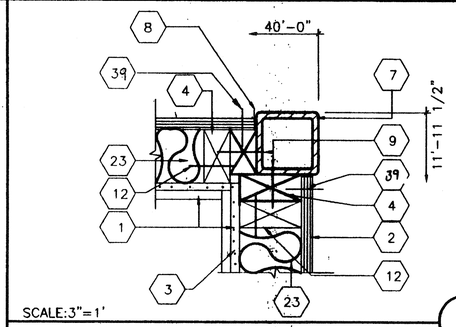
SCALE: 1-1/2"=1'

SILL PLATE (12)



SCALE:3"=1'

DOOR JAMB (8)



SCALE:3"=1'

CORNER COLUMN (4)

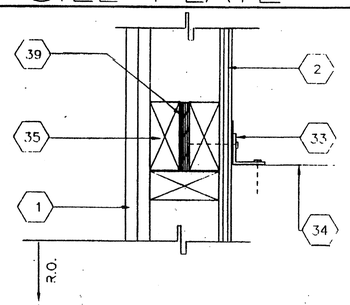
36 11GA. X 24" STEEL SUPPORT BRACKET BY HVAC MFG.

37 6-3/8" ϕ X 2" GALV. LAG SCREWS

38 2 X 6 LET IN (SEE WALL FRAMING SHT. S5.0)

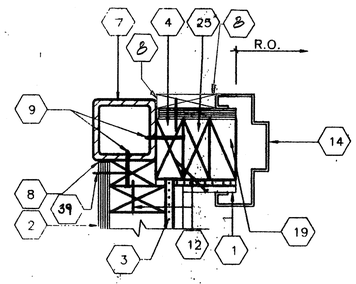
39 E.N. 8d BOX ELEGRO GAL @ 6"O.C. MAX.
F.N. @ 12" O.C. MAX.

40 CLOSURE SCREEN



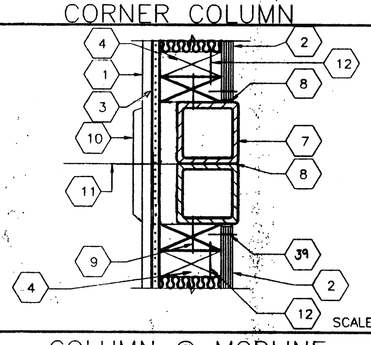
SCALE: NTS

UNIT ATTACHMENT (13)



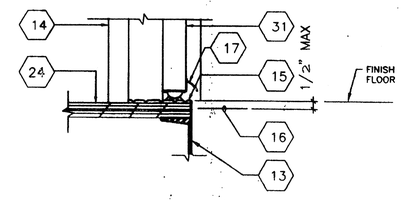
SCALE:3"=1'

DOOR JAMB (9)



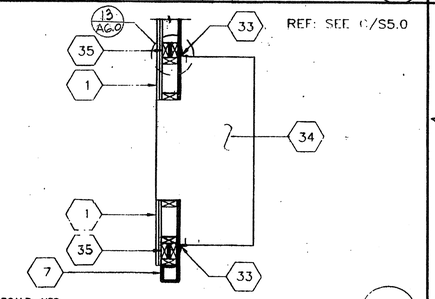
SCALE:3"=1'

COLUMN @ MODLINE (5)



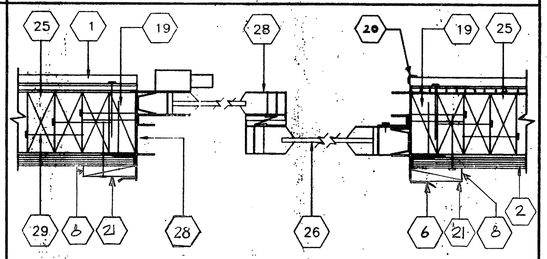
SCALE:3"=1'

THRESHOLD (1)



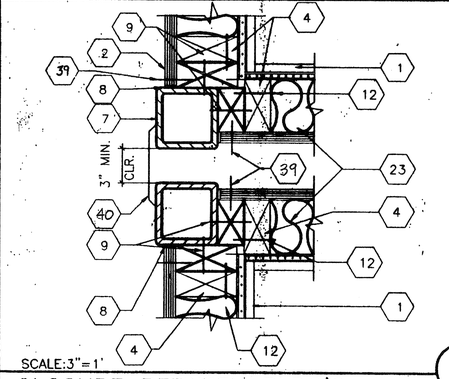
SCALE: NTS

A.C. UNIT (14)



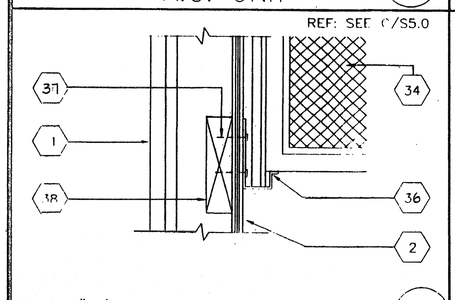
SCALE:3"=1'

WINDOWS SECTION @ JAMBS (10)



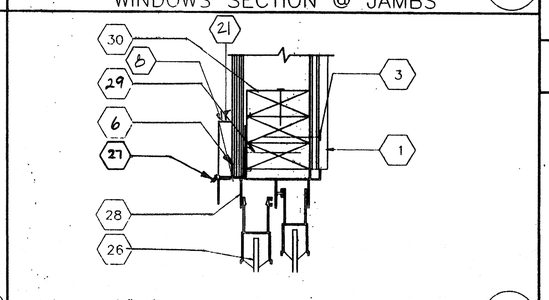
SCALE:3"=1'

CLOSURE BETWEEN BLDG'S (OPTIONAL) (6)



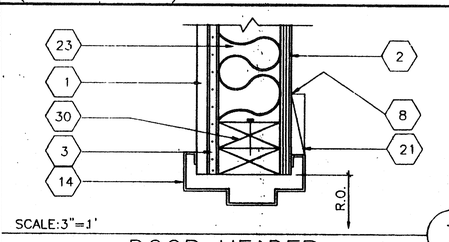
SCALE: 3"=1'

A.C. UNIT -BOTTOM (15)



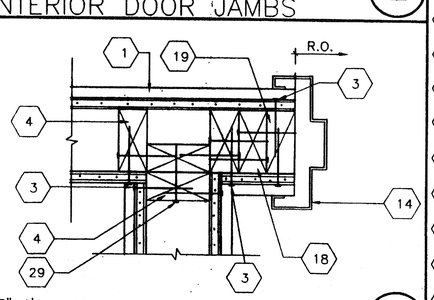
SCALE: 1-1/2"=1'

WINDOW HEADER (11)



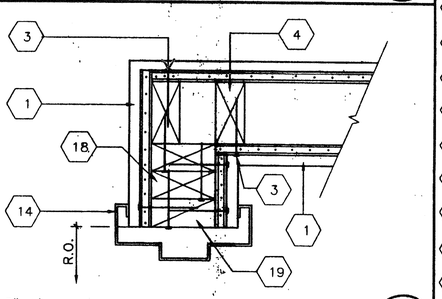
SCALE:3"=1'

DOOR HEADER (7)



SCALE:3"=1'

INTERIOR DOOR JAMBS (3)



SCALE:3"=1'

INTERIOR DOOR JAMBS (2)

NOTES

1. EN 8d ELECTRO GALV. @ 6" O.C.
2. FN 8d ELECTRO GALV. @ 12" O.C.

KEY NOTES

1. TYP. INTERIOR FINISH (SEE FINISH SCHED.)
2. TYP. EXTERIOR FINISH
3. 1/2" GYPSUM BOARD BACKING W/ 7d COOLER NAILS @ MAX 7" O.C. TYP. @ EA. STUD
4. 2X4 STUD TYP. @ 16" O.C. MAX.
5. NOT USED
6. J FLASHING
7. TUBE STEEL COLUMN STR
8. SEALANT TYP. (SEE SPECS.)
9. #10 S.T.S.M.S. @ MAX. 24" O.C. (ALT. HILTI 0.145 SHOT PIN) 2X FILLER TO COLUMN
10. VINYL CLOSURE
11. MODULE JOINT
12. 16d @ 24" O.C. FACE NAIL OR 16d @ 12" O.C. TOE NAIL (SEE SHT. S5.2 NOTE 12)
13. FLOOR BEAM STR
14. PRESSED STEEL FRAME (K.D. TYPE SEE A5.0)
15. ALUMINUM THRESHOLD (SEE HARDWARE SCHEDULE)
16. FINISH LANDING SEE FLOOR PLAN & FOUNDATION FOR TYPE AND FINISH
17. DOOR BOTTOM (SEE HARDWARE SCHEDULE)
18. (2) 2X4 KING STUD (13/S5.1 FOR NAILING)
19. 2X4 TRIMMER (13/S5.1 FOR NAILING)
20. CORNER MOLDING
21. 1X4 WOOD TRIM W/ 8d ELECTRO GALV. @ 12" O.C.
22. 2-2X4 SILL PLATE W/ 16d @ 16" O.C.
23. INSULATION (SEE SPECS. FOR SIZE AND TYPE)
24. FINISH FLOORING (SEE FINISH SCHEDULE SHT. A5.0)
25. 2X4 JAMB STUDS (SEE SHT. S5.1 DETAILS FOR NUMBER OF STUDS REQUIRED AND 13/S5.1 FOR NAILING)
26. WINDOW GLAZING (SEE WINDOW SCHEDULE SHEET A5.0)
27. DRIP FLASHING
28. ALUMINUM WINDOW FRAME WITH NAIL-ON FINISH. INSTALL W/MIN. 3" BLDG. PAPER BTWN. FIN. AND FRAMING. INSTALL WITH 8d @ MAX 24" O.C.
29. 16d BOX STAGGERED @ MAX 24" O.C.
30. HEADER (SEE SHT. S5.1 WALL FRAMING DETAILS)
31. DOOR (SEE DOOR SCHED.)
32. NOT USED
33. L 1 1/2"x1 1/2"x1/8"x18" LONG ATTACHED TO A/C w/4-#10 SELF TAPPING SHEET METAL SCREWS & ATTACH TO WALL w/ 4 - #12 WOOD SCREWS (2½ EMBED)
34. HVAC UNIT (SEE MECHANICAL SHEETS)
35. (3) 2X4 W/ PLYWOOD SPACER- BUILT- UP POST 4X4 ALT. POST

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP03 119149
AC FLS SS
DATE JAN 7 2019

10/22/98

GLENDALE UNIFIED

REVISIONS	ELECTRICAL	MECHANICAL	STRUCTURAL	ARCHITECT	DIVISION OF THE STATE ARCHITECT
△			REGISTERED PROFESSIONAL ENGINEER JAMES T. STAFFORD No. 38021 STRUCTURAL STATE OF CALIFORNIA		IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES PC 304 AC FLS SS DATE JAN 2 1997
△			LICENSE EXPIRES 6-30-2000		
△					
△					
△					
△					

MODTECH INC.
2830 BARRETT AVE.
PERRIS, CA. 92572
PH. (909) 943-4014
FX. (909) 940-0427

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JOB NO. 2872

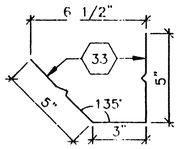
LICENSED ARCHITECT TROY JAY KOHN REG. NO. C-23975 REN. 2-28 STATE OF CALIFORNIA

DRAWN BY RS
DATE 8-10-96
CHECKED BY
DATE

ARCHITECTURAL DETAILS

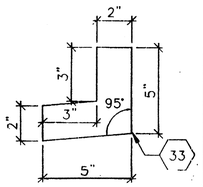
A6.0

JOB NO. PC-304



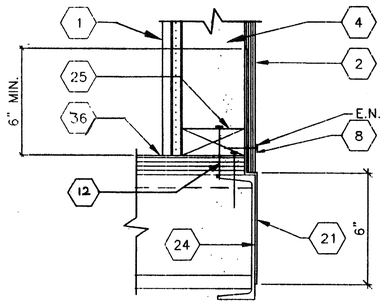
SCALE: 3"=1'

CONTINUOUS GUTTER



SCALE: 3"=1'

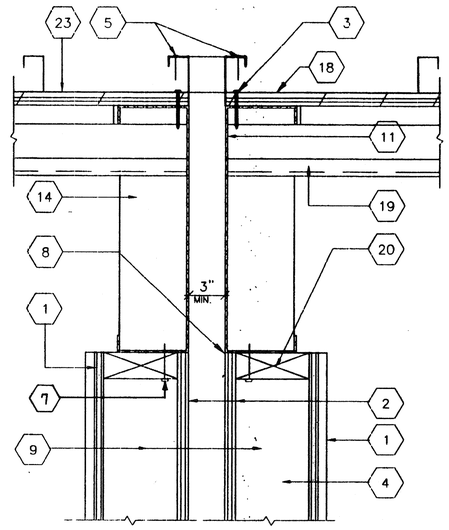
GUTTER @ BEND 9



NOTE: FLASHING AS SHOWN SUPPLIED BY MODTECH. SEE NOTE #21 ANY OTHER FLASHING OR EXTENSION IS THE RESPONSIBILITY OF THE SITE CONTRACTOR OR SCHOOL DISTRICT

SCALE: 3"=1'

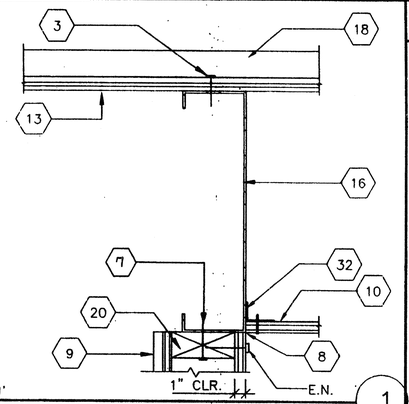
TYPICAL SILL @ FLOOR 6



"OPTIONAL"

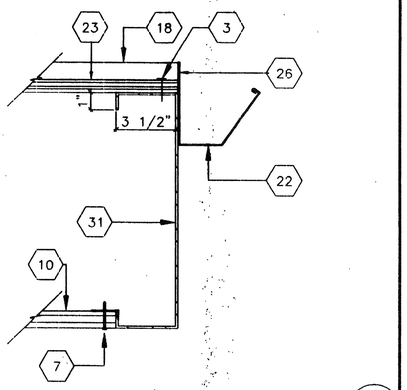
SCALE: 3"=1'

ROOF CAP @ SEP. 4



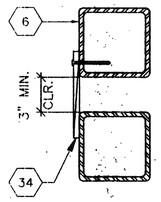
SCALE: 3"=1'

END WALL @ ROOF 1



SCALE: 3"=1'

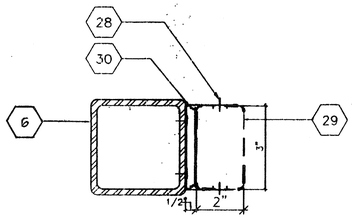
GUTTER @ ROOF FACIA BEAM 2



"OPTIONAL"

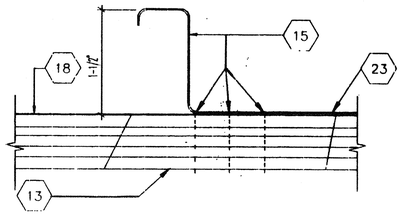
SCALE:3"=1'

SEPARATION @ COLUMNS 7



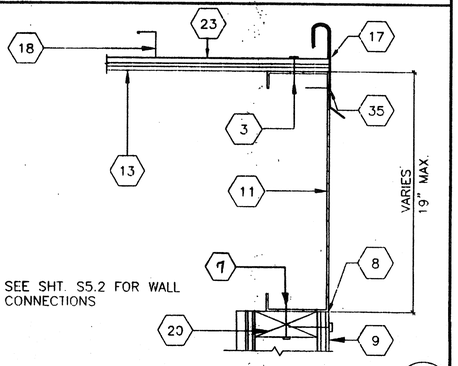
SCALE: 4"=1'

DOWNSPOUT ATTACHMENT 8



SCALE: FULL

ROOF CLIP 5



SEE SHT. S5.2 FOR WALL CONNECTIONS

SCALE: 3"=1'

ROOF FLASHING @ ROOF BEAM 3

KEY NOTES

1. TYP. INTERIOR FINISH
2. TYP. EXTERIOR FINISH
3. E.N. RF: PLYWOOD TO BEAM (SEE STRUCTURAL)
4. 2X4 STUD TYP.
5. CAP CLOSURE @ RIDGE 30GA. GALV. W/#10 STSMS @12" O.C. STAGGER W/NEOPRENE WASHERS TO RIB BOTH SIDES OF MODLINE SET CAP IN SEALANT. SEE 2.0 FOR GA.
6. TUBE STEEL (SEE STRUCTURAL)
7. #10 S.T.S.M.S. @ 6" O.C.EN & 12" O.C. FN / ALT. USE AEROSMITH AKN 144.0175 DRIVE PIN.
8. SEALANT TYP. (SEE SPECIFICATIONS)
9. EXTERIOR WALL (SEE S5.2 FOR CONNECTIONS)
10. SOFFIT (SEE SPECIFICATIONS)
11. ROOF BEAM (SEE STRUCTURAL)
12. 16d @ 8" O.C.
13. PLYWOOD ROOF SHEATHING (SEE STRUCTURAL)
14. FULL DEPTH STIFFENER PLATE (SEE STRUCTURAL FOR LOCATION)
15. ANCHOR CLIPS @ 24" O.C. & WITHIN 6" @ END OF ROOF DECKING. 3-.080X1½"SCREW SHANK NAILS EA.
16. ROOF HEADER (SEE STRUCTURAL)
17. G.I. FLASHING SEE 2.0 FOR GA.
18. STANDING SEAM MT'L ROOF DECKING (SEE A2.0 FOR GA.)
19. ROOF PURLIN (SEE STRUCTURAL)
20. CONTINUOUS 2X4 TOP PLATE
21. GALV. FLASHING (ONLY AT CONCRETE SUB-TERRAIN FOUNDATION)
22. CONTINUOUS GUTTER
23. WEATHERPROOF MEMBRANE
24. FLOOR BEAM (SEE STRUCTURAL)
25. 2X4 SILL PLATE ATTATCHED PER 4/S5.2
26. SEALANT @ END OF SEAM
27. ATTACHMENT BRACKET (TYP. 3-PLACES, TOP,BTM., & MIDSPAN W/2-#10STSMS BRACKET TO COLUMN)
28. POP RIVETS (29) TO (30) MIN. 1/8"ø
29. DOWNSPOUT 26 GA.
30. ATTACHMENT BRACKET w/2-#10 S.T.S.M.S. TO COLUMN (TYP. 3-PLACES TOP, BOTTOM & MIDSPAN)
31. ROOF FASCIA HEADER (SEE STRUCTURAL)
32. 1/2"X1 1/2"X20GA.< TACK WELD IN PLANT
33. 26GA. S.M.
34. 1 X 6 RS-WOOD TRIM ATTACH TO COLUMN ONE SIDE ONLY W/#10 STSMS @ 18" O.C.
35. #10 STSMS @ MAX. 24" O.C.
36. PLYWOOD FLOOR SHEATHING

LICENSED ARCHITECT TROY JAY ADAY No. C-23975 EXP. 2-28 STATE OF CALIFORNIA

10/22/96

SCHEDULE UNIFIED

ARCHITECT	ELECTRICAL	STRUCTURAL	MECHANICAL	FIRE MARSHAL	ACCESS COMPLIANCE	STRUCTURAL SAFETY
		REGISTERED PROFESSIONAL ENGINEER JAMES T. SINNETT No. 3632 Structural STATE OF CALIFORNIA LICENSE EXPIRES 6-30-2000				PC 304 JAN 2 1997

MODTECH INC,

JOB # 2672

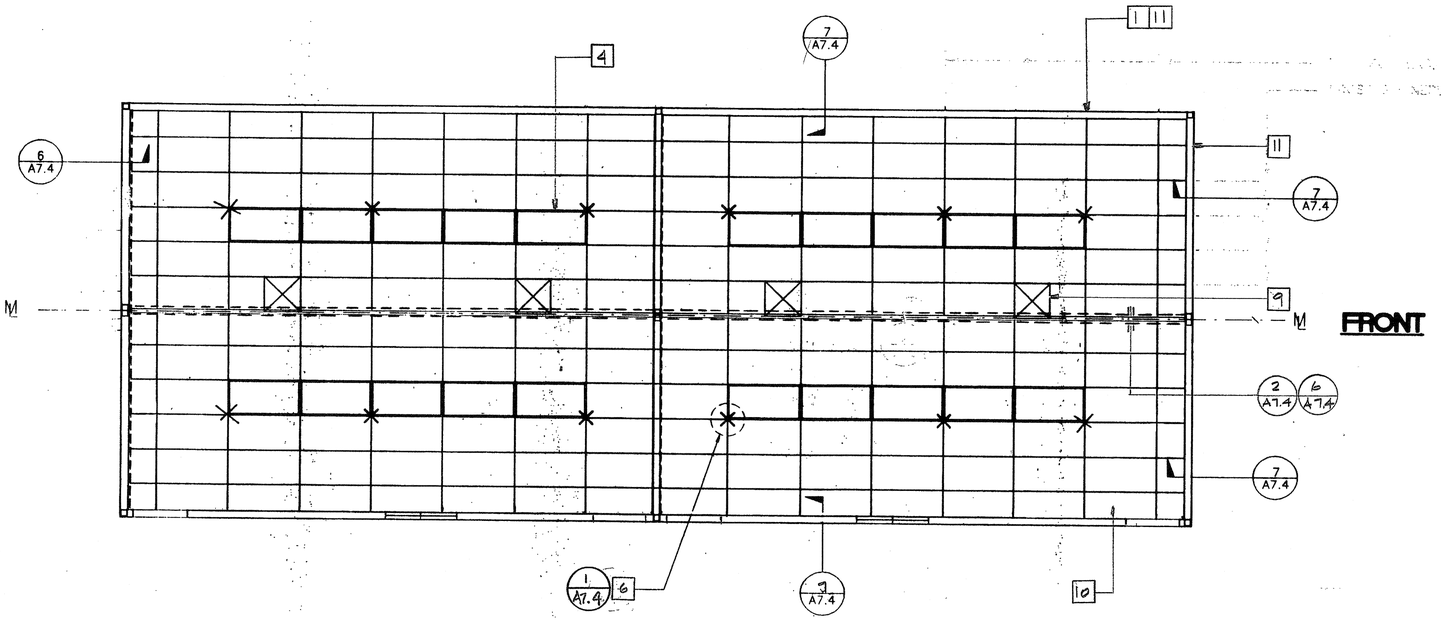
IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APP03 119149 AC FLS DATE JAN 7 2019

DRAWN BY RS
DATE 8-10-96
CHECKED BY
DATE

TYPICAL DETAILS

A6.1

JOB NO: PC-304



KEY NOTES

1. MAIN RUNNERS @ 4'-0" W/12GA. HANGER WIRES @ END OF EACH RUNNER.
2. AT THE END OF ROWS OF RUNNERS A 12GA. HANGER WIRE SHALL BE ATTACHED WITHIN 8" OF WALL OR SOFFIT
3. VERTICAL WIRES MORE THAN 1-IN-6 OUT OF PLUMB SHALL HAVE COUNTERBRACING WIRES.
4. PROVIDE 2-12GA. SLACK WIRES TO HOUSING OF ALL LIGHT FIXTURES AT DIAGONAL CORNERS. WIRES SHALL BE ATTACHED TO STRUCTURE OF LIGHT FIXTURES: 2 X 4 RECESSED, ATTACHED TO GRID W/1-#8 SHEET METAL SEREW AT EACH CORNER.
5. 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.
6. CEILING AREAS SHALL HAVE 4-WAY SPLAYS PER DETAIL 1 ON SHEET A7.4 IN LOCATIONS INDICATED ON DRAWINGS. WIRES TAUT BUT NOT TO DISTORT GRID.
7. NOT USED
8. DUCT WORK SHALL BE RIGIDLY ATTACHED TO BUILDING AND SHALL NOT BE CLOSER THAN 6" TO HANGER WIRES.
9. REGISTERS SHALL BE POSITIVELY ATTACHED W/4-10GA. SHEET METAL SCREWS.
10. CEILING PANELS: 2 X 4 LAY-IN PANELS. ASTM FLAME SPREAD CLASS 1 (0-25). FLAME SPREAD SMOKE DEVELOPMENT DENSITY LESS THAN 450 (TYP.)
11. T-BAR PART NUMBERS

