

INDEX OF PLANS

INDEX OF PLANS

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1	TITLE AND LOCATION MAP
2-7	REVISED STANDARD PLANS

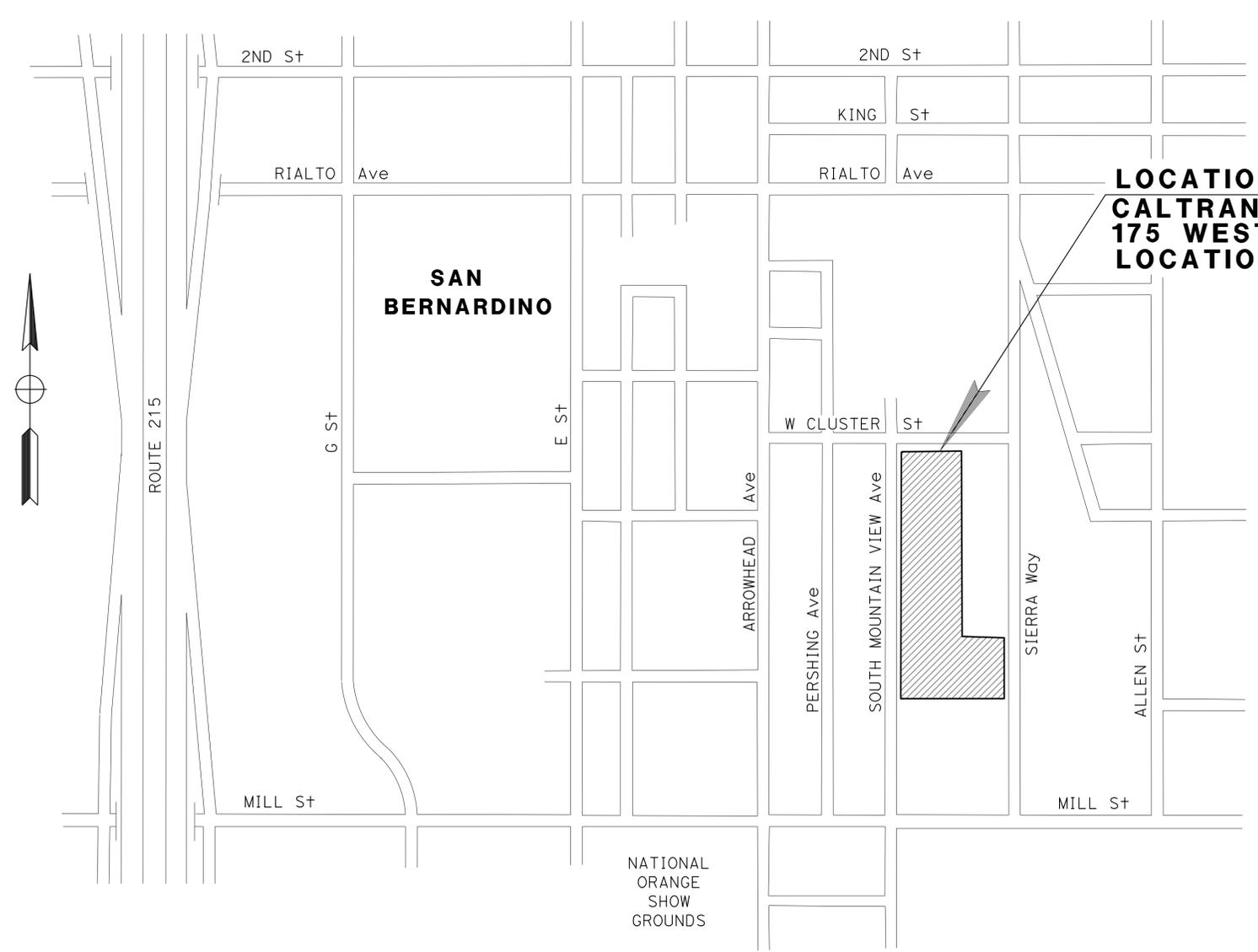
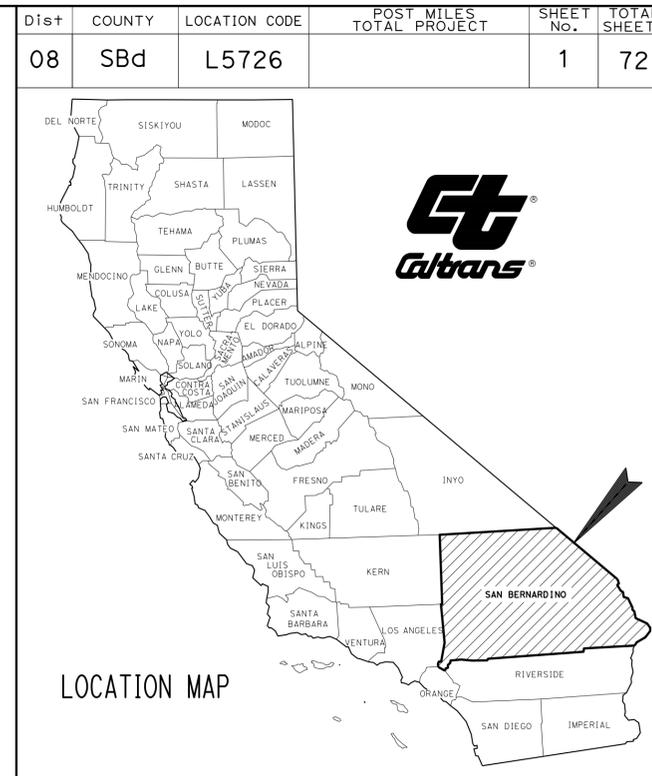
INDEX OF STRUCTURE PLANS

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8	GENERAL PLAN
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THE STANDARD PLANS LIST APPLICABLE TO THIS CONTRACT IS INCLUDED IN THE NOTICE TO BIDDERS AND SPECIAL PROVISIONS BOOK

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
PROJECT PLANS FOR BUILDING CONSTRUCTION
IN SAN BERNARDINO COUNTY
IN SAN BERNARDINO
AT THE CALTRANS MAINTENANCE STATION
175 WEST CLUSTER STREET

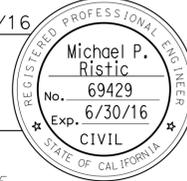
TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2010



LOCATION OF CONSTRUCTION
CALTRANS MAINTENANCE STATION
175 WEST CLUSTER STREET
LOCATION CODE No. L5726

PROJECT MANAGER Mike Ristic	DESIGN MANAGER Rhea Villaroma
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2/16/16
 PROJECT ENGINEER DATE
 REGISTERED CIVIL ENGINEER
February 16, 2016
 PLANS APPROVAL DATE
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



CONTRACT No.	08-OK8414
PROJECT ID	0814000073

LAST REVISION DATE PLOTTED => 22-MAR-2016 02-16-16 TIME PLOTTED => 11:14

	M
Maint	MAINTENANCE
Max	MAXIMUM
MB	METAL BEAM
MBB	METAL BEAM BARRIER
MBGR	METAL BEAM GUARD RAILING
Med	MEDIAN
MGS	MIDWEST GUARDRAIL SYSTEM
MH	MANHOLE
Min	MINIMUM
Misc	MISCELLANEOUS
Misc I & S	MISCELLANEOUS IRON AND STEEL
Mkr	MARKER
Mod	MODIFIED, MODIFY
Mon	MONUMENT
MP	METAL PLATE
MPGR	METAL PLATE GUARD RAILING
MR	MOVEMENT RATING
MSE	MECHANICALLY STABILIZED EMBANKMENT
Mt	MOUNTAIN, MOUNT
MtI	MATERIAL
MVP	MAINTENANCE VEHICLE PULLOUT
	N
N	NORTH
NB	NORTHBOUND
No.	NUMBER (MUST HAVE PERIOD)
Nos.	NUMBERS (MUST HAVE PERIOD)
NPS	NOMINAL PIPE SIZE
NS	NEAR SIDE
NSP	NEW STANDARD PLAN
NTS	NOT TO SCALE
	O
Obir	OBLITERATE
OC	OVERCROSSING
OD	OUTSIDE DIAMETER
OF	OUTSIDE FACE
OG	ORIGINAL GROUND
OGAC	OPEN GRADED ASPHALT CONCRETE
OGFC	OPEN GRADED FRICTION COURSE
OH	OVERHEAD
OHWM	ORDINARY HIGH WATER MARK
O-O	OUT TO OUT
Opp	OPPOSITE
OSD	OVERSIDE DRAIN
	P
p	PAGE
PAP	PERFORATED ALUMINUM PIPE
PB	PULL BOX
PC	POINT OF CURVATURE, PRECAST
PCC	POINT OF COMPOUND CURVE, PORTLAND CEMENT CONCRETE
PCMS	PORTABLE CHANGEABLE MESSAGE SIGN
PCP	PERFORATED CONCRETE PIPE, PRESTRESSED CONCRETE PIPE
PCVC	POINT OF COMPOUND VERTICAL CURVE
PEC	PERMIT TO ENTER AND CONSTRUCT
Ped	PEDESTRIAN
Ped OC	PEDESTRIAN OVERCROSSING
Ped UC	PEDESTRIAN UNDERCROSSING
Perm MtI	PERMEABLE MATERIAL

	P continued
PG	PROFILE GRADE
PI	POINT OF INTERSECTION
PJP	PARTIAL JOINT PENETRATION
Pkwy	PARKWAY
PL, PL	PLATE
P/L	PROPERTY LINE
PM	POST MILE, TIME FROM NOON TO MIDNIGHT
PN	PAVING NOTCH
POC	POINT OF HORIZONTAL CURVE
POT	POINT OF TANGENT
POVC	POINT OF VERTICAL CURVE
PP	PIPE PILE, PLASTIC PIPE, POWER POLE
PPL	PREFORMED PERMEABLE LINER
PPP	PERFORATED PLASTIC PIPE
PRC	POINT OF REVERSE CURVE
PRF	PAVEMENT REINFORCING FABRIC
PRVC	POINT OF REVERSE VERTICAL CURVE
PS&E	PLANS, SPECIFICATIONS AND ESTIMATES
PS, P/S	PRESTRESSED
PSP	PERFORATED STEEL PIPE
PT	POINT OF TANGENCY
PVC	POLYVINYL CHLORIDE
Pvmt	PAVEMENT
	Q
Qty	QUANTITY
	R
R	RADIUS
R & D	REMOVE AND DISPOSE
R & S	REMOVE AND SALVAGE
R/C	RATE OF CHANGE
RCA	REINFORCED CONCRETE ARCH
RCB	REINFORCED CONCRETE BOX
RCP	REINFORCED CONCRETE PIPE
RCPA	REINFORCED CONCRETE PIPE ARCH
Rd	ROAD
Reinf	REINFORCED, REINFORCEMENT, REINFORCING
Rel	RELOCATE
Repl	REPLACEMENT
Ret	RETAINING
Rev	REVISED, REVISION
Rdwy	ROADWAY
RHMA	RUBBERIZED HOT MIX ASPHALT
Riv	RIVER
RM	ROAD-MIXED
RP	RADIUS POINT, REFERENCE POINT
RR	RAILROAD
RSP	ROCK SLOPE PROTECTION, REVISED STANDARD PLAN
Rt	RIGHT
Rte	ROUTE
RW	REDWOOD, RETAINING WALL
R/W	RIGHT OF WAY
Rwy	RAILWAY

	S
S	SOUTH, SUPPLEMENT
SAE	STRUCTURE APPROACH EMBANKMENT
Salv	SALVAGE
SAPP	STRUCTURAL ALUMINUM PLATE PIPE
SB	SOUTHBOUND
SC	SAND CUSHION
SCSP	SLOTTED CORRUGATED STEEL PIPE
SD	STORM DRAIN
Sec	SECOND, SECTION
Sep	SEPARATION
SG	SUBGRADE
Shld	SHOULDER
Sht	SHEET
Sim	SIMILAR
SL	STATION LINE
SM	SELECTED MATERIAL
Spec	SPECIAL, SPECIFICATIONS
SPP	SLOTTED PLASTIC PIPE
SS	SLOPE STAKE
SSBM	STRAP AND SADDLE BRACKET METHOD
SSD	STRUCTURAL SECTION DRAIN
SSPA	STRUCTURAL STEEL PLATE ARCH
SSPP	STRUCTURAL STEEL PLATE PIPE
SSPPA	STRUCTURAL STEEL PLATE PIPE ARCH
SSRP	STEEL SPIRAL RIB PIPE
St	STREET
Sta	STATION
STBB	SINGLE THRIE BEAM BARRIER
Std	STANDARD
Str	STRUCTURE
Surf	SURFACING
SW	SIDEWALK, SOUND WALL
Swr	SEWER
Sym	SYMMETRICAL
S4S	SURFACE 4 SIDES
	T
T	SEMI-TANGENT
Tan	TANGENT
TBB	THRIE BEAM BARRIER
Tbr	TIMBER
TC	TOP OF CURB
TCB	TRAFFIC CONTROL BOX
TCE	TEMPORARY CONSTRUCTION EASEMENT
TeI	TELEPHONE
Temp	TEMPORARY
TG	TOP OF GRADE
Tot	TOTAL
TP	TELEPHONE POLE
TPB	TREATED PERMEABLE BASE
TPM	TREATED PERMEABLE MATERIAL
Trans	TRANSITION

	T continued
TS	TRANSVERSE, TRAFFIC SIGNAL, TUBULAR STEEL
Typ	TYPICAL
	U
UC	UNDERCROSSING
UD	UNDERDRAIN
UG	UNDERGROUND
UON	UNLESS OTHERWISE NOTED
UP	UNDERPASS
	V
V	VALVE, DESIGN SPEED
Var	VARIABLE, VARIES
VC	VERTICAL CURVE
VCP	VITRIFIED CLAY PIPE
Vert	VERTICAL
Via	VIADUCT
Vol	VOLUME
	W
W	WEST, WIDTH
WB	WESTBOUND
WH	WEEP HOLE
WM	WIRE MESH
WS	WATER SURFACE
WSP	WELDED STEEL PIPE
Wt	WEIGHT
WV	WATER VALVE
WW	WINGWALL
WWLLOL	WINGWALL LAYOUT LINE
	X
X Sec	CROSS SECTION
Xing	CROSSING
	Y
Yr	YEAR
Yrs	YEARS

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	L5726		2	72

Grace M. Tsushima
REGISTERED CIVIL ENGINEER

July 19, 2013
PLANS APPROVAL DATE



THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

TO ACCOMPANY PLANS DATED 2-16-16

UNIT OF MEASUREMENT SYMBOLS:

Some of the symbols used in the project plan quantity tables and in the Bid Item List are:

TABLE A	
SYMBOL USED	DEFINITIONS
ACRE	ACRE
CF	CUBIC FOOT
CY	CUBIC YARD
EA	EACH
GAL	GALLON
LB	POUND
LF	LINEAR FOOT
SQFT	SQUARE FOOT
SQYD	SQUARE YARD
STA	100 FEET
TAB	TABLET
TON	2,000 POUNDS

Some of the symbols used in the plans other than in the project plan quantity tables are:

TABLE B	
SYMBOL USED	DEFINITIONS
ksi	KIPS PER SQUARE INCH
ksf	KIPS PER SQUARE FOOT
psi	POUNDS PER SQUARE INCH
psf	POUNDS PER SQUARE FOOT
lb/ft ³ , pcf	POUNDS PER CUBIC FOOT
tsf	TONS PER SQUARE FOOT
mph, MPH *	MILES PER HOUR
ø	NOMINAL DIAMETER
oz	OUNCE
lb	POUND
kíp	1,000 POUNDS
cal	CALORIE
ft	FOOT OR FEET
gal	GALLON

* For use on a sign panel only

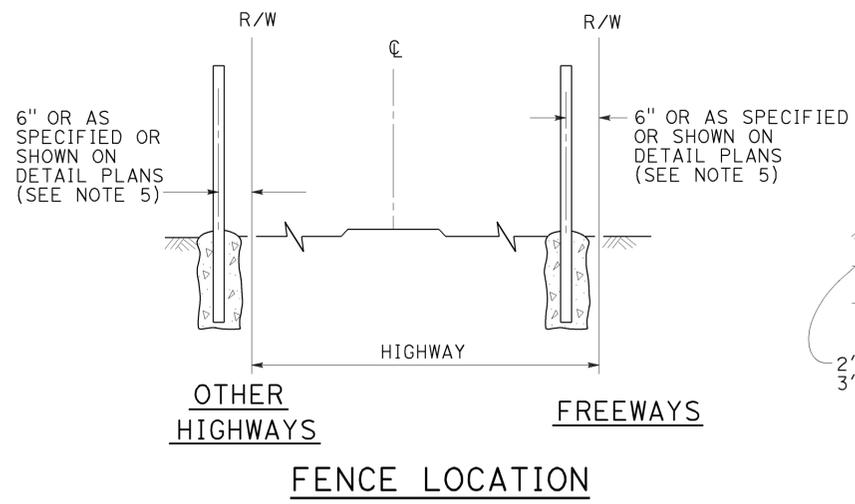
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**ABBREVIATIONS
(SHEET 2 OF 2)**

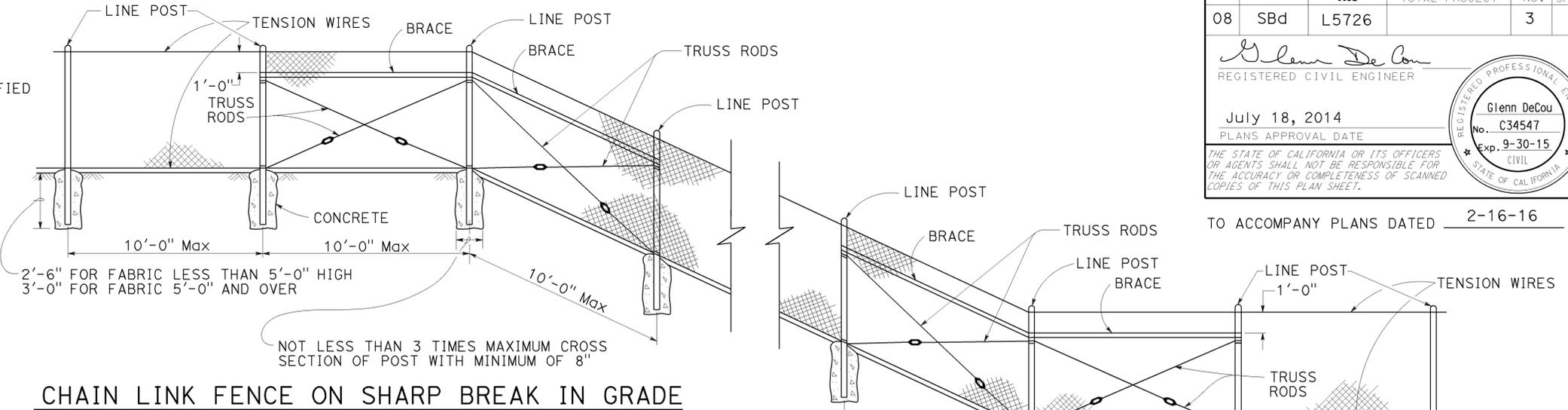
NO SCALE

RSP A10B DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN A10B
DATED MAY 20, 2011 - PAGE 2 OF THE STANDARD PLANS BOOK DATED 2010.

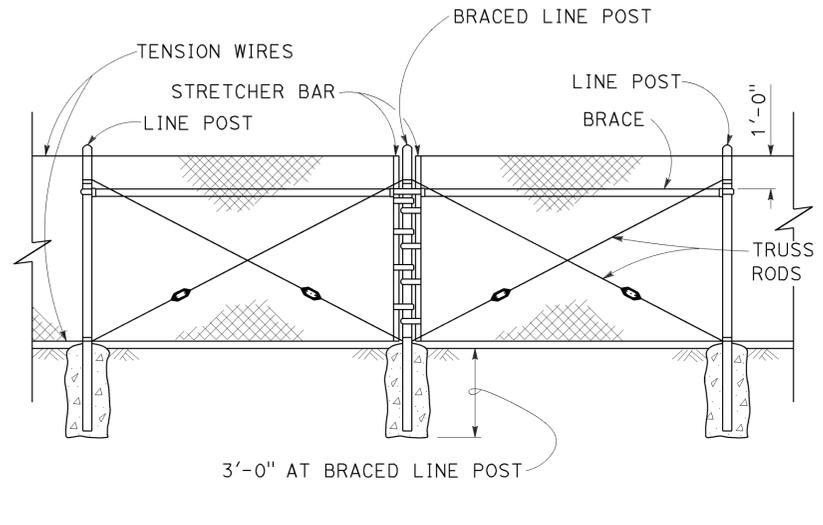
2010 REVISED STANDARD PLAN RSP A10B



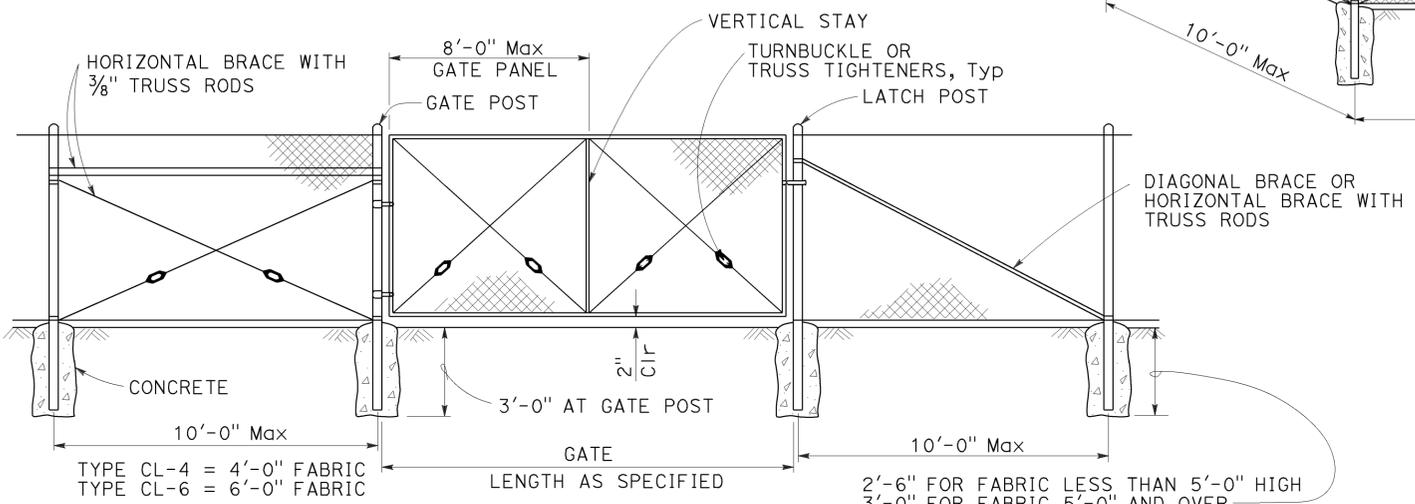
FENCE LOCATION



CHAIN LINK FENCE ON SHARP BREAK IN GRADE



BRACED LINE POST INSTALLATION
Braced line post at intervals not exceeding 1000'



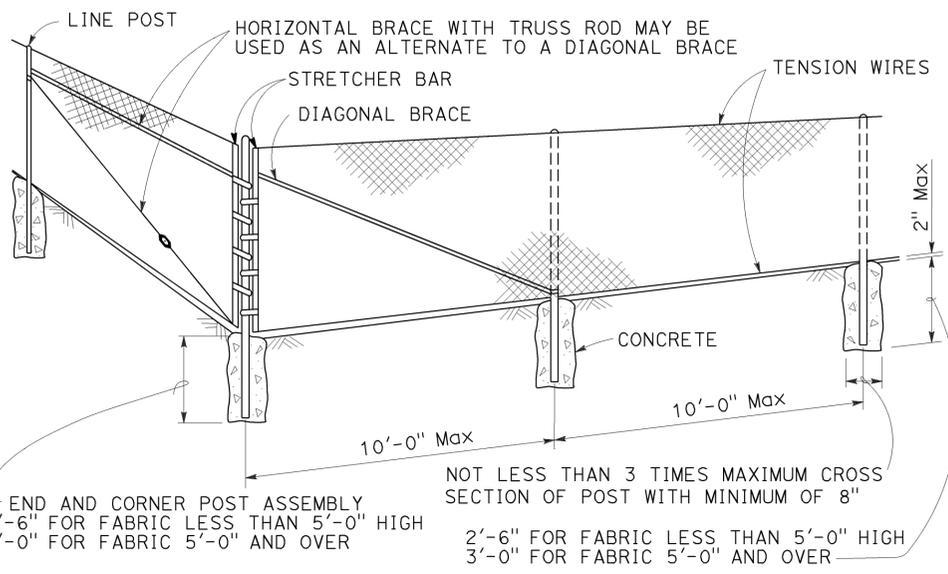
CHAIN LINK GATE INSTALLATION

FENCE HEIGHT	GATE WIDTHS	ROUND OD PIPE	WEIGHT (lb/ft)
6'-0" AND LESS	UP THRU 6'-0"	2.875"	5.80
	OVER 6'-0" THRU 12'-0"	4.500"	10.80
	OVER 12'-0" THRU 18'-0"	5.563"	14.63
OVER 6'-0" TO 8'-0" Max	OVER 18'-0" TO 24'-0" Max	6.625"	18.99
	UP THRU 6'-0"	3.500"	7.58
	OVER 6'-0" THRU 12'-0"	5.563"	14.63
	OVER 12'-0" THRU 18'-0"	6.625"	18.99
	OVER 18'-0" TO 24'-0" Max	8.625"	28.58

Above post dimensions and weights are minimums. Larger sizes may be used upon approval.