	ARMSTRONG PA-041	CHICAGO METALLIC IR-47	USG IR-47
RUNNER MAIN	7301	200	DS 26
4' CROSS TEE	7342	1210	DX 422
2' CROSS TEE	7328	1226	DX 216
WALL ANGLE	7800	1420-01	M-7

LEGEND

- T & T BAR CEILING
- 2'X4' ELEC. FIXTURE RECESSED
- SUPPLY AIR DIFFUSER
- SPLAY WIRE
- INDICATES FIXED SIDE (SEE DETAIL 7/A7.4)
- INDICATES FREE SIDE (SEE DETAIL 6/A7.4)

LICENSED ARCHITECT TROY JAY ABAY NO. C-23975 REN. 2-29-99 STATE OF CALIFORNIA

10/22/98

REFLECTED CEILING PLAN

OPTION "A" "B" "C" TYPE 2

SCALE 1/4"=1'-0"

REVISIONS	ELECTRICAL	MECHANICAL	STRUCTURAL	ARCHITECT	DIVISION OF THE STATE ARCHITECT
△			REGISTERED PROFESSIONAL ENGINEER GREG T. SIMPSON No. 3903 Civil STRUCTURAL STATE OF CALIFORNIA LICENSE EXPIRES 8-30-2000		IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES PG 304 AC FLS SS DATE JAN 27 1997

MODTECH INC,

MODTECH INC.
2830 BARRETT AVE.
PERRIS, CA. 92572
PH. (909) 943-4014
FX. (909) 940-0427

JOB NO: 2872

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APP03 119149 AC FLS SS DATE JAN 7 2019

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DATE 8-10-96
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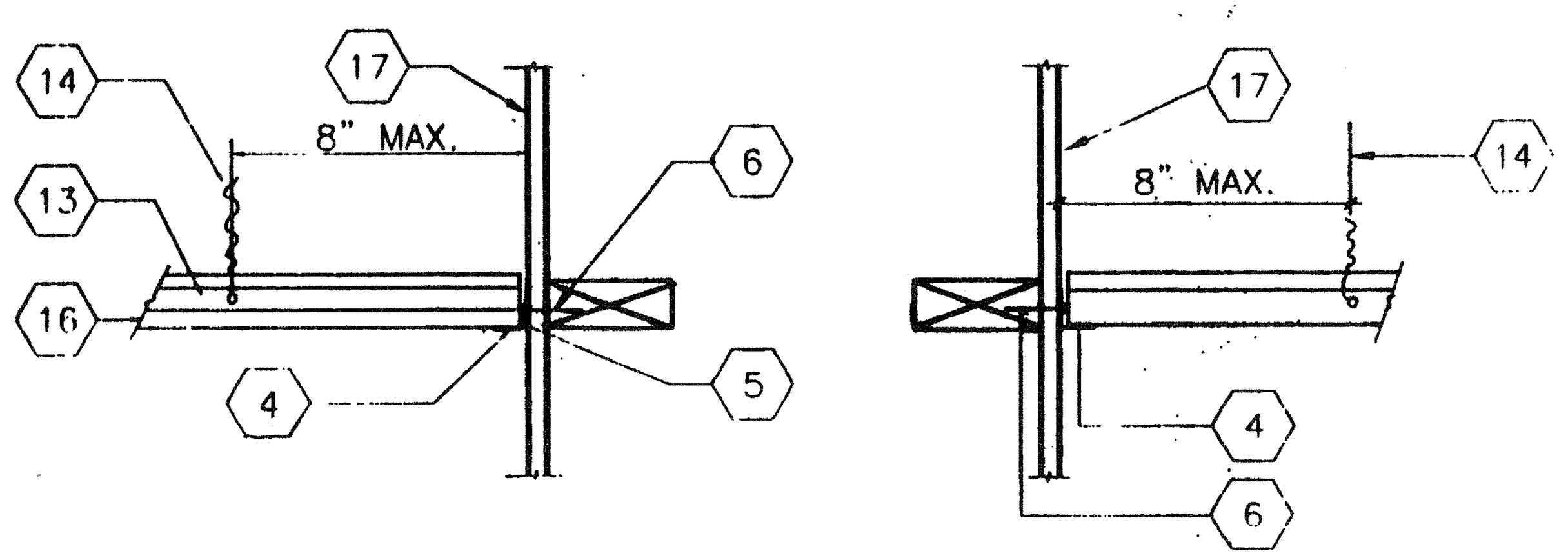
DATE

REFLECTED CEILING

A7.2

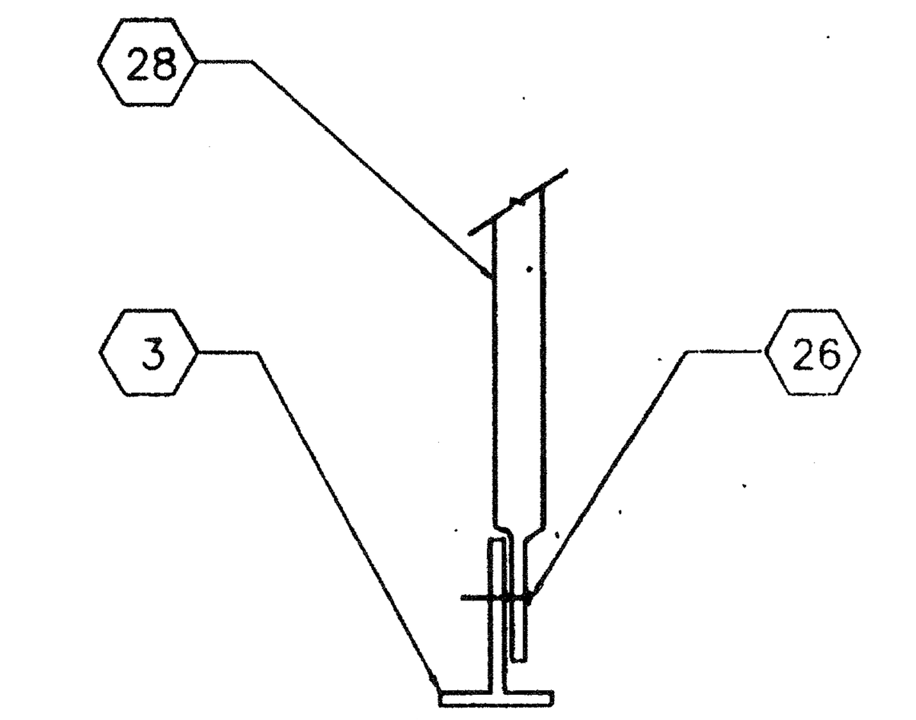
JOB NO: 2872



AI TERNATE

TYPICAL FIXED SIDE

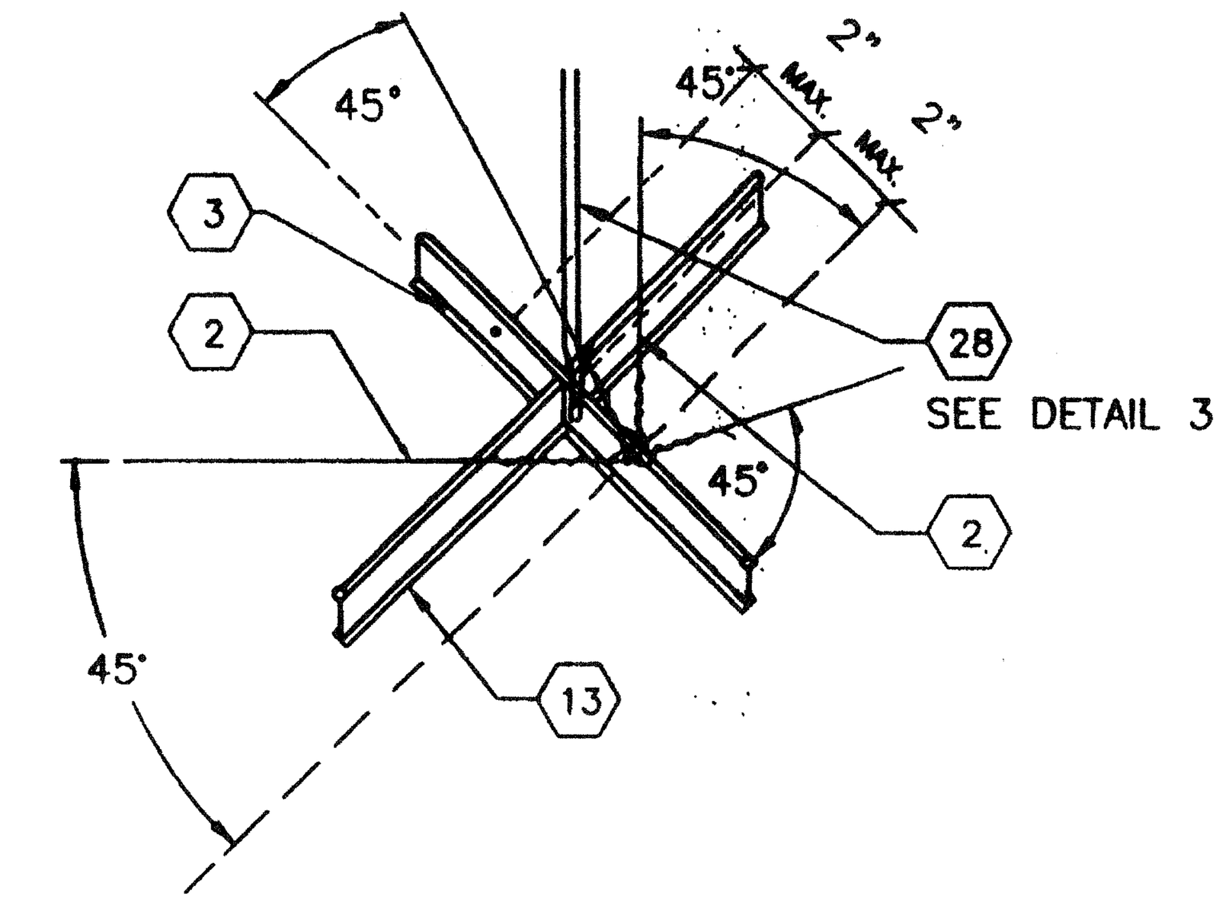
7



NOTE: CONDUIT MAY BE CRIMPED ON EITHER SIDE OF T-BAR, DEPENDING UPON CONDITION & LOCATION 5'-1" MAX LENGTH

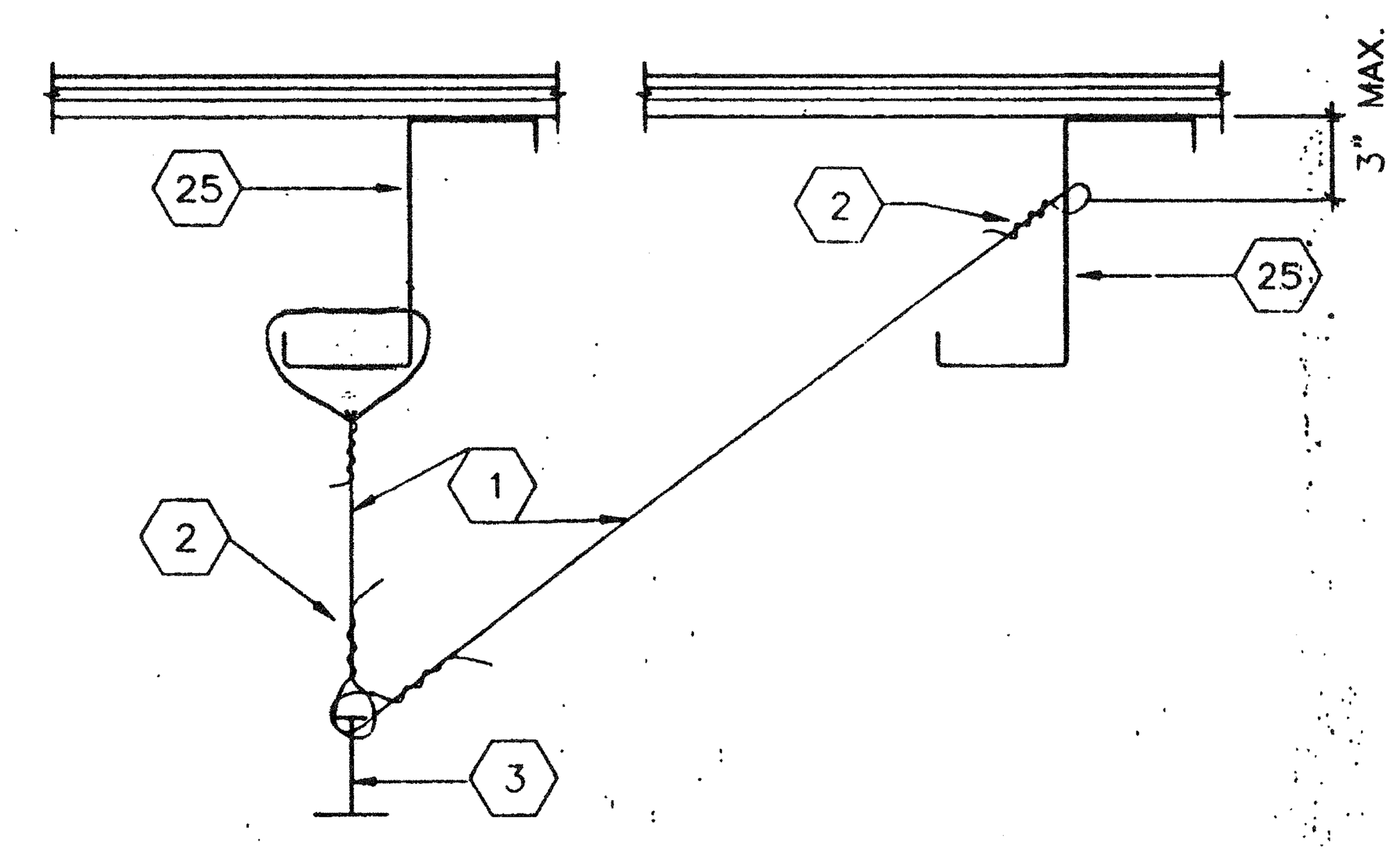
ALT. CONN. @ BOTTOM

4



SIESMIC SPLAY - 4 WAY

1



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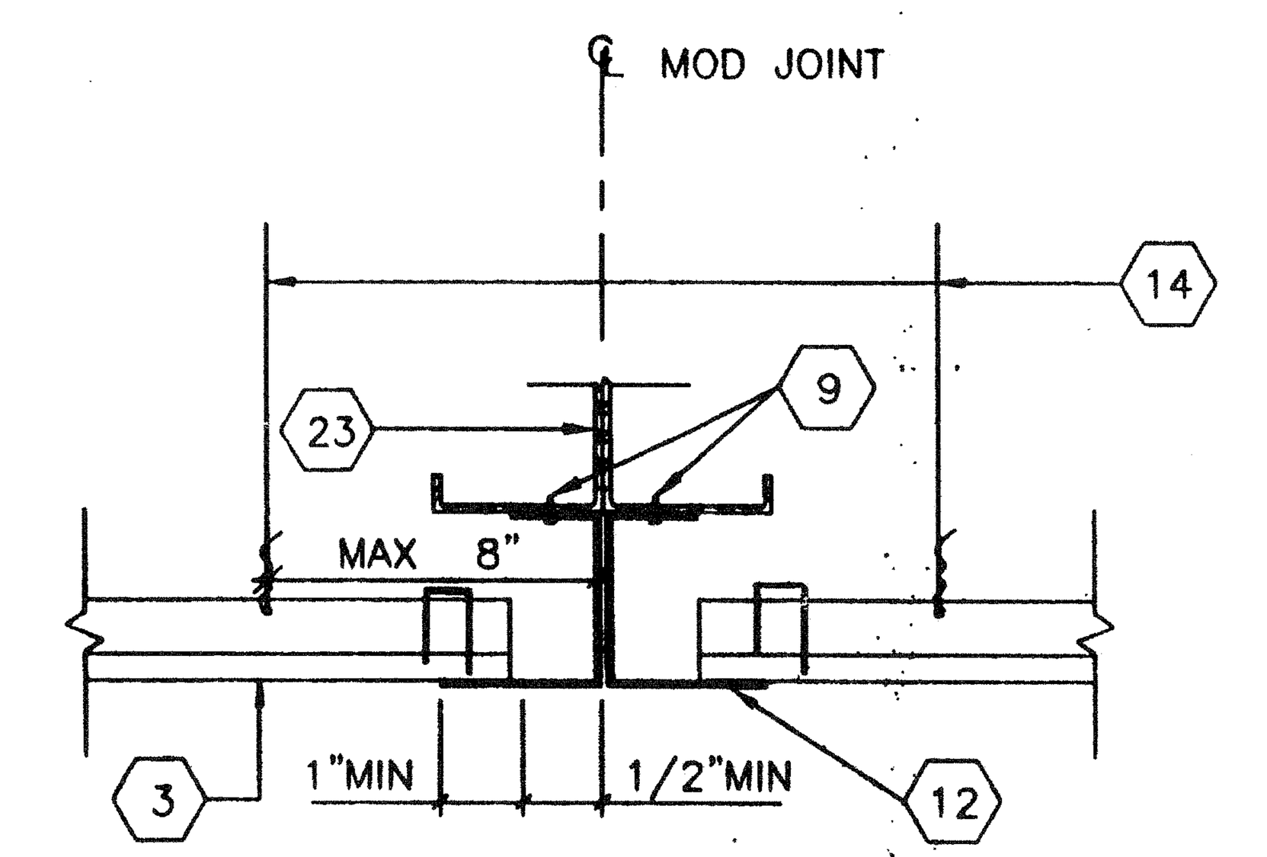


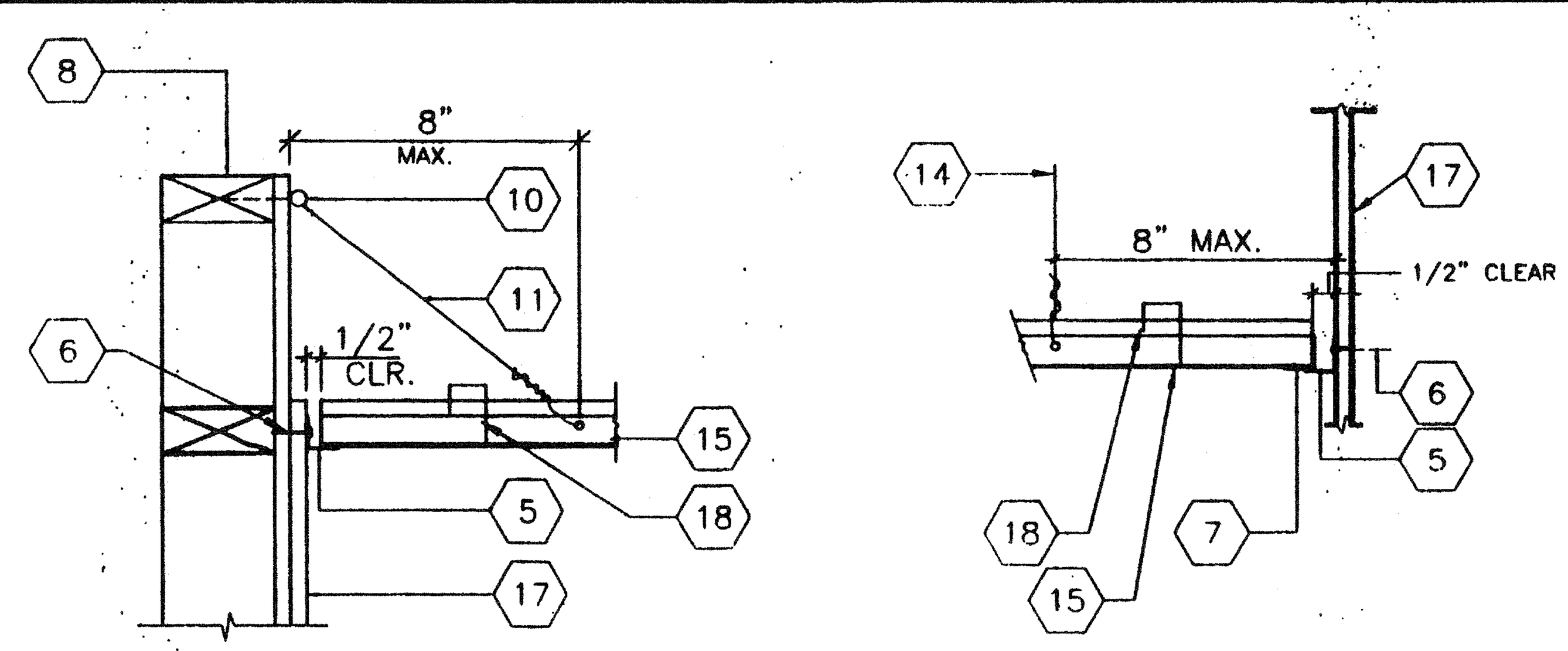
NOTE: LAY-IN CEILING TILE NOT SHOWN FOR CLARITY.

GRID AT MOD LINE

FREE SIDE

SCALE 3"=1'

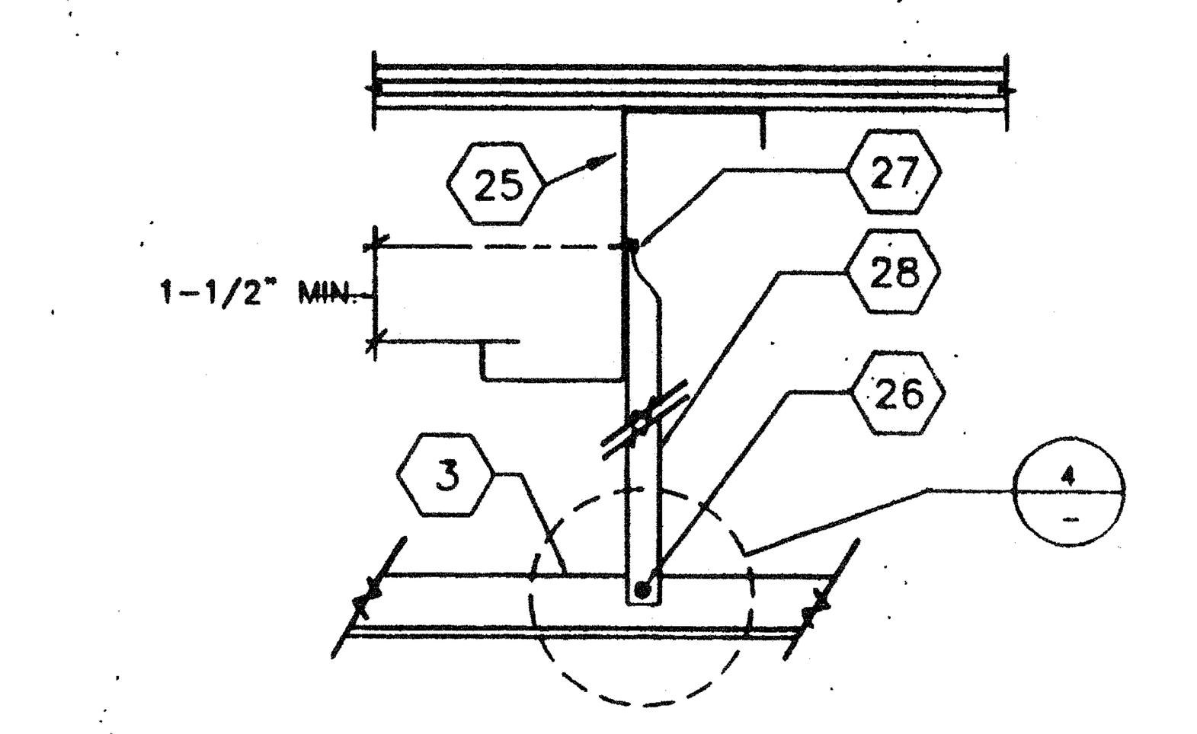
2



ALTERNATE

TYPICAL FREE SIDE

6



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

3

KEY NOTES

1. 12GA. HANGER WIRE @ 4'-0" O.C. IN PINCHED OR DRILLED HOLE
2. 12GA. WIRE WITH 4 WRAPS IN 1 1/2" (TYP.)WIRE TO RUN PERPENDICULAR TO MAIN TEE
3. MAIN RUNNER
4. 1/8"ø POP RIVET TO EACH T-BAR
5. WALL ANGLE
6. 8d 16" @ FRAMING TO WALL STUD
7. ANGLE WITH 1/8"ø POP RIVET TO EACH T-BAR NO CONNECTION TO WALL ANGLE
8. TOP PLATE
9. #10 S.T.S.M.S. @ 4' O.C.
10. 3"X1/4" EYED SCREW W/2" EMBEDMENT
11. HANGER TO WALL WHERE NO RAFTER ABOVE MAX SLOPE 1" IN 6"
12. 26 GA. REFLECTED CEILING MOUNT X 2" ⊏
13. CROSS TEE
14. 12GA. HANGER WIRE AT THE END ON EACH RUNNER MIN. 4 WRAPS IN MAX 1 1/2"
15. MAIN RUNNERS OR CROSS TEES
16. ACOUSTICAL BOARD
17. FINISH WALL
18. STABILIZER BAR CONTINUOUS AT FREE SIDE TAB CLIPS ON TO MAIN BEAMS ARMSTRONG #7425 (24") #7445 (48")
19. NOT USED
20. NO POP RIVETS
21. PROVIDE SPACE AT ALL MEMBERS AT OPPOSITE WALL
22. #8 TEK SCREW @ MAX 24" O.C.
23. ROOF BEAM (SEE STRUCTURAL)
24. NOT USED
25. ROOF PURLIN (SEE STRUCTURAL)
26. CRIMP CONDUIT AND ATTACH TO T-BAR GRID W/#8 TEKSCREWS
27. CRIMP CONDUIT TO RAFTER W/2-#8 TEKSCREW
28. 3/4" E.M.T. CONDUIT
29. #8 TEKSCREW

LICENSED ARCHITECT TROY JAY ADAY NO. C-23975 REN. 2-3-99 STATE OF CALIFORNIA

10/22/98

GLENDALE UNIFIED

REVISIONS	ELECTRICAL	MECHANICAL	STRUCTURAL	ARCHITECT	DIVISION OF THE STATE ARCHITECT
△			REGISTERED PROFESSIONAL ENGINEER JAMES T. SIMPSON No. 3602 STRUCTURAL STATE OF CALIFORNIA		IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES
△			LICENSE EXPIRES 6-30-2000		PC 304
△					AC ___ FLS ___ SS ___
△					DATE JAN 2 1997

MODTECH INC.

MODTECH INC.
2830 BARRETT AVE.
PERRIS, CA. 92572
PH. (909) 943-4014
FX. (909) 940-0427

JOB NO. 2672

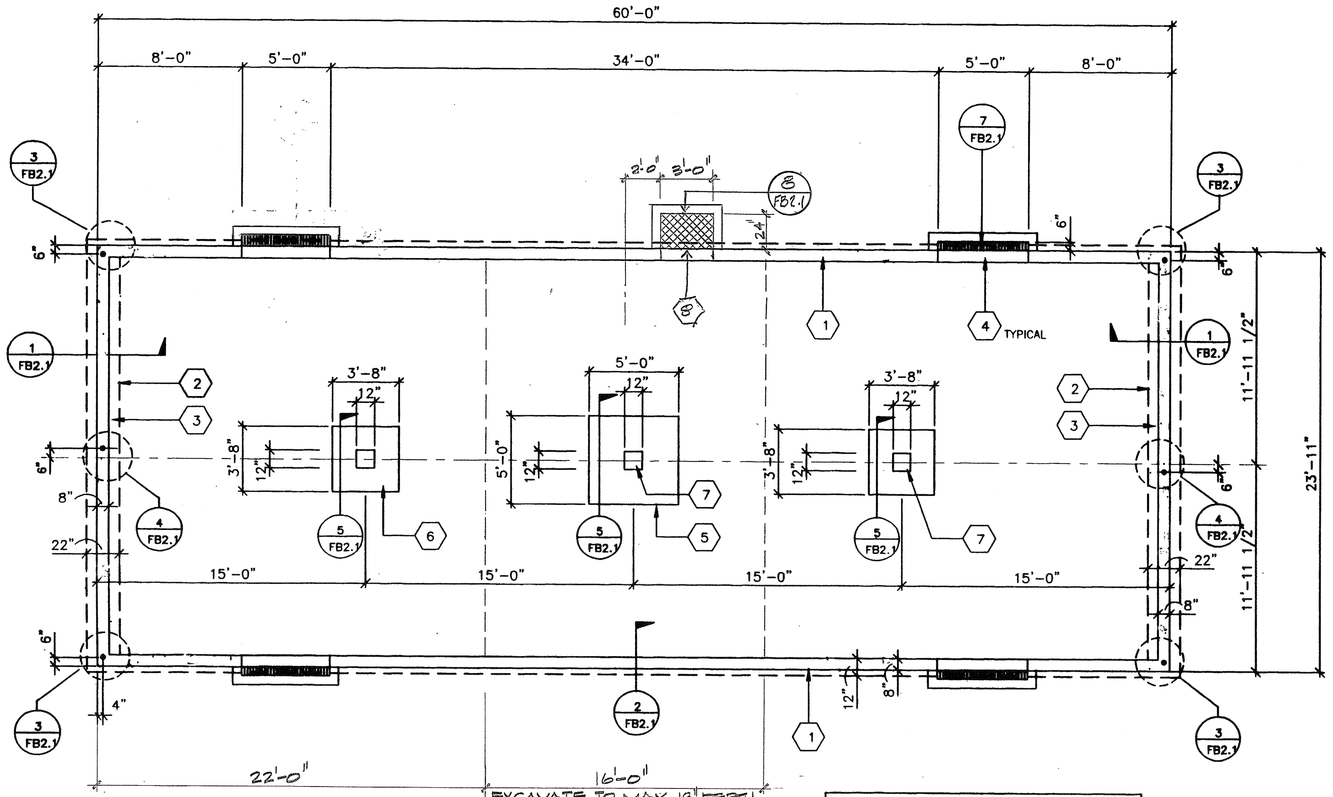
IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT
APPL 1 19149
AC ___ FLS ___ SS ___
DATE JAN 7 2019

DRAWN BY RS
DATE 8-10-96
CHECKED BY
DATE

REFLECTED CEILING DETAILS

A7.4

JOB NO. PC-304



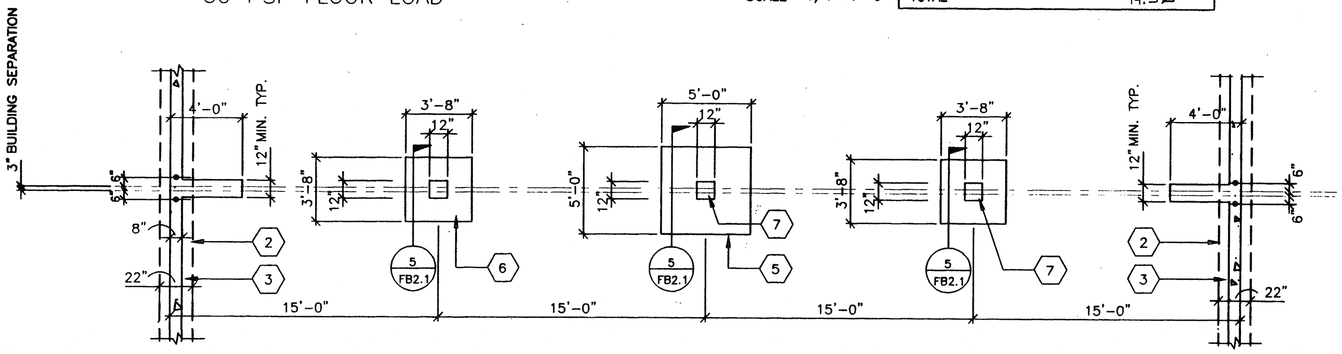
BELOW GRADE

FOUNDATION (CONCRETE)

50 PSF FLOOR LOAD

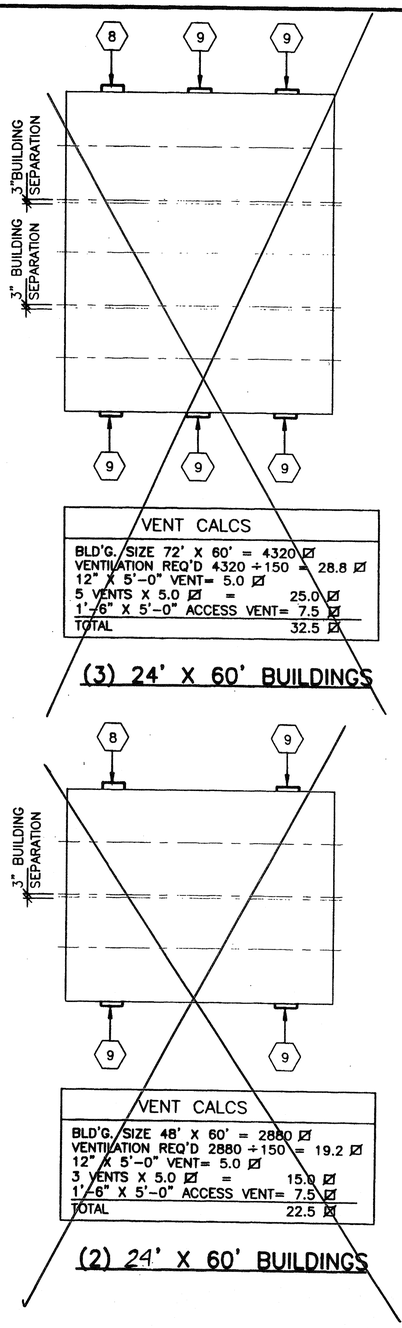
SCALE 1/4"=1'-0"

VENT CALCS	
BLD'G. SIZE 24' X 60' = 1440 ☐	
VENTILATION REQ'D 1440 ÷ 150 = 9.6 ☐	
6" X 5'-0" VENT= 2.5 ☐	
4 VENTS X 2.5 ☐ =	10 ☐
ACCESS VENT 3' x 18" =	4.5
TOTAL	14.5 ☐



FOOTING AT 3" SEPARATION

REVISED FEB 1 3 1997



VENT CALCS	
BLD'G. SIZE 72' X 60' = 4320 ☐	
VENTILATION REQ'D 4320 ÷ 150 = 28.8 ☐	
12" X 5'-0" VENT= 5.0 ☐	
5 VENTS X 5.0 ☐ =	25.0 ☐
1'-6" X 5'-0" ACCESS VENT= 7.5 ☐	
TOTAL	32.5 ☐

(3) 24' X 60' BUILDINGS

VENT CALCS	
BLD'G. SIZE 48' X 60' = 2880 ☐	
VENTILATION REQ'D 2880 ÷ 150 = 19.2 ☐	
12" X 5'-0" VENT= 5.0 ☐	
3 VENTS X 5.0 ☐ =	15.0 ☐
1'-6" X 5'-0" ACCESS VENT= 7.5 ☐	
TOTAL	22.5 ☐

(2) 24' X 60' BUILDINGS

KEY NOTES

1. 12" WIDE CONT. FOOTING
2. 22" WIDE CONT. FOOTING W/ 2 - #5 CONT.
3. 8" MIN. STEM WALL
4. 6"x5' VENT (TYPICAL)
5. 5'-0" SQ. PAD FOOTING W/ 5 - #5 EA. WAY
6. 3'-8" SQ. PAD FOOTING W/ 4 - #5 EA. WAY
7. 12" ø OR ☐ PIER
8. 3'-0" x 18" ACCESS VENT
9. 12"x5' VENT (TYPICAL)

NOTES

IMPORTANT NOTE

1. THE ABOVE FOUNDATION PLAN HAS 1/4" ADDED AT EACH MOD LINE AND DOES NOT MATCH THE FLOOR PLAN. THIS IS REQUIRED FOR GROWTH THAT IS EXPERIENCED WHEN SETTING MULTIPLE MODULE BUILDINGS.
2. CONCRETE DESIGNED FOR 3000 PSI AT 28 DAYS
3. FOUNDATION DESIGNED FOR 1000 PSF SOIL PRESSURE.
4. VENT GRATES TO HAVE MAXIMUM 1" OPENINGS EXCEPT 1/2" WHEN GRATE IS IN PATH OF TRAVEL. SEE ARCH. SITE PLAN FOR PATH OF TRAVEL.

LICENSED ARCHITECT TROY JAY ADAY No. C-23975 EXP. 2-28-99 STATE OF CALIFORNIA

10/22/98

FILE #

PROJECT NO.

PC-304

REVISIONS			
1			
2			
3			
4			
5			
6			

Electrical Engineer's Seal

Mechanical Engineer's Seal

Structural Engineer's Seal — REGISTERED PROFESSIONAL ENGINEER — MARC T. SIMON — No. 38012 — STRUCTURAL — STATE OF CALIFORNIA — LICENSE EXPIRES 6-30-2000

Architects Seal

Division of the State Architect — IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES — PC 304 — AC ___ FLS ___ SS ___ — DATE JAN 2 1 1997

MODTECH INC.
2830 BARRETT AVENUE
PERRIS, CALIF. 92572
PH (909) 943-4014
FAX (909) 940-0427

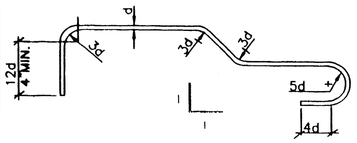
JOB# 2872

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APP03 119149 AC ___ FLS ___ SS PT DATE JAN 7 2019

drawn by: A.D.
date: 02-11-97
checked by:
date:
Modtech project no:
MODTECH Index No.

FOUNDATION PLAN

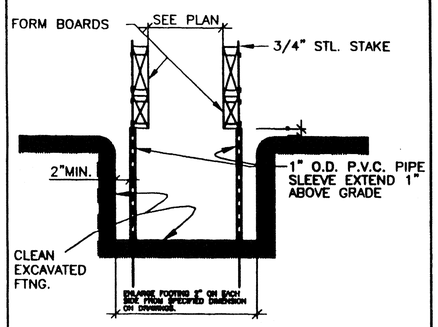
FB1.1



TYPICAL REINF. BENDING DETAIL
(FOR #7 BARS OR SMALLER)

SCALE: NTS

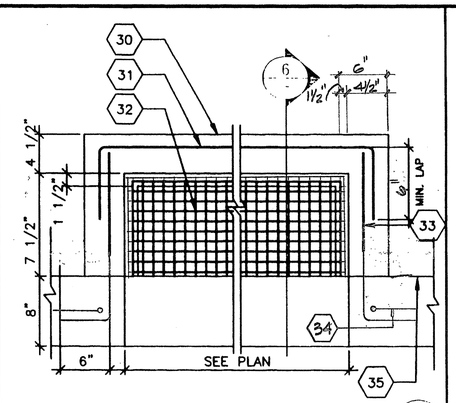
TYP. REBAR BENDING DETAIL (13)



NOTE: USE STAKE PULLER TO REMOVE STL. STAKES. DO NOT BANG TO LOOSEN.

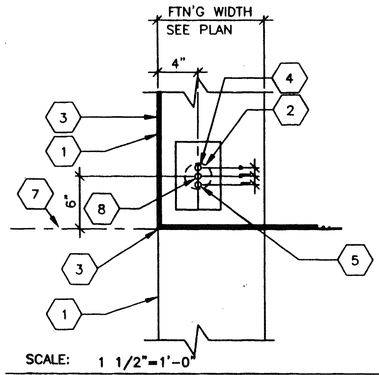
SCALE: 1 1/2"=1'

FOOTING FORMS (10)



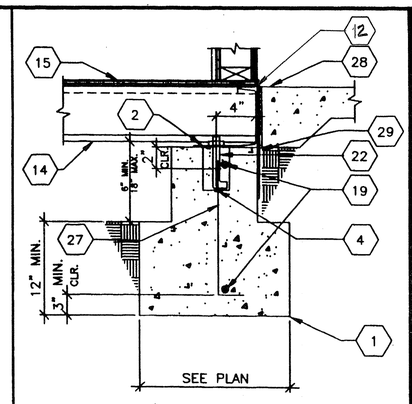
SCALE: N.T.S.

TYPICAL VENT (7)



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

ANCHOR BOLT ⊙ MODLINE (4)



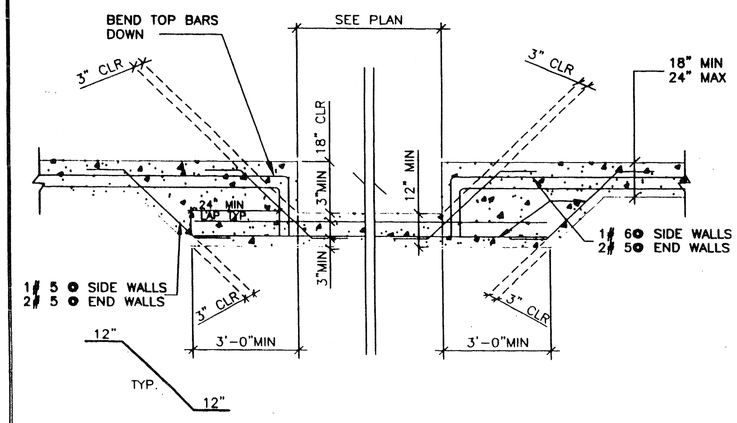
SCALE: 1 1/2"=1'-0"

TYPICAL END WALL FTG. (1)

KEY NOTES

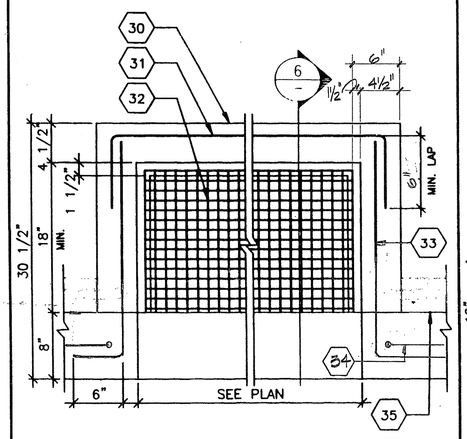
1 – FOUNDATION STEMWALL OR FOOTING
2 – 5" X 8" X 1/4" PLATE SEE 15/S3.1
3 – STEEL FLOOR FRAME
4 – 3"ø X 5" DEEP CANOUT IN FOUNDATION (BY CONC. SUB.)
5 – 13/16"ø HOLES EA. SIDE OF ANCHOR BOLT
6 – CONC. PIER
7 – MODLINE
8 – 13/16"ø HOLE FOR 3/4"ø ANCHOR BOLT
9 – FINISH GRADE LINE
10 – 5/8"ø M.B. SEE FLOOR FRAMING PLAN FOR SPACING
11 – CONCRETE INT. PAD FTG. SEE FOUNDATION PLAN FOR SIZES
12 – 26GA. GALV. SHEET METAL FLASHING
13 – FLOOR JOIST SEE FLOOR FRAMING PLAN
14 – FLOOR BLK'NG SEE FLOOR FRAMING PLAN
15 – 1-1/8" PLYWOOD FLOOR SHEATHING
16 – NOT USED
17 – NOT USED
18 – NOT USED
19 – NOT USED
20 – NOT USED
21 – NOT USED
22 – NOT USED
23 – NOT USED
24 – (4) – #5 X L VERT. REBAR
25 – (2) – #4 TIES AT TOP
26 – #4 TIES AT 8" O,C,
27 – L #3 AT 24" O.C.
28 – CONC. FLAT WORK BY SITE CONTRACTOR
29 – COUNTER-FLASHING (BY OTHERS)
30 – AREAWAY WALL
31 – #4 REBAR TOP AND BOTTOM
32 – GRATE: SEE FB1.1/NOTE 4
33 – STD. 90° HOOK (TYP.)
34 – #5 AT CURB
35 – LINE OF BUILDING
36 – DRYWELL W/ 3/8 PEA GRAVEL
37 – 1 1/4" X 1 1/4" ANGLE FRAME
38 – GRATE: SEE FB1.1/NOTE 4
39 – 3/8"ø AB X 3" ANCHOR

FILE #



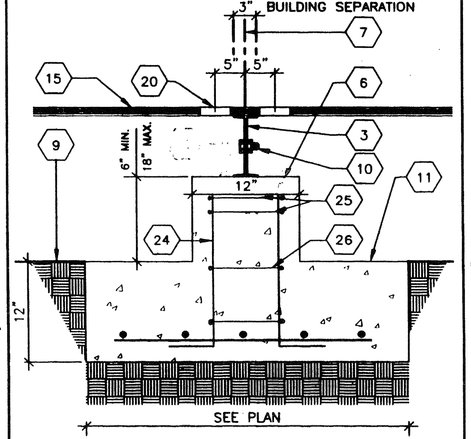
SCALE: 1/2"=1'-0"

ACCESS VENT ELEVATION (11)



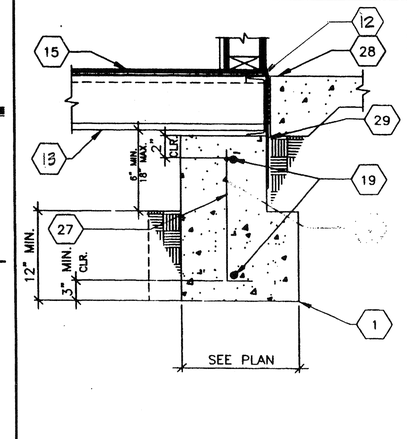
SCALE: N.T.S.

AREAWAY WALL/ACCESS VENT (8)



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

INTERIOR PAD FOOTING (5)



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

TYPICAL SIDE WALL FTG. (2)

SOIL TYPE & FOUNDATION

A. BEARING: SOIL BEARING VALUE OF 1000 PSF USED FOR DESIGN.
B. FOOTINGS: ALL FOOTINGS SHALL EXTEND 12 INCHES MIN. INTO NATIVE SOILS OR APPROVED ENGINEERING FILL.

CONCRETE

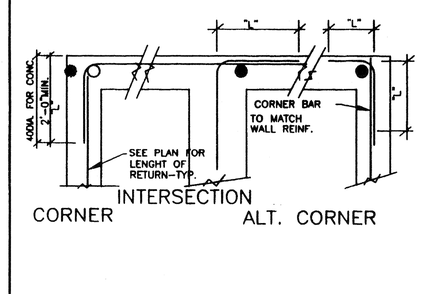
ALL CONC. SHALL HAVE THE FOLLOWING MIN. STRENGTH @ 28 DAYS: FOOTINGS: f'c = 3000 PSI ~~(DESIGN BASED ON f'c = 2000 PSI)~~; NO SPECIAL INSPECTION REQ'D. PER UBC SEC. 306(B)1 EXCEPTION 2.
CONCRETE SHALL CONFORM TO TITLE 24 SECTION 2605(C) METHOD A (NON-DESIGNED MIX PER TABLE 26-A-7).
ALL CEMENT SHALL BE TYPE I OR TYPE II PER ASTM C-150.
MINIMUM 7.1 SACKS OF CEMENT PER YARD OF CONCRETE.
WATER CONTENT SHALL NOT EXCEED 6 GALLONS PER SACK OF CEMENT. AGGREGATE SHALL BE 3/4" TO 1" MAXIMUM SIZE BUT NOT MORE THAN 1/4" OF MINIMUM CLEAR BAR SPACING.
ANCHOR BOLTS, DOWELS, REINFORCING STEEL & EMBEDDED ITEMS ARE TO BE SECURELY TIED IN PLACE BEFORE CONC. IS POURED.

REINFORCING STEEL

ALL REINFORCING STEEL SHALL BE BILLET STEEL PER ASTM A-615 GRADE 40.
WELDED REINFORCING STEEL SHALL CONFORM TO ASTM A-706, OR SHALL BE ASTM A-615 PREHEATED & WELDED PER AWS D1.4-79.