NOTES:

- The table below shows minimum sized posts and braces complying with the specifications. Larger or heavier post and brace sizes may be used upon approval.
- Sections shown in the tables must also comply with the strength requirements and other provisions of the Specifications.
- Other sections which comply with the strength requirements and other provisions of the Specifications may be used upon approval.
- Options exercised shall be uniform on any one project.
- Offset to be 2'-0" at monument locations, measured at right angles to R/W lines. Taper to achieve offset to be at least 20'-0" long.
- See Revised Standard Plan RSP A85B for Brace, Stretcher Bar, and Truss Tightener Details.



CORNER POST

FENCE HEIGHT	LINE POSTS				END, LATCH AND CORNER POSTS		BRACES			
	ROUND OD PIPE	WEIGHT (lb/ft)	ROLL FORMED		ROUND OD PIPE	WEIGHT (lb/ft)	ROUND OD PIPE	WEIGHT (lb/ft)	ROLL FORMED	
			SECTION	WEIGHT (lb/ft)					SECTION	WEIGHT (lb/ft)
6'-0" AND LESS	1.900"	2.72	1.875" x 1.625"	1.85	2.375"	3.65	1.66"	2.27	1.625" x 1.25"	1.35
OVER 6'-0" TO 8'-0" Max	2.375"	3.65	2.25" x 1.70"	2.78	2.875"	5.80	1.66"	2.27	1.625" x 1.25"	1.35

RSP A85 DATED JULY 18, 2014 SUPERSEDES STANDARD PLAN A85 DATED MAY 20, 2011 - PAGE 112 OF THE STANDARD PLANS BOOK DATED 2010.

2010 REVISED STANDARD PLAN RSP A85

LEGEND:

AB	ABANDON. IF APPLIED TO CONDUIT, REMOVE CONDUCTORS
BC	INSTALL PULL BOX IN EXISTING CONDUIT RUN
BP	PEDESTRIAN BARRICADE, TYPE AS INDICATED ON PLAN
CB	INSTALL CONDUIT INTO EXISTING PULL BOX
CC	CONNECT NEW AND EXISTING CONDUIT. REMOVE EXISTING CONDUCTORS AND INSTALL CONDUCTORS AS INDICATED
CF	CONDUIT TO REMAIN FOR FUTURE USE. REMOVE CONDUCTORS. INSTALL PULL TAPE
DH	DETECTOR HANDHOLE
FA	FOUNDATION TO BE ABANDONED
IS	INSTALL SIGN ON SIGNAL MAST ARM
NS	NO SLIP BASE ON STANDARD
PEC	PHOTOELECTRIC CONTROL
PEU	PHOTOELECTRIC UNIT
RC	EQUIPMENT OR MATERIAL TO BE REMOVED AND BECOME THE PROPERTY OF THE CONTRACTOR
RE	REMOVE ELECTROLIER, FUSES AND BALLAST. TAPE ENDS OF CONDUCTORS
RL	RELOCATE EQUIPMENT
RR	REMOVE AND REUSE EQUIPMENT
RS	REMOVE AND SALVAGE EQUIPMENT
SC	SPLICE NEW TO EXISTING CONDUCTORS
SD	SERVICE DISCONNECT
TSP	TELEPHONE SERVICE POINT

ABBREVIATIONS

AC+	UNDERGROUNDED CONDUCTOR	MAT	MAST ARM MOUNTING TOP ATTACHMENT
APS	ACCESSIBLE PEDESTRIAN SIGNAL	MAS	MAST ARM MOUNTING SIDE ATTACHMENT
Batt	BATTERY	MBPS	MANUAL BYPASS SWITCH
BBS	BATTERY BACKUP SYSTEM	M/M	MULTIPLE TO MULTIPLE TRANSFORMER
BC	BOLT CIRCLE	Mtg	MOUNTING
BIK	BLACK	MV	MERCURY VAPOR LIGHTING FIXTURE
BP	BYPASS	MVDS	MICROWAVE VEHICLE DETECTION SYSTEM
BPB	BICYCLE PUSH BUTTON	N	NEUTRAL (GROUNDED CONDUCTOR)
C	CONDUIT	NB	NEUTRAL BUS
CB	CIRCUIT BREAKER	NC	NORMALLY CLOSE
CCTV	CLOSED CIRCUIT TELEVISION	NO	NORMALLY OPEN
Ckt	CIRCUIT	P	CIRCUIT BREAKER'S POLE
CMS	CHANGEABLE MESSAGE SIGN	PB	PULL BOX
Ctid	CALTRANS IDENTIFICATION	PBA	PUSH BUTTON ASSEMBLY
Comm	COMMUNICATION	PEC	PHOTOELECTRIC CONTROL
Cntl	CONTROL	Ped	PEDESTRIAN
DF	DEPARTMENT-FURNISHED	PEU	PHOTOELECTRIC UNIT
DLC	LOOP DETECTOR LEAD-IN CABLE	PT	CONDUIT WITH PULL TAPE
EMS	EXTINGUISHABLE MESSAGE SIGN	PTR	POWER TRANSFER RELAY
EVUC	EMERGENCY VEHICLE UNIT CABLE	RE	RELOCATED EQUIPMENT
EVUD	EMERGENCY VEHICLE UNIT DETECTOR	RM	RAMP METERING
FB	FLASHING BEACON	RWIS	ROADSIDE WEATHER INFORMATION SYSTEM
FBCA	FLASHING BEACON CONTROL ASSEMBLY	SB	SLIP BASE
FBS	FLASHING BEACON WITH SLIP BASE	SIC	SIGNAL INTERCONNECT CABLE
FO	FIBER OPTIC	Sig	SIGNAL
G	EQUIPMENT GROUNDING CONDUCTOR	SMA	SIGNAL MAST ARM
GB	GROUND BUS	SNS	STREET NAME SIGN
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	SP	SERVICE POINT
Grn	GREEN	TB	TERMINAL BOARD
HAR	HIGHWAY ADVISORY RADIO	TDC	TELEPHONE DEMARCATION CABINET
Hex	HEXAGONAL	Temp	TEMPERATURE
HPS	HIGH PRESSURE SODIUM	TMS	TRAFFIC MONITORING STATION
IISNS	INTERNALLY ILLUMINATED STREET NAME SIGN	TOS	TRAFFIC OPERATIONS SYSTEM
ISL	INDUCTION SIGN LIGHTING	UPS	UNINTERRUPTABLE POWER SUPPLY
LED	LIGHT EMITTING DIODE	UPSC	UNINTERRUPTABLE POWER SUPPLY CONTROLLER
LMA	LUMINAIRE MAST ARM	Veh	VEHICLE
LPS	LOW PRESSURE SODIUM	VIVDS	VIDEO IMAGE VEHICLE DETECTION SYSTEM
Ltg	LIGHTING	Wht	WHITE
Lum	LUMINAIRE	WIM	WEIGH-IN-MOTION
M	METERED	Xfmr	TRANSFORMER

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	L5726		4	72

Theresa Gabriel
REGISTERED ELECTRICAL ENGINEER

October 30, 2015
PLANS APPROVAL DATE

Theresa
Aziz Gabriel
No. E15129
Exp. 6-30-16
ELECTRICAL

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

TO ACCOMPANY PLANS DATED 2-16-16

SOFFIT AND WALL-MOUNTED LUMINAIRES

- PENDANT SOFFIT LUMINAIRE, 70 W HPS UNLESS OTHERWISE SPECIFIED
- FLUSH-MOUNTED SOFFIT LUMINAIRE, 70 W HPS UNLESS OTHERWISE SPECIFIED
- WALL-MOUNTED LUMINAIRE, 70 W HPS UNLESS OTHERWISE SPECIFIED
- EXISTING SOFFIT OR WALL-MOUNTED LUMINAIRE TO REMAIN UNMODIFIED
- EXISTING SOFFIT OR WALL-MOUNTED LUMINAIRE TO BE MODIFIED AS SPECIFIED

NOTE:
Arrow indicates "street side" of luminaire.

COMMONLY USED SYMBOLS FOR UNITED STATES CUSTOMARY UNITS OF MEASUREMENT:

SYMBOL	DEFINITIONS
Ω	OHMS
min	MINUTE
s	SECOND
bps	BITS PER SECOND
Bps	BYTES PER SECOND
A	AMPERE
V	VOLT
V(dc)	VOLT (DIRECT CURRENT)
V(ac)	VOLT (ALTERNATING CURRENT)
FC	FOOT - CANDLE
W	WATTS
VA	VOLT-AMPERE
M	MEGA
k	KILO
m	MILLI
μ	MICRO
P	PICO
Hz	HERTZ

MISCELLANEOUS ELECTROLIERS

NEW	EXISTING	
		LUMINAIRE ON WOOD POLE
		NON-STANDARD ELECTROLIER (SEE PROJECT LEGEND)
		CITY ELECTROLIER
		ELECTROLIER FOUNDATION (FUTURE INSTALLATION)

- NOTES:**
- LED luminaires shall be 235 W when installed on Type 21, 21D, 30, 31 and 32 Standards, unless otherwise specified. LED luminaires shall be 165 W when installed on other type standards or poles, unless otherwise specified.
 - Luminaires shall be the cutoff type, ANSI Type III medium cutoff lighting distribution, unless otherwise specified.

STANDARD ELECTROLIER

NEW	EXISTING	STANDARD TYPE
		15
		150
		15 STRUCTURE
		150 STRUCTURE
		21
		210
		21 STRUCTURE
		210 STRUCTURE
		30
		31
		32

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ELECTRICAL SYSTEMS (LEGEND AND ABBREVIATIONS)

NO SCALE

RSP ES-1A DATED OCTOBER 30, 2015 SUPERSEDES RSP ES-1A DATED JULY 19, 2013 AND STANDARD PLAN ES-1A DATED MAY 20, 2011 - PAGE 425 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP ES-1A

2010 REVISED STANDARD PLAN RSP ES-1A

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	L5726		5	72

Theresa Gabriel
REGISTERED ELECTRICAL ENGINEER

October 30, 2015
PLANS APPROVAL DATE

Theresa Aziz Gabriel
No. E15129
Exp. 6-30-16
ELECTRICAL
STATE OF CALIFORNIA

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TO ACCOMPANY PLANS DATED 2-16-16

CONDUIT

SIGNAL EQUIPMENT

NEW	EXISTING	
---	---	LIGHTING CONDUIT, UNLESS OTHERWISE INDICATED OR NOTED
---	---	TRAFFIC SIGNAL CONDUIT
---C---	---c---	COMMUNICATION CONDUIT
---T---	---t---	TELEPHONE CONDUIT
---F---	---f---	FIRE ALARM CONDUIT
---FO---	---fo---	FIBER OPTIC CONDUIT
---	---	CONDUIT TERMINATION
		CONDUIT RISER ATTACHED TO THE STRUCTURE OR SERVICE POLE

NEW	EXISTING	
		PEDESTRIAN SIGNAL HEAD
		PUSH BUTTON ASSEMBLY POST
		PEDESTRIAN BARRICADE
		VEHICLE SIGNAL HEAD (WITH BACKPLATE AND 3-SECTIONS: RED, YELLOW AND GREEN)
		VEHICLE SIGNAL HEAD WITH ANGLE VISOR
		MODIFICATIONS OF BASIC SYMBOL: "L" INDICATES ALL NON-ARROW SECTIONS LOUVERED "LG" INDICATES LOUVERED GREEN SECTION ONLY "PV" INDICATES ALL 12" SECTIONS PROGRAMMED VISIBILITY "8" INDICATES ALL 8" SECTIONS (ONLY WHEN SPECIFIED)

SIGNAL EQUIPMENT Cont

NEW	EXISTING	
		GUARD POST
		TYPE 1 STANDARD WITH RAMP METERING SIGN
		OPTICAL DETECTOR FOR THE EMERGENCY VEHICLE DETECTION

SERVICE EQUIPMENT

NEW	EXISTING	
---OH---	---oh---	OVERHEAD LINES
		WOOD POLE, "U" INDICATES UTILITY OWNED
		POLE GUY WITH ANCHOR
		UTILITY TRANSFORMER - GROUND MOUNTED
		SERVICE EQUIPMENT ENCLOSURE TYPE. DOOR INDICATES FRONT OF ENCLOSURE
		TELEPHONE DEMARCATION CABINET

POLE-MOUNTED SERVICE DESIGNATION

	TYPE H SERVICE, 28'-10"	TYPE OF INSTALLATION AND POLE HEIGHT ABOVE GRADE
--	-------------------------	--

FLASHING BEACON

NEW	EXISTING	
		FLASHING BEACON (ONE VEHICLE SIGNAL HEAD WITH BACKPLATE AND VISOR) "R" INDICATES RED INDICATION, "Y" INDICATES YELLOW INDICATION
		FLASHING BEACON WITH TYPE 15-FBS STANDARD AND A SIGN.
		FLASHING BEACON WITH TYPES 9, 9A OR 9B SIGN UNLESS OTHERWISE SPECIFIED OR INDICATED

		VEHICLE SIGNAL HEAD CONSISTING OF RED, YELLOW AND GREEN LEFT ARROW SECTIONS
		VEHICLE SIGNAL HEAD CONSISTING OF RED AND YELLOW SECTIONS WITH AN UP GREEN ARROW SECTION
		VEHICLE SIGNAL HEAD (5 SECTION) CONSISTING OF RED, YELLOW AND GREEN SECTIONS WITH YELLOW AND GREEN RIGHT ARROW SECTIONS
		TYPE 15TS STANDARD WITH VEHICLE SIGNAL HEAD AND LUMINAIRE
		TYPE 21TS STANDARD WITH VEHICLE SIGNAL HEAD AND LUMINAIRE
		STANDARD WITH LUMINAIRE AND SIGNAL MAST ARMS AND ATTACHED VEHICLE SIGNAL HEADS
		TYPE 1 STANDARD WITH ATTACHED VEHICLE SIGNAL HEADS
		STANDARD WITH A SIGNAL MAST ARM, ATTACHED VEHICLE SIGNAL HEADS AND INTERNALLY ILLUMINATED STREET NAME SIGN
		CONTROLLER ASSEMBLY. DOOR INDICATES FRONT OF CABINET

NOTES:

- All signal sections shall be 12" unless shown otherwise.
- Signal heads shall be provided with backplates unless shown otherwise.

ILLUMINATED OVERHEAD SIGN

NEW	EXISTING	
		SINGLE POST, SINGLE ILLUMINATED SIGN, BALANCED BUTTERFLY
		SINGLE POST, DOUBLE ILLUMINATED SIGN, BALANCED BUTTERFLY
		SINGLE POST, SINGLE ILLUMINATED SIGN, FULL CANTILEVER
		DOUBLE POST, SINGLE ILLUMINATED SIGN
		SINGLE ILLUMINATED SIGN MOUNTED ON STRUCTURE
		DOUBLE POST, SINGLE ILLUMINATED SIGN WITH ELECTROLIER

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**ELECTRICAL SYSTEMS
(LEGEND AND ABBREVIATIONS)**

NO SCALE

RSP ES-1B DATED OCTOBER 30, 2015 SUPERSEDES RSP ES-1B DATED JULY 19, 2013 AND STANDARD PLAN ES-1B DATED MAY 20, 2011 - PAGE 426 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP ES-1B

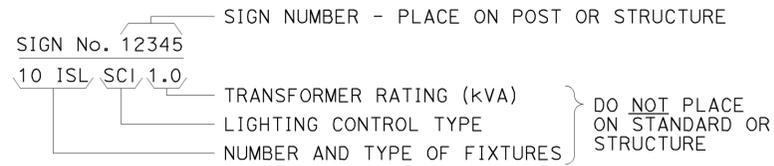
2010 REVISED STANDARD PLAN RSP ES-1B



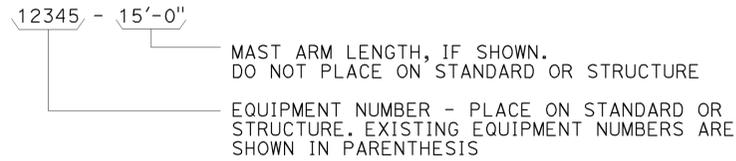
TO ACCOMPANY PLANS DATED 2-16-16

EQUIPMENT IDENTIFICATION

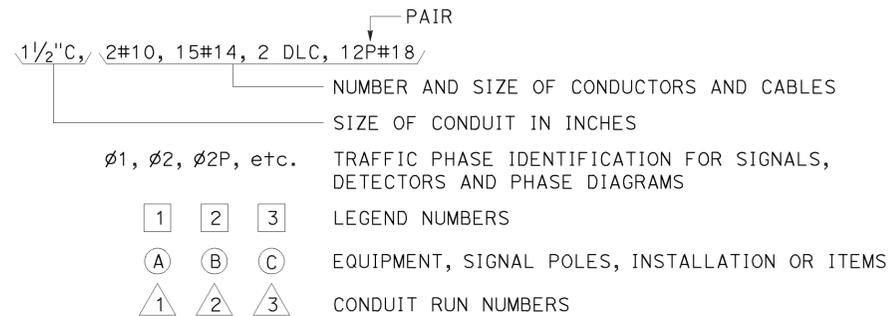
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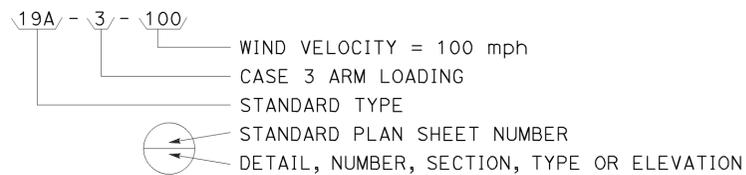
ELECTROLIER OR EQUIPMENT IDENTIFICATION NUMBER:



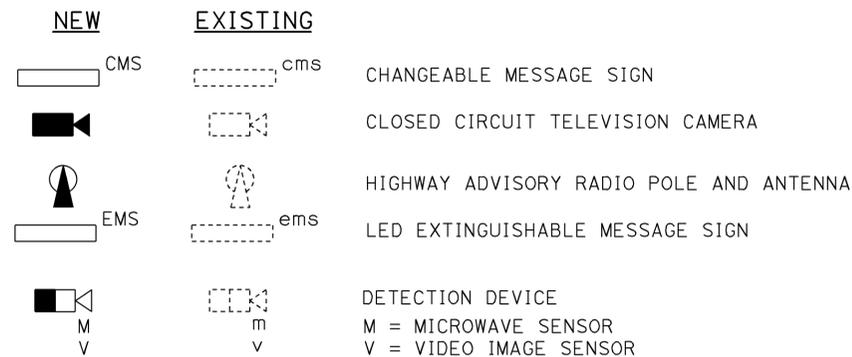
CONDUIT AND CONDUCTOR IDENTIFICATION:



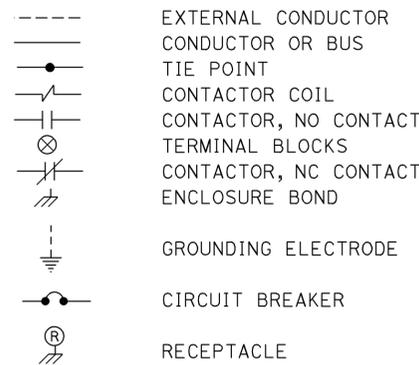
SIGNAL AND LIGHTING STANDARD (TYPICAL DESIGNATION):



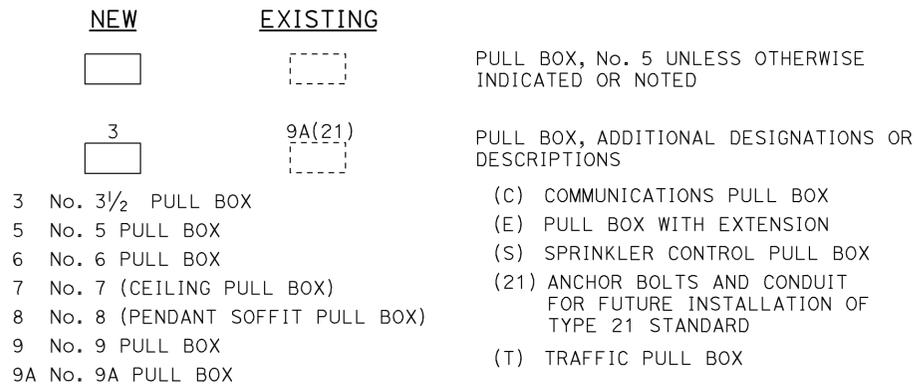
MISCELLANEOUS EQUIPMENT



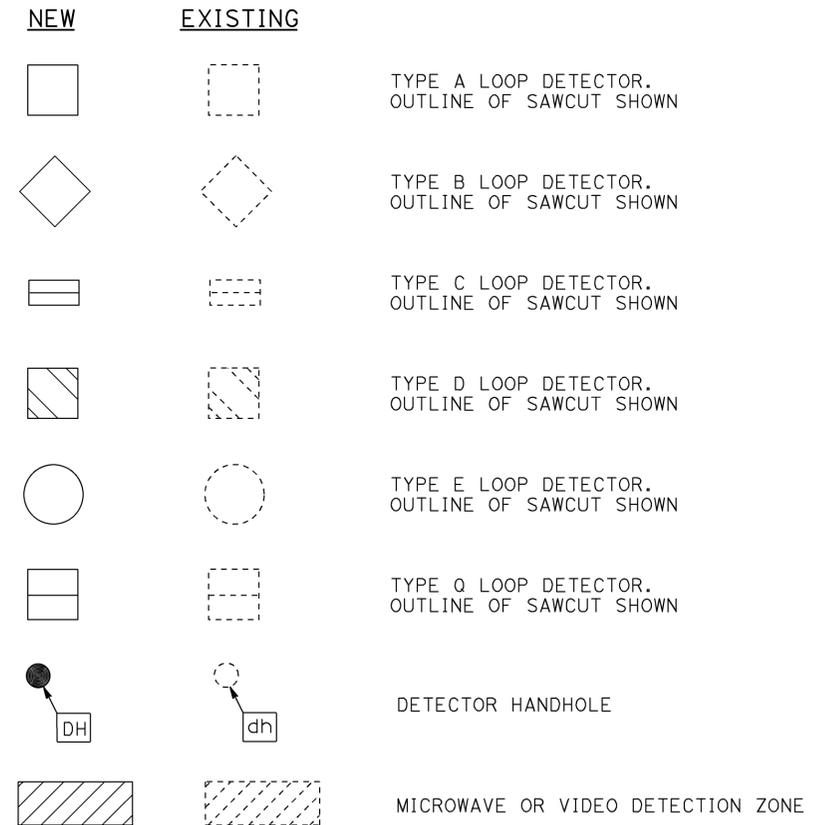
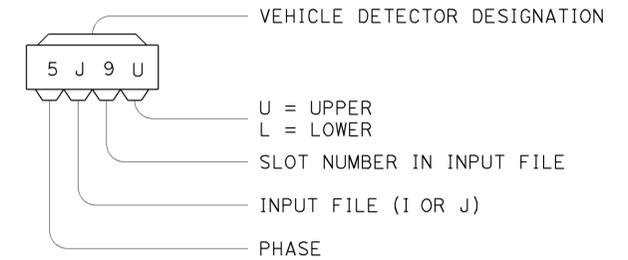
WIRING DIAGRAM LEGEND