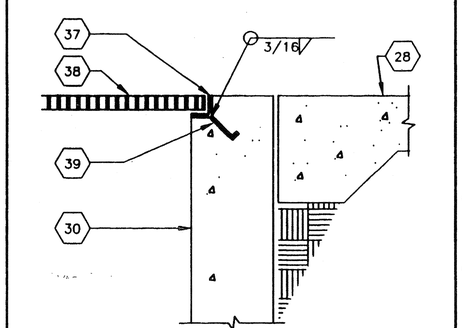
NOTE:

FOR FOOTINGS USING TRENCH FOR FORMING WIDTH SHALL BE INCREASED 2" EA. SIDE



SCALE: NTS

TYPICAL REINFORCING @ CORNER & INTERSECTIONS (12)



SCALE: NTS

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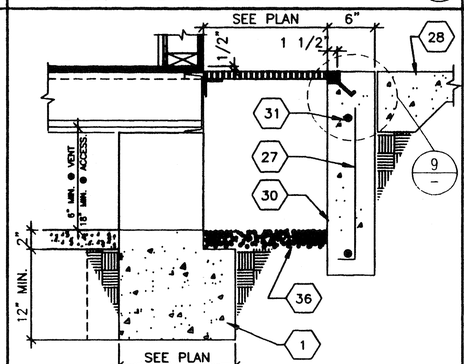
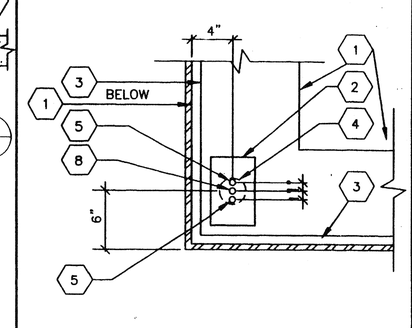
GRATING ANCHOR DETAIL (9)



SCALE: N.T.S.

ACCESS / VENT SECTION (6)



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

ANCHOR BOLT ⊙ CORNER (3)

REVISIONS			
1			
2			
3			
4			
5			
6			

Electrical Engineer's Seal

Mechanical Engineer's Seal

Structural Engineer's Seal
JAMES T. SIMONS
No 3602
STRUCTURAL
STATE OF CALIFORNIA
LICENSE EXPIRES 6-30-2000

Architects Seal

Division of the State Architect
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
PC 304
AC FLS SS
DATE FEB 2 3 1997

MODTECH INC.

MODTECH INC.
2830 BARRETT AVENUE
PERRIS, CALIF. 92572
PH (909) 943-4014
FAX (909) 940-0427

JOB# 2872

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP03 119149
AC FLS SS
DATE JAN 7 2019

LICENSED ARCHITECT
TROY JAY ADAY
No. C-23975
EXP. 2-29-96
STATE OF CALIFORNIA

drawn by: A.D.
date: 02-11-97
checked by:
date:
Modtech project no:

MODTECH Index No.

FB2.1

PROJECT NO.
PC-304

10/22/98

MATERIAL SCHEDULE

	NAME	SIZE	TYPE OR MFG. NAME		GRADE	COMMENTS
FLOOR	PERIMETER FRAME	C 7 X 9.8	STEEL CHANNEL	Fy = 36 KSI	ASTM A-36	
	JOIST	Z 6 3/8" X 2 1/2"	12 GA. STEEL ZEE	Fy = 55 KSI	ASTM A-570	WELDED TO 7" CHANNEL SEE FLOOR FRAMING PLAN FOR SPACING
	DECKING	1 1/8"	"STURDI-FLOOR" PLYWOOD		UNDERLAYMENT	PLYWOOD SHALL BE IN ACCORDANCE WITH PS 1-83.
	INSULATION	5 1/2"	FIBERGLASS UNFACED		R-11	
	BOTTOM BOARD		TRANSIT GUARD			FASTENED TO UNDERSIDE OF FLOOR JOIST
	COLUMN EXTERIOR	4" X 4"	1/4" THICK		ASTM A-500	GRADE B
	COLUMN INTERIOR	5 1/2" X 5 1/2"	1/4" THICK		ASTM A-500	GRADE B
EXTERIOR PARTITION	PLATES	2 X 4	DOUG-FIR LARCH		STD. OR BETTER	SINGLE TOP PLATE AND SINGLE BOTTOM PLATE
	STUDS	2 X 4	DOUG-FIR LARCH		STUD	AT 16" O.C. W/ DOUBLE STUD AT 48" O.C.
	EXTERIOR FINISH	5/8"	APA RATED SIDING		EXPOSURE 1	GROOVES AT 8" O.C.
	INTERIOR FINISH	1"	1/2" VINYL TACK BOARD OVER 1/2" GYPSUM BOARD			SEE FINISH SCHEDULE
	INSULATION	5 1/2"	FIBERGLASS UNFACED		R-11	
	STEEL STUDS (OPTIONAL)	5 1/2" X 1 1/2"	20 GA. STEEL CEE		ASTM A-446	
	STEEL TRACK (OPTIONAL)	5 1/2" X 1 1/2"	20 GA. STEEL CEE		ASTM A-446	WITH KNOCK OUTS AT 24" O.C.
INTERIOR PARTITION	PLATES	2 X 4	DOUG-FIR LARCH		STD. OR BETTER	SINGLE TOP PLATE AND SINGLE BOTTOM PLATE
	STUDS	2 X 4	DOUG-FIR LARCH		STUD	AT 16" O.C.
	INTERIOR FINISH	1"	1/2" VINYL TACK BOARD OVER 1/2" GYPSUM BOARD			SEE FINISH SCHEDULE
	STEEL STUDS (OPTIONAL)	3 1/2" X 1 1/2"	20 GA. STEEL CEE		ASTM A-446	
	STEEL TRACK (OPTIONAL)	3 1/2" X 1 1/2"	20 GA. STEEL CEE		ASTM A-446	WITH KNOCK OUTS AT 24" O.C.
ROOF	PURLINS	Z 6" X 2 1/2"	14 GA. STEEL ZEE	Fy = 55 KSI	ASTM A-570	WELDED TO ROOF BEAM AT 48" O.C.
	BEAM	[14"/2I 1/2"/14" X 4"	10 GA. STEEL CEE	Fy = 40 KSI	ASTM A-36	WELDED TO COLUMN
	HEADER	[14" X 4"	12 GA. STEEL CEE	Fy = 36 KSI	ASTM A-36	
	DECKING	5/4"	PLYWOOD		CDX	PLYWOOD SHALL BE IN ACCORDANCE WITH PS 1-83 EXPOSURE 1 P.I.1 48/24
	INSULATION	5 1/2"	FIBERGLASS UNFACED		R-19	
	ROOFING	26 GA.	STANDING SEAM STEEL PANELS		CLASS "A"	INSTALL PER DRAWINGS
	ROOFING (OPTIONAL)	30 GA.	STANDING SEAM STEEL PANELS		CLASS "A"	INSTALL PER DRAWINGS

LICENSED ARCHITECT TROY JAY ADAY No. C-23975 REN. 2-29-98 STATE OF CALIFORNIA

10/22/98

REVISIONS	ELECTRICAL	MECHANICAL	STRUCTURAL	ARCHITECT	DIVISION OF THE STATE ARCHITECT
			REGISTERED PROFESSIONAL ENGINEER JAMES T. SIMPSON No. 3602 STRUCTURAL STATE OF CALIFORNIA LICENSE EXPIRES 6-30-2000		IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES PC 304 AC. FLS. SS. DATE JAN 2 1 1997

MODTECH INC,

MODTECH INC.
2830 BARRETT AVE.
PERRIS, CA. 92572
PH. (909) 943-4014
FX. (909) 940-0427

JOB NO: 2872

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APP03 119149 AC. FLS. SS. DATE JAN 7 2013

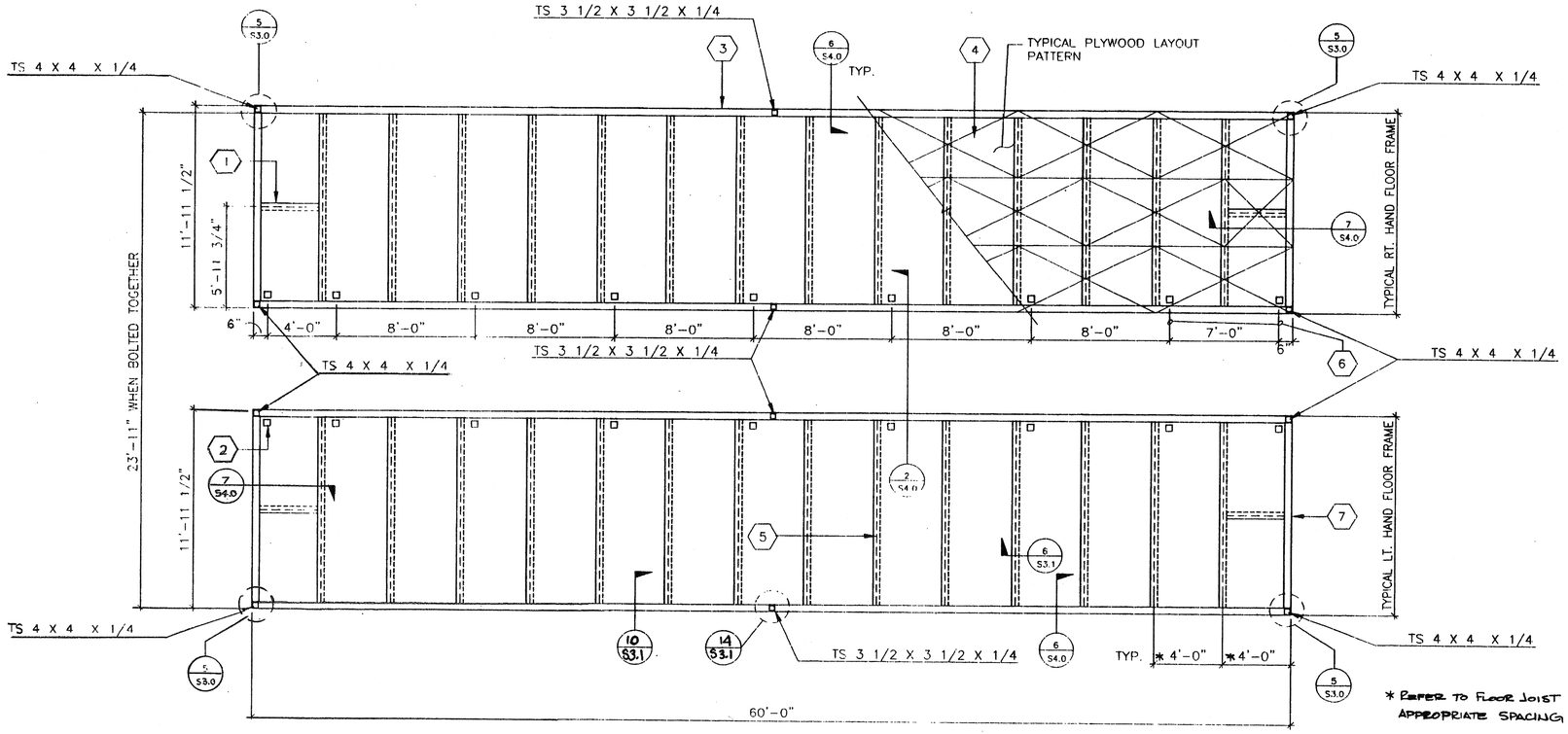
DRAWN BY RN
DATE 10-4-96
CHECKED BY
DATE

MATERIAL SCHEDULE

S0.1

FLOOR JOIST TABLE

LIVE LOAD	STANDARD	ALTERNATE
50 P.S.F.	⌐ 6 3/8"X2 1/2"X12GA.	⌐ 6 3/8"X2 1/2"X14GA.
50 P.S.F. W/ 20 P.S.F. PARTITIONS	48" O.C.	32" O.C.
100 P.S.F.	32" O.C.	24" O.C.
125 P.S.F.	24" O.C.	16" O.C.
	16" O.C.	12" O.C.



* REFER TO FLOOR JOIST TABLE FOR APPROPRIATE SPACING PER PROJECT.

KEY NOTES

1. ⌐ 6 3/8 X 2 1/2 X 12GA. BLOCKING AT MIDSPAN OF FLOOR HDR. TYPICAL
2. 5" SQ. HAND HOLES AT BOLT BM TO BM (18 PLACES)
3. C 7X9.8 PERIMETER CHANNEL (TYPICAL)
4. PLYWOOD FLOOR SHEATHING: APA PS 1-83 1 1/8" THICK, STURD-I-FLOOR W/48" O.C. SPAN RATING. ATTACHED W/#10 X 1 3/4" SELF-TAPPING FLAT HEAD SCREWS AT 6" O.C. TO PERIMETER FRAME, AEROSMITH AKN 144.0175 DRIVE PINS AT 6" O.C. SUPPORTED EDGES AND 6" O.C. FIELD TO JOIST. (TYPICAL)
5. 6 3/8 X 2 1/2 X 12GA. FLOOR JOIST @ 48" O.C.
6. TYPICAL BOLT HOLE LOCATION (SEE 2/S4.0)
7. 11/16ø HOLE @ MID DEPTH FOR HANDLING TYPICAL FOR (4) FOUR.

NOTE

FOR CONCRETE FOUNDATIONS SEE SHEETS F1.1A, F1.1B & F1.1C FOR LOCATION OF FLOOR FRAME FOUNDATION ANCHOR PLATES. SEE DETAIL 12/S3.1

LICENSED ARCHITECT TROY JAY KOW NO. C-23975 REN. 2-28-99 STATE OF CALIFORNIA

10/22/98

FLOOR FRAMING PLAN

OPTIONS A-B-C

FLOOR LIVE LOAD - 50 PSF

SCALE 1/4"=1'-0"

ARCHITECT	ELECTRICAL	STRUCTURAL	MECHANICAL	FIRE MARSHAL	ACCESS COMPLIANCE	STRUCTURAL SAFETY
		REGISTERED PROFESSIONAL ENGINEER JAMES T. SIMPSON No. 3602 STRUCTURAL STATE OF CALIFORNIA LICENSE EXPIRES 6-30-2000				IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES PC 304 AC FLS SS DATE JAN 2 1 1997

MODTECH INC,

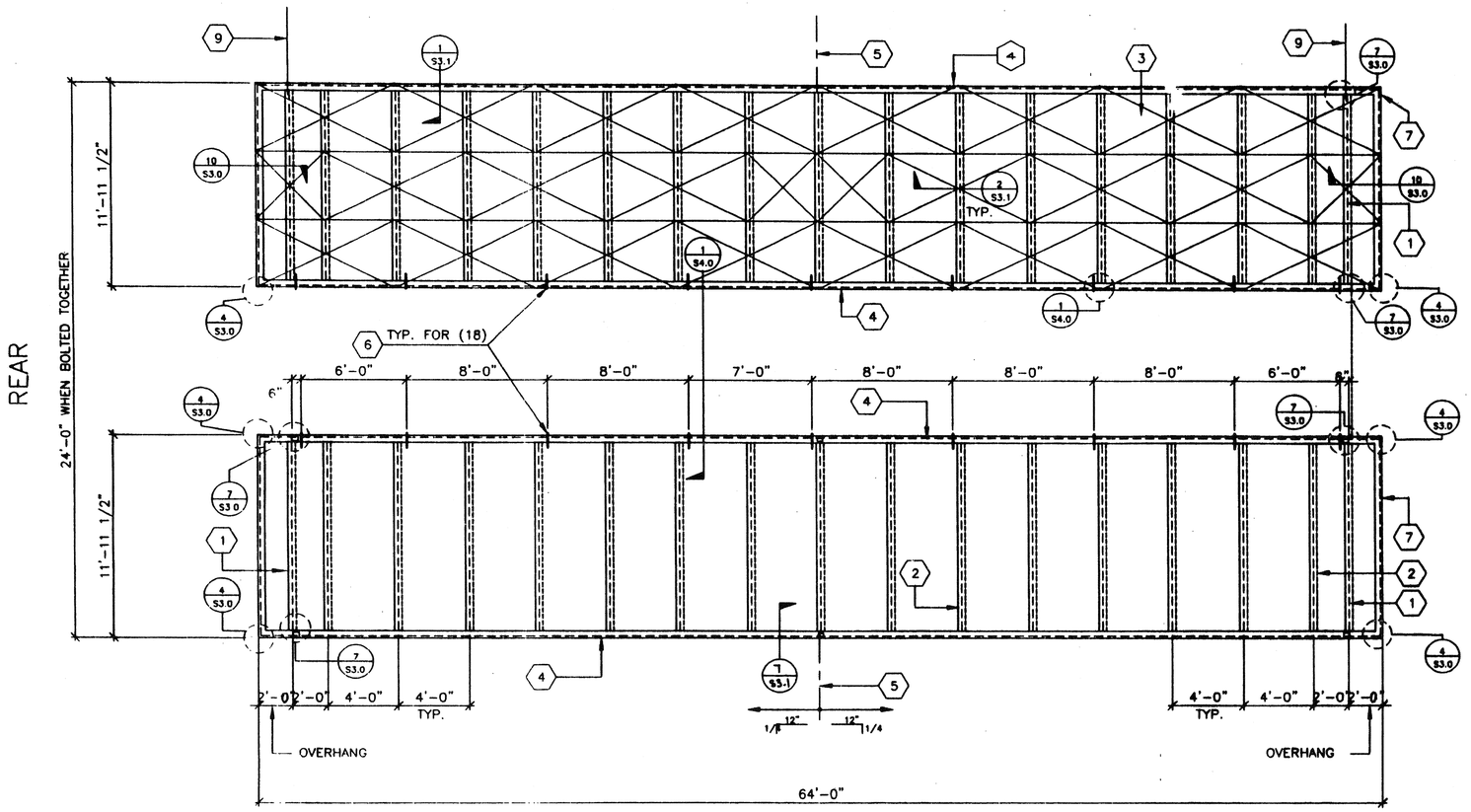
JOB # 2872

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APP03 119149 AC FLS SS DATE JAN 7 2019

DRAWN BY RS
DATE 9-12-96
CHECKED BY
DATE

FLOOR FRAMING PLAN S1.0

JOB NO. PC-304



KEY NOTES

1. 14 X 4 X 12 GA [HEADER
2. 6"X2 1/2X14 GA. PURLIN AT 48" O.C.
   ALTERNATE:
   4 1/2"X2 1/2X12 GA. PURLIN AT 48" O.C.
3. PLYWOOD ROOF SHEATHING 3/4" CD EXPOSURE 1 P.I.I 48/24 PSI-83 PLYCLIPS AT 16" O.C. LONG EDGES. #10-1-1/4" SELF TAPPING FLAT HEAD SCREWS AT 6" O.C. TO PERIMETER FRAME. AEROSMITH AKN 144.0125 DRIVE PINS @ 6" O.C. @ SUPPORTED EDGES AND 6" O.C. FIELD TO PURLINS. PLYWOOD PATTERN SHOWN IS TYPICAL THRU OUT.
   (ALTERNATE: USE AEROSMITH AKN144.0175 DRIVE PINS @ 6" O.C. PERIMETER.)
4. TAPERED ROOF BEAM 10GA. SEE 7/S3.1 [
5. RIDGE-LINE
6. 11/16" ø DRILL SEE DETAIL 1/S4.0
7. [13 1/2"X14GA. FACIA @ 2'-0" OVERHANG
8. [12 3/4"X14GA. FACIA @ 5'-0" OVERHANG
9. E.N. THIS LINE

ROOF FRAMING PLAN OPTIONS "A" & "B" & "C"

SCALE 1/4=1'-0"

LICENSED ARCHITECT TROY JAY ADAM No. C-23975 EXPIRES 2-29-98 STATE OF CALIFORNIA

10/22/98

ARCHITECT	ELECTRICAL	STRUCTURAL	MECHANICAL	FIRE MARSHAL	ACCESS COMPLIANCE	STRUCTURAL SAFETY
		REGISTERED PROFESSIONAL ENGINEER JAMES T. BIRD No. 26026 STRUCTURAL STATE OF CALIFORNIA LICENSE EXPIRES 6-30-2000				IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES PC 304 AC FLS SS STATE MAR 8 4 2000

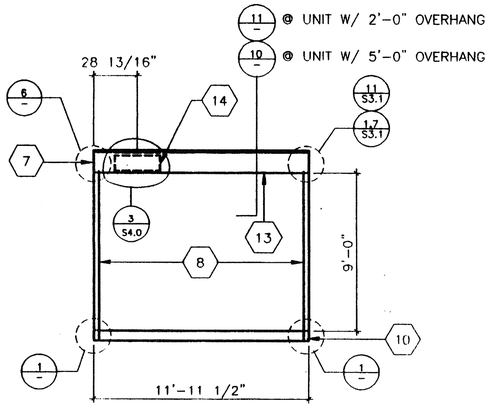
MODTECH INC.

JOB # 2872

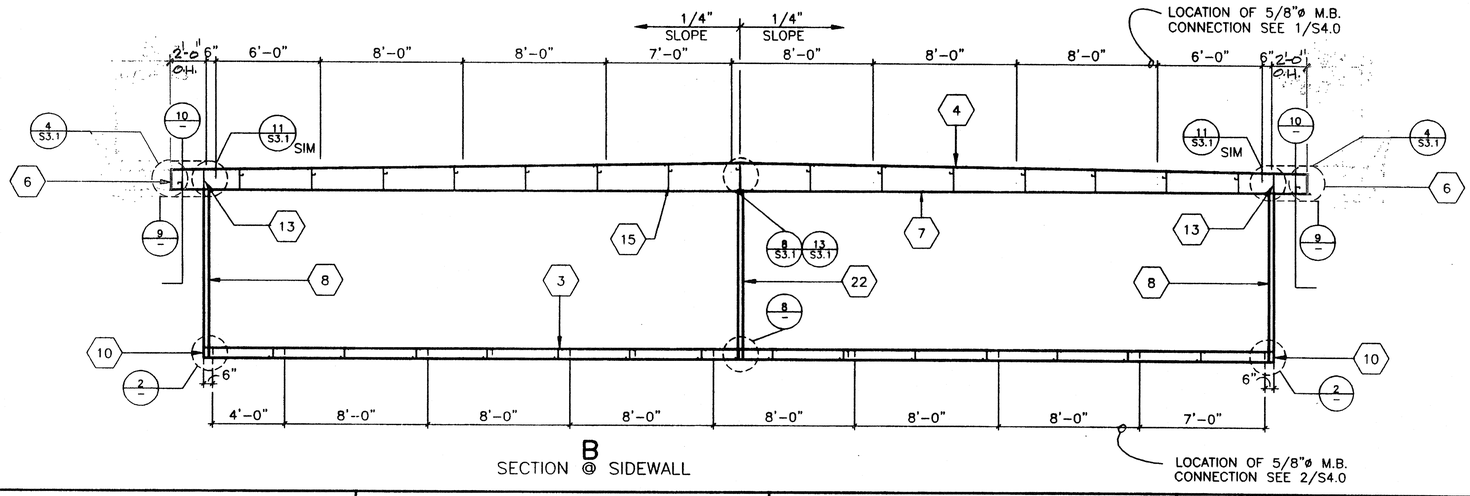
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP03 119149
AC FLS SS
DATE JAN 7 2010

DRAWN BY RS
DATE 9-17-96
CHECKED BY
DATE

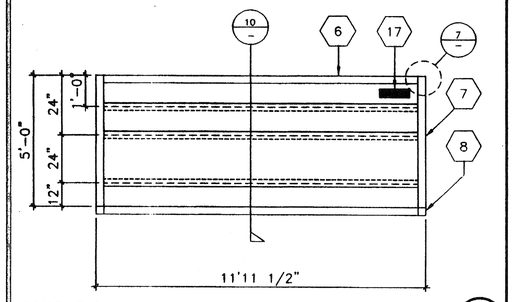
ROOF FRAMING PLAN S2.



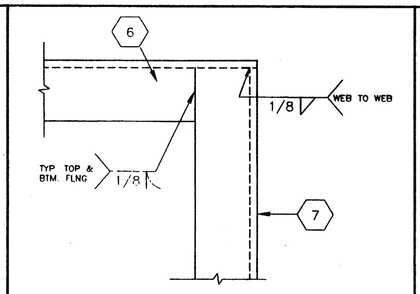
A
SECTION @ ENDWALL



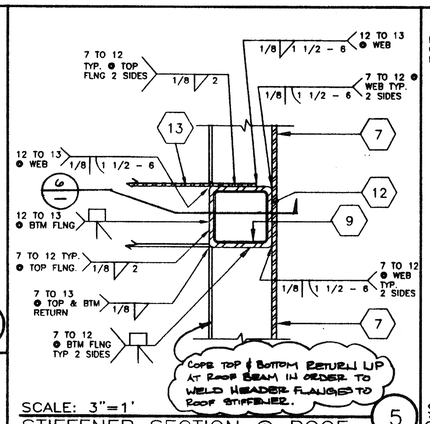
B
SECTION @ SIDEWALL



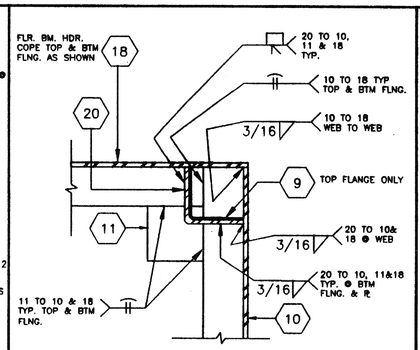
SCALE: 3/8"= 1'-0"
ENCLOSED SOFFIT PLAN 9



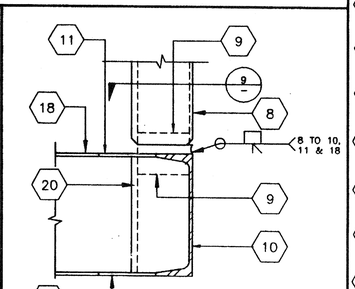
SCALE: 3"=1'
PLAN @ ROOF OVERHANG 7



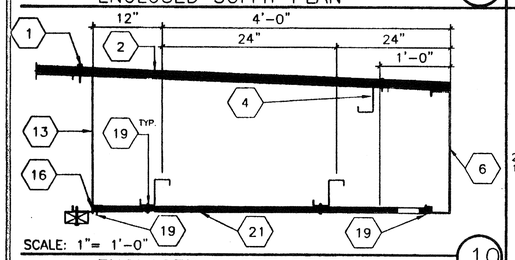
SCALE: 3"=1'
STIFFENER SECTION @ ROOF 5



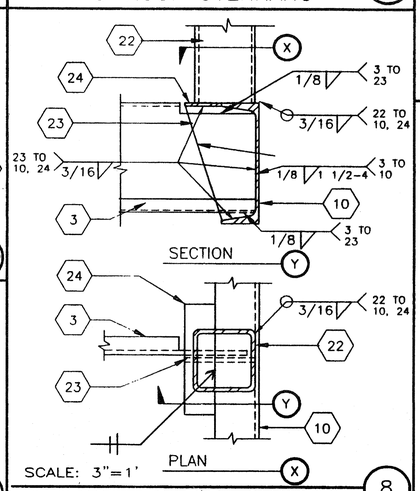
NOTE: SEE DETAIL 12/S3.1 FOR ANCHOR PL @ CONCRETE FOUNDATION
SCALE: 3"=1'
STIFFENER SECTION @ FLOOR 3



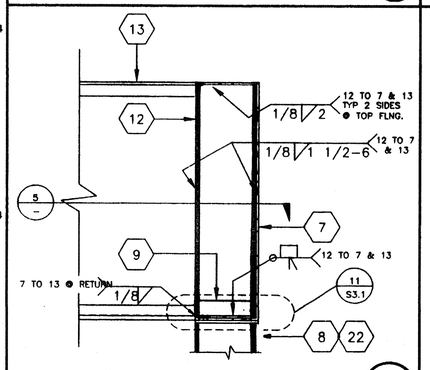
NOTE: SEE 2/S3.0 FOR ADDITIONAL INFORMATION
SCALE: 3"=1'
COLUMN CONN. @ FLOOR 1



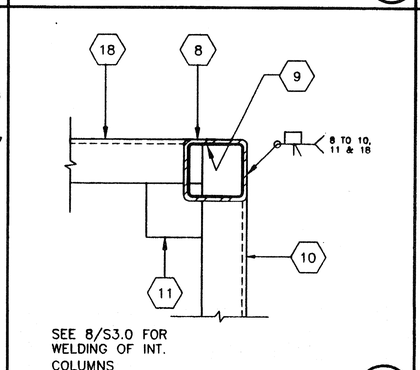
SCALE: 1"= 1'-0"
ENCLOSED SOFFIT SECTION 10



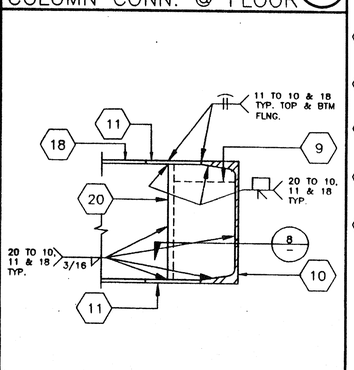
SCALE: 3"=1'
INT. COL. TO FLR. CHANNEL 8



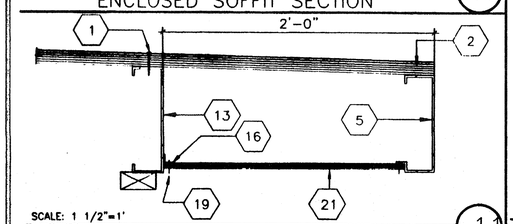
SCALE: 3"=1'
COLUMN CONN. @ ROOF 6



SEE 8/S3.0 FOR WELDING OF INT. COLUMNS
SCALE: 3"=1'
COLUMN @ FLOOR 4



SCALE: 3"=1'
COL. CONN. @ FLOOR 2



ENCLOSED SOFFIT SECTION 11

KEY NOTES

1. EN @ PLYWOOD EDGES
2. PLYWOOD ROOF SHEATHING
3. 6 3/8"X2 1/2"X12GA. FLR. JOIST 6/S3.1
4. 6X2 1/2"X14GA. ROOF PURLIN 2/S3.1
5. [13 1/2"X4"X14GA. FACIA 4/S3.1 AT 2'-0" OVERHANG
6. [12 3/4"X4"X14GA. FACIA 4/S3.1 AT 5'-0" OVERHANG
7. [10 GA. TAPERED ROOF BEAM (SEE 7/S3.1) OR 1/S3.1 REFER TO RF. FRAMING PLAN
8. 4"X4"X1/4" COLUMN. ENDS
9. BACK-UP PLATE MIN. 10 GA.
10. [7X9.8 FLOOR CHANNEL
11. 3 1/2"X3 1/2"X1/4" STEEL PLATE WELDED FLUSH TO TOP AND BOTTOM OF CHANNEL FLANGES
12. SECTION OF 4"X4"X1/4" TUBE STEEL COPE TO FIT ROOF BEAM
13. FASCIA HEADER SEE 4/S3.1
14. LOCATION OF HVAC
15. 10 GA. FULL DEPTH STIFFNER PLATE AT 4'-0" O.C. ALIGN W/ & WELDED TO PURLIN
16. 1/2"X 1 1/2"X16 GA.< TACK WELD IN PLANT
17. SCREENED VENT OPENING (4"X14")
18. [7X9.8 FLOOR HEADER
19. #10 STSMS @ 6" O.C. TYP. @ EN & 12" OC. FN (ALT. AEROSMITH AKN 144.0175 DRIVE PIN)
20. 4"X4"X1/4" TUBE STEEL CUT TO FIT FLOOR BEAM
21. SOFFIT PLYWOOD
22. 3 1/2"X3 1/2"X1/4" COLUMN. SIDEWALL AND MODULE LINE
23. 1/4" GUSSETT PLATE CENTER ON COLUMN
24. 3 1/2"X6"X1/4" STEEL PLATE WELDED FLUSH TO TOP OF CHANNEL FLANGE

LICENSED ARCHITECT TROY JAY ADAY No. C-23975 REN. 2-29-99 STATE OF CALIFORNIA
10/22/98

REVISIONS	ELECTRICAL	MECHANICAL	STRUCTURAL	ARCHITECT	DIVISION OF THE STATE ARCHITECT
			REGISTERED PROFESSIONAL ENGINEER JAMES T. SIMPSON No. 5602 STRUCTURAL STATE OF CALIFORNIA LICENSE EXPIRES 6-30-2000		IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES PC 304 AC FLS SS DATE JAN 21 1997

MODTECH INC.
MODTECH INC.
2830 BARRETT AVE.
PERRIS, CA. 92572
PH. (909) 943-4014
FX. (909) 940-0427

JOB NO: 2872

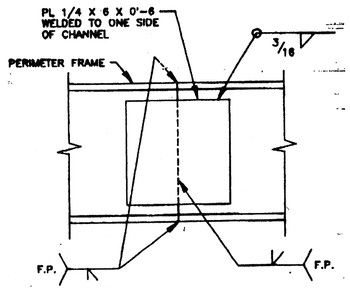
IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT
APP03 119149
AC FLS SS
DATE JAN 2 1 2019

DRAWN BY
DATE 1-13-97
CHECKED BY
DATE

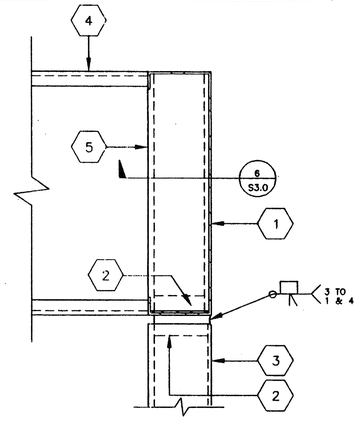
FRAMING ELEVATIONS AND DETAILS

S3.0

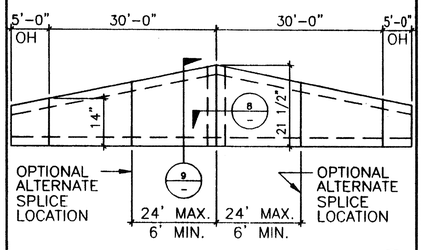
JOB NO: PC-304



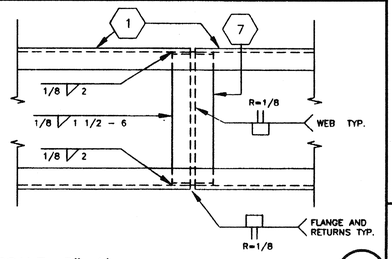
SCALE: NTS
PERIMETER FLOOR FRAME SPLICE (14)



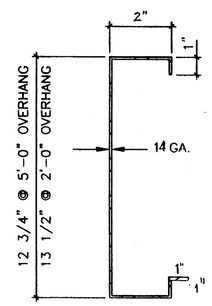
SCALE: 3"=1' SEE 5/S3.0
COLUMN CONN. @ ROOF (11)



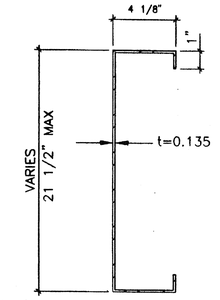
SCALE: NTS
FASCIA @ SIDEWALL (7)



SCALE: 3"=1'
BEAM SPLICE (8)

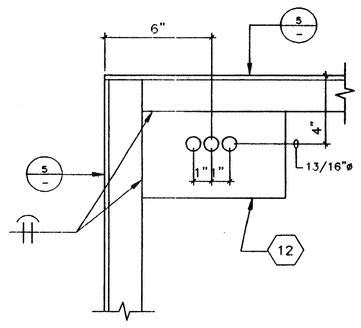


SCALE: 3"=1'
FASCIA @ OVERHANG (4)

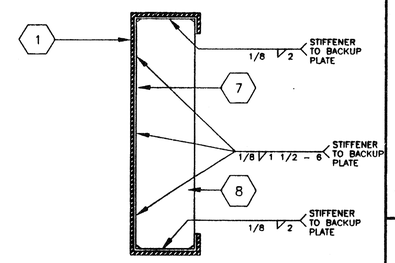


CHANNEL	Sx	Ix
14X4 1/8X10GA.	12.289 IN3	86.022 IN4
17 3/4X4X10GA.	17.16 IN3	152.298 IN4
21 1/2X4X10GA.	22.665 IN3	243.651 IN4

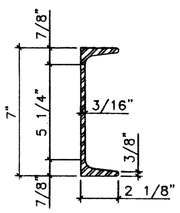
SCALE: 3"=1'
ROOF BEAM (1)



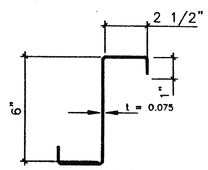
SCALE: 3"=1'
ANCHOR PLATE @ CONC. FOUND. (12)



SCALE: 3"=1'
BEAM SPLICE W/STIFFENER (9)



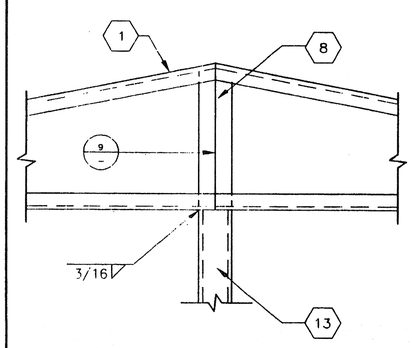
SCALE: 3"=1'
FLOOR BEAM C7X9.8 (5)



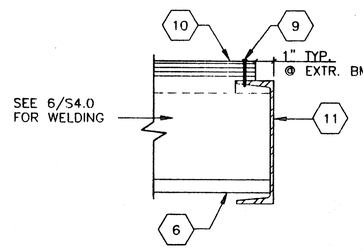
Sx:1.758 IN3
Ix: 5.274 IN4

Sx: 1.544 IN3
Ix: 3.088 IN4

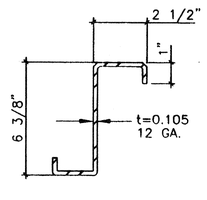
SCALE: 3"=1'
ROOF PURLIN (2)



SCALE: NTS
MID TS COL. TO ROOF BEAM (13)



SCALE: 3"=1'
FLOOR @ FLOOR BEAM (10)

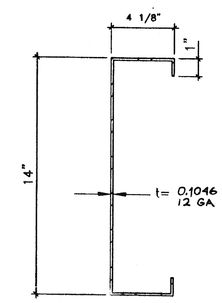


Sx:2.613 IN.3
Ix: 8.328 IN4
A:1 IN4

Sx:2.525 IN3
Ix: 8.049 IN4

ALTERNATE " [" 12GA. SAME PHYSICAL PROPERTIES & DIMENSIONS

SCALE: 3"=1'
FLOOR JOIST (6)



Sx: 9.686 IN3
Ix: 67.801 IN4

SCALE: 3"=1'
ROOF HEADER (3)

KEY NOTES

1. 10GA. TAPERED RF. BM. SEE 1/S3.1 & 7/S3.1
2. BACK-UP PLATE MIN. 10GA.
3. 4"X4"X1/4" COLUMN
4. C 14"X12GA. RF. HDR. SEE 3/S3.1
5. 4"X4"X1/4" TUBE COPE TO FIT RF. BM.
6. FLOOR JOIST SEE 6/S3.1
7. 10GA. BENT PLATE BACK-UP
8. 10 GA. STIFFENER @ 4'-0" O.C.
9. #10 STSMS @ 6" O.C. (SEE S1.0 4)
10. PLYWOOD FLR. SHEATHING
11. FLOOR BEAM SEE 5/S3.1
12. 5"X8"X1/4"?
13. 3 1/2"X3 1/2"X1/4" COLUMN

LICENSED ARCHITECT TROY JAY ABBY REG. NO. C-23975 EXPIRES 2-28-99 STATE OF CALIFORNIA

10/22/98

REVISIONS	ELECTRICAL	MECHANICAL	STRUCTURAL	ARCHITECT	DIVISION OF THE STATE ARCHITECT
			REGISTERED PROFESSIONAL ENGINEER JAMES T. SIMPSON No. 3602 STRUCTURAL STATE OF CALIFORNIA LICENSE EXPIRES 6-30-2000		IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES PC 304 AC FLS SS DATE JAN 2 1 1997

MODTECH INC,

MODTECH INC.
2830 BARRETT AVE.
PERRIS, CA. 92572
PH. (909) 943-4014
FX. (909) 940-0427

JOB NO: 2672

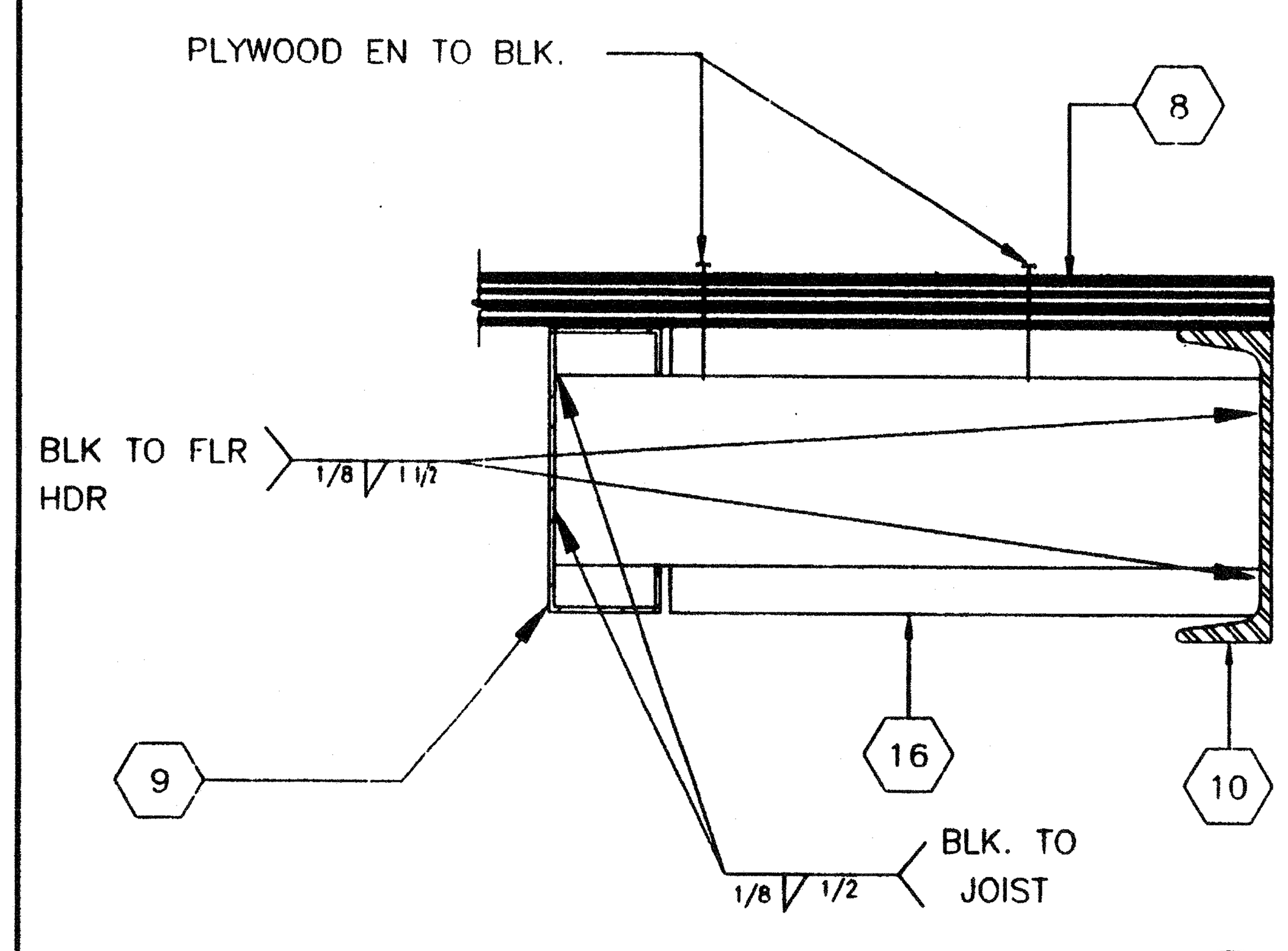
IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APP03 119149 AC FLS SS DATE JAN 7 2019

DRAWN BY RS
DATE 9-12-96
CHECKED BY
DATE

STRUCTURAL DETAILS

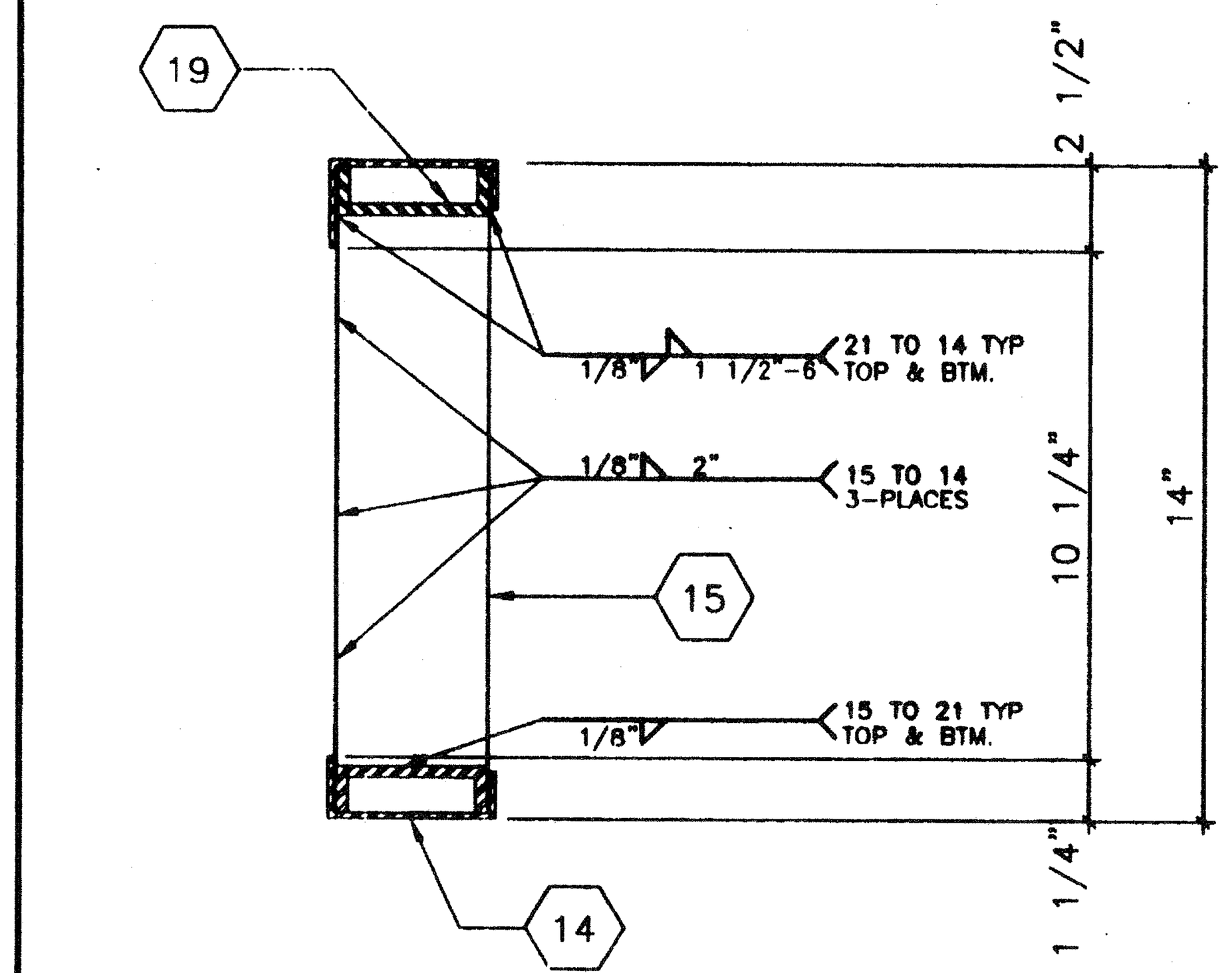
S3.1

JOB NO. PC-304



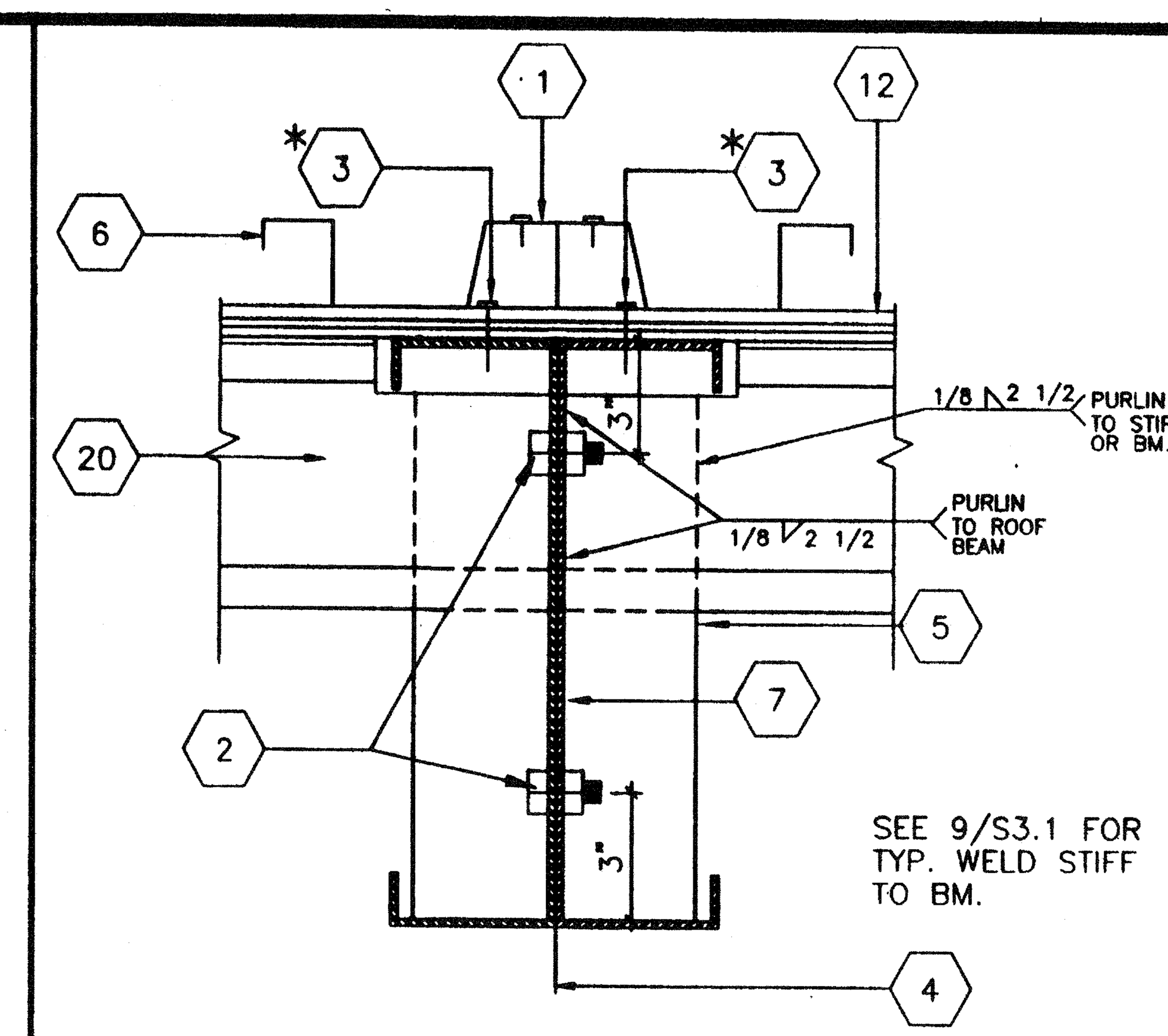
SCALE: 3"=1'