PULL BOXES



VEHICLE DETECTORS



STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ELECTRICAL SYSTEMS (LEGEND AND ABBREVIATIONS)

NO SCALE

RSP ES-1C DATED OCTOBER 30, 2015 SUPERSEDES RSP ES-1C DATED JULY 19, 2013 AND STANDARD PLAN ES-1C DATED MAY 20, 2011 - PAGE 427 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP ES-1C

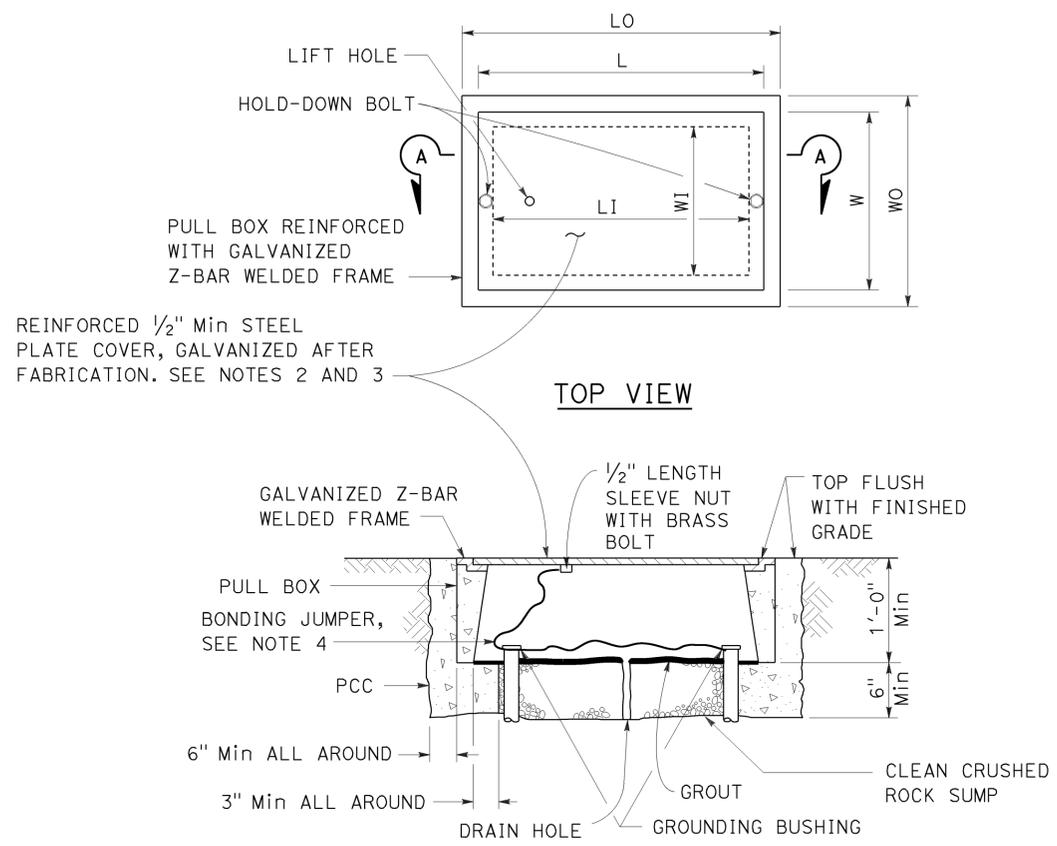
2010 REVISED STANDARD PLAN RSP ES-1C

DIST	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SBd	L5726		7	72

Theresa Gabriel
 REGISTERED ELECTRICAL ENGINEER
 October 30, 2015
 PLANS APPROVAL DATE

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

TO ACCOMPANY PLANS DATED 2-16-16



SECTION A-A
**No. 3 1/2(T), No. 5(T) AND
 No. 6(T) TRAFFIC PULL BOX**

NOTES:

- Traffic pull box shall be provided with steel cover and special concrete footing. Steel cover shall have embossed non-skid pattern.
- Steel reinforcing shall be as regularly used in the standard products of the respective manufacturer.
- Pull box covers shall be marked as follows: "SERVICE" Service circuits between service point and service disconnect; "SPRINKLER-CONTROL" Sprinkler control circuits, 50 V or less; "CALTRANS" On all pull boxes, except pull boxes marked "SPRINKLER-CONTROL"; and "TELEPHONE" Telephone service.
 - No. 3 1/2(T) pull box.
 - "SIGNAL" - Traffic signal circuits with or without lighting or sign lighting circuits.
 - "LIGHTING" - Lighting or sign lighting circuits where voltage is under 600 V.
 - No. 5(T) or 6(T) pull box.
 - "TRAFFIC SIGNAL" - Traffic signal circuits with or without lighting or sign lighting circuits.
 - "LIGHTING" - Lighting or sign lighting circuits where voltage is under 600 V.
 - "LIGHTING-HIGH VOLTAGE" - Lighting or sign lighting circuits where voltage is above 600 V.
 - "IRRIGATION" - Circuits to irrigation controller 120 V or more.
 - "RAMP METER" - Ramp meter circuits.
 - "COUNT STATION" - Count or speed monitor circuits.
 - "COMMUNICATION" - Communication circuits.
 - "TOS COMMUNICATIONS" - TOS communications line.
 - "TOS POWER" - TOS power.
 - "TDC POWER" - Telephone demarcation cabinet power.
 - "CCTV" - Closed circuit television circuits.
 - "TMS" - Traffic monitoring station circuits.
 - "CMS" - Changeable message sign circuits.
 - "HAR" - Highway advisory radio circuits.
 - "BOOSTER PUMP" - Booster pump circuit.
- Bonding jumper for metal covers shall be 3' long, minimum.
- The nominal dimensions of the opening in which the cover sets shall be the same as the cover dimensions except the length and width dimensions shall be 1/8" greater.
- Covers and boxes shall be interchangeable with California standard male and female gages. When interchanged with a standard male or female gage, the top surfaces shall be flush within 1/8".

PULL BOX	PULL BOX				COVER			
	MINIMUM * THICKNESS	MINIMUM DEPTH BOX AND EXTENSION	LO	LI	WO	WI	L **	W **
No. 3 1/2(T)	1 1/2"	1'-0"	1'-10" - 1'-11"	1'-5" - 1'-6 1/2"	1'-3" - 1'-4"	10" - 1'-0"	1'-8" - 1'-8 1/2"	1'-1" - 1'-2"
No. 5(T)	1 3/4"	1'-0"	2'-5" - 2'-6"	2'-0" - 2'-1"	1'-6" - 1'-7"	1'-1" - 1'-2"	2'-3" - 2'-3 1/2"	1'-4" - 1'-4 1/2"
No. 6(T)	2"	1'-0"	2'-11" - 3'-1"	2'-6" - 2'-7"	1'-10" - 2'-0"	1'-5" - 1'-6"	2'-9" - 2'-9 1/2"	1'-8" - 1'-8 1/2"

* EXCLUDING CONDUIT WEB ** TOP DIMENSION

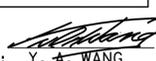
STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
**ELECTRICAL SYSTEMS
 (TRAFFIC PULL BOX)**
 NO SCALE

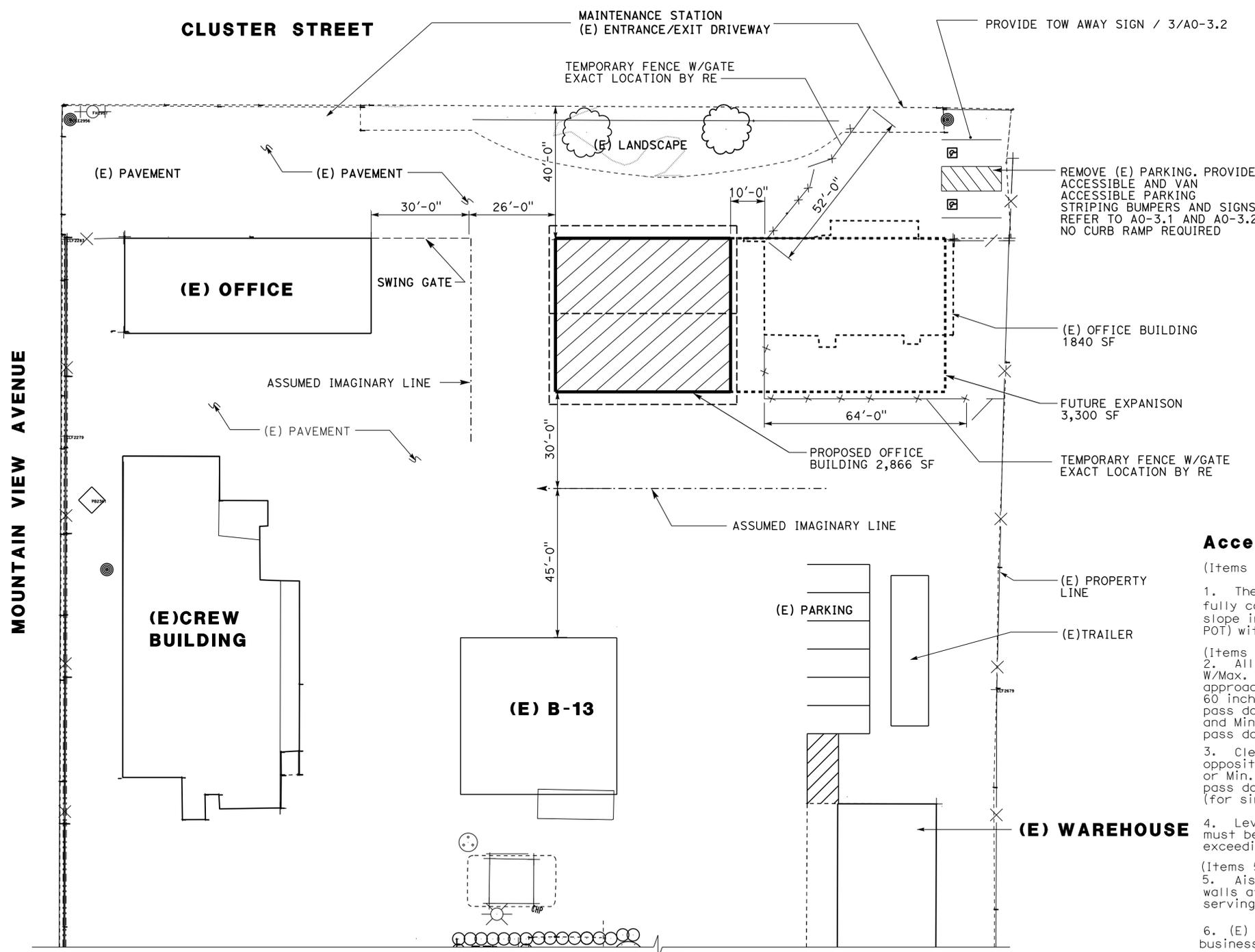
RSP ES-8B DATED OCTOBER 30, 2015 SUPERSEDES RSP ES-8B DATED JULY 19, 2013 AND RSP ES-8B DATED JANUARY 20, 2012 THAT SUPPLEMENTS THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP ES-8B

2010 REVISED STANDARD PLAN RSP ES-8B

DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SBd	L5726		8	72
LICENSED ARCHITECT  DATE APR-15 HASSAN AKHAVAN No. C-20451 04-30-17 RENEWAL DATE STATE OF CALIFORNIA					
PLANS APPROVAL DATE					
2-16-16					
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.					

ACCESSIBILITY DESIGN APPROVAL STAMP DOT / DES / OTA PROJECT ID 0814000073 Reviewed by:  Y. A. WANG Date: 5/28/2015	OFFICE OF THE STATE FIRE MARSHAL APPROVED FIRE AND PANIC ONLY Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times. Reviewed by:  BRAD GOODRICH Approval date: 6/30/15 CSFM File No. 01-36-11-0054
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Accessibility Notes

- (Items 1 is for information only)
- The architect has verified that the existing grading of the entire site fully compliant with the code accessibility requirements, including the maximum slope in any directions being 1.5% or less. Any specific pedestrian Path of Travel (POT) within the entire site needs not be designated or identified on the plan.
 - (Items 2 thru 4 are for the Contractor)
 2. All doors must have clear level areas on both sides of doors W/Max. 1.5% slope in any direction. Clear level area at door front approach in the direction of door swing must be Min. 60 inches deep x 60 inches wide (including Min. 24 inches pass door strike edge) at the exterior side of exterior door, and Min. 60 inches deep x 54 inches wide (including Min. 18 inches pass door strike edge) at other locations.
 3. Clear level area at door front approach in the direction of opposite door swing must be Min. 48 inches deep x 36 inches wide, or Min. 48 inches deep x 48 inches wide (including Min. 12 inches pass door strike edge) if door has both latch and closer. (for single door, or Min 48 inches deep x double-door width for double doors).
 4. Level change at the doorway, including threshold thickness, must be Max. 1/2 inch W/Max. 1:2 slope. Level change not exceeding 1/4 inch may be vertical.
 - (Items 5 thru 6 are for the Bldg. User)
 5. Aisles formed by equipment/ furniture/ stored materials/ walls at any room or space must be Min. 36 inches wide if serving one side, and Min. 44 inches wide if serving both sides.
 6. (E) Site vehicle swing gates must remain in open position during business hours to serve as site arrival point for pedestrian POT.

S I T E P L A N

SCALE: 1"=20'-0"



DESIGN SUPERVISOR	DESIGNER	CHECKED BY:	SHEET LEGEND A-1 ARCHITECTURAL ST-1 STRUCTURAL M-1 MECHANICAL EE-1 ELECTRICAL MP-1 PLUMBING SS-1 SANITARY	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE No.	SAN BERNARDINO MS OFFICE BUILDING GENERAL PLAN	SHEET OF
DESIGN ARCHITECT	DRAWN BY	STRUCTURAL REVIEW				54M		
TAEWW Imperial - CCSC Rev. 04/14						POST MILE L5726		
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS				0 1 2 3	UNIT: 3600 CONTRACT No.: 08-0K841 PROJECT NUMBER & PHASE: 0814000073	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF
							- 13	X X

ARCHITECTURAL

TITLE SHEET

- GP-1 GENERAL PLAN
- A0-1 INDEX OF SHEETS & NOTES/BLDG DATA
- A0-2 ARCH ABBREVIATIONS
- A0-3.1 ACCESSIBILITY ACCESSIBILITY STANDARD DETAILS
- A0-3.2 ACCESSIBILITY ACCESSIBILITY STANDARD DETAILS
- A0-3.3 ACCESSIBILITY ACCESSIBILITY STANDARD DETAILS
- A0-3.4 ACCESSIBILITY ACCESSIBILITY STANDARD DETAILS
- A0-3.5 ACCESSIBILITY ACCESSIBILITY STANDARD DETAILS
- A0-4 FINISH SCHEDULE
- A0-5 DOOR SCHEDULE
- A0-6 WINDOW SCHEDULE
- A0-7 RESTROOMS
- A1-1 FLOOR PLAN
- A1-2 EXTERIOR ELEVATIONS
- A1-3 EXTERIOR ELEVATIONS
- A1-4 SECTION
- A1-5 ROOF PLAN REFLECTED CEILING PLAN
- A1-7 ROOF DETAILS
- A1-8 DOOR DETAILS
- A1-9 WALL DETAILS
- A1-10 CABINET DETAILS
- A1-11 MISCELLANEOUS CEILING DETAILS

MECHANICAL

- M0-00 LEGENDS AND ABBREVIATIONS
- M0-01 MODIFIED SITE PLAN
- M1-01 PLUMBING PLAN 1
- M1-02 PLUMBING PLAN 2
- M1-03 PLUMBING DIAGRAM
- M1-04 HVAC PLAN
- M2-01 MECHANICAL DETAILS-1
- M2-02 MECHANICAL DETAILS-2

ELECTRICAL

- EE0-0 LEGEND
- EE0-1 NOTES AND ABBREVIATIONS
- EE0-2 SITE PLAN
- EE1-1 POWER PLAN
- EE1-2 LIGHTING PLAN
- EE1-3 HVAC POWER PLAN
- EE1-4 COMMUNICATION PLAN
- EE2-1 DETAILS-1
- EE2-2 PANEL SCHEDULE
- EE2-3 LIGHTING CONTROL PROGRAM SCHEDULE

STRUCTURAL

- ST-1 LEGEND
- ST-1A WOOD FRAMING STANDARD - NOTES
- ST-1B WOOD FRAMING STANDARD - DETAILS
- ST-1C WOOD FRAMING STANDARD - DETAILS
- ST-2 CONCRETE STANDARD
- LOG OF TEST BORINGS
- ST1-0 DESIGN CRITERIA AND DETAIL NOTES
- ST1-1 FOUNDATION PLAN
- ST1-2 ROOF FRAMING PLAN
- ST1-2.1 CEILING FRAMING PLAN
- ST1-3 CROSS SECTION
- ST1-4 LONGITUDINAL SECTION
- ST1-5 FOUNDATION DETAILS
- ST1-6 ROOF FRAME DETAILS
- ST1-7 WALL FRAME DETAILS
- ST1-8 ROOF BLOCKING DETAILS
- ST1-9 RIM JOIST CONNECTION DETAILS
- ST1-10 PARTITION WALL

WATER WASTEWATER

- SS-0 NOTES, LEGEND AND ABBREVIATIONS
- SS-1 SEWER PLAN
- SS-2 DETAILS
- SS-3 MANHOLE DETAIL
- W-0 NOTES, LEGENDS AND ABBREVIATIONS
- W-1 SITE PLAN
- W-2 DETAILS

LICENSED ARCHITECT  DATE APR-15

LICENSED ARCHITECT
 Hassan Akhavan
 No. C-20451
 04-30-17 RENEWAL DATE
 STATE OF CALIFORNIA

2-16-16
 PLANS APPROVAL DATE

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ACCESSIBILITY DESIGN APPROVAL STAMP
 DOT / DES / OTA

PROJECT ID
0814000073

Reviewed by: 
 Y. A. WANG
 Date: 5/28/2015

OFFICE OF THE STATE FIRE MARSHAL
APPROVED FIRE AND PANIC ONLY
 Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.

Reviewed by: 
 BRAD GOODRICH
 Approval date: 6/30/15

CSFM File No. 01-36-11-0054

FIRE SEPARATION MATRIX BASED ON 2013 CBC TABLES 602 & 705.8

	EAST WALL	WEST WALL	NORTH WALL	SOUTH WALL
SEPARATION DISTANCE	(E)	30'-0" *	40'-0" PLUS **	30'-0" *
FIRE-RESISTANCE RATING	N/A	0	0	0
ALLOWABLE OPENING PERCENTAGE	N/A	70%	NO LIMIT	NO LIMIT
ACTUAL OPENING PERCENTAGE	N/A	21.5%	N/A	N/A

* TO ASSUMED IMAGINARY LINES
 ** TO THE CENTERLINE OF ADJACENT STREET

Existing office building and new office building are 10' apart and they are regulated as one building. Existing building is 1840 sq. ft. New building is 2688 sq. ft. Total bldg area is 4528 sq. ft., less than the allowable area of 9,000 sq. ft.

BUILDING DATA THIS PROJECT IS IN COMPLIANCE																		
OCCUPANCY	CONSTRUCTION TYPE	NUMBER OF STORIES	BUILDING HEIGHT	BUILDING AREA	AREA OF PROJECT	SEPARATED OR NON-SEPARATED USE	ALLOWABLE AREA	AREA INCREASES	HEIGHT INCREASES	FIRE SPRINKLERED	FIRE ALARM	OTHER FIRE PROTECTION SYSTEMS IF ANY	SMOKE CONTROL SYSTEM	OCCUPANT LOAD	YEAR BUILDING CONSTRUCTED	HIGH FIRE HAZARD ZONE	SEISMIC JOINTS	EMERGENCY RESPONDER RADIO COVERAGE
B	V-B	1	32'-0"	2688 S.F.	4528 S.F.	NOT APPL	9,000 S.F.	NO	NO	NOT REQ'D	NOT REQ'D	NO	NOT REQ'D	27	NEW	NO	NO	YES

DESIGN BY Hassan Akhavan CHECKED Don Alsey	DETAILS BY Hassan Akhavan CHECKED Don Alsey	QUANTITIES BY CHECKED	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE No. 54M	SAN BERNARDINO MS OFFICE BUILDING INDEX OF SHEETS & NOTES/BLDG DATA	SHEET	
					POST MILE L5726		A0-1	
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3			UNIT: 3600 CONTRACT No.: 08-0K841 PROJECT NUMBER & PHASE: 0814000073		DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF

TAEWW Imperial - CCSC Rev. 04/14

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17-FEB-2016 09:11

ARCHITECTURAL ABBREVIATIONS

& L	AND	EPS	EXPANDED POLYSTYRENE	LBS	POUNDS	RO	ROUGH OPENING
∅	ANGLE	Eq	EQUAL	LED	LIGHT EMITTING DIODE	Rswm	RESAWN
□	CENTER LINE	Equip	EQUIPMENT	LF	LINEAR FEET	Rte	ROUTE
◻	DIAMETER	Esc	ESCALATOR	LIRH	LOW INTENSITY RADIANT HEATING	RW	RETAINING WALL
◻	OR ROUND	ETW	EDGE OF TRAVEL WAY	Lkr	LOCKER	RWL	RAINWATER LEADER
◻	SQUARE	EWC	ELECTRIC WATER COOLER	Llv	LONG LEG VERTICAL	S	SOUTH
◻	PENNY	EW/FD	EYE WASH WITH FLOOR DRAIN	LOB	LAYOUT LINE	SC	SOLID CORE
◻	DEGREE	Exp	EXPANSION	LPG	LIQUEFIED PETROLEUM GAS	Sched	SCHEDULE
ADA	AMERICANS WITH DISABILITIES ACT	Expo	EXPOSED, EXPOSURE	LS	LAG SCREW	SD	SOAP DISPENSER
A/C	AIR CONDITIONING	Ext	EXTERIOR	Lvr	LOUVER	SDST	SELF DRILLING SELF TAPPING SQUARE FEET
AC	ASPHALT CONCRETE	FD	FLOOR DRAIN FOUNDATION	M	METER	Sh	SHOWER
AB	ANCHOR BOLT	Fdn	FLOOR DRAIN FOUNDATION	Mat	MATERIAL	Shwr	SHOWER
Abv	ABOVE	FE	FIRE EXTINGUISHER BRACKET MOUNTED	Max	MAXIMUM	Sht	SHEET
Acous	ACOUSTICAL	FEC	FIRE EXTINGUISHER CABINET	MB	MACHINE BOLT	Shtg	SHEATHING
Addl	ADDITIONAL	FF	FINISH FLOOR	Mbr	MEMBER	Sim	SIMILAR
ADJ	ADJUSTABLE	FG	FINISH GRADE	Mech	MECHANICAL	SL	SCORE LINE
Alt	ALTERNATE	FH	FIRE HYDRANT	Memb	MEMBRANE	SMS	SHEET METAL SCREW
Alum	ALUMINUM	FHC	FIRE HOSE CABINET	Met	METAL	SOHD	SECTIONAL OVERHEAD DOOR
APA	AMERICAN PLYWOOD ASSOCIATION	FHMS	FLATHEAD METAL SCREW	Mfr	MANUFACTURER	Spec	SPECIFICATION
Arch	ARCHITECTURAL, ARCHITECT	FHS	FLATHEAD WOOD SCREW	Mgr	MANAGER	SPS	STRUCTURAL PLYWOOD
Asph	ASPHALT	FHW	FLATHEAD WOOD SCREW FINISH	MH	MAN HOLE	Sq	SQUARE
Bd	BOARD	Fin	FINISH	MIn	MINIMUM	Sqrra	SAFETY ROADSIDE REST AREA
Bit	BITUMINOUS	FJ	FLOOR JOIST	Misc	MISCELLANEOUS	SS	SERVICE SINK
Bldg	BUILDING	Flash	FLASHING	Mkdb	MALLEABLE IRON	SST	STAINLESS STEEL
Blk	BLOCK	Fir	FLOOR	mm	MILLIMETER	Sta	STATION
Blkg	BLOCKING	Fir	FLOOR	MO	MASONRY OPENING	Stag	STAGGER
Bm	BEAM	Fluor	FLUORESCENT	Mtd	MOUNTED	Std	STANDARD
BN	BOUNDARY NAILING	FOC	FACE OF CONCRETE	Mul	MULLION	Stf	STOREFRONT
Bot	BOTTOM	FOF	FACE OF FINISH	N	NORTH	Stl	STEEL
Br	BRIDGE	FOM	FACE OF MASONRY	ND	NAPKIN DISPOSAL	Stor	STORAGE
Btm	BOTTOM	FOS	FACE OF STUD	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION	Struc	STRUCTURAL
Btwn	BETWEEN	FOS	FACE OF STUD	NTS	NOT TO SCALE	Susp	SUSPENDED
BUR	BUILT-UP-ROOFING	FRPP	FIBERGLASS REINFORCED PLASTIC PANEL	NIC	NOT IN CONTRACT	T	TREAD
CBC	CALIFORNIA BUILDING CODE	Ft	FEET, FOOT	No	NUMBER	T&G	TONGUE & GROOVE
CJ	CONTROL JOINT	Ftg	FOOTING	Nom	NOMINAL	TB	TOLL BOOTH
CL	CHAIN LINK	Furr	FURRING	NTS	NOT TO SCALE	Tel	TELEPHONE
Cab	CABINET	Fwy	FREEWAY	Obsc	OBSCURE	Temp	TEMPERED
CB	CATCH BASIN	Ga	GAUGE	OC	ON CENTER	Ter	TERRAZZO
Cem	CEMENT	Gal	GALLON	OD	OUTSIDE DIAMETER	Thk	THICK
CER	CER	Galv	GALVANIZED	Off	OFFICE	Thld	THRESHOLD
CFS	COLD-FORMED STEEL	GB	GRAB BAR	OFD	OVERFLOW DRAIN	TJ	TOOLED JOINT
CH	CLOTHES HOOK	GI	GALVANIZED IRON	OG	ORIGINAL GROUND	Tkbd	TACKBOARD
CIDH	CAST IN DRILLED HOLE	GLM	GLUE LAMINATED MEMBER	OH	OPPOSITE HAND	TN	TOE NAIL
CIP	CAST IN PLACE	Giz	GLAZING	Ohd	OVERHEAD	TNVM	TAMPON/NAPKIN VENDING MACHINE
Cig	CEILING	Gr	GRADE	OHWS	OVERHEAD WOOD SCREW	TOC	TOP OF CURB OR CONCRETE
CMU	CONCRETE MASONRY UNIT	GSM	GALVANIZED SHEET METAL	Op	OPERATIONS	TOP	TOP OF PAVEMENT
Clo	CLOSET	Gyp	GYPSON	Opng	OPENING	TOS	TOE OF SLOPE
Clr	CLEAR	Gyp Shtg	GYPSON SHEATHING	Opp	OPPOSITE	ToT	TOTAL
Col	COLUMN	HB	HYDRANT BOX	Opt	OPTION, OPTIONAL	TOW	TOP OF WALL
Conc	CONCRETE	HC	HOLLOW CORE	P	PITCH	TS	TUBE STEEL
Conn	CONNECTION	HD	HOLD DOWN	PB	POST BASE	TSCD	TOILET SEAT COVER
Const	CONSTRUCTION	Hdr	HEADER	PC	POST CAP	TTD	TOILET TISSUE DISPENSER
Cont	CONTINUOUS	Hdwd	HARDWOOD	PCC	PORTLAND CEMENT CONCRETE	TTD/NR	TOILET TISSUE DISPENSER/ NAPKIN RECEPTACLE
Corr	CORRIDOR	Hdwr	HARDWARE	PDF	POWDER DRIVEN FASTENER	Tty	TELETYPEWRITER
Cpt	CARPET	Hex	HEXAGONAL	PH	PHILLIPS HEAD	Typ	TYPICAL
CT	CERAMIC TILE	HF	HOSE FAUCET	PI	PLATE	Unf	UNFINISHED
Ctr	CENTER	Hgr	HANGER	PLam	PLASTIC LAMINATE	UON	UNLESS OTHERWISE NOTED
Ct+sk	COUNTERSUNK	HM	HOLLOW METAL	Plas	PLASTER	Ur	URINAL
CY	CUBIC YARD	Horiz	HORIZONTAL	Plywd	PLYWOOD	Var	VARIES
Dbl	DOUBLE	HP	HIGH POINT	PMF	PRESSED METAL FRAME	VCT	VINYL COMPOSITION TILE
Dept	DEPARTMENT	Hr	HOUR	Pr	PAIR	Ver+T	VERTICAL
Det	DETAIL	HSB	HIGH STRENGTH BOLT	Prtn	PARTITION	Vest	VESTIBULE
DF	DOUGLAS FIR	HSS	HOLLOW STRUCTURAL SECTION	PT	POINT	VR	VENT RISER
Dia	DIAMETER	Ht	HEIGHT	PTD	PAPER TOWEL DISPENSER	VTR	VENT THRU ROOF
Dim	DIMENSION	HVAC	HEATING, VENTILATING, AIR CONDITIONING	PTD/R	PAPER TOWEL DISPENSER / RECEPTACLE	W	WEST
Dn	DOWN	Hwy	HIGHWAY	PVC	POLYVINYL CHLORIDE	W/	WITH
Dp	DEEP	ID	INSIDE DIAMETER	PWB	PREFABRICATED WOOD I BEAM	W/O	WITHOUT
Dr	DOOR	IFS	INTEGRATED FACILITY SYSTEM	QT	QUARRY TILE	WC	WATER CLOSET
Ds	DOWNSPOUT	In	INCH	(R)	RELOCATED	Wd	WOOD
Dwgs	DRAWINGS	Info	INFORMATION	R	RADIUS, RISER	Wdw	WINDOW
Dwr	DRAWER	Insul	INSULATION	R/W	RIGHT OF WAY	WH	WATER HEATER
(E)	EXISTING	Int	INTERIOR	RD	ROOF DRAIN	WP	WORKING POINT
Eq	EACH	ISA	INTERNATIONAL SYMBOL OF ACCESSIBILITY	Rdwd	REDWOOD	WR	WATER RESISTANT
EEW	EMERGENCY EYEWASH AND SHOWER	IWH	INSTANT WATER HEATER	Ref	REFERENCE	Wsc+T	WAINSCOT
EF	EXHAUST FAN	Jan	JANITOR	Refg	REFRIGERATOR	Wt	WEIGHT
EHD	ELECTRIC HAND DRYER	JB	JUNCTION BOX	Reinf	REINFORCED(ING)	Wtpr	WATERPROOFING
EIFS	EXTERIOR INSULATION & FINISH SYSTEM	JH	JOIST HANGER	Req	REQUIRED	WWF	WELDED WIRE FABRIC
EJ	EXPANSION JOINT	Jt	JOIST	Rfg	ROOFING	Yd	YARD
EI	ELEVATION (HEIGHT)	Jt	JOIST	Rfswn	ROUGHSAWN		
Elec	ELECTRICAL	Kit	KITCHEN	RH	ROUND HEAD		
Elev	ELEVATION (VIEW)	Lab	LABORATORY	RHWS	ROUND HEAD WOOD SCREW		
Eivr	ELEVATOR	Lav	LAVATORY	RJ	ROOF JOIST		
Emer	EMERGENCY	LBF	POUND-FORCE	Rm	ROOM		
Encl	ENCLOSURE						
EP	EDGE OF PAVEMENT						
EPB	ELECTRICAL PANELBOARD						

DESIGN CRITERIA

The building work for this project has been designed to conform to the 2013 Edition of Title 24, California Code of Regulations: Title 19, CCR, Public Safety, SFM Regulations 2013 CA Administrative Code Title 24, Pt 1 2013 CA Building Code (CBC) Title 24, Pt 2 2013 CA Electrical Code (CEC) Title 24, Pt 3 2013 CA Mechanical Code (CMC) Title 24, Pt 4 2013 CA Plumbing Code (CPC) Title 24, Pt 5 2013 CA Energy Code CCR Title 24, Pt 6 2013 CA Fire Code (CFC) CCR Title 24, Pt 9 2013 CA Green Building Standards Code Title 24, Pt 11 2013 CA Referenced Standards Code Title 24, Pt 12 2010 ADA Standards 2013 NFPA 13, Sprinkler Systems (CA Amended) 2013 NFPA 14, Standpipe Systems (CA Amended) 2013 NFPA 20, Pumps for Fire Protection 2013 NFPA 24, Fire Service Mains (CA Amended) 2013 NFPA 72, Fire Alarm Code (CA Amended)

DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SBd	L5726		10	72

APR-15

LICENSED ARCHITECT *Hassan Akhavan* DATE _____

RENEWAL DATE 04-30-17

2-16-16

PLANS APPROVAL DATE

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.

ACCESSIBILITY DESIGN APPROVAL STAMP

DOT / DES / OTA

PROJECT ID 0814000073

Reviewed by: *Y. A. WANG*

Date: 5/28/2015

OFFICE OF THE STATE FIRE MARSHAL

APPROVED FIRE AND PANIC ONLY

Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.

Reviewed by: *BRAD GOODRICH*

Approval date: 6/30/15

CSFM File No. 01-36-11-0054

GENERAL NOTES

- Verify all controlling dimensions and field conditions before ordering or fabricating any materials or assemblies.
- Notify the engineer in writing of any discrepancies between these plans and actual measurements or field conditions.

SYMBOLS

	Grid line		Building section letter
	Match line		Sheet
	Working point		Detail number
	Room number		Shaded arrow indicates elevation drawn
	Door designation		Section letter; section drawn on same sheet
	Window designation		Elevation letter; elevation drawn on same sheet
	Louver designation		Drawn on same sheet
	Color designation		
	Equipment/ furniture designation		

SCOPE OF WORK

- CONSTRUCT OFFICE BUILDING

 DESIGN SUPERVISOR DESIGN ARCHITECT	DESIGNER Martin Fraser	CHECKED BY Don Alsey	SHEET LEGEND A-1 ARCHITECTURAL ST-1 STRUCTURAL M-1 MECHANICAL E-1 ELECTRICAL MP-1 PLUMBING SS-1 SANITARY	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE No. 54M	SAN BERNARDINO MS OFFICE BUILDING ARCHITECTURAL ABBREVIATIONS	SHEET A0-2
	DRAWN BY Martin Fraser	STRUCTURAL REVIEW				POST MILE L5726		REVISION DATES (PRELIMINARY STAGE ONLY)

TAEWW Imperial - CCSC Rev. 04/14

FOR REDUCED PLANS 0 1 2 3

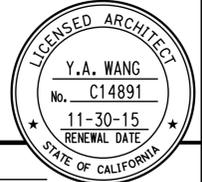
UNIT: 3600 CONTRACT No.: 08-0K841 PROJECT NUMBER & PHASE: 0814000073

DISREGARD PRINTS BEARING EARLIER REVISION DATES

P:\d1st_08\0814000073_san_bernardino_ms_office\expedite\A0_2.dgn

DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SBd	L5726		11	72


 LICENSED ARCHITECT
 09-05-14 DATE
 2-16-16
 PLANS APPROVAL DATE
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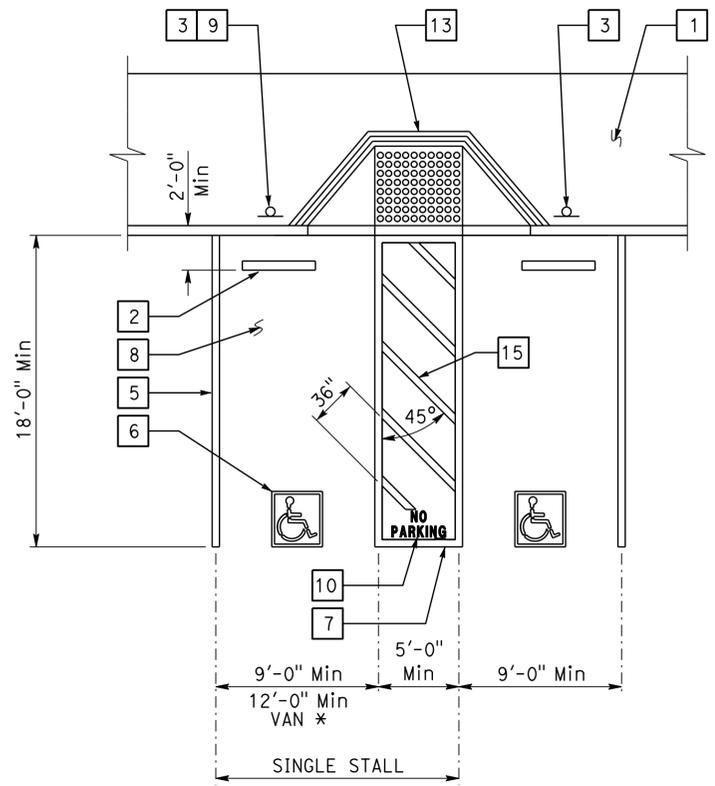


ACCESSIBILITY DESIGN APPROVAL STAMP
 DOT / DES / OTA
 PROJECT ID
0814000073
 Reviewed by: 
 Y. A. WANG
 Date: 5/28/2015

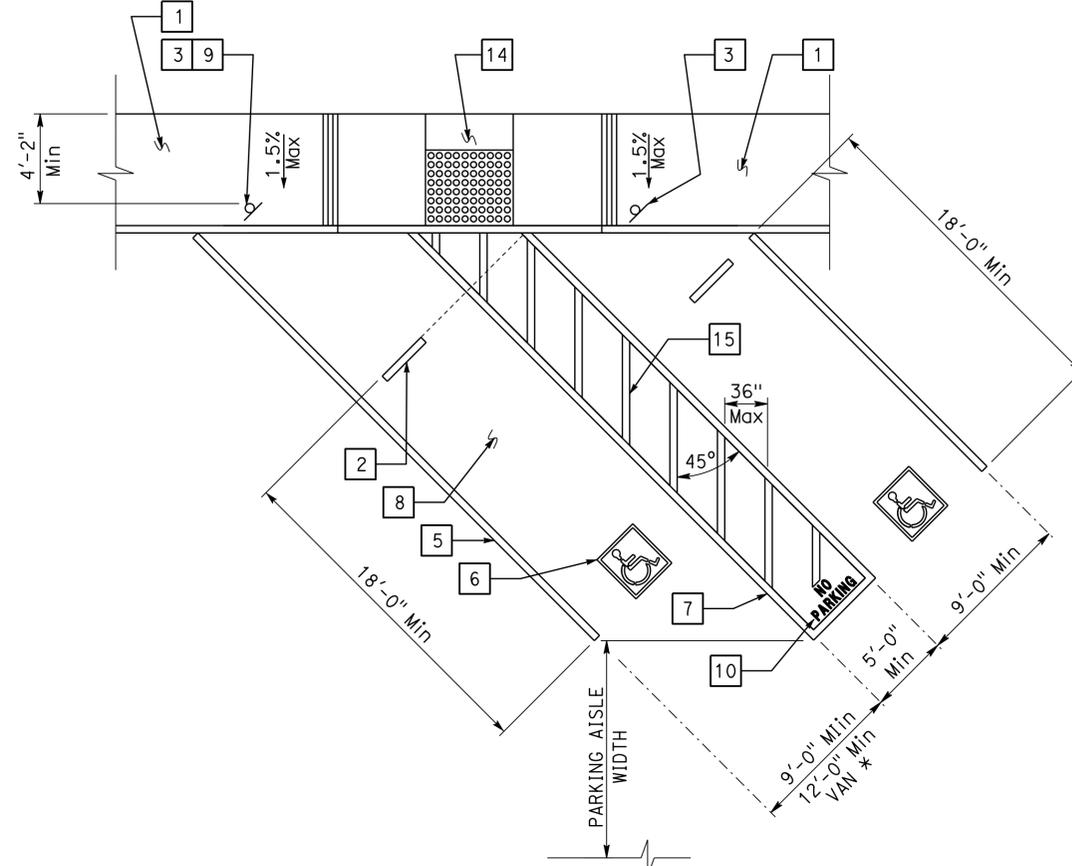
OFFICE OF THE STATE FIRE MARSHAL
APPROVED FIRE AND PANIC ONLY
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 Reviewed by: 
 BRAD GOODRICH
 Approval date: 6/30/15
 CSFM File No. 01-36-11-0054

KEYED NOTE LEGEND FOR DETAILS

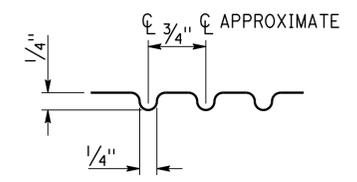
- Concrete walkway (where occurs). See plans for width, layout (may vary), finish, joints and elevations.
- Parking bumper (away from access aisle). See Specifications.
- Accessible parking space signage. See Detail 1 on sheet A0-3.2.
- 1' wide grooved border on level surface Typ at ramp perimeter. See Detail 3 on this sheet.
- 4" wide white parking stall designation stripe. See site plan(s) for additional stall striping. See specifications for painting.
- Accessible parking surface identification painted on pavement. See Detail 6 on sheet A0-3.2.
- 4" wide blue border designating non-parking access aisle to curb ramp. Access aisle must be on passenger side only.
- "NO PARKING" in Min 12" high white letters to be placed within access aisle to curb ramp. See Standard Plan RSP A90B.
- Level landing -1.5% Max slope W/36" deep detectable warning surface adjoining access aisle or vehicular way. See Detail 6 on this sheet.
- Detectable warning surface to extend full width and 36" deep. See Detail 6 on this sheet. The edge of detectable warning surface nearest the street must be between 6" and 8" from the gutter flow line.
- Curb ramp. See Detail 4 on this sheet. Also see plans for width and layout (may vary).
- Curb ramp. See Detail 5 on this sheet. Also see plans for width and layout (may vary).
- 4" wide hatched lines at 36" OC. Color to contrast with aisle surface, preferably blue or white.



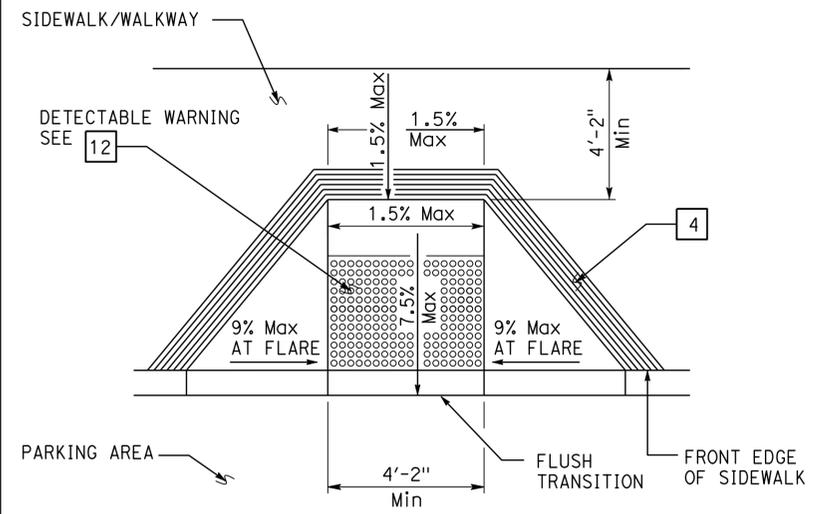
1 ACCESSIBLE PARKING STALL
 * 9'-0" Min van parking allowed w/ 8'-0" Min access aisle.



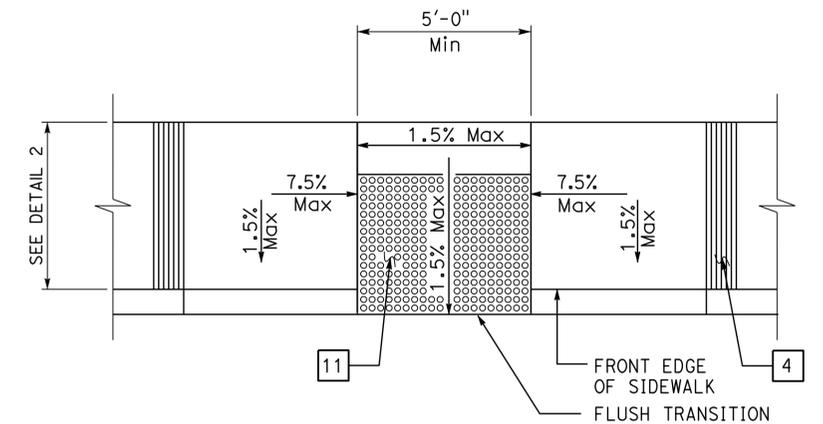
2 DIAGONAL ACCESSIBLE PARKING STALL
 See plan for any variation of diagonal parking. Angle of parking stalls are indicated on plans or matching any existing angle.



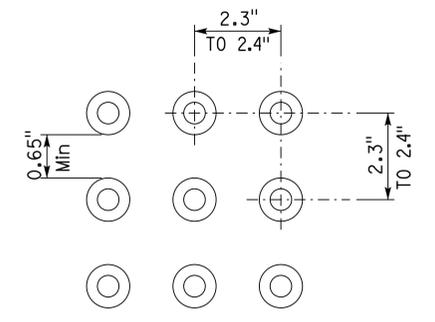
3 GROOVE DETAIL



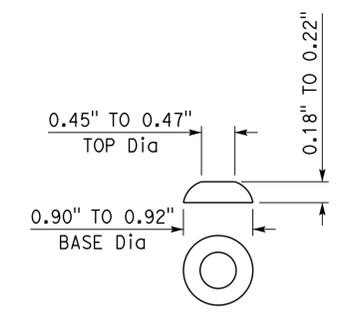
4 PERPENDICULAR CURB RAMP



5 PARALLEL CURB RAMP



6 DETECTABLE WARNING SURFACE - TRUNCATED DOMES



7 DOME

DETAILS

No scale unless otherwise noted

NOTE: SPECIFIC DETAILS OR NOTES ON OTHER SHEETS SHALL PREVAIL OVER STANDARD DETAILS AND NOTES ON THIS SHEET

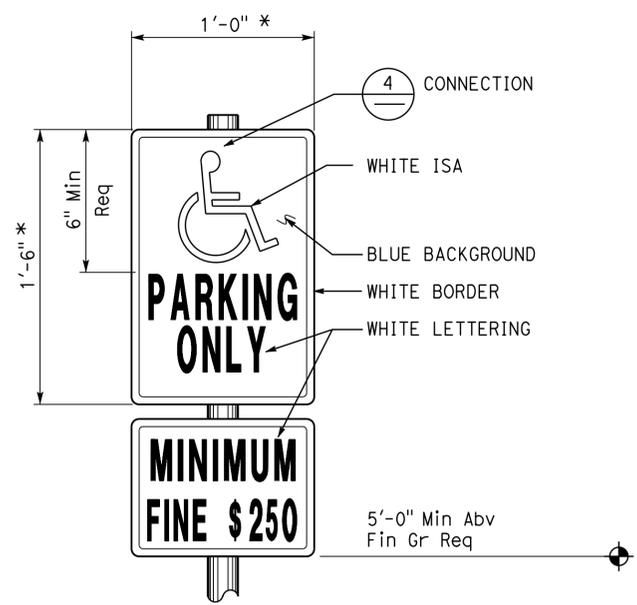
STANDARD DRAWING			
FILE NO. _____	DESIGN BY D. Aisey	CHECKED Y. A. Wang	APPROVED 
DRAWING DATE 09-14	DETAILS BY D. Good	CHECKED Y. A. Wang	DESIGN SUPERVISOR
SUBMITTED BY Y.A. Wang			

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF ENGINEERING SERVICES
 ARCHITECTURAL AND STRUCTURAL DESIGN
 BRIDGE No. 54M
 POST MILE L5726

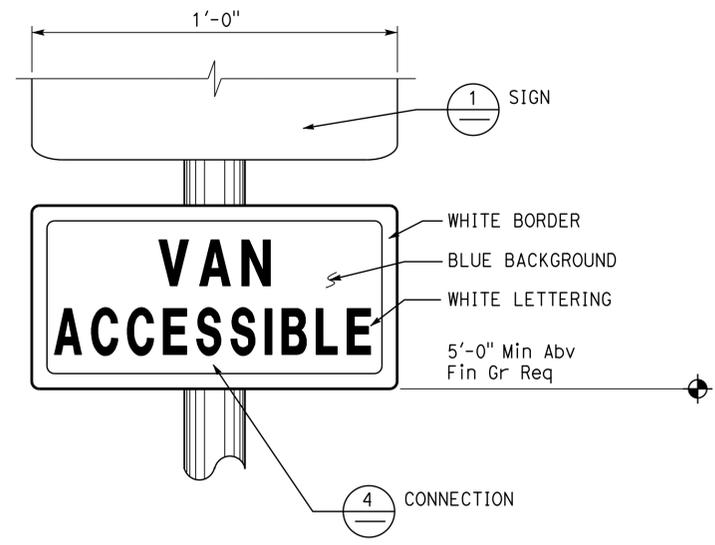
SAN BERNARDINO MS OFFICE BUILDING		SHEET A0-3.1
ACCESSIBILITY ACCESSIBILITY STANDARD DETAILS		
REVISION DATES (PRELIMINARY STAGE ONLY)		
SHEET	OF	

DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SBd	L5726		12	72

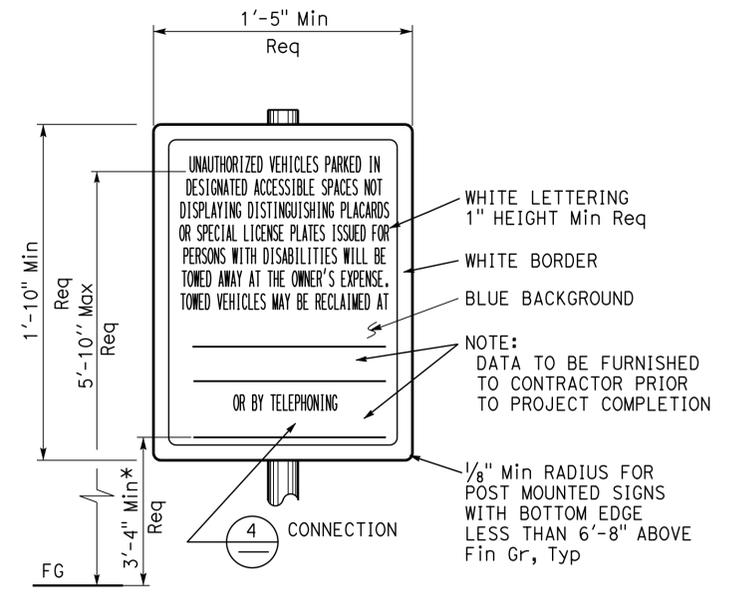
<i>Y.A. Wang</i>	09-05-14	
LICENSED ARCHITECT	DATE	
2-16-16		
PLANS APPROVAL DATE		
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.		