BLOCK @ MIDSPAN 7



SCALE: 3"=1'

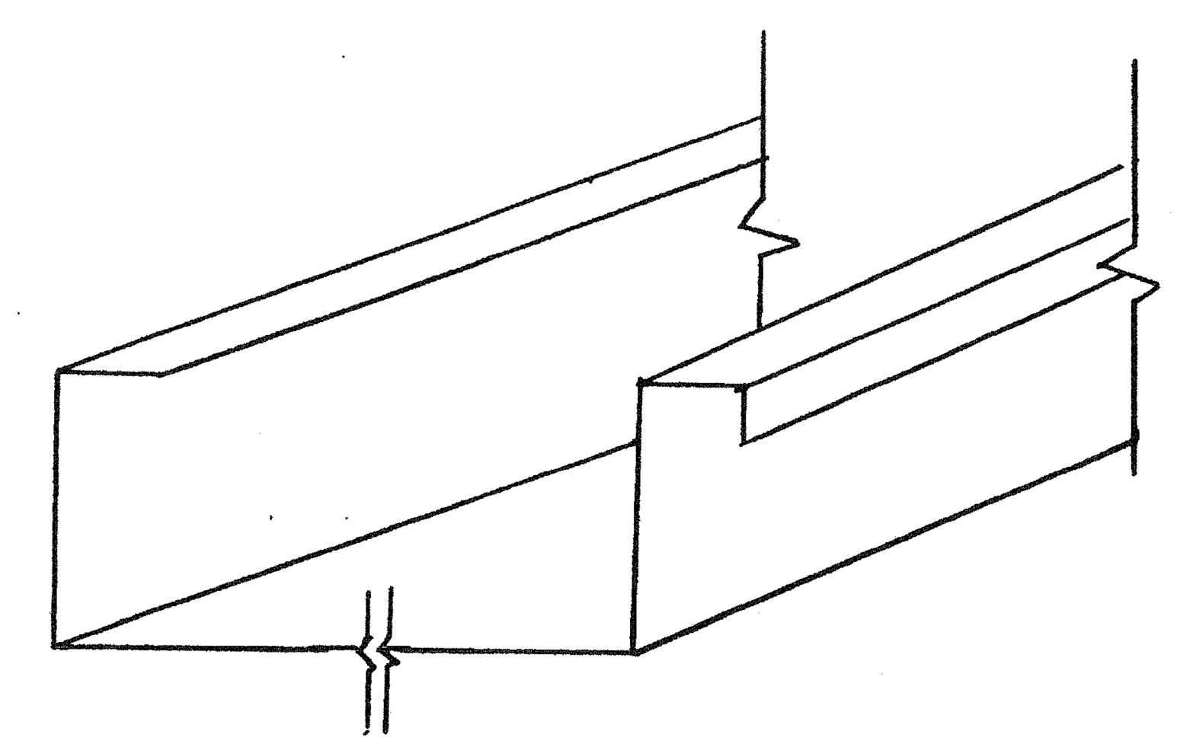
MECH. DUCT OPENING IN HEADER 4



* DO NOT PENETRATE MT'L RF. DECK

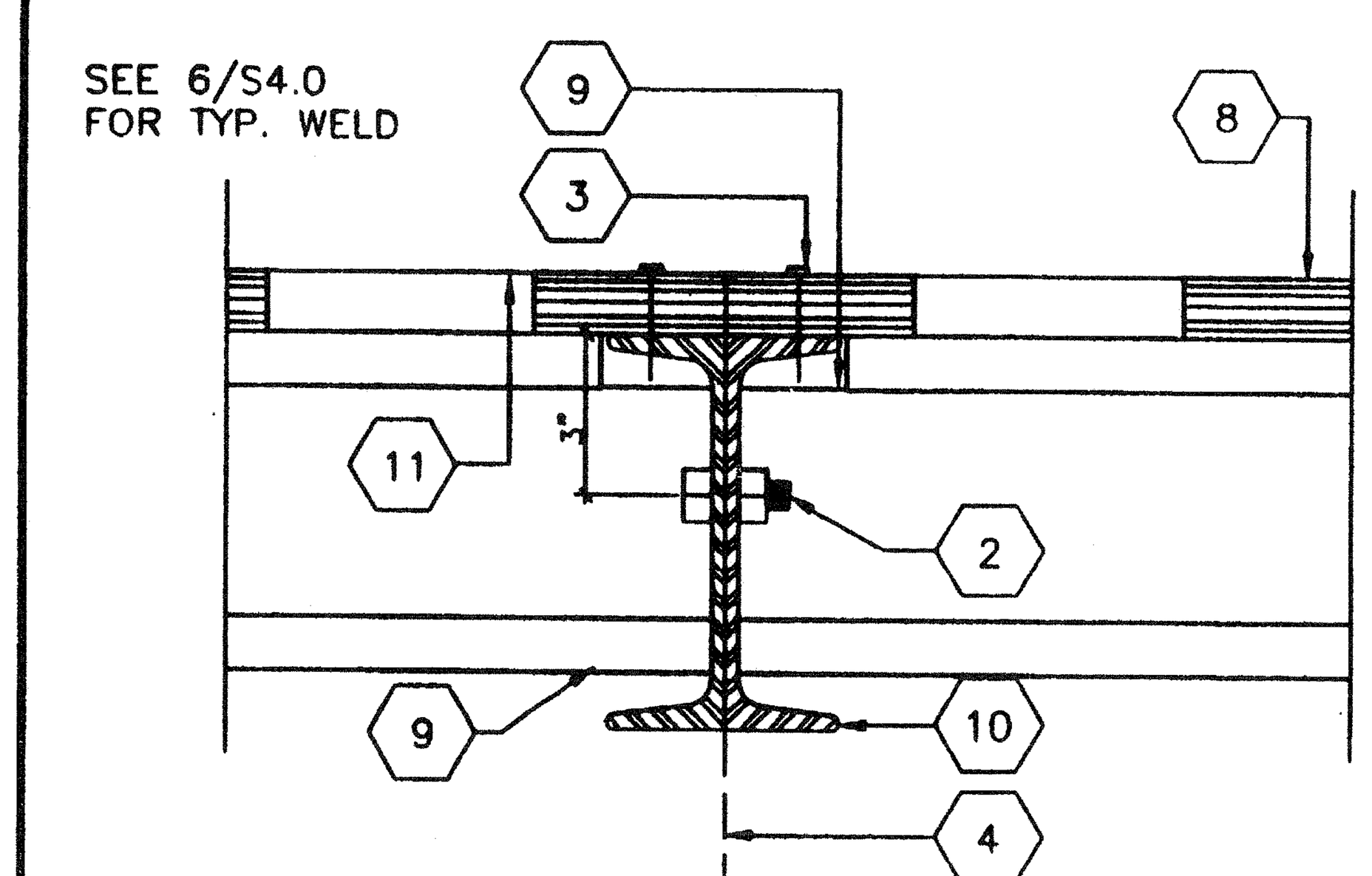
SCALE: 3"=1'

ROOFING @ MODLINE 1



SCALE: NTS

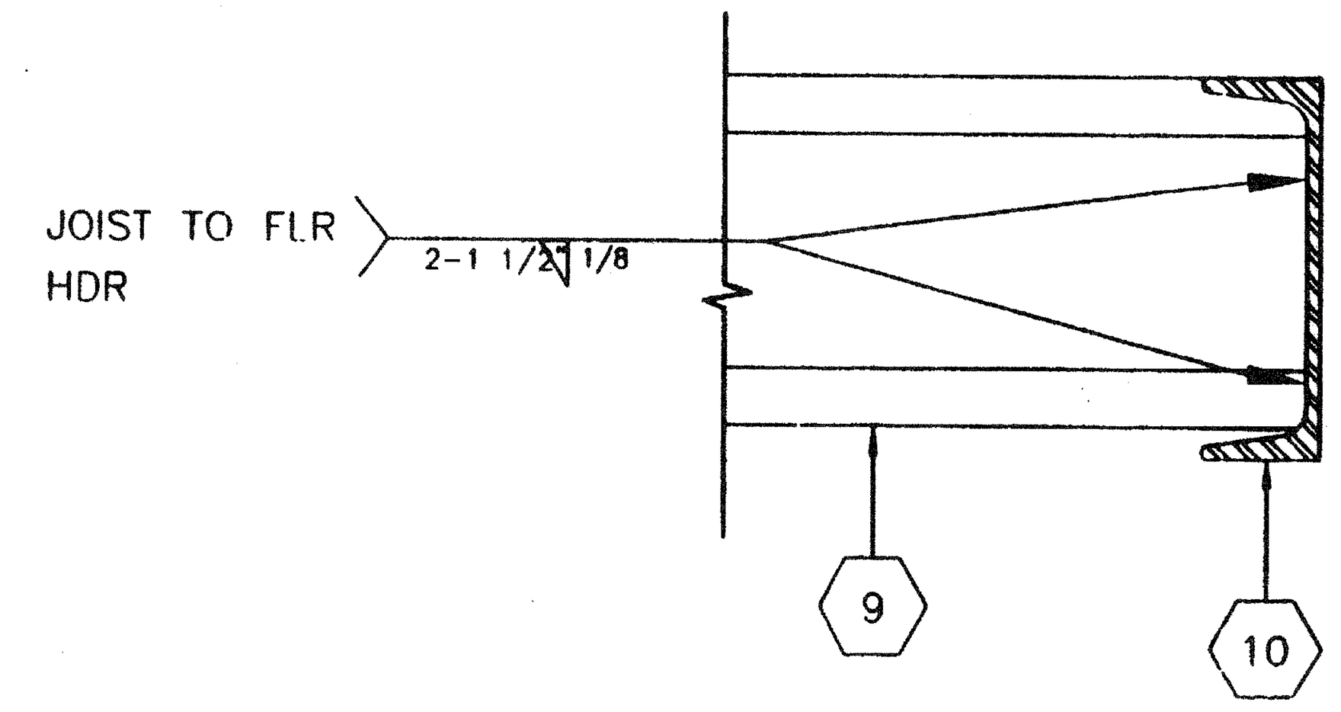
ROOF PAN (26GA.) 5



SCALE: 3"=1'

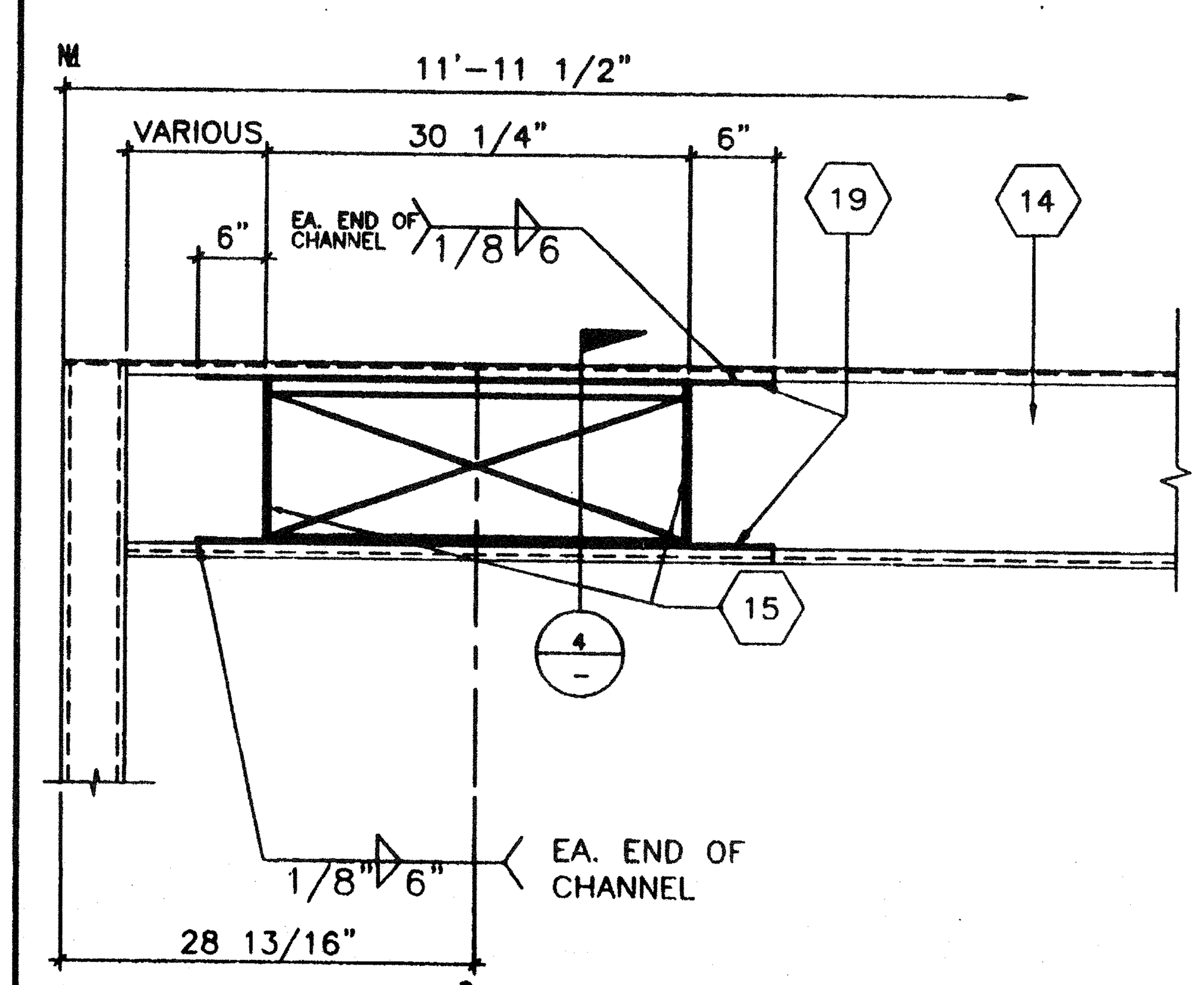
MODULE JOINT @ FLR. 2

8



SCALE: 3"=1'

FLOOR FRAME/JOIST TO BEAM 6



SCALE: 1"=1'

ELEVATION-OPENING 3

9

KEY NOTES

1. CAP CLOSURE @ RIDGE 26GA. GALV. W/#10 TYPE FASTENERS W/NEOPRENE WASHERS TO RIB BOTH SIDES OF MODLINE. SET CAP IN SEALANT SEE DETAIL-
2. 5/8" M.B. A307 MODULE JOINT (SEE STRUCTURAL PLAN FOR LOCATION) @ 8' O.C.
3. E.N.
4. MODULE JOINT
5. 1/4" @ 8' O.C. FULL DEPTH STIFFENER PLATE (SEE 9/S3.1)
6. STANDING ROOF SEAM (SEE ROOF PLAN)
7. ROOF BEAM (SEE STRUCTURAL) SEE 1/S3.1
8. PLYWOOD FLOOR SHEATHING
9. FLOOR JOIST 6/S3.1
10. FLOOR BEAM (SEE STRUCTURAL 5/S3.1)
11. HAND HOLE @ BOLT LOCATION (5" SQ.)
12. PLYWOOD ROOF SHEATHING
13. 4"X4"X1/4" STEEL TUBE COLUMN
14. ROOF HEADER (SEE STRUCTURAL 3/S3.1)
15. 1/4" STIFFENER PLATE SEE 9/S3.1 FOR TYP WELD
16. "C" BLOCKING SEE 6/S3.1
17. 10GA. BACK-UP PL
18. 2"X2"X3/16" ∠
19. 3 3/4"X1"X12GA. REINFORCING CHANNEL TOP & BOTTOM OF FLANGES
20. ROOF PURLIN SEE 2/S3.1
21. TUBE STEEL (SEE NOTE #13)
22. ROOF BEAM AT OVERHANG
23. 1/4" PLATE

LICENSED ARCHITECT TROY JAY AUNE NO. C-23975 REN. 2-2000 STATE OF CALIFORNIA

10/22/98

ARCHITECT	ELECTRICAL	STRUCTURAL	MECHANICAL	FIRE MARSHAL	ACCESS COMPLIANCE	STRUCTURAL SAFETY
		LICENSE EXPIRES 6-30-2000				PC 304 AC FLS SS DATE JAN 2 1 1997

MODTECH INC,

JOB # 2872

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT

APP03 119149

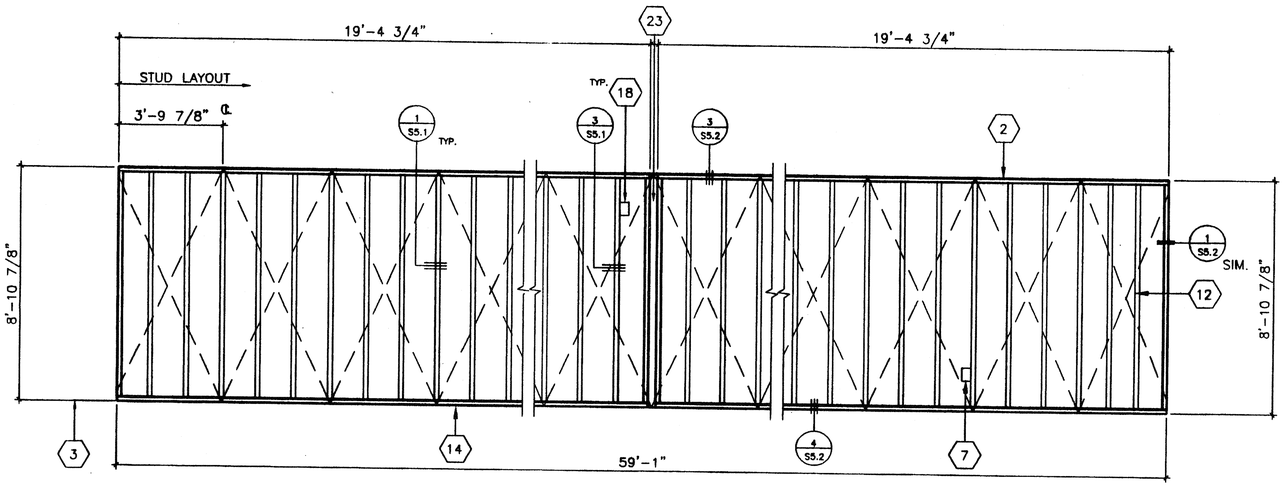
AC FLS SS
DATE JAN 7 2000

DRAWN BY KA&A
DATE 9-12-96
CHECKED BY
DATE

STRUCTUAL DETAILS

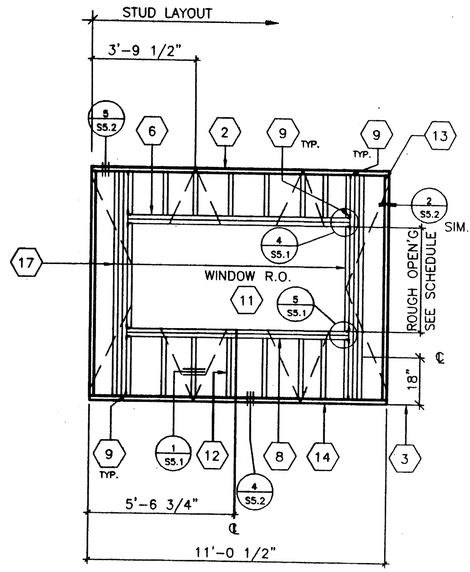
S4.0

JOB NO. PC-304



A

A$_1$ OPPOSITE HAND



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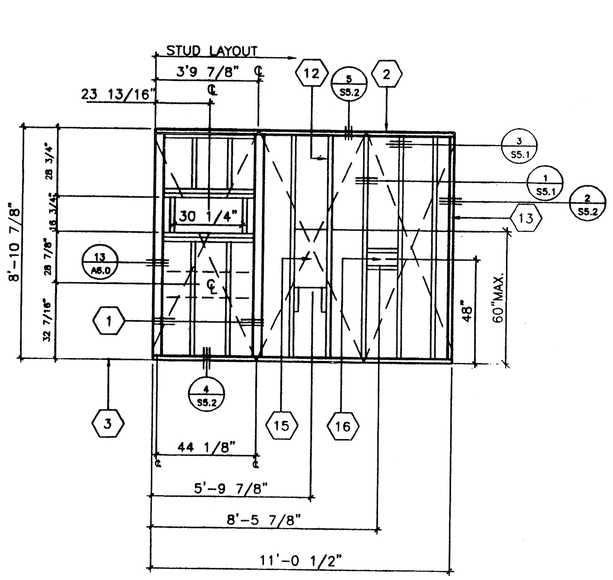

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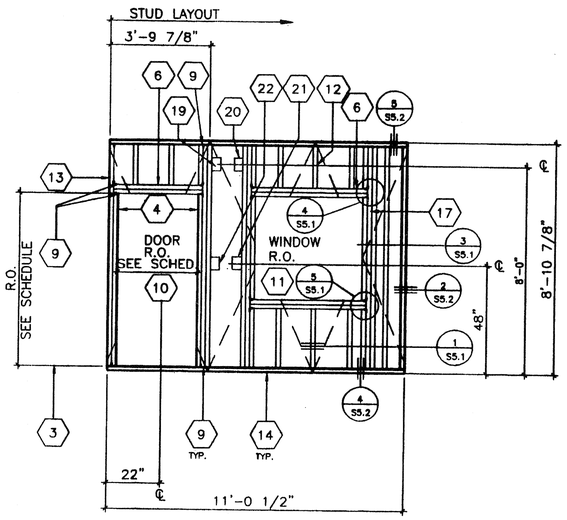

D

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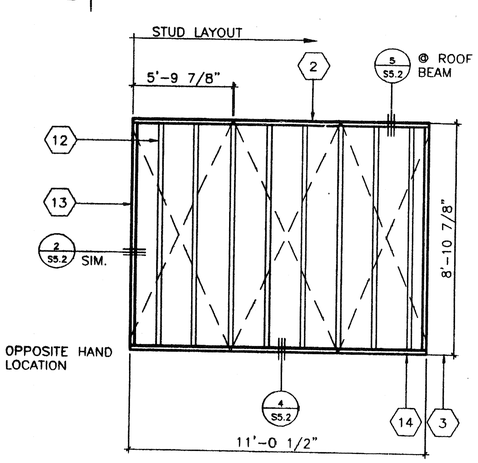


E

SCALE 3/8"=1'

KEY NOTES

1. 4 X 4 POST
2. 2X4 TOP PLATE
3. FINISH FLOOR
4. 2X4 FULL HGT. KING STUDS AND 2X4 TRIMMER (SEE SCHEDULE FOR QUANTITY SHT S5.1)
5. NOT USED
6. HEADER (SEE SCHEDULE)
7. DUPLEX OUTLET BOX
8. WINDOW SILL PLATE (SEE SCHEDULE)
9. A 34 CLIPS @ HEADER & SILL TO FULL HGT. STUDS AND FULL HGT. STUDS TO TOP AND BOTTOM PLATES
10. REQUIRED OPENING FOR A 3068 DOOR (SEE DETAIL 7/S5.1)
11. REQUIRED OPENING FOR WINDOW (SEE DETAIL 6,12/S5.1)
12. 2X4 STUD @ 16" O.C. TYPICAL
13. 2X4 NAILER TYPICAL @ EACH END
14. 2X4 SILL PLATE
15. FRAME FOR ELECTRICAL PANEL
16. THERMOSTAT LOCATION 4S BOX
17. FULL HGT. STUDS AND 1-2X4 TRIMMER (SEE WINDOW SCHEDULE FOR JAMB STUDS REQUIRED SHT. S5.1)
18. CLOCK OUTLET +90" AFF
19. "J" BOX FOR EXTERIOR LIGHT FIXTURE (TO EXTERIOR)
20. FIRE HORN (TO EXTERIOR)
21. FIRE PULL STATION (TO INTERIOR)
22. LIGHT SWITCH BOX
23. 3 1/2 X 3 1/2 X 1/4 TS COLUMN

LICENSED ARCHITECT TROY JAY ADAM C-23975 REN. 2-28-99 STATE OF CALIFORNIA

10/22/98

REVISIONS	ELECTRICAL	MECHANICAL	STRUCTURAL	ARCHITECT	DIVISION OF THE STATE ARCHITECT
			REGISTERED PROFESSIONAL ENGINEER JAMES T. [illegible] No. 22[illegible] STRUCTURAL CALIFORNIA LICENSE EXPIRES 6-30-2000		IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES PC 304 AC. FLS SS DATE JAN 2 1 1997

MODTECH INC.

MODTECH INC.
2830 BARRETT AVE.
PERRIS, CA. 92572
PH. (909) 943-4014
FX. (909) 940-0427

JOB NO: 2512

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APP# 119149 AC. FLS SS DATE JAN 1 2019

DRAWN BY
DATE
CHECKED BY
DATE 9-12-96

WALL FRAMING

S5.0

JOB NO. PC-304

OPENING SCHEDULE

OPENING	HDR.	SILL	JAMB	ROUGH OPENING HEIGHT	ROUGH OPENING WIDTH
3068	(4) 2X4		(4) 2X4	81 1/4"	38"
4040	4X4	(2) 2X4	(2) 2X4	48 1/8"	48 1/8"

ALTERNATE: METAL STUD 24 HDS350 IN LIEU OF 2X4 WD. STUDS

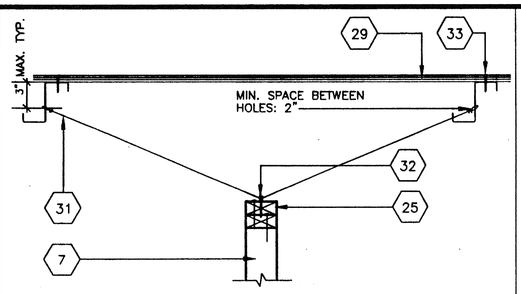
12

NAILING SCHEDULE

CONNECTION	NAILING
1. JOIST TO SILL OR GIRDER, TOENAIL	3–8d
2. Bridging to joist, toenail each end	2–8d
3. 1" x 8" subfloor or less to each joist, face nail	2–8d
4. Wider than 1" x 8" 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, face nail	16d at 16"o.c.
7. Top plate to stud, end nail	2–16d
8. Stud to sole plate	4–8, or toenail 2–16d, endnail
9. Double Studs, face nail	16d at 24"o.c.
10. doubled top plates, face nail	16d at 16"o.c.
11. Top plates, laps and intersections, face nail	2–16d
12. Continuous header, two pieces	16d at 16"o.c. along each edge
13. Ceiling joists to plate, toenail	3–8d
14. Continuous header to stud, toenail	4–8d
15. Ceiling joists, laps over partitions, face nail	3–16d
16. Ceiling joists to parallel rafters, face nail	3–16d
17. Rafter to plate, toenail	3–8d
18. 1" brace to each stud and plate, face nail	2–8d
19. 1" x 8" sheathing or less to each bearing, face nail	2–8d
20. Wider than 1" x 8" sheathing to each bearing, face nail	3–8d staggered 2–20d at 16d at 24"o.c.
21. Built-up corner studs	24"o.c.
22. Built-up girder and beams	20d at 32" o.c. at top and bottom and end and at each splice.
23. 2" planks	2–16d at each bearing
24. Plywood and particleboard	
Subfloor, roof and wall sheathing (to framing)	
1/2" and less	6d
19/32" –3/4"	8d or 6d
7/8" – 1"	8d
1 1/8"–1 1/4"	10d or 8d
Combination Subfloor–underlayment (to framing):	
3/4" and less	6d
7/8" – 1"	8d
1 1/8"–1 1/4"	10d or 8d
25. Panel Siding (to framing):	
1/2" or less	6d
5/8"	8d

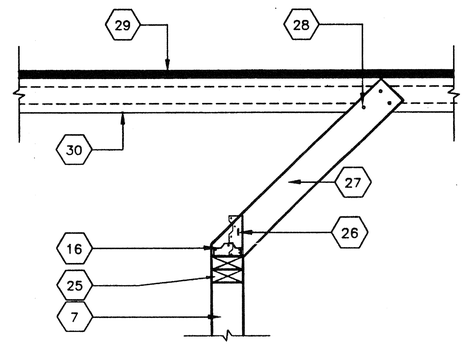
NOTE: All nail shall be box nails unless otherwise noted.

NAILING SCHEDULE | 13



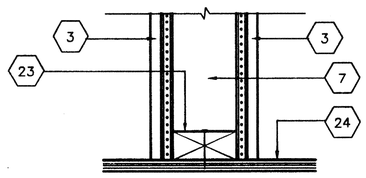
SCALE: 1–1/2"=1'

PARALLEL PARTITION CONN. 8



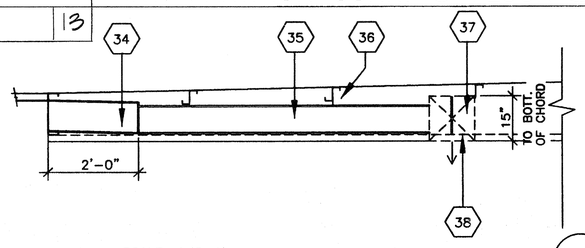
SCALE: 3"=1'

PERPENDICULAR PARTITION CONNECTION 9



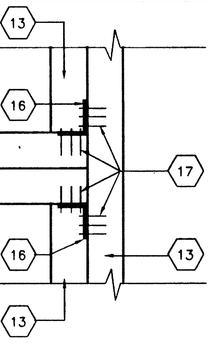
SCALE: 3"=1'

INT. PARTITION CONN. @ FLOOR 10



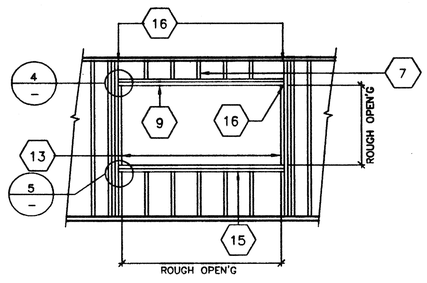
SCALE: 1/2=1'

SECTION; HVAC IN ATTIC 11



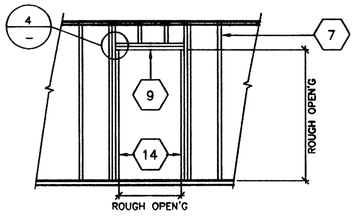
SCALE: 3"=1'

WINDOW SILL @ JAMB 5



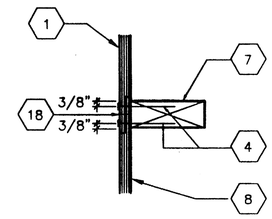
SCALE: 3"=1'

TYPICAL WINDOW FRAMING 6



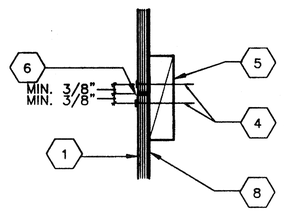
SCALE: 3"=1'

TYPICAL DOOR FRAMING 7



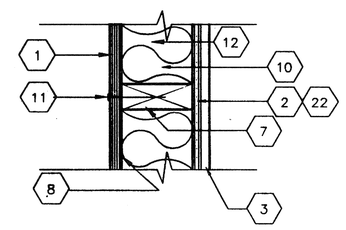
SCALE: 3"=1'

@ VERT. PLYWOOD EDGES 1



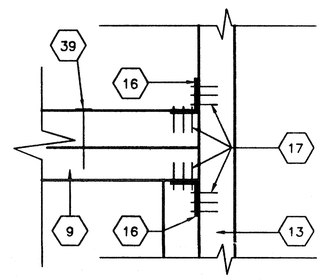
SCALE: 3"=1'

DETAIL @ HORIZ. PLYWOOD JOINTS 2



SCALE: 3"=1'

SECTION @ STUD 3



SCALE: 3"=1'

HEADER DETAIL 4

KEY NOTES

1. EXTERIOR PLYWOOD SIDING – SHEATHING NAIL W/GALV. BOX NAILS –8d @ 6" O.C. EDGES, 8d @ 12" O.C. IN FIELD
2. GYP. BOARD
3. TYP. INTERIOR FINISH–SEE FINISH SCHEDULE
4. E.N.
5. 2X4 BLK'G
6. "Z" FLASHING
7. 2X4 @ 16" O.C.
8. WATERPROOF MEMBRANE
9. HEADER SEE SCHED. S5.1
10. INSULATION SEE SPECIFICATIONS
11. 8d ELECTRO GALV. 12" O.C.FN.
12. 2X4 SILL PLATE (BELOW)
13. FULL HEIGHT STUDS AND 1–2X4 TRIMMER (SEE WINDOW SCHEDULE FOR JAMB STUDS REQ'D)
14. 2X4 FULL HEIGHT KING STUDS AND 2X4 TRIMMER (SEE SCHEDULE FOR QUANITY)
15. SILL PLATE (SEE SCHEDULE)
16. A 34 CLIPS @ HEADER AND SILL TO FULL HEIGHT STUDS AND FULL HEIGHT STUDS TO TOP AND BOTTOM PLATES
17. 9GA. 8d 1 1/2" NAILS
18. LAP JOINT
19. NOT USED
20. NOT USED
21. NOT USED
22. ATTACH GYP. BD. TO STUDS W/6d COOLERS @ 6" O.C.
23. 2X4 BOTTOM PLATE W/16d @ 16" O.C.
24. PLYWOOD FLOOR
25. 2X4 DBL TOP PLATE
26. SIMPSON A35 W/8d X 2 1/2"
27. 2X4 BRACE @ 8'–0" O.C. MAX. @ MAX 45°
28. #12 X 2 TYPE A HEX HEAD SCREWS W/WASHERS (TYP. OF 3)
29. PLYWOOD SHEATHING
30. ROOF PURLIN
31. ATTACH 12GA. BRACE WIRES TO EYE LAG SCREWS AND TO ROOF PURLINS @8'–0" O.C. ENDS TO HAVE 4 TIGHT WRAPS IN 1–1/2"
32. 1/4ø 2–1/2" EYE LAG SCREW @8'–0" O.C. (Z " EMBEDMENT)
33. ATTACH PER ROOF FRAMING PLAN (TYP.)
34. PLEMNUM
35. DUCTWORK (RIGID)
36. ROOF PURLIN
37. TRANSFER BOX
38. ROOF CHANNEL
39. 16D @ 16" O.C.

LICENSED ARCHITECT TROY JAY ADAY No. C-22975 REN. 2-28-98 STATE OF CALIFORNIA

10/22/98

ARCHITECT	ELECTRICAL	STRUCTURAL	MECHANICAL	FIRE MARSHAL	ACCESS COMPLIANCE	STRUCTURAL SAFETY
		REGISTERED PROFESSIONAL ENGINEER No. 3022 STATE OF CALIFORNIA LICENSE EXPIRES 6-30-2000				IDENTIFICATION ST/MP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATORY SERVICES PC304 AC FLS SS DATE

MODTECH INC,

JOB # 2872

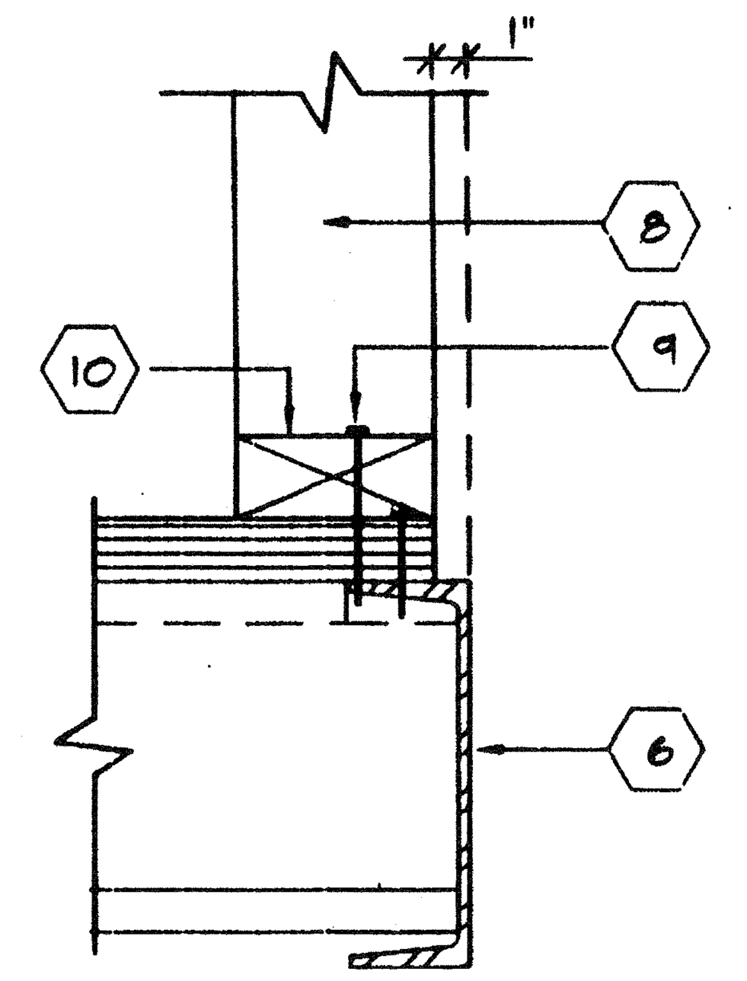
IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APP03 119149 AC FLS SS DATE JAN 7 2019

DRAWN BY RS
DATE 9-12-96
CHECKED BY
DATE

FRAMING DETAILS

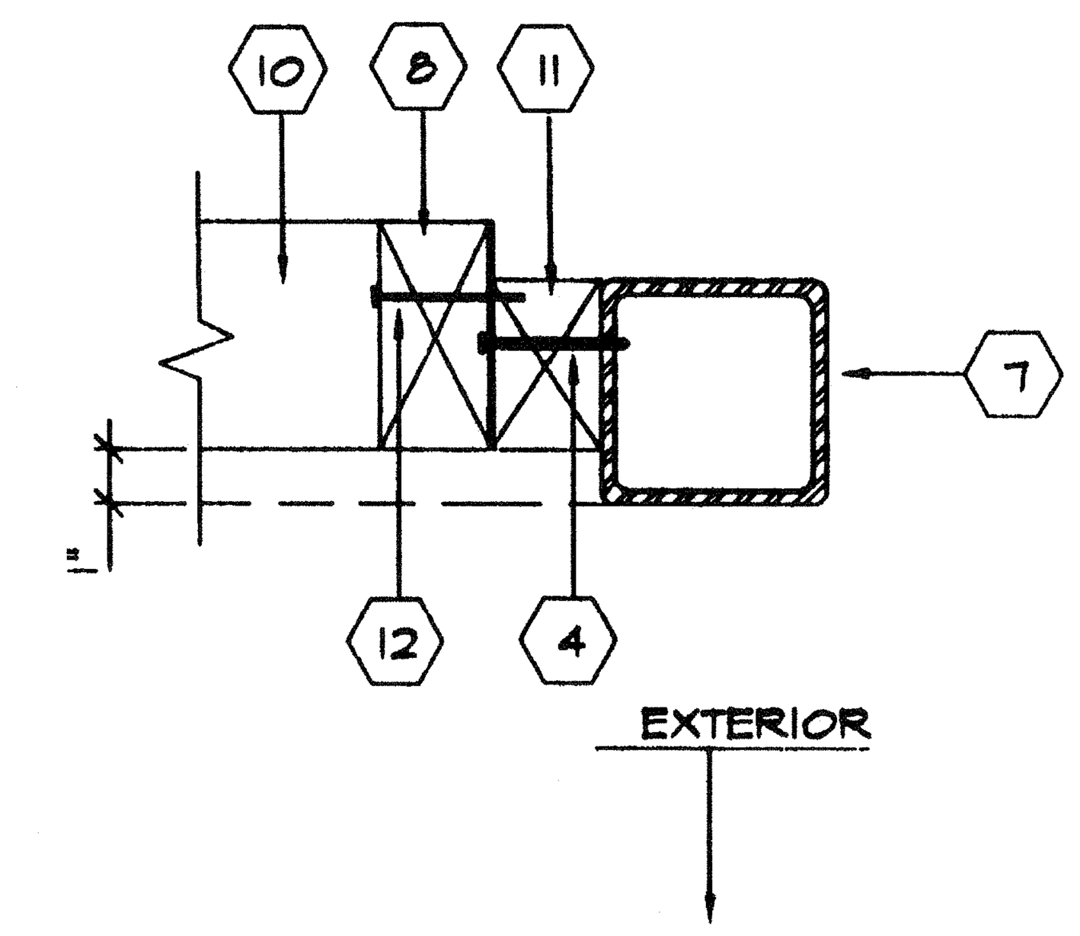
S5.1

JOB NO. PC-304



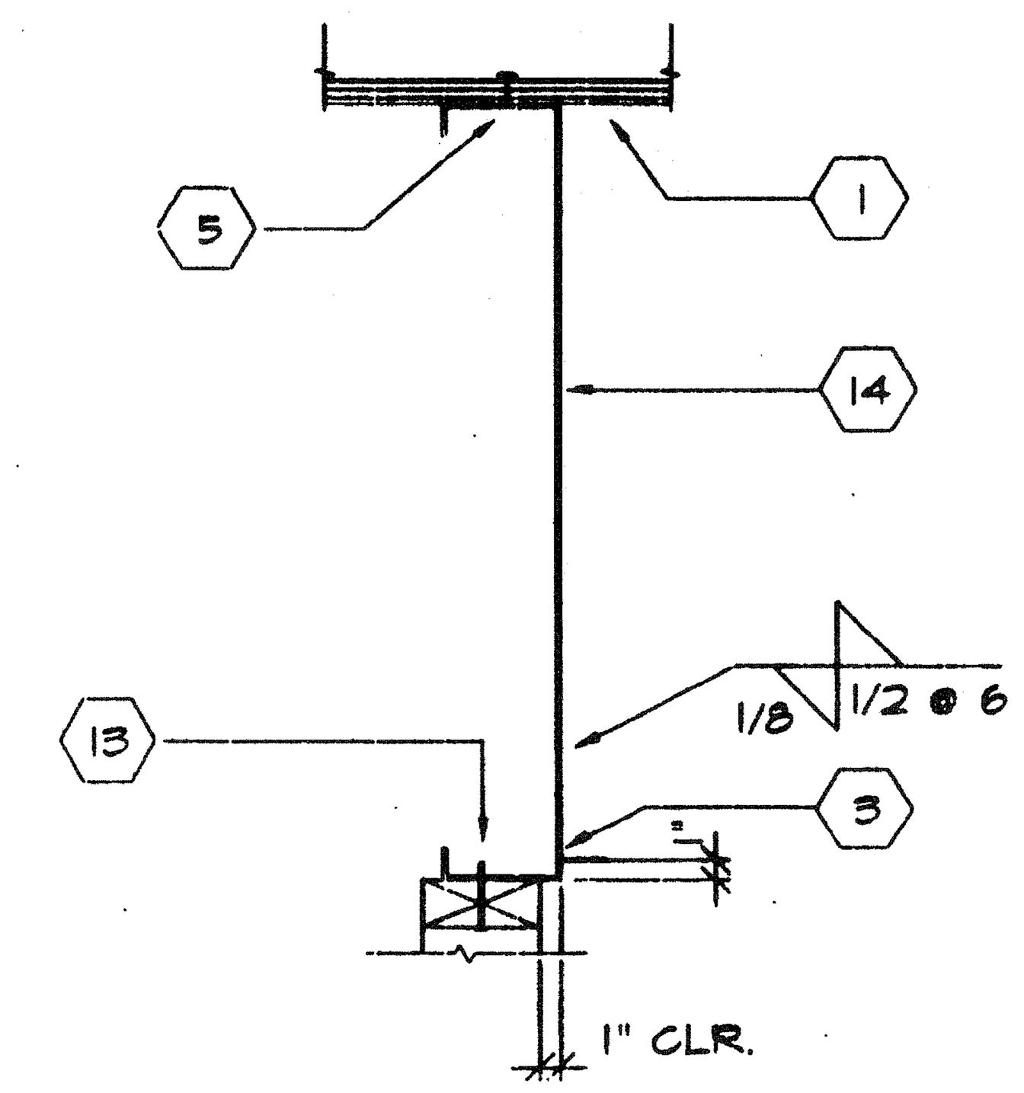
SCALE: 3"=1'

WALL SILL @ FLOOR (4)



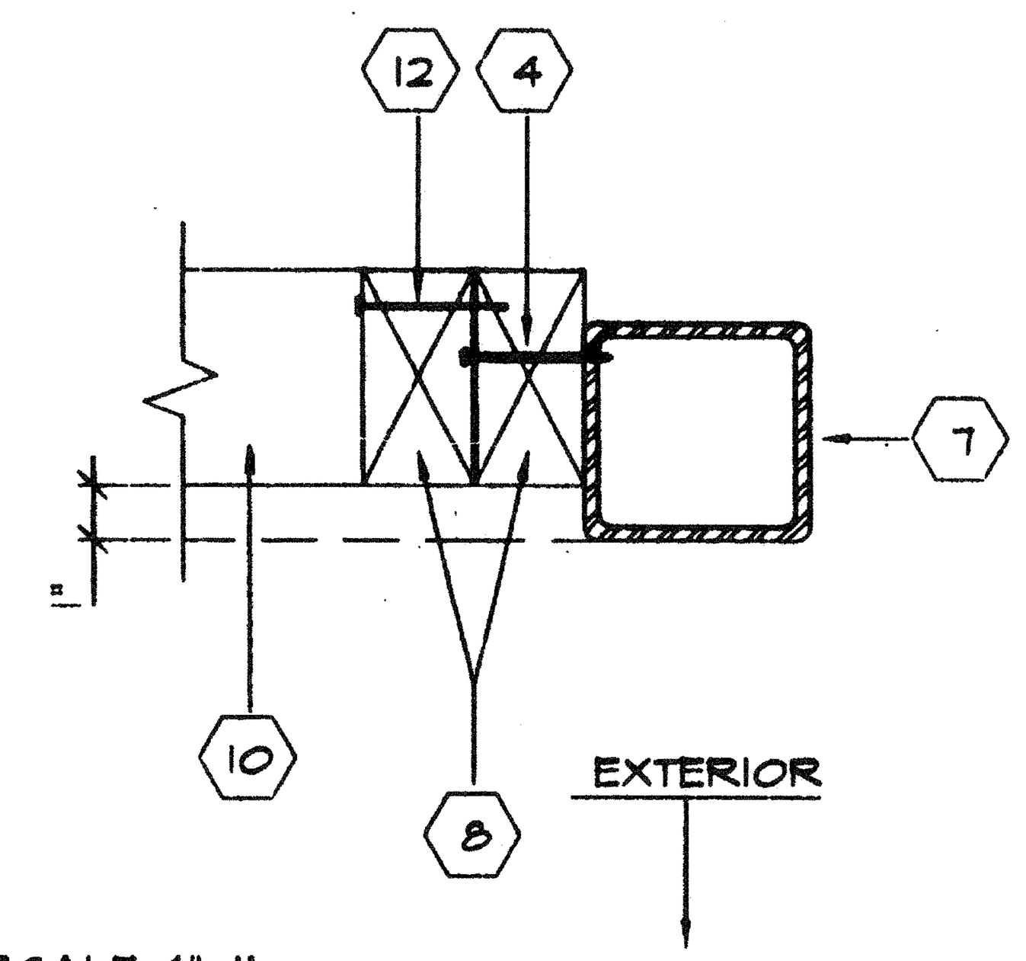
SCALE: 3"=1'