1 ACCESSIBLE PARKING SIGN
Refer to Site Plan for locations.
Combo sign may be used.
* Min area 70 Sq in Req



2 ACCESSIBLE VAN PARKING SIGN
Refer to Site Plan for locations.
Combo sign may be used.

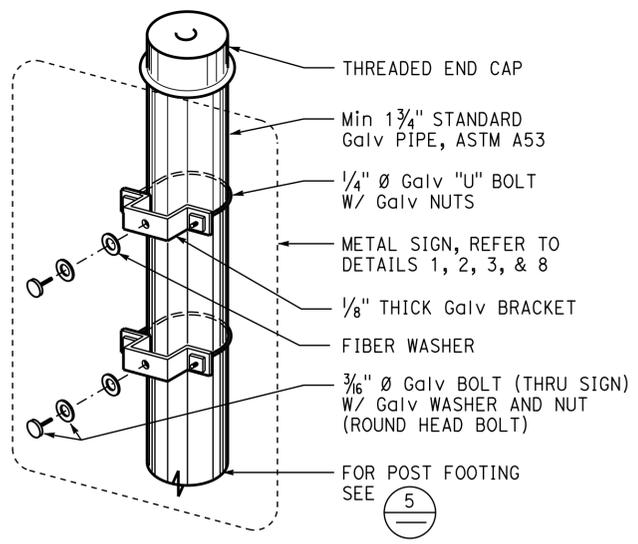


3 UNAUTHORIZED VEHICLES PARKING SIGN
Refer to Site Plan for locations. Colors may vary.
Sign must not be posted in a path of travel.
* To baseline of visual characters of numbers.

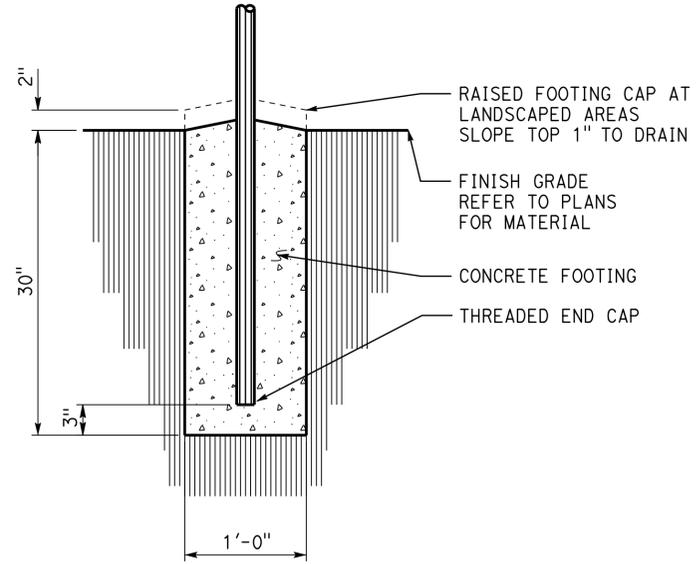
Note:
All listed sign sizes and mounting heights are recommended, unless otherwise noted as required.

ACCESSIBILITY DESIGN APPROVAL STAMP DOT / DES / OTA PROJECT ID 0814000073 Reviewed by: <i>Y.A. Wang</i> Date: 5/28/2015	OFFICE OF THE STATE FIRE MARSHAL APPROVED FIRE AND PANIC ONLY Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times. Reviewed by: <i>Brad Goodrich</i> BRAD GOODRICH Approval date: 6/30/15 CSFM File No. 01-36-11-0054
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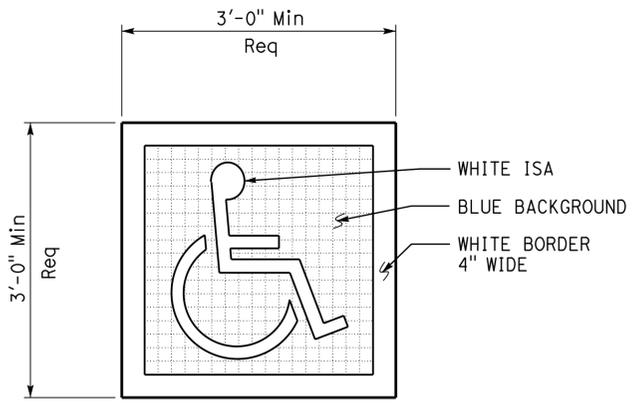
Signage Note:
Visual characters (letters & numbers) in details on this sheet & not otherwise shown must comply with 2013 CBC Section 703.5.



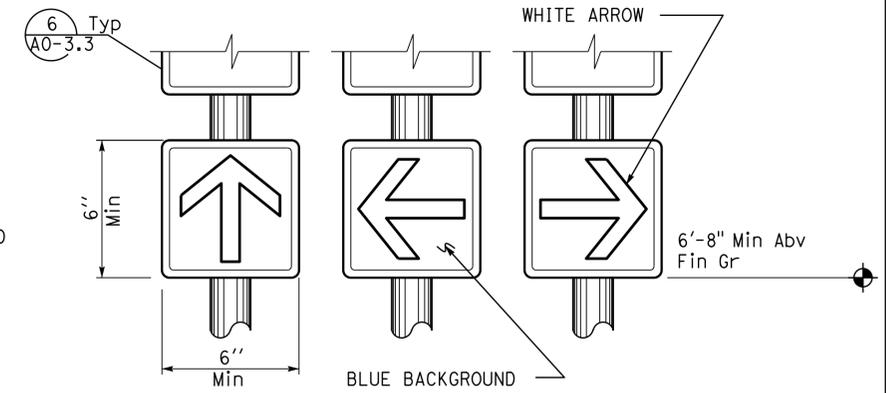
4 SIGN CONNECTION



5 SIGN POST FOOTING



6 ACCESSIBLE PARKING SURFACE IDENTIFICATION
Refer to Details 1 and 2 on sheet A0-3.1 for locations.
Centerline of surface ID must be Max 6" from centerline of parking space.
Lower side of surface ID must align with end of parking space length.



7 DIRECTIONAL SIGNS
Refer to Site Plan or General Plan for locations.
Wall or door mounted signs may be used.
Combo sign may be used.
Colors may vary.

DETAILS
No scale unless otherwise noted

NOTE: SPECIFIC DETAILS OR NOTES ON OTHER SHEETS SHALL PREVAIL OVER STANDARD DETAILS AND NOTES ON THIS SHEET

STANDARD DRAWING			
FILE NO. _____	DESIGN BY D. Alsey	CHECKED Y. A. Wang	APPROVED <i>R.E. Travia</i>
DRAWING DATE 09-14	DETAILS BY D. Good	CHECKED Y. A. Wang	DESIGN SUPERVISOR
SUBMITTED BY Y.A. Wang			

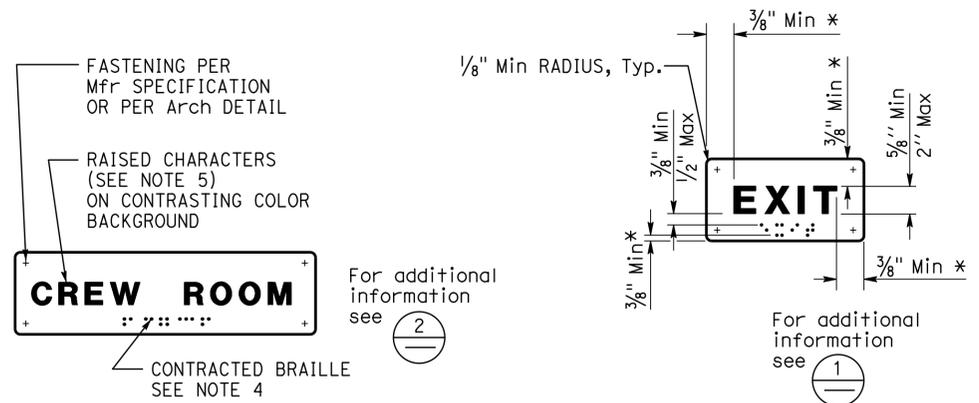
STATE OF CALIFORNIA	DIVISION OF ENGINEERING SERVICES	BRIDGE No. 54M	SAN BERNARDINO MS OFFICE BUILDING	SHEET A0-3.2
DEPARTMENT OF TRANSPORTATION	ARCHITECTURAL AND STRUCTURAL DESIGN	POST MILE L5726	ACCESSIBILITY ACCESSIBILITY STANDARD DETAILS	

UNIT: 3600	CONTRACT No.: 08-0K841	DISREGARD PRINTS BEARING EARLIER REVISION DATES
PROJECT NUMBER & PHASE: 0814000073		

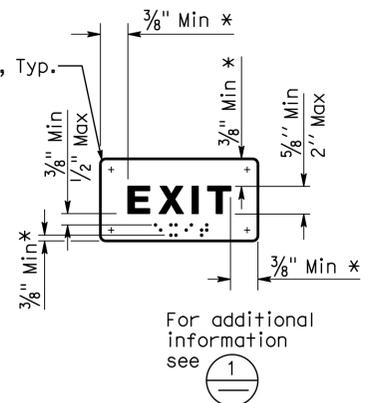
REVISION DATES (PRELIMINARY STAGE ONLY)		SHEET	OF

DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SBd	L5726		13	72

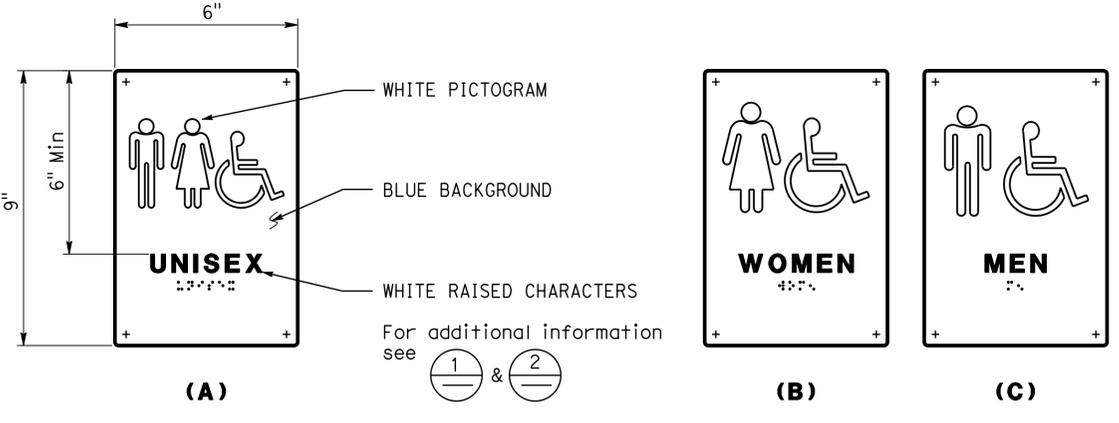
 LICENSED ARCHITECT DATE 09-05-14		
PLANS APPROVAL DATE 2-16-16 <i>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.</i>		



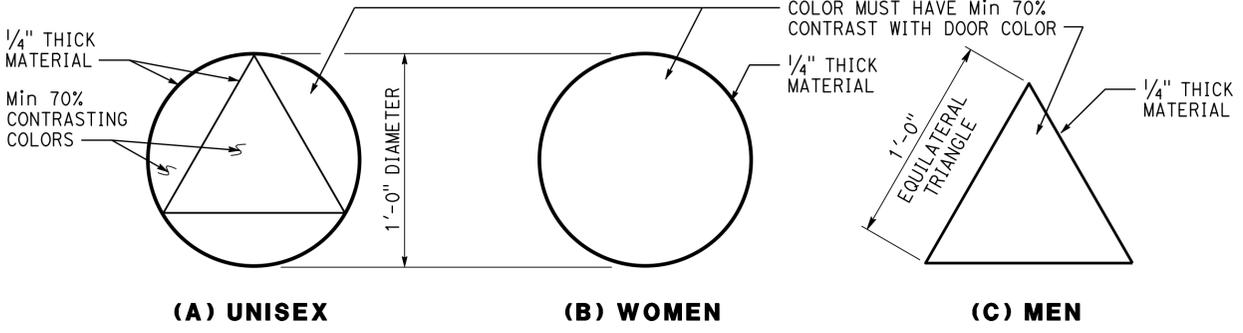
1 ROOM IDENTIFICATION SIGN
 Install per Detail 5.
 Text varies.
 See plans, Ext elevations, or door schedule for locations and text.



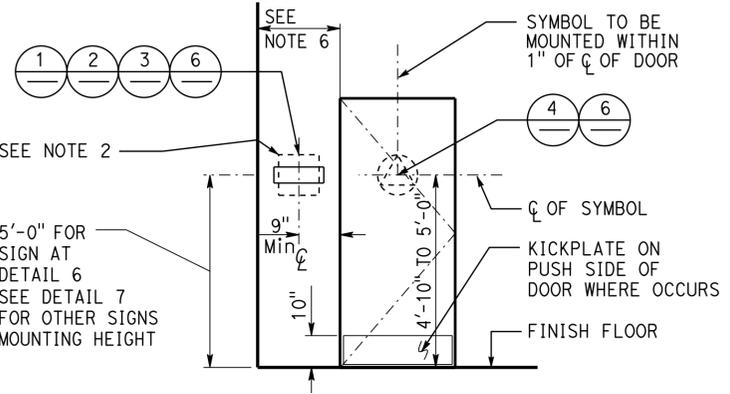
2 INTERIOR EXIT SIGN
 Install per Detail 5.
 Text may vary.
 See plans, or door schedule for locations and text.
 * From characters / Braille to any raised border or elements



3 RESTROOM/SHOWER ROOM SIGNS
 Install per Detail 5.
 See Detail 7 for sign mounting height.

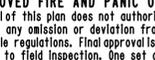


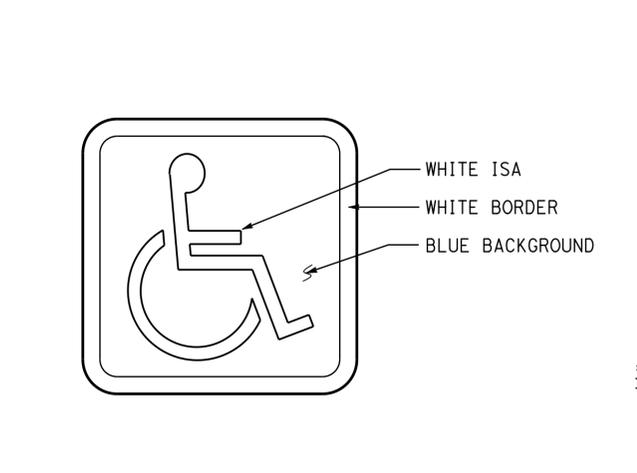
4 RESTROOM/SHOWER ROOM GEOMETRIC SYMBOLS AT DOOR
 Install per Detail 5.
 Any pictogram and raised characters are not required and not recommended.



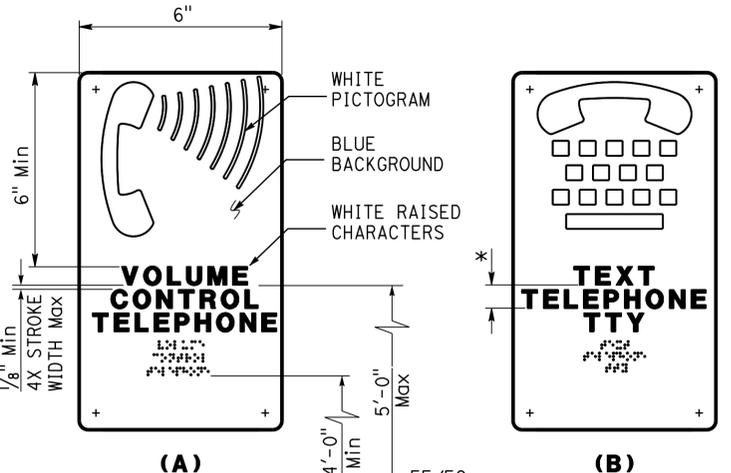
5 SIGN/SYMBOL LOCATIONS
 Refer to signage notes for additional information.

- SIGNAGE NOTES:**
1. Locate room identification signs, exit signs, and restroom signs on wall adjacent to door on latch side. If wall space is not available on latch side, locate on nearest adjacent wall. Locate sign on inactive leaf at double doors, or to the right of right hand door at double doors with two active leaves.
 2. Refer to specifications for sign material and other color selection. Except Detail 6, sign colors may vary from details.
 3. See door schedule for text and sign location, UON.
 4. Braille must be contracted (Grade 2) and compliant with 2013 CBC Section 11B-703.3.
 5. Raised characters must be uppercase sans serif raised 1/32" Min. Fonts must be selected where width of letter "O" is 60% Min and 110% Max of height of letter "I". Stroke thickness of letter "I" must be 15% Max of height of the character.
 6. Provide 18"x18" Min clear floor space in front of and centered with raised characters.
 7. Sign color must have a minimum of 70% contrast to door or wall color. Text and pictogram must have a minimum of 70% contrast to sign color.
 8. Raised character height is measured based on height of uppercase letter "I".

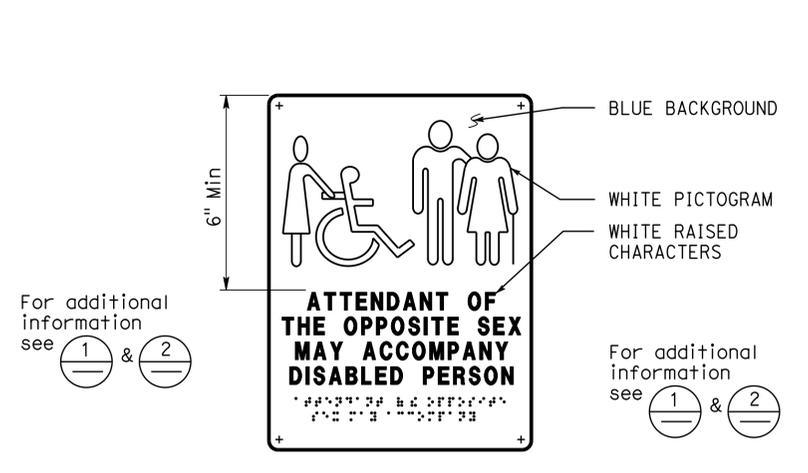
ACCESSIBILITY DESIGN APPROVAL STAMP DOT / DES / OTA PROJECT ID 0814000073 Reviewed by:  Date: 5/28/2015	OFFICE OF THE STATE FIRE MARSHAL APPROVED FIRE AND PANIC ONLY Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times. Reviewed by:  BRAD GOODRICH Approval date: 6/30/15 CSFM File No. 01-36-11-0054
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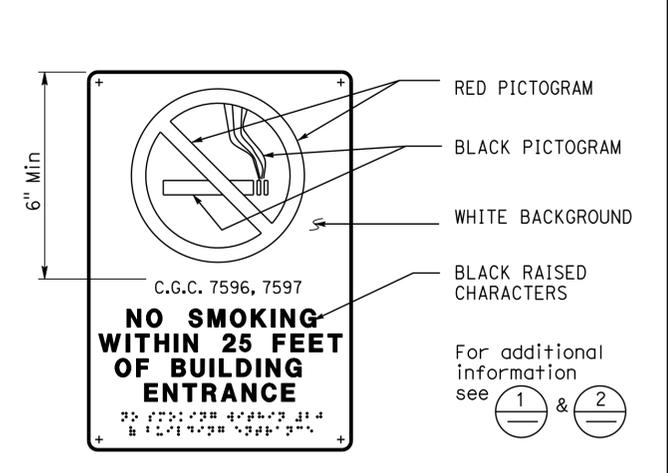
6 INTERNATIONAL SYMBOL OF ACCESSIBILITY SIGN
 Install per Detail 5.
 See plans, elevations, or schedule for sign locations.
 Decal may be used.



7 TELEPHONE SIGNS
 Text may vary.
 See plans or exterior elevations for sign locations and mounting heights.
 * 135% min and 170% max of character ht.