COLUMN @ END WALL. (1)



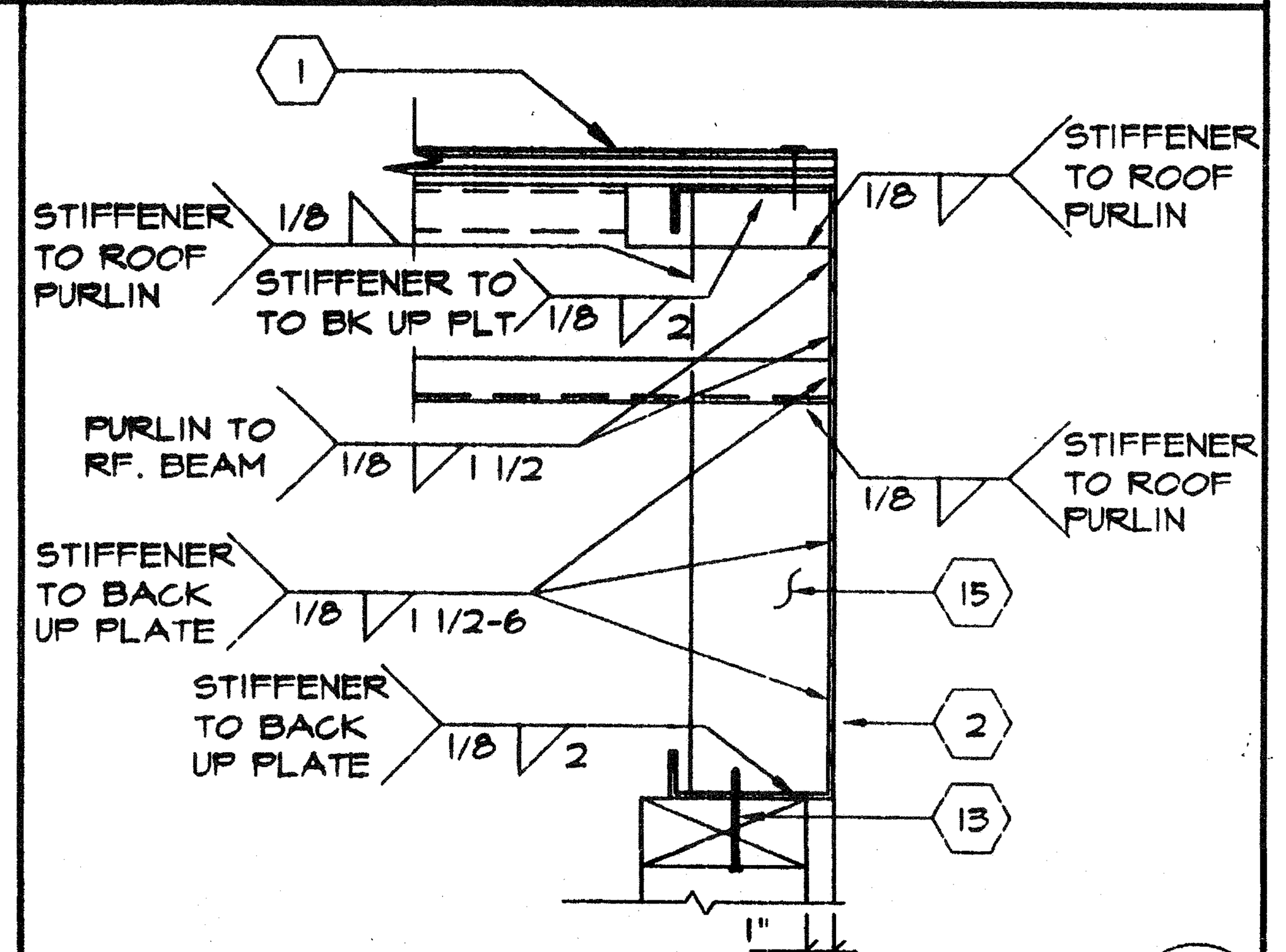
SCALE: 3"=1'

END WALL @ ROOF (5)



SCALE: 4"=1'

COLUMN @ SIDE WALL (2)



SCALE: 3"=1'

ROOF PURLIN @ ROOF BEAM (3)

KEY NOTES

1. PLYWOOD ROOF SHEATHING
2. [10GA.X ROOF BEAM
3. 1 1/2 X 1 1/2 X 16GA. ∠
4. #10 S.T.S.M.S @24" O.C. (ALT. HELD DN. SHOT PIN.)
5. E.N. PLYWOOD TO ROOF BEAM. (SEE STRUCTURAL)
6. FLOOR BEAM (SEE STRUCTURAL)
7. TUBE STEEL COLUMN.
8. 2X4 STUD @ 16' O.C. TYP.
9. 16d BOX NAILS @ 8" O.C.
10. 2X4 SOLE PLATE.
11. 2X TRIMMER @ CORNER.
12. 16d @ 24"O.C.
13. 0.145" Φ SHOT PINS @ 16" O.C. OR #10 S.T.S.M.S @ 16"O.C. OR AEROSMITH AKN 144.0175 DRIVE PIN.
14. [12GA.X HEADER
15. 10 GA. STIFFENER PLATE @ 4'-0" O.C.

LICENSED ARCHITECT TROY JAY ADAY NO. C-23975 REN. 2-28 STATE OF CALIFORNIA

10/22/98

REVISIONS	ELECTRICAL	MECHANICAL	STRUCTURAL	ARCHITECT	DIVISION OF THE STATE ARCHITECT
△			REGISTERED PROFESSIONAL ENGINEER No. 3602 STRUCTURAL STATE OF CALIFORNIA LICENSE EXPIRES 6-30-2000		IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES PC 304 AC___ FLS___ SS___ DATE JAN 2 1 1997
△					
△					
△					
△					
△					

MODTECH INC,

MODTECH INC.
2830 BARRETT AVE.
PERRIS, CA. 92572
PH. (909) 943-4014
FX. (909) 940-0427

JOB NO: 2872

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT
APP03 119149
AC ✓ FLS ✓ SS
DATE JAN 7 2016

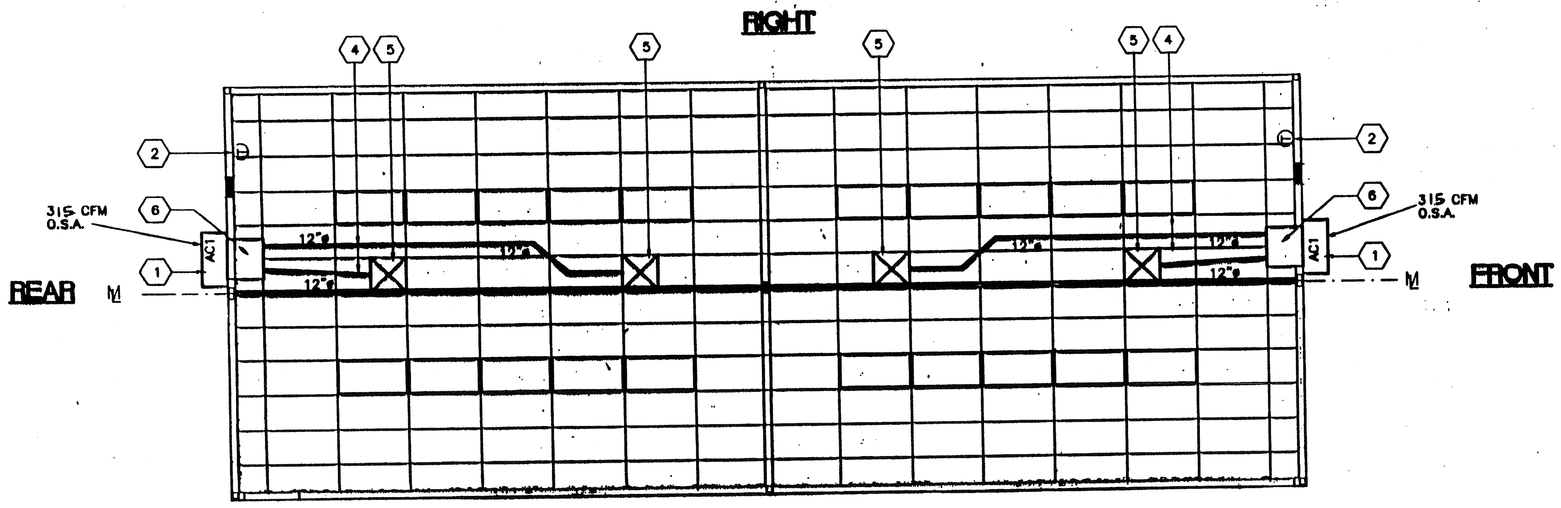
WALL FRAMING DETAILS

DRAWN BY RS
DATE 9-12-96
CHECKED BY
DATE

S5.2

JOB NO. PC-304

RIGHT

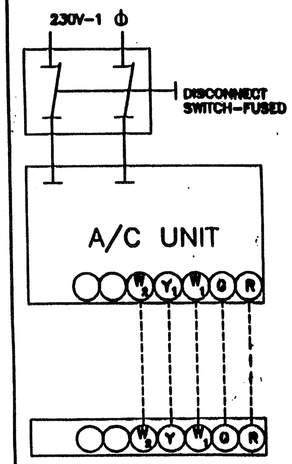


LEFT

KEY NOTES

1. AC
   1 BARD MODEL #WH361-A00 WALL MOUNTED HEAT PUMP
   35,600 BTU COOLING, SEER = 10.00
   34,400 BTU HEATING, HSPF = 6.60
   1100 CFM @ .3" S.P. , WT. = 380 LBS.
   208/230V – 1ø – 60 CY, MAX FLA = 44 AMPS
   MAXIMUM FUSE = 60 AMP 3T
2. (T) THERMOSTAT–WHITE ROGERS IF92 +48" A.F.F.
3. NOT USED
4. 12" ø FLEX DUCT (SEE SPECS)
5. ☒ 15X15 4W SUPPLY AIR GRILLE
6. 10"x30"x2' PLENUM (SEE SPECS)

CONTROL SCHEMATIC



SCHOOL EQUIPMENT ANCHORAGE

THE FOLLOWING IS FOR THE MECHANICAL ENGINEER'S INFORMATION ONLY:

THE SEISMIC ANCHORAGE OF MECHANICAL EQUIPMENT SHALL CONFORM TO C.C.R. TITLE 24, SECTION 2312 (g) AND TABLE 23-F. ANCHORAGE DETAILS FOR ROOF/FLOOR MOUNTED EQUIPMENT WEIGHING LESS THAN 400 LBS. AND HUNG EQUIPMENT WEIGHING LESS THAN 20 LBS. MAY BE OMITTED FROM THE PLANS.

FOR MECHANICAL DRAWINGS:

ALL MECHANICAL EQUIPMENT SHALL BE BRACED OR ANCHORED TO RESIST A HORIZONTAL FORCE ACTING IN ANY DIRECTION USING THE FOLLOWING CRITERIA:

EQUIPMENT ON GRADE	20% OF OPERATING WEIGHT
EQUIPMENT ON STRUCTURE	30% OF OPERATING WEIGHT

FOR FLEXIBLE MOUNTED EQUIPMENT USE 4 X THE ABOVE VALUES, AND FOR SIMULTANEOUS VERTICAL FORCE USE 1/3 X THE HORIZONTAL FORCE.

THE ABOVE VALUES ARE FOR AN IMPORTANCE FACTOR, I = 1.0 AND SEISMIC ZONE , Z = 0.4.

WHERE ANCHORAGE DETAILS ARE NOT SHOWN ON THE DRAWINGS THE FIELD INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE MECHANICAL ENGR. AND THE FIELD ENGINEER OF THE DEPARTMENT OF THE STATE ARCHITECT.

MECH. (HVAC) PLAN

OPTION "B" [redacted]

SCALE 1/4"=1'-0"

GLENDALE UNIFIED

LICENSED ARCHITECT TROY JAY ADAM NO. C-23975 EXPIR. 2-28-99 STATE OF CALIFORNIA

10/22/98

ARCHITECT	ELECTRICAL	STRUCTURAL	MECHANICAL	FIRE MARSHAL	ACCESS COMPLIANCE	STRUCTURAL SAFETY
		LICENSE EXPIRES 8-99-2000				DATE JAN 12 1998

MODTECH INC.

JOB # 287Z

IDENTIFICATION GLENDALE U.S.D.
DIV. OF THE STATE ARCHITECT
APP03 119149
AC ✓ FLS ✓ SS IT
DATE JAN 1 2015

DRAWN BY
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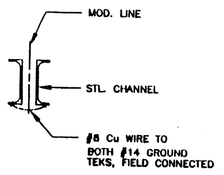
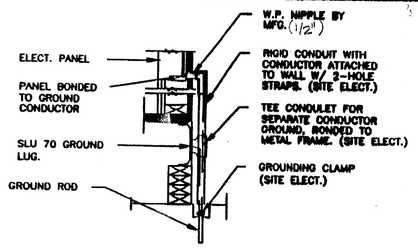
MECHANICAL (HVAC)

M1.2



JUMPER @ MOD. LINE



TYP. GROUNDING DETAIL

1. EACH BUILDING SHALL BE SEPARATELY GROUNDED WITH A 3/4" RD.X8' COPPERCLAD STEEL GROUND ROD. WHERE ROCK BOTTOM IS INCOUNTERED, 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. PROVIDE EQUIPMENT ANCHORAGE PER TITLE 24, SECTION 2312(g), TABLE 23-P.
4. 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 INCOMPATABLE COMPONENTS.
5. GROUND MG TEST SHALL BE DONE IN THE PRESENCE OF THE PROJECT INSPECTOR
6. GROUNDING SHALL BE IN ACCORDANCE WITH C.E.C. ART. 250.

SCHOOL EQUIPMENT ANCHORAGE

THE FOLLOWING IS FOR THE ELECTRICAL ENGINEER'S INFORMATION ONLY:

THE SEISMIC ANCHORAGE OF ELECTRICAL EQUIPMENT SHALL COMFORM TO C.C.R. TITLE 24, SECTION 1630A-3, AND TABLE 16A-O ANCHORAGE DETAILS FOR ROOF / FLOOR MOUNTED EQUIPMENT WEIGHING LESS THAN 400 Lbs AND HUNG EQUIPMENT WEIGHING LESS THAN 20 Lbs MAY BE OMITTED FROM THE PLANS

FOR ELECTRICAL DRAWINGS

ALL ELECTRICAL EQUIPMENT SHALL BE BRACED OR ANCHORED TO RESIST A HORIZONTAL FORCE ACTING IN ANY DIRECTION USING THE FOLLOWING CRITERIA:

EQUIPMENT ON GRADE	20% OF OPERATING WEIGHT
EQUIPMENT ON STRUCTURE	50% OF OPERATING WEIGHT

FOR FLEXIBLE MOUNTED EQUIPMENT USE 4 X THE ABOVE VALUES AND FOR SIMULTANEOUS VERTICAL FORCE USE 1/3 X THE HORIZONTAL FORCE.

THE ABOVE VALUES ARE FOR AN IMPORTANT FACTOR: I = 10 & SEISMIC ZONE, Z = 04.

WHERE ANCHORAGE DETAILS ARE NOT SHOWN ON THE DRAWINGS THE FIELD INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE ELECTRICAL ENGINEER AND THE FIELD ENGINEER OF THE DIVISION OF THE STATE ARCHITECT.

VOLTS: 120/240 V — PANEL: "A" — FEED: BOTTOM
MAIN: 100 A. 12 CIRCUIT — LOCATION: FRONT WALL — MOUNTING: RECESSED

LOAD	WATTS A∅	WATTS B∅	BREAKER Amps	BREAKER P	Ckt	A	B	Ckt	BREAKER Amps	BREAKER P	WATTS A∅	WATTS B∅	LOAD
INT/EXT LIGHT	760		20	1	1			2	60	2	5280		HVAC 3T
INT. LIGHTS		700	20	1	3			4	—	—		5280	HVAC 3T
RECEPTS (3)	540		20	1	5			6					
RECEPTS (4)		720	20	1	7			8					
RECEPTS (4)	720		20	1	9			10					
FA DEDICATED		40			11			12					

WATTS/PHASE A = 7300 | 2020 | 1460 | 5280 | 5280 | B = 6740 WATTS/PHASE
TOTAL 14'400 WATTS | 60 AMPS | 120/240 VOLTS | 1 ∅ | 3 WIRE
NCL = 12'600 W

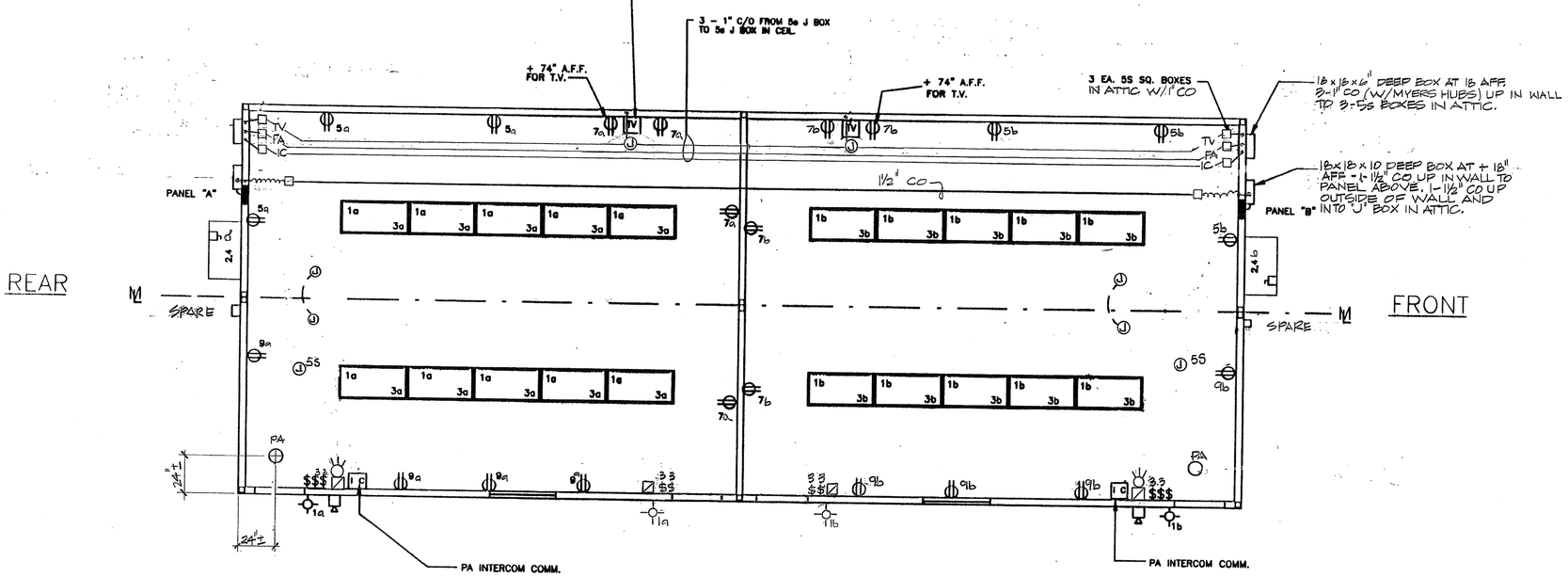
VOLTS: 120/240 V — PANEL: "B" — FEED: BOTTOM
MAIN: 100 A. 12 CIRCUIT — LOCATION: FRONT WALL — MOUNTING: RECESSED

LOAD	WATTS A∅	WATTS B∅	BREAKER Amps	BREAKER P	Ckt	A	B	Ckt	BREAKER Amps	BREAKER P	WATTS A∅	WATTS B∅	LOAD
INT/EXT LIGHT	760		20	1	1			2	60	2	5280		HVAC 3T
INT. LIGHTS		700	20	1	3			4	—	—		5280	HVAC 3T
RECEPTS (3)	540		20	1	5			6					
RECEPTS (4)		720	20	1	7			8					
RECEPTS (4)	720		20	1	9			10					
FA DEDICATED		40			11			12					

WATTS/PHASE A = 7300 | 2020 | 1460 | 5280 | 5280 | B = 6740 WATTS/PHASE
TOTAL 14'400 WATTS | 60 AMPS | 120/240 VOLTS | 1 ∅ | 3 WIRE
NCL = 12'600 W

PLASTER RING, SINGLE GANG, 5S DEEP BOX FOR TV, 1" 74" AFF 3/4" CO UP IN WALL TO "J" BOX IN ATTIC

RIGHT



LEFT

LEGEND

- FLUORESCENT LIGHT, 2' X 4' PRUDENTIAL P8623XCTE – PRA – A87RWXI – 120
- EXTERIOR LIGHT FIXTURE. + 93" AFF UNO
- DUPLEX WALL RECEPTACLE 15-A 125-V 3-WIRE. + 18" AFF UNO
- "J" BOX
- "J" BOX CROSS OVER
- 6 X 6 X 4 WP GUTTER BOX FOR SPARE + 18" A.F.F. 3/4" C/O. STUB IN ATTIC. PULLSTRING
- ELECTRICAL PANEL + 60" AFF UNO. 1/4" POWER NIPPLE POC. GROUND JUMPER BY SITE ELECTRICIAN.
- $ SWITCH: + 48" AFF UNO
- 3$ 3 WAY SWITCH. +48" AFF UNO.
- 4s J BOX FOR FA. PULLSTATION + 48" A.F.F. 3/4" C/O. TO ○ OR □ FA. PULLSTRING.
- 4s J BOX FOR INT. FA. STROBE, +80" A.F.F. 3/4" CO. TO ◻ OR □ FA PULLSTRING
- 4s J BOX FOR EXT. FA. HORN + 102" A.F.F. 3/4" CO. TO □ FA. PULLSTRING.
- TV 5s DEEP SINGLE GANG J BOX W/PLASTER RING FOR T.V. +74" AFF 3/4" CO. UP IN WALL TO J BOX IN ATTIC. PULLSTRING. (TV BY OTHERS)
- P.A. 4s J BOX IN CEILING
- IC 4s J BOX +48" AFF 3/4" CO. TO "J" BOX IN CEIL. AND TO □ IC. PULLSTRING

ELECTRICAL PLAN OPTION "A" "B" "C"

SCALE 1/4"-1'-0"

LICENSED ARCHITECT TROY JAY ADAY No. C-23975 EXP. 12-23-96 STATE OF CALIFORNIA

12/23/96

REVISIONS	ELECTRICAL	MECHANICAL	STRUCTURAL	ARCHITECT	DIVISION OF THE STATE ARCHITECT
△					IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES APPL AC. FLS SS DATE
△					BASED ON PC 304
△					
△					
△					
△					

MODTECH INC.
2830 BARRETT AVE.
PERRIS, CA. 92572
PH. (909) 943-4014
FX. (909) 940-0427

JOB NO: 2872

GLENDALE U.S.D.

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APP03 119149 AC. ✓ FLS ✓ SS PT DATE JAN 7 2019

ELECTRICAL PLAN

DRAWN BY RS
DATE 8-10-96
CHECKED BY
DATE

E1.3A