8 RESTROOM ACCOMPANY SIGN
 See plans or elevations for locations.
 See Detail 7 for sign mounting heights.



9 NO SMOKING SIGN
 See plans or ext elevations for locations.
 See Detail 7 for sign mounting heights.

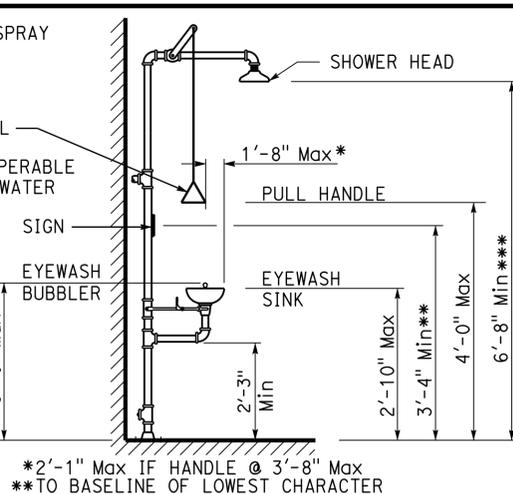
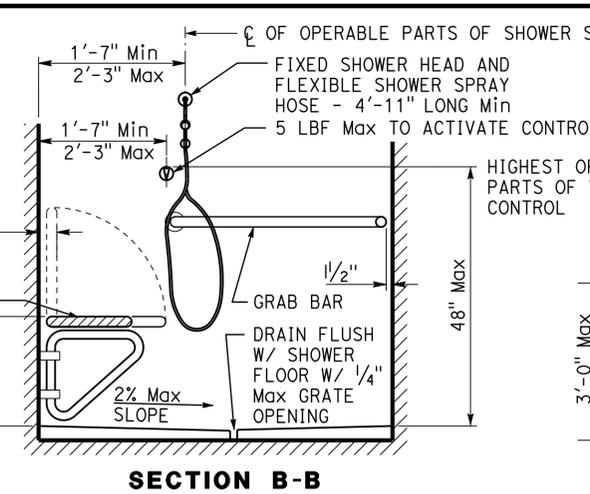
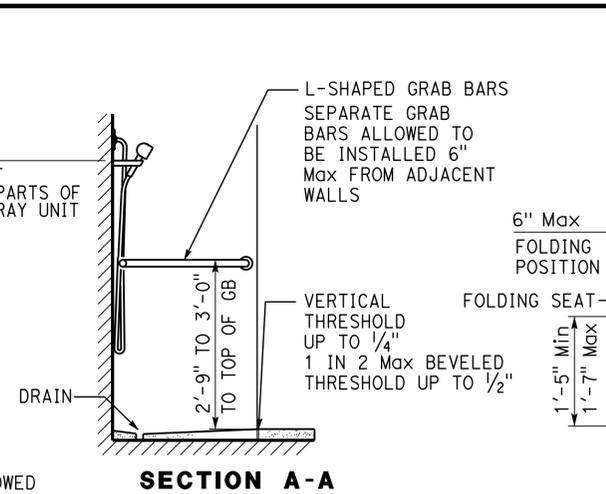
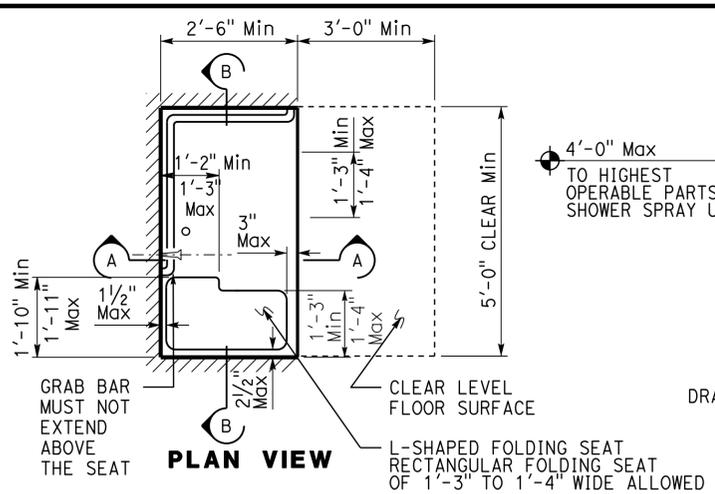
DETAILS
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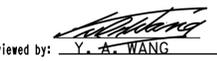
STANDARD DRAWING				STATE OF CALIFORNIA		DIVISION OF ENGINEERING SERVICES		BRIDGE No. 54M		SAN BERNARDINO MS OFFICE BUILDING		SHEET A0-3.3	
FILE NO. 09-14	DESIGN BY D. Aalsey	CHECKED Y. A. Wang	APPROVED 	DEPARTMENT OF TRANSPORTATION		ARCHITECTURAL AND STRUCTURAL DESIGN		POST MILE L5726		ACCESSIBILITY STANDARD DETAILS			
SUBMITTED BY Y.A. Wang				ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		UNIT: 3600 CONTRACT No.: 08-0K841 PROJECT NUMBER & PHASE: 0814000073		DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY)		SHEET OF	

DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SBd	L5726		14	72

 LICENSED ARCHITECT DATE 09-05-14		
PLANS APPROVAL DATE 2-16-16 <i>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.</i>		



*2'-1" Max IF HANDLE @ 3'-8" Max
 **TO BASELINE OF LOWEST CHARACTER
 ***IF LESS THAN 6'-8", 2013 CBC SECTION 11B-307 PROTRUSION LIMITS MAY APPLY FOR SHOWER HEAD.

ACCESSIBILITY DESIGN APPROVAL STAMP
 DOT / DES / OTA
 PROJECT ID
0814000073
 Reviewed by: 
 Y. A. WANG
 Date: 5/28/2015

OFFICE OF THE STATE FIRE MARSHAL
 APPROVED FIRE AND PANIC ONLY
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 BRAD GOODRICH
 Approval date: 6/30/15
 CSFM File No. 01-36-11-0054

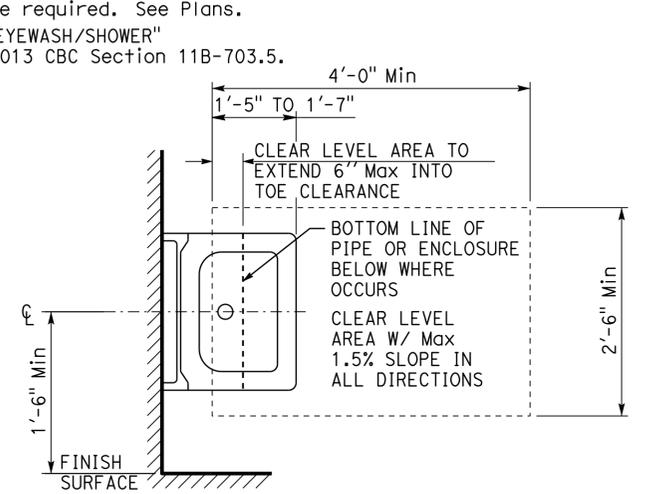
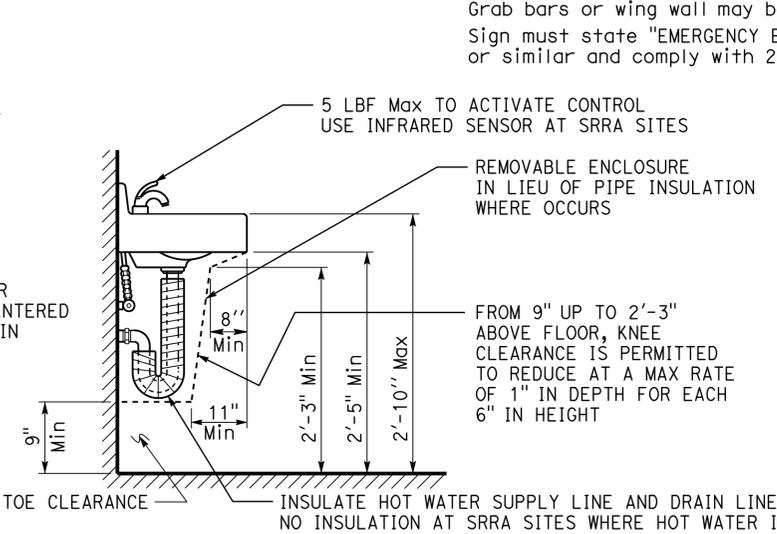
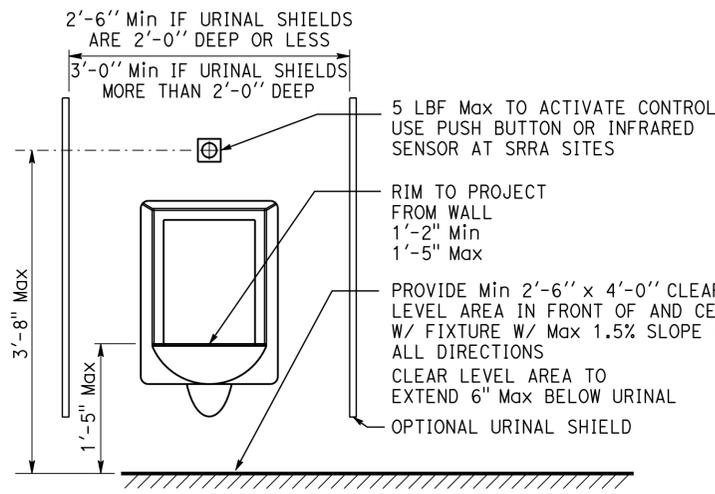
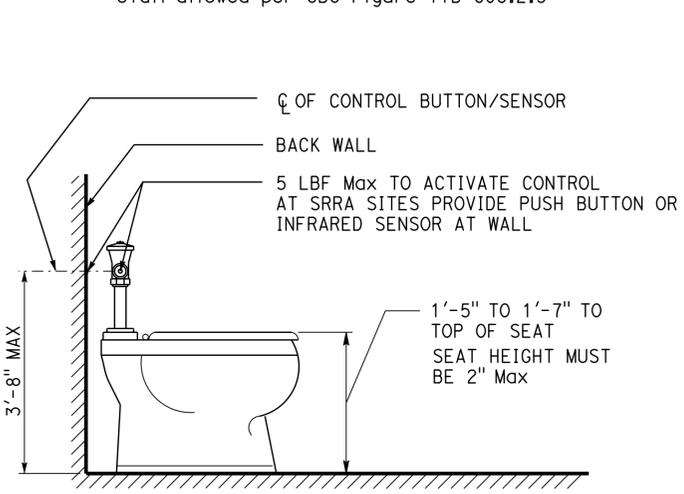
1 SHOWER STALL

Additional standard shower head may be added to wall opposite shower seat. Locate water diverter per water control. Alternate shower stall allowed per CBC Figure 11B-608.2.3

2 EMERGENCY EYEWASH/SHOWER

Foot pedal may be added to operate equipment
 Provide Min 2'-6" x 4'-0" clear level area in front of and centered w/ fixture w/ 1'-5" to 1'-7" under fixture and Max 1.5% slope in all directions.
 Grab bars or wing wall may be required. See Plans.
 Sign must state "EMERGENCY EYEWASH/SHOWER" or similar and comply with 2013 CBC Section 11B-703.5.

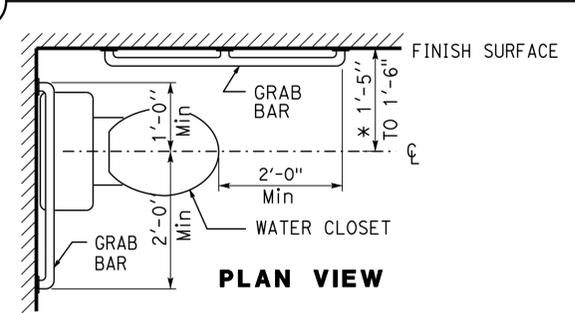
Any soap dish must be on the control wall at 3'-4" Max above the shower floor and within reach limits from the seat.



3 WATER CLOSET

See Specifications for fixture type

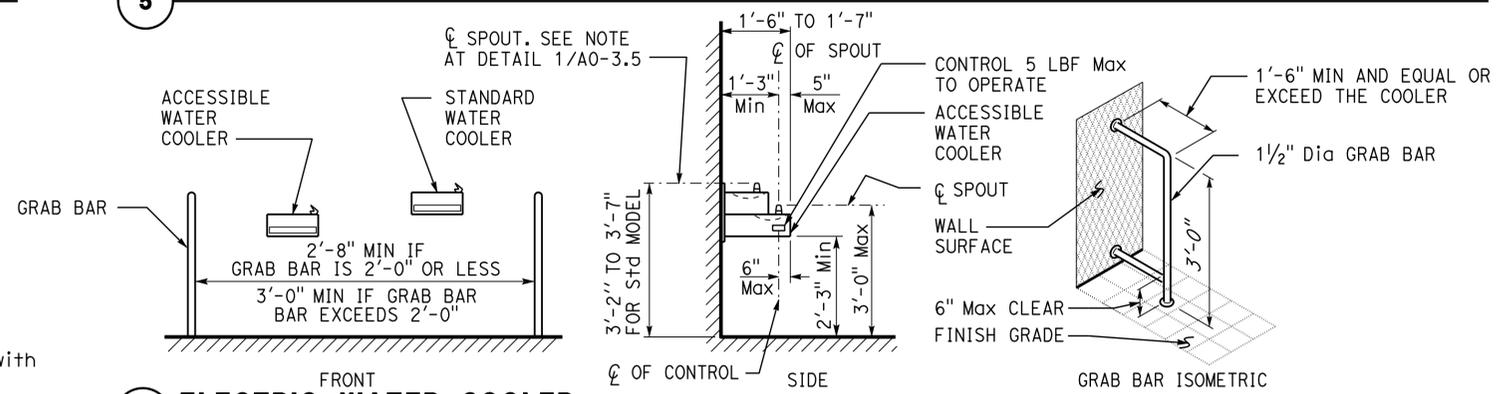
4 URINAL



Grab bar note:
 1. Circular grab bars to be 1 1/4" To 2" diameter with clear space of 1 1/2" to smooth wall surface.
 2. L-shaped grab bars allowed

* 1'-5" to 1'-7" at ambulatory accessible compartment.

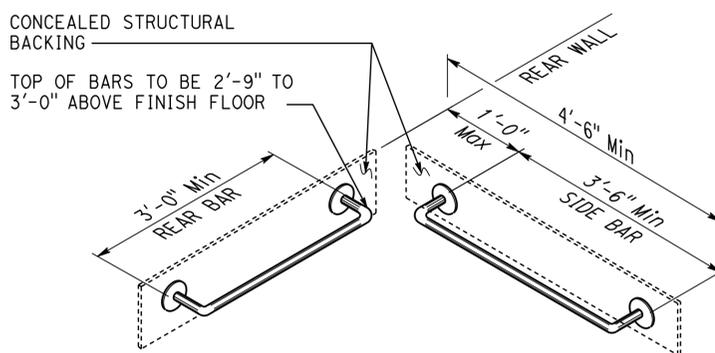
5 LAVATORY



7 ELECTRIC WATER COOLER

In lieu of grab bars, other types of wing walls may be used.
 Provide Min 2'-6" x 4'-0" clear level area in front of and centered w/ low fixture w/ 1'-5" to 1'-7" under fixture and Max 1.5% slope in all directions.
 See clear level area at detail 1/A0-3.5 for size and location.

6 GRAB BARS/ WATER CLOSET



DETAILS
 No scale unless otherwise noted

NOTE: SPECIFIC DETAILS OR NOTES ON OTHER SHEETS SHALL PREVAIL OVER STANDARD DETAILS AND NOTES ON THIS SHEET

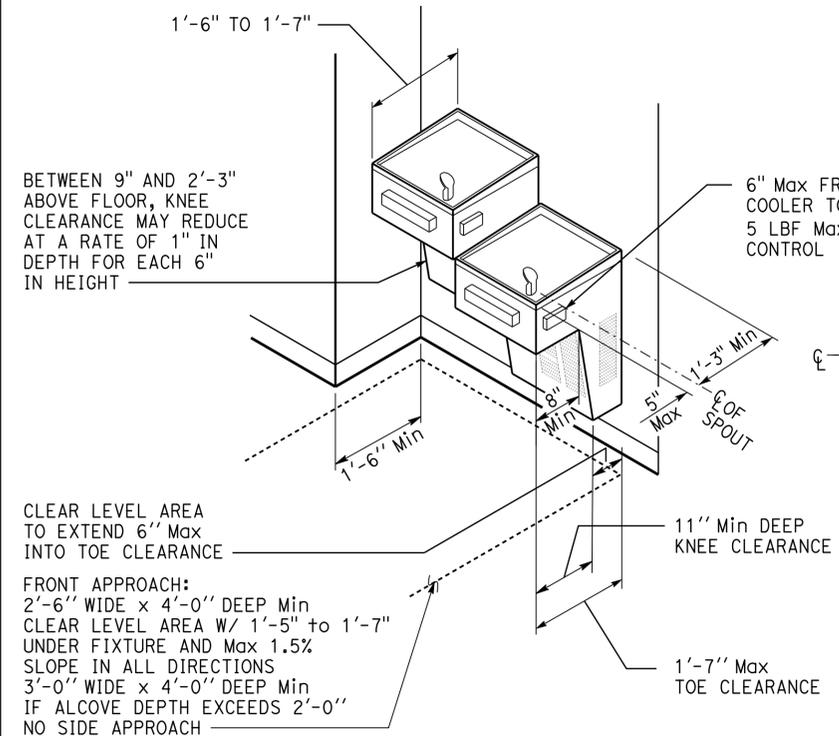
STANDARD DRAWING				STATE OF CALIFORNIA		DIVISION OF ENGINEERING SERVICES		BRIDGE No.		SAN BERNARDINO MS OFFICE BUILDING		SHEET	
FILE NO.	DESIGN BY	CHECKED	APPROVED	ARCHITECTURAL AND STRUCTURAL DESIGN		54M		POST MILE		ACCESSIBILITY STANDARD DETAILS		A0-3.4	
09-14	D. Aalsey	Y. A. Wang		DEPARTMENT OF TRANSPORTATION		L5726		L5726					
SUBMITTED BY Y.A. Wang				DESIGN SUPERVISOR		UNIT: 3600 CONTRACT No.: 08-0K841		DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY)		SHEET OF	
TAEWW Imperial - CCSC Rev. 04/14				ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		PROJECT NUMBER & PHASE: 0814000073							

DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SBd	L5726		15	72

<i>Y.A. Wang</i>	09-05-14	
LICENSED ARCHITECT	DATE	

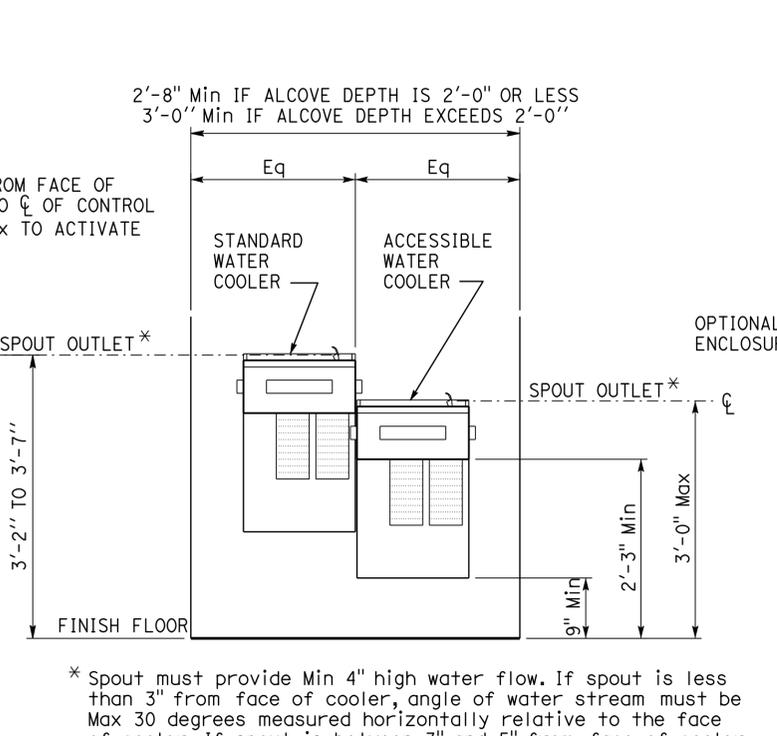
2-16-16
PLANS APPROVAL DATE

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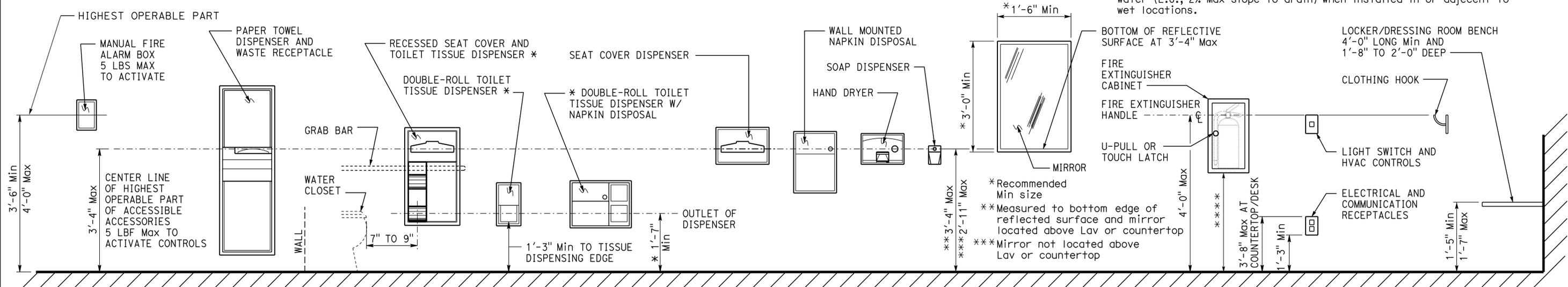
1 ELECTRIC WATER COOLER AT ALCOVE

Fixture type may vary.
Width of alcove may vary.
Two fixtures with separate mounting heights may be installed at separate locations.
The cooler may project 4" Max from alcove surface into any circulation path.



2 TELEPHONE

Notes:
1. Bench must be affixed to wall along long dimension or to floor, or provide back support 4'-0" L Min, extend from 2" Max above seat to 1'-6" Min above seat, and must be 2 1/2" Max from rear edge of seat.
2. Bench seat surface must be slip resistant and must not accumulate water (E.G., 2% Max slope to drain) when installed in or adjacent to wet locations.



3 ACCESSORIES

DETAILS
No scale unless otherwise noted

NOTE: SPECIFIC DETAILS OR NOTES ON OTHER SHEETS SHALL PREVAIL OVER STANDARD DETAILS AND NOTES ON THIS SHEET

STANDARD DRAWING				STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE No. 54M POST MILE L5726	SAN BERNARDINO MS OFFICE BUILDING ACCESSIBILITY STANDARD DETAILS	SHEET A0-3.5
FILE NO. _____	DESIGN BY D. Aalsey	CHECKED Y. A. Wang	APPROVED <i>Y.A. Wang</i>					
DRAWING DATE 09-14	DETAILS BY D. Good	CHECKED Y. A. Wang	DESIGN SUPERVISOR	UNIT: 3600 CONTRACT No.: 08-0K841 PROJECT NUMBER & PHASE: 0814000073				SHEET OF

17-FEB-2016 09:12

ROOM FINISH SCHEDULE

ROOM NUMBER	ROOM NAME	FLOOR		BASE	WALLS																CEILING		NOTES				
		CARPET	VINYL COMPOSITION TILE	CERAMIC TILE	CONCRETE	RESILIENT BASE	CERAMIC TILE COVERED BASE	NORTH				EAST				SOUTH				WEST				GYPSUM BOARD	PAINTED CEILING	COLOR	
								GYPSUM BOARD	CERAMIC TILE	OTHER	OTHER	OTHER	OTHER	GYPSUM BOARD	CERAMIC TILE	OTHER	OTHER	OTHER	OTHER	GYPSUM BOARD	CERAMIC TILE	OTHER					OTHER
100	ENTRANCE	1				3	5	7					5						5	7			5	10			
101	STORMWATER OFFICE	1				3	5						5						5	7			5				
102	HAZMAT OFFICE	1				3	5						5						5	7			5				
103	HALL	1				3	5	7					5	7					5				5	10			
104	CLERICAL	1				3	5	7					5						5				5				
105	OFFICE	1				3	5	7					5						5				5				
106	RECORD/EQUIP STOR		2			3	5						5	7					5				5	10			
107	EQUIP ALCOVE	1				3							5						5				5	10			
108	COM EQUIPMENT		2			3	6						6	7					6				6	10			
109	MECH ELECT JAN		2			3	9						9						9				9	5			
110	BREAK ROOM		2			3	5	4					5	4					5	7			5				
111	WOMEN'S RESTROOM			4			4	5	4				5	4					5	4			5		ALL WALLS FS 17925		
112	HALL	1				3	5	7					5						5				5	10			
113	MEN'S RESTROOM			4			4	5	4				5	4					5	4	7		5	4	ALL WALLS FS 17925		

COLOR & PAINT SCHEDULE

ITEM	COATING SYSTEM	FEDERAL COLOR NUMBER
METAL ROOFING	PRE-FINISHED BY Mfr	
STRUCTURAL STEEL	2	
Misc METALS	2	
CONCRETE WALL & PEDESTALS EXCEPT ONLY PAINT	1	FS 30372

DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SBd	L5726		16	72



LICENSED ARCHITECT  DATE APR-15

2-16-16
PLANS APPROVAL DATE

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<p>ACCESSIBILITY DESIGN APPROVAL STAMP DOT / DES / OTA</p> <p style="text-align: center;">PROJECT ID 081400073</p> <p>Reviewed by:  Y. A. WANG Date: 5/28/2015</p>	<p>OFFICE OF THE STATE FIRE MARSHAL APPROVED FIRE AND PANIC ONLY</p> <p style="font-size: x-small;">Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.</p> <p>Reviewed by:  BRAD GOODRICH Approval date: 6/30/15</p> <p style="font-size: x-small;">CSFM File No. 01-36-11-0054</p>
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FINISH NOTES

- 1 CARPET
- 2 VINYL COMPOSITION TILE: FACTORY FINISH: TAN, BROWN and BLACK FLECK MIX. SIMILAR TO ARMSTRONG STANDARD EXCEL ON IMPERIAL TEXTURE 518II ANTIQUE WHITE OR JANSONITE OR EQUAL
- 3 RESILIENT BASE, RUBBER: FACTORY FINISH: LIGHT BROWN
- 4 CERAMIC TILE AND GROUT: FACTORY FINISH: REFER TO CT COLOR ON SHEET
- 5 GYPSUM BOARD, 5/8" TYPE X: PAINT: OFF-WHITE FS 17925
- 6 PLYWOOD PANEL, 1/2" THICK-PAINT: ENAMEL FS 35450
- 7 ALUM & GLASS WINDOWS-COLOR: WHITE, 500 KYNAR
- 8 NOT USED
- 9 FRP - FIBERGLASS REINFORCED PANEL: FINISH: BRIGHT WHITE FS 37925
- 10 24" X 48" LAY-IN ACOUSTICAL CEILING PANELS SET IN SUSPENDED METAL T-BAR GRIDS ELEV=9'-0" SEE A-II FS 37925

Notes:

1. Federal color numbers are to be used for color only not gloss level. Refer to Special Provisions for gloss level.
2. Engineer to approve final color selections.

DESIGN BY Hassan Akhavan	CHECKED Don Alsey	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES	BRIDGE No. 54M	SAN BERNARDINO MS OFFICE BUILDING FINISH SCHEDULE	SHEET
DETAILS BY Hassan Akhavan	CHECKED Don Alsey		ARCHITECTURAL AND STRUCTURAL DESIGN	POST MILE L5726		A0-4
QUANTITIES BY	CHECKED					

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS



UNIT: 3600 CONTRACT No.: 08-0K841 PROJECT NUMBER & PHASE: 081400073

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY)

NO.	DATE	DESCRIPTION

SHEET OF

TAEWW Imperial - CCSC Rev. 04/14 P:\dist_08\081400073_san_bernardino_ms_office\expedite\A0_4.dgn 17-FEB-2016 09:12

DOOR SCHEDULE

NO	DOOR					FRAME				LABEL	DETAILS			HDWR GROUP	SIGN		NOTE KEY	
	TYPE	OPENING SIZE WIDTH x HGT	THICK	MAT	FINISH	TYPE	MAT	WIDTH	FINISH		HEAD	JAMB	THLD		DETAIL	TEXT		
																INSIDE		OUTSIDE
1	A	3'-0" x 7'-0"	1 3/4"	ALUM	PRE FINISH	C	ALUM	2"	PRE FINISH	1	2	3	2&6/ A0-3.3	EXIT				
2	B	3'-0" x 7'-0"	1 3/4"	STEEL	PAINT	D	STEEL	2"	PAINT	7	8	9						
3	B	3'-0" x 7'-0"	1 3/4"	STEEL	PAINT	D	STEEL	2"	PAINT	4	5	9						
4	B	3'-0" x 7'-0"	1 3/4"	STEEL	PAINT	D	STEEL	2"	PAINT	4	5	9						
5	B	3'-0" x 7'-0"	1 3/4"	STEEL	PAINT	D	STEEL	2"	PAINT	4	5	9	3B/ A0-3.3					
6	B	3'-0" x 7'-0"	1 3/4"	STEEL	PAINT	D	STEEL	2"	PAINT	4	5	9	3C/ A0-3.3					
7	B	3'-0" x 7'-0"	1 3/4"	STEEL	PAINT	D	ALUM	2"	PAINT	4	5	9		FULL LOUVER MECHINCAL ROOM				
8	B	3'-0" x 7'-0"	1 3/4"	STEEL	PAINT	D	STEEL	2"	PAINT	4	5	9						
9	B	3'-0" x 7'-0"	1 3/4"	STEEL	PAINT	D	STEEL	2"	PAINT	4	5	9						
10	B	3'-0" x 7'-0"	1 3/4"	STEEL	PAINT	D	STEEL	2"	PAINT	4	5	9						
11	B	3'-0" x 7'-0"	1 3/4"	STEEL	PAINT	D	STEEL	2"	PAINT	4	5	9	2&6/ A0-3.3	EXIT				

DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SBD	L5726		17	72

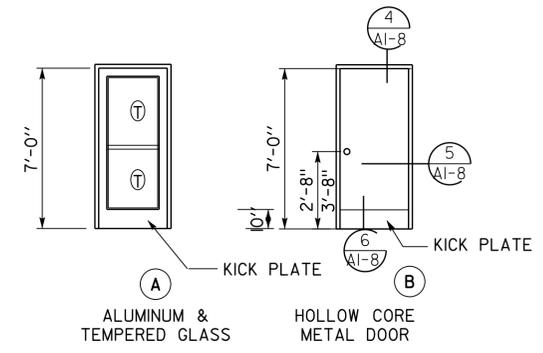
LICENSED ARCHITECT DATE: APR-15

2-16-16
PLANS APPROVAL DATE

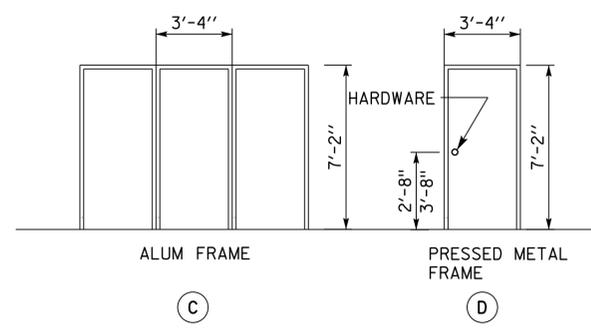
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ACCESSIBILITY DESIGN APPROVAL STAMP DOT / DES / OTA <div style="border: 1px solid black; padding: 2px; text-align: center; margin: 5px 0;"> PROJECT ID 0814000073 </div> Reviewed by: <u>Y. A. WANG</u> Date: 5/28/2015	OFFICE OF THE STATE FIRE MARSHAL APPROVED FIRE AND PANIC ONLY <small>Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.</small> Reviewed by: <u>BRAD GOODRICH</u> Approval date: 6/30/15 CSFM File No. 01-36-11-0054
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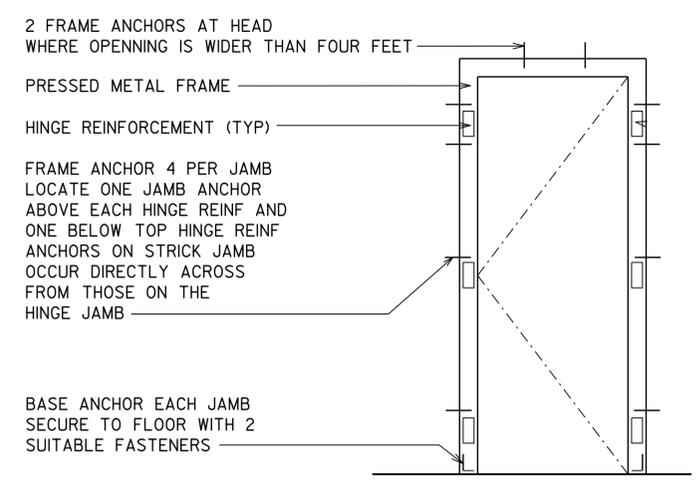
- NOTES:**
- ALL DOORS COLOR FS 30313 AND DETAIL NUMBERS REFER TO DRAWING AI-8
 - SEE ADDITIONAL DOOR SIGNS AT EXTERIOR AND INTERIOR ELEVATIONS



DOOR TYPES TEMPERED GLAZING
NO SCALE



DOOR FRAME TYPES
SCALE: 1/4" = 1'-0"

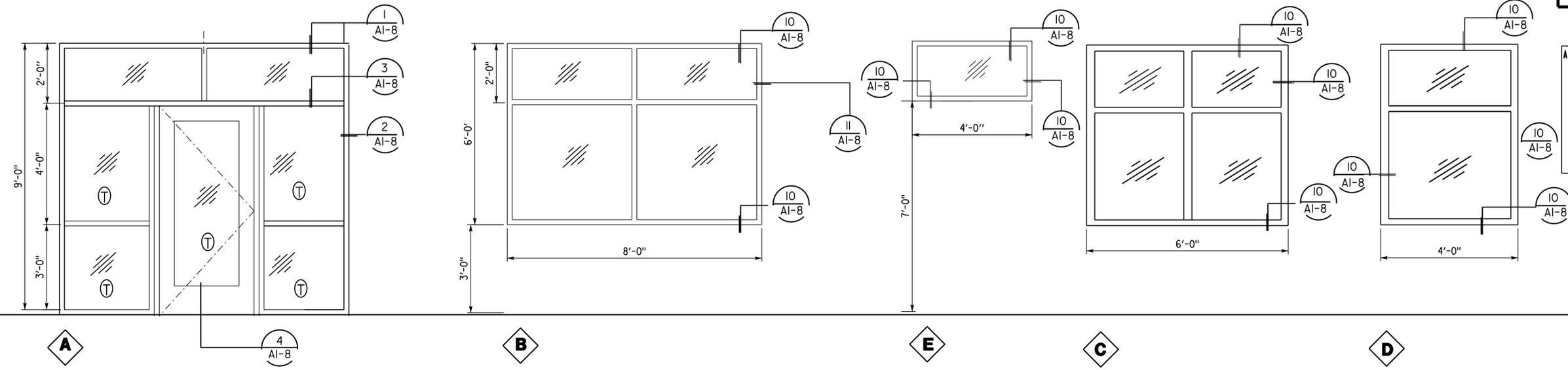


DOOR FRAME ANCHORAGE
NOT TO SCALE

DESIGN BY: Hassan Akhavan CHECKED: Don Alsey DETAILS BY: Hassan Akhavan CHECKED: Don Alsey QUANTITIES BY: _____ CHECKED: _____	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE No. 54M POST MILE L5726	SAN BERNARDINO MS OFFICE BUILDING DOOR SCHEDULE	SHEET OF A0-5
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS: 0 1 2 3		UNIT: 3600 CONTRACT No.: 08-0K841 PROJECT NUMBER & PHASE: 0814000073		DISREGARD PRINTS BEARING EARLIER REVISION DATES	
TAEWW Imperial - CCSC Rev. 04/14			REVISION DATES (PRELIMINARY STAGE ONLY)		
			SHEET OF: X X		P:\dlst_08\0814000073_san_bernardino_ms_office\expedite\A0_5.dgn

17-FEB-2016 09:12

DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SBd	L5726		18	72
LICENSED ARCHITECT  DATE APR-15					
PLANS APPROVAL DATE 2-16-16					
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ACCESSIBILITY DESIGN APPROVAL STAMP
DOT / DES / OTA

PROJECT ID: **0814000073**

Reviewed by:  Y. A. WANG
Date: 5/28/2015

OFFICE OF THE STATE FIRE MARSHAL
APPROVED FIRE AND PANIC ONLY
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Reviewed by:  BRAD GOODRICH
Approval date: 6/30/15
CSFM File No. 01-36-11-0054

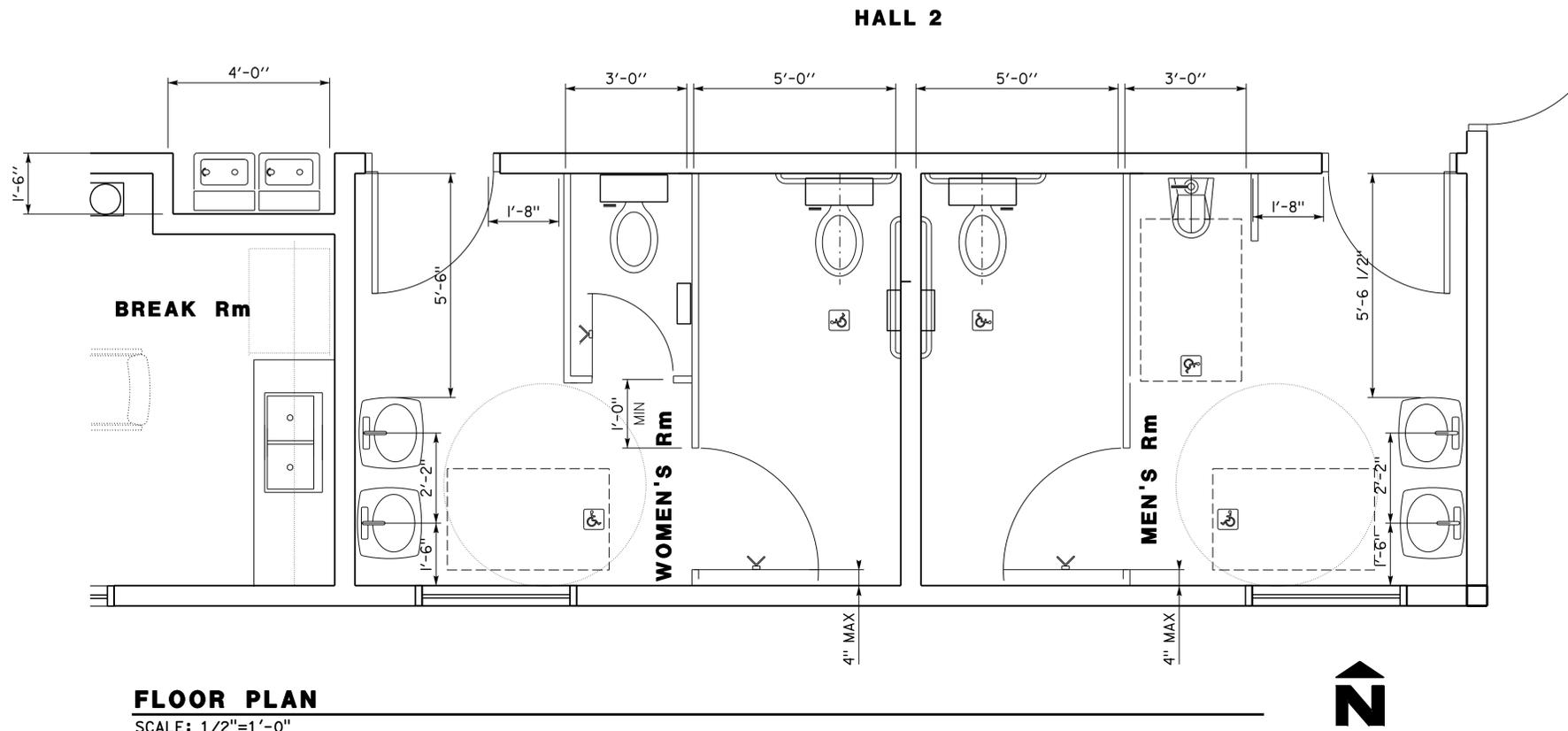
WINDOW SCHEDULE					
NO.	W X H	MAT	FIN	FRAME SIZE	NOTES
A	ALUMINUM STOREFRONT SYSTEM				
B	6'-0" X 8'-0"	ALUMINUM	CLEAR ANODIZED	3 ^{5/8} " X 1 ^{21/32} "	INSTALL ALUMINUM BLINDS
C	6'-0" X 6'-0"	ALUMINUM	CLEAR ANODIZED	3 ^{5/8} " X 1 ^{21/32} "	INTERIOR LITE OBSCURE GLAZING
D	4'-0" X 4'-0"	ALUMINUM	CLEAR ANODIZED	3 ^{5/8} " X 1 ^{21/32} "	INSTALL ALUMINUM BLINDS
E	4'-0" X 2'-0"	ALUMINUM	CLEAR ANODIZED	3 ^{5/8} " X 1 ^{21/32} "	

DESIGN BY Martin Fraser CHECKED Don Alsey DETAILS BY Martin Fraser CHECKED Don Alsey QUANTITIES BY CHECKED	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE No. 54M POST MILE L5726	SAN BERNARDINO MS OFFICE BUILDING WINDOW SCHEDULE	SHEET A0-6
	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	UNIT: 0000 CONTRACT No.: 00-000004 PROJECT NUMBER & PHASE: 0000000001	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF X X

TAEWW Imperial - CCSC Rev. 04/14

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DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SBd	L5726		19	72
LICENSED ARCHITECT  DATE APR-15					
PLANS APPROVAL DATE 2-16-16					
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FLOOR PLAN
SCALE: 1/2"=1'-0"

ACCESSIBILITY DESIGN APPROVAL STAMP DOT / DES / OTA PROJECT ID 0814000073 Reviewed by:  Y. A. WANG Date: 5/28/2015	OFFICE OF THE STATE FIRE MARSHAL APPROVED FIRE AND PANIC ONLY Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approvals subject to field inspection. One set of approved plans shall be available on the project site at all times. Reviewed by:  BRAD GOODRICH Approval date: 6/30/15 CSFM File No. 01-36-11-0054
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DESIGN BY Hassan Akhavan CHECKED Don Alsey DETAILS BY Hassan Akhavan CHECKED Don Alsey QUANTITIES BY CHECKED	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE No.	SAN BERNARDINO MS OFFICE BUILDING RESTROOM PLAN	SHEET	
			54M		A0-7	
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3			UNIT: 3600 CONTRACT No.: 08-0K841 PROJECT NUMBER & PHASE: 0814000073	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF X X

DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SBd	L5726		20	72

LICENSED ARCHITECT	DATE
2-16-16	
PLANS APPROVAL DATE	
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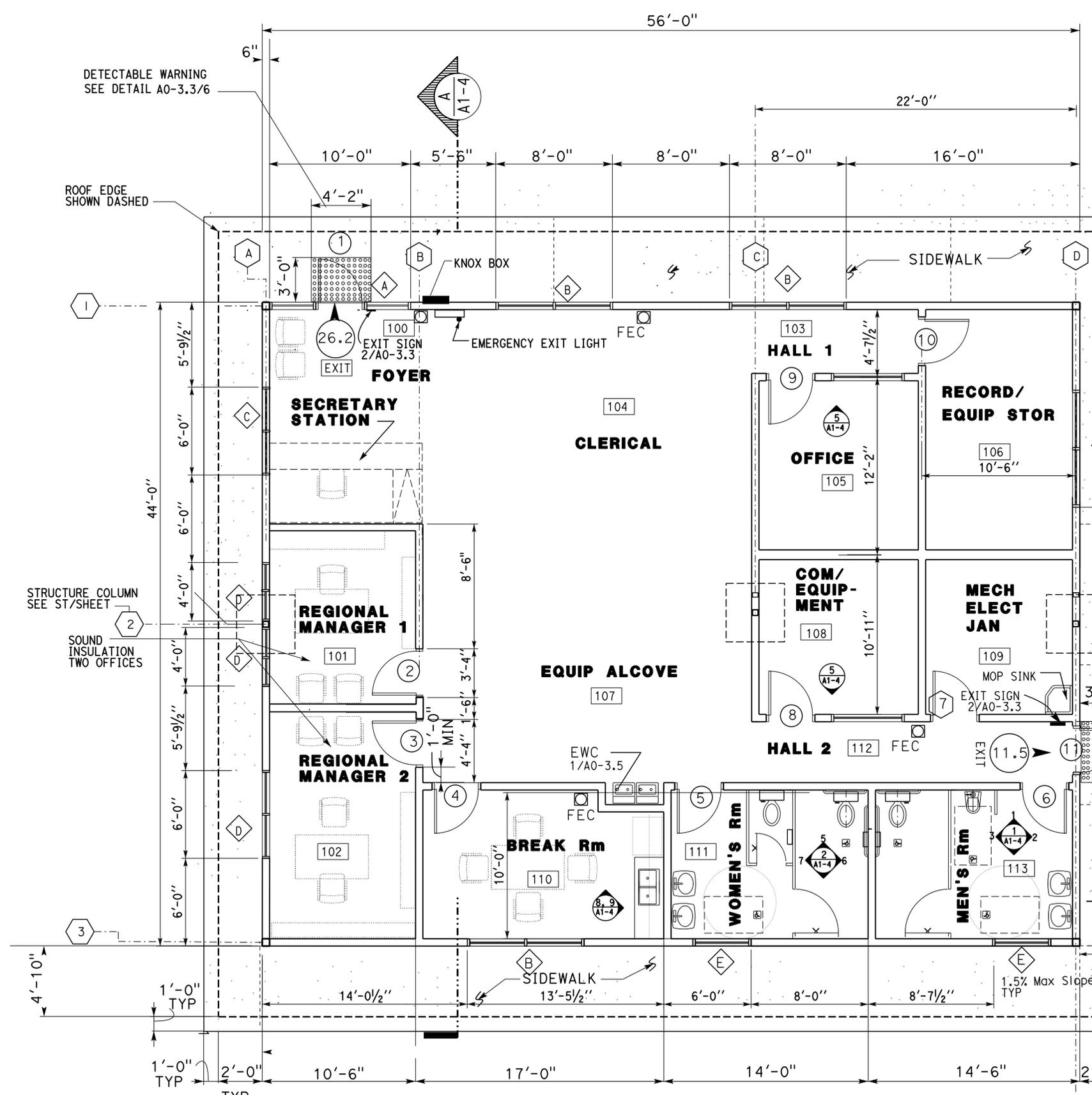
PROJECT ID
0814000073

Reviewed by: *Y. A. WANG*
Date: 5/28/2015

OFFICE OF THE STATE FIRE MARSHAL
APPROVED FIRE AND PANIC ONLY

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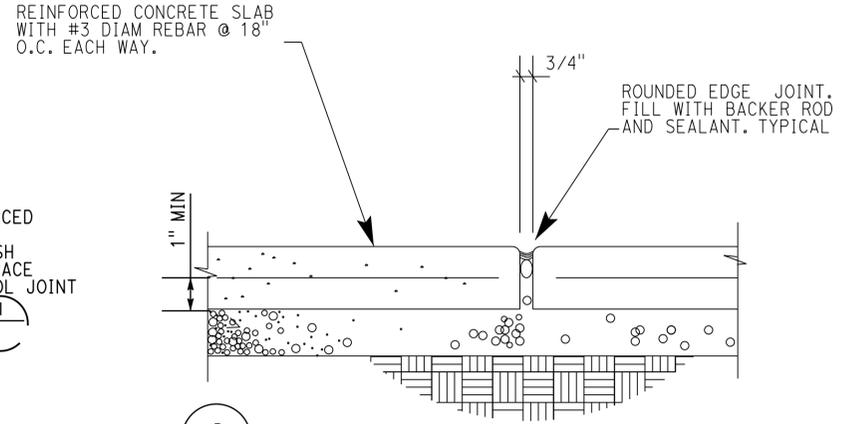
Reviewed by: *BRAD GOODRICH*
Approval date: 6/30/15
CSFM File No. 01-36-11-0054



OCCUPANT LOADS

Room	Area	Occ Load Factor	Occ Load
100	117	7 net	16.7
101	153	100 gross	1.5
102	154	100 gross	1.5
103	na	na	0 (1)
104	440	100 gross	4.4
105	145	100 gross	1.5
106	204	300 gross	.7
107	130	100 gross	1.3
108	113	300 gross	.4
109	122	300 gross	.4
110	141	15 net	9.4
111	na	na	0 (2)
112	na	na	0 (1)
113	na	na	0 (2)

- (1) Hall no occupant load
 - (2) Restroom no occupant load
 - (2) Number of occupants exiting
- Occupant Load Business Areas
Area is 2688 sq ft = 27 occupants



FLOOR PLAN
SCALE: 1/4"=1'-0"
TOTAL FLOOR AREA 2688sf

DESIGN	BY Hassan Akhavan	CHECKED Don Alsey
DETAILS	BY Hassan Akhavan	CHECKED Don Alsey
QUANTITIES	BY	CHECKED

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
ARCHITECTURAL AND STRUCTURAL DESIGN

BRIDGE No. 54M
POST MILE L5726

SAN BERNARDINO MS OFFICE BUILDING
FLOOR PLAN

SHEET A1-1

DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SBd	L5726		21	72

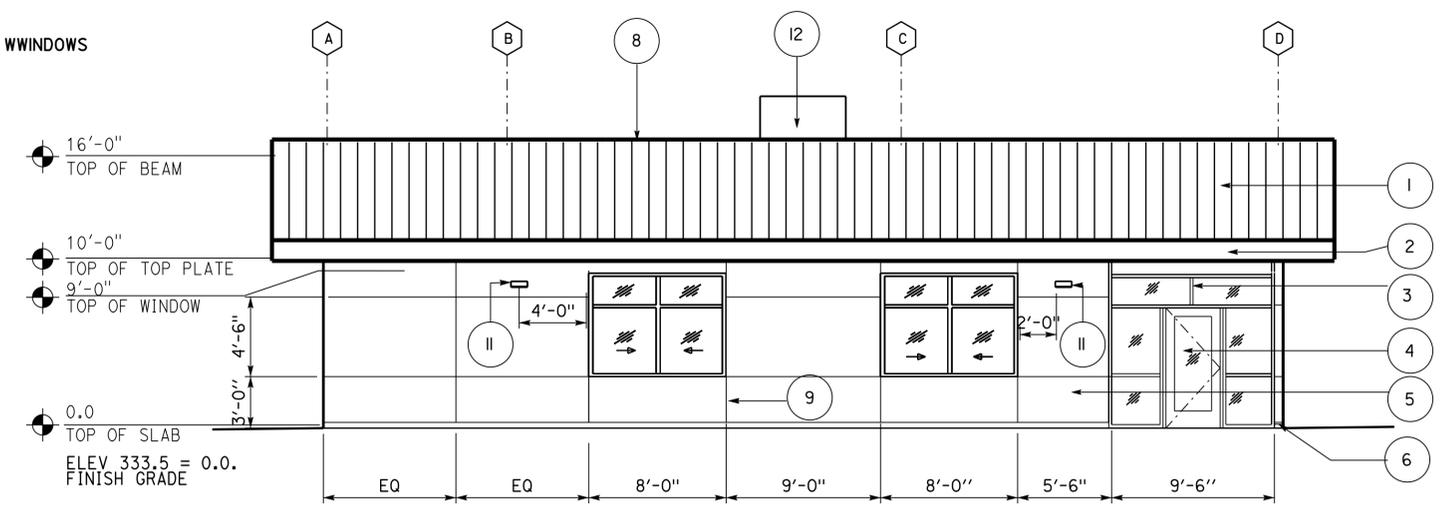
LICENSED ARCHITECT  DATE APR-15

LICENSED ARCHITECT Hassan Akhavan No. C-20451 RENEWAL DATE 04-30-17 STATE OF CALIFORNIA

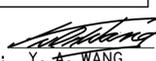
2-16-16
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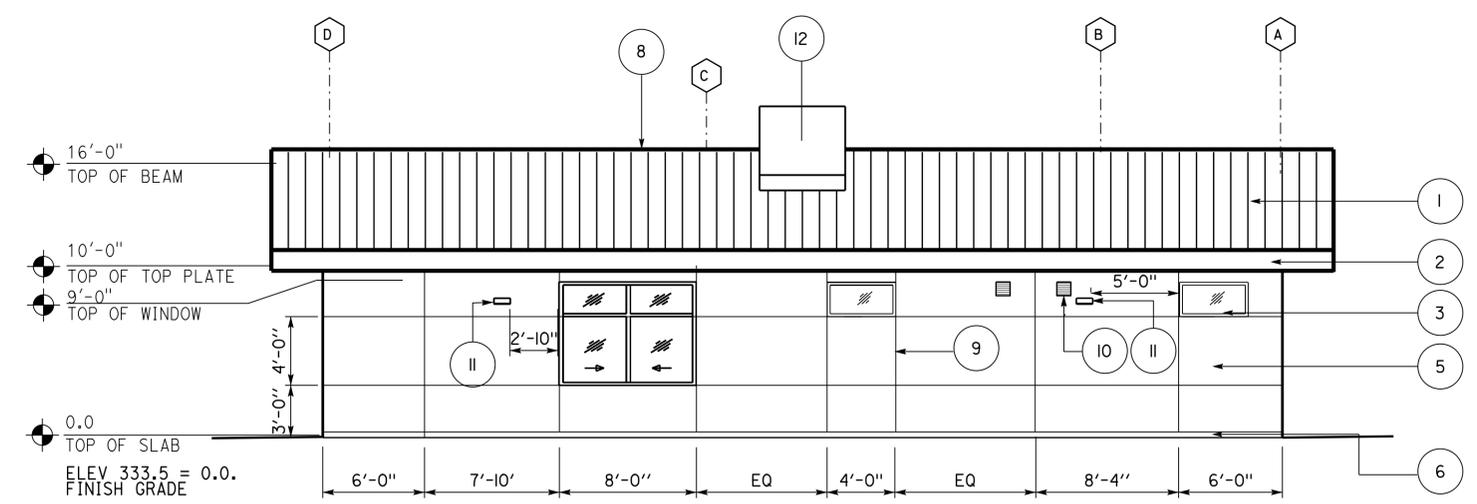
- 1 METAL ROOF
- 2 GUTTER
- 3 ALUM WINDOWW/ LOW-E INSULATED WWINDOWS
- 4 DOOR
- 5 CEMENT PLASTER
- 6 1/2" CASING BEAD
- 7 ROOF MOUNTED HVAC
- 8 CONT GALV MET RIDGE CAP
- 9 1#4" CHANNEL SCREED. TYP.
- 10 8"X8" LOUVER W/INSECT SCREEN
- 11 LIGHT ELEV 8'-0" TOP OF LIGHT SEE ELECTRICAL
- 12 ROOF MOUNTED HVAC



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

ACCESSIBILITY DESIGN APPROVAL STAMP
DOT / DES / OTA
PROJECT ID
0814000073
Reviewed by:  Y. A. WANG
Date: 5/28/2015

OFFICE OF THE STATE FIRE MARSHAL
APPROVED FIRE AND PANIC ONLY
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Reviewed by:  BRAD GOODRICH
Approval date: 6/30/15
CSFM File No. 01-36-11-0054



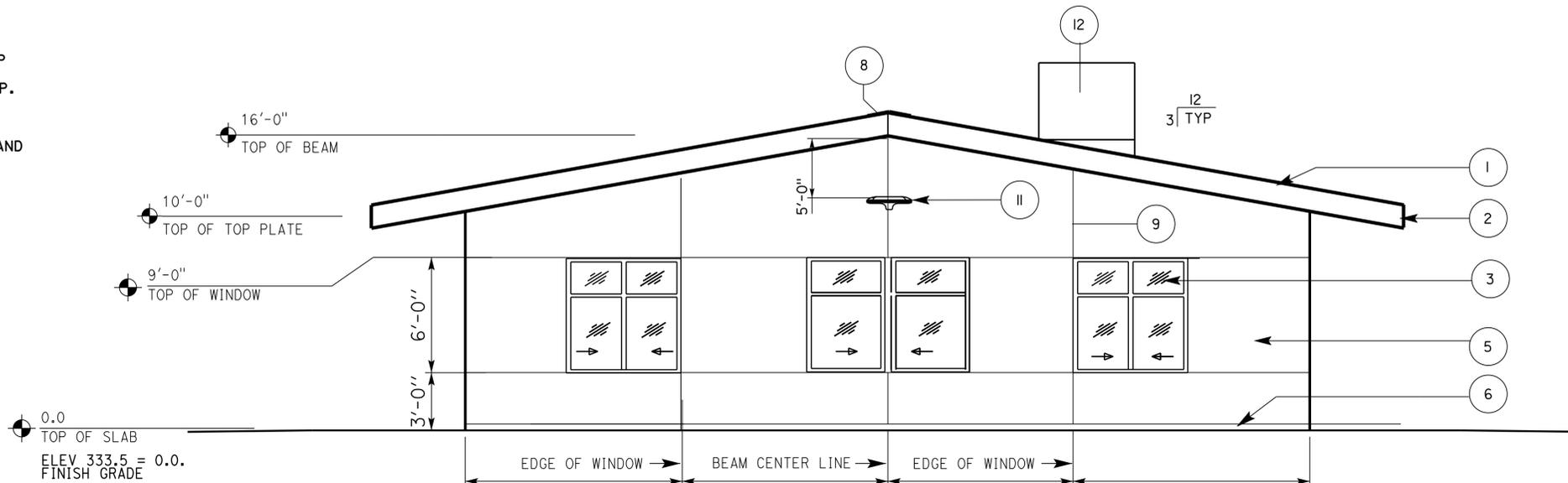
SOUTH ELEVATION
SCALE: 3/16" = 1'-0"

DESIGN BY Hassan Akhavan CHECKED Don Alsey	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE No. 54M	SAN BERNARDINO MS OFFICE BUILDING NORTH AND SOUTH EXTERIOR ELEVATIONS	SHEET
			POST MILE L5726		A1-2
			UNIT: 3600 CONTRACT No.: 08-0K841 PROJECT NUMBER & PHASE: 0814000073		
DETAILS BY Hassan Akhavan CHECKED Don Alsey	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3			X X
QUANTITIES BY					

TAEWW Imperial - CCSC Rev. 04/14

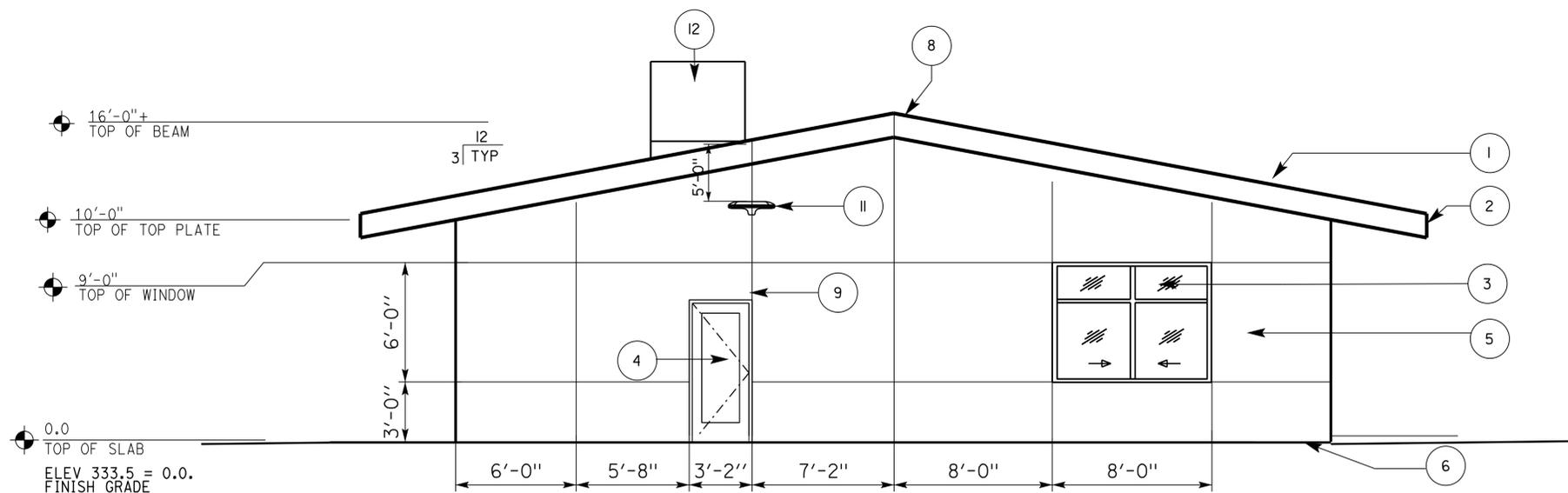
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- 1 METAL ROOF W/INTEGRATED PV PANELS ON SOUTH SIDE ONLY
- 2 GUTTER
- 3 ALUM WINDOW/ LOW-E INSULATED WINDOWS
- 4 DOOR
- 5 CEMENT PLASTER
- 6 1/2" CASING BEAD
- 7 ROOF MOUNTED HVAC
- 8 CONT GALV MET RIDGE CAP
- 9 1#4" CHANNEL SCREED. TYP.
- 10 NOT USED
- 11 LIGHT SEE ELEVATION AND ELECTRICAL PLAN
- 12 ROOF MOUNTED HVAC



WEST ELEVATION

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



EAST ELEVATION

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

DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SbD	L5726		22	72

LICENSED ARCHITECT *[Signature]* DATE APR-15

LICENSED ARCHITECT Hassan Akhavan No. C-20451 RENEWAL DATE 04-30-17 STATE OF CALIFORNIA

PLANS APPROVAL DATE 2-16-16

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ACCESSIBILITY DESIGN APPROVAL STAMP
DOT / DES / OTA

PROJECT ID
0814000073

Reviewed by: *[Signature]* Y. A. WANG
Date: 5/28/2015

OFFICE OF THE STATE FIRE MARSHAL
APPROVED FIRE AND PANIC ONLY
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Reviewed by: *[Signature]* BRAD GOODRICH
Approval date: 6/30/15

CSFM File No. 01-36-11-0054

DESIGN	BY Hassan Akhavan	CHECKED Don Alsey
DETAILS	BY Hassan Akhavan	CHECKED Don Alsey
QUANTITIES	BY	CHECKED

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
ARCHITECTURAL AND STRUCTURAL DESIGN

BRIDGE No. 54M
POST MILE L5726

SAN BERNARDINO MS OFFICE BUILDING
EAST AND WEST EXTERIOR ELEVATIONS

SHEET OF **A1-3**

REVISION DATES (PRELIMINARY STAGE ONLY)

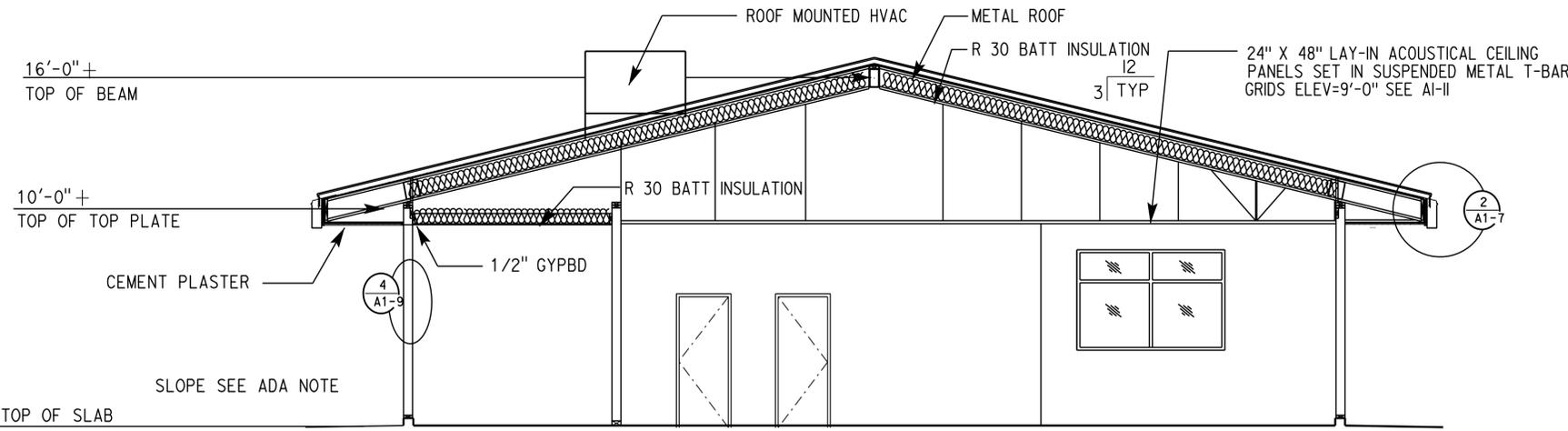
SHEET OF XX XX



DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SBd	L5726		23	72

LICENSED ARCHITECT *Hassan Akhavan* DATE APR-15
 LICENSED ARCHITECT *Hassan Akhavan* No. C-20451
 RENEWAL DATE 04-30-17
 STATE OF CALIFORNIA

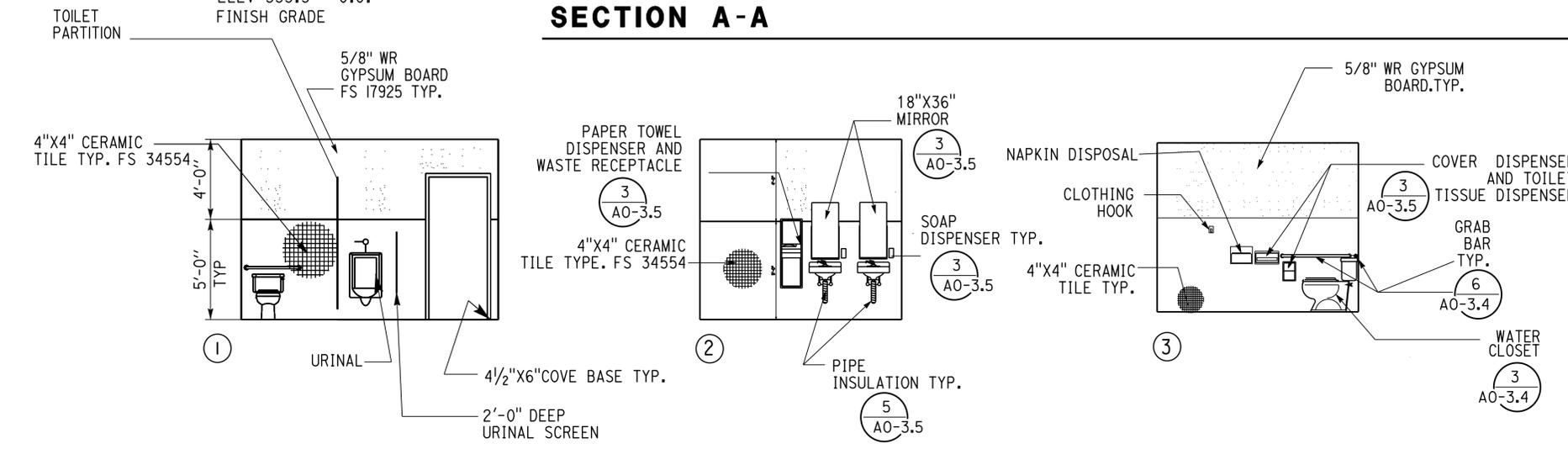
2-16-16
 PLANS APPROVAL DATE
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.



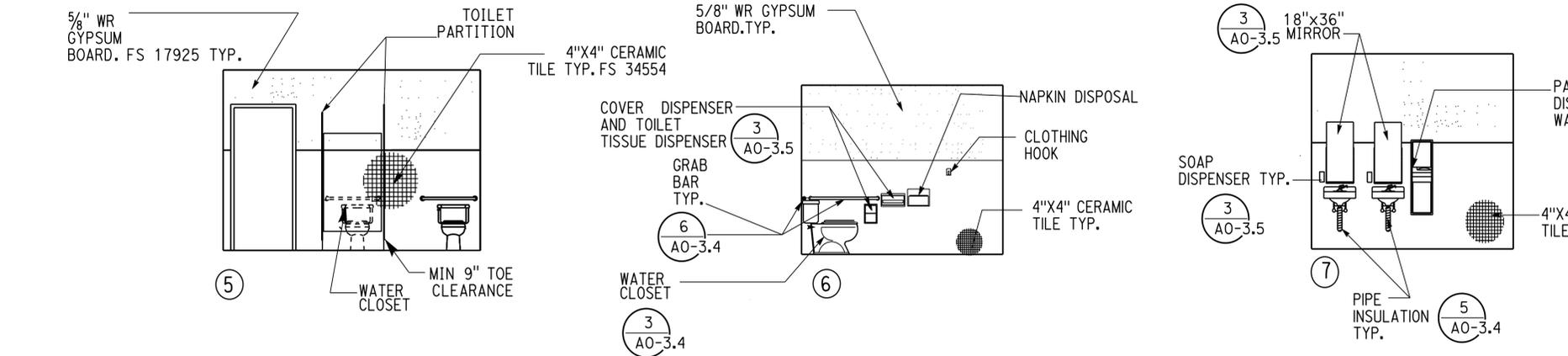
SECTION A-A

ACCESSIBILITY DESIGN APPROVAL STAMP
 DOT / DES / OTA
 PROJECT ID: **0814000073**
 Reviewed by: *Y. A. WANG*
 Date: 5/28/2015

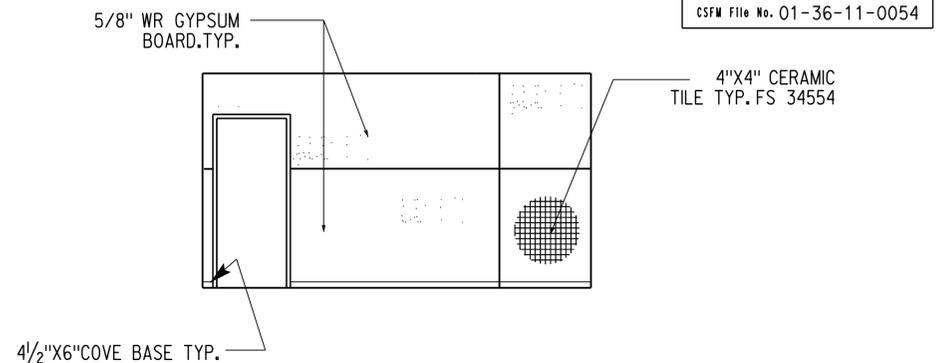
OFFICE OF THE STATE FIRE MARSHAL
 APPROVED FIRE AND PANIC ONLY
 Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.
 Reviewed by: *BRAD GOODRICH*
 Approval date: 6/30/15
 CSFM File No. 01-36-11-0054



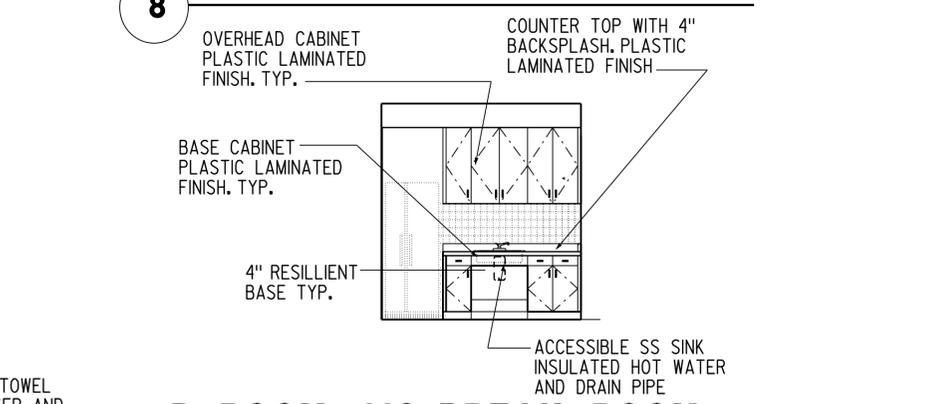
1 ROOM 113 MEN'S ROOM



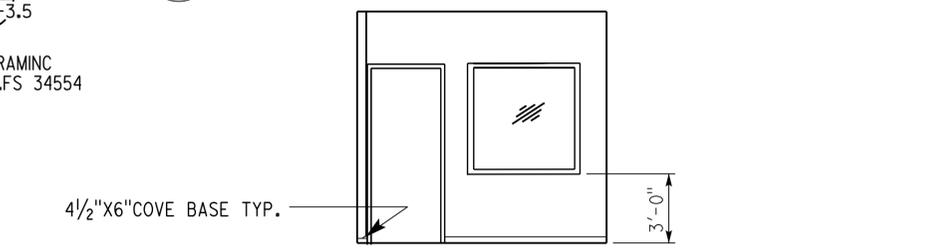
2 ROOM 111 WOMEN'S ROOM



8 ROOM 110 BREAK ROOM



9 ROOM 110 BREAK ROOM



5 ROOM 105/108 (SIMILAR MIRROR) WINDOW LOCATION ONLY

DESIGN	BY Hassan Akhavan	CHECKED Don Alsey
DETAILS	BY Hassan Akhavan	CHECKED Don Alsey
QUANTITIES	BY	CHECKED

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
 ARCHITECTURAL AND STRUCTURAL DESIGN

BRIDGE No. 54M
 POST MILE L5726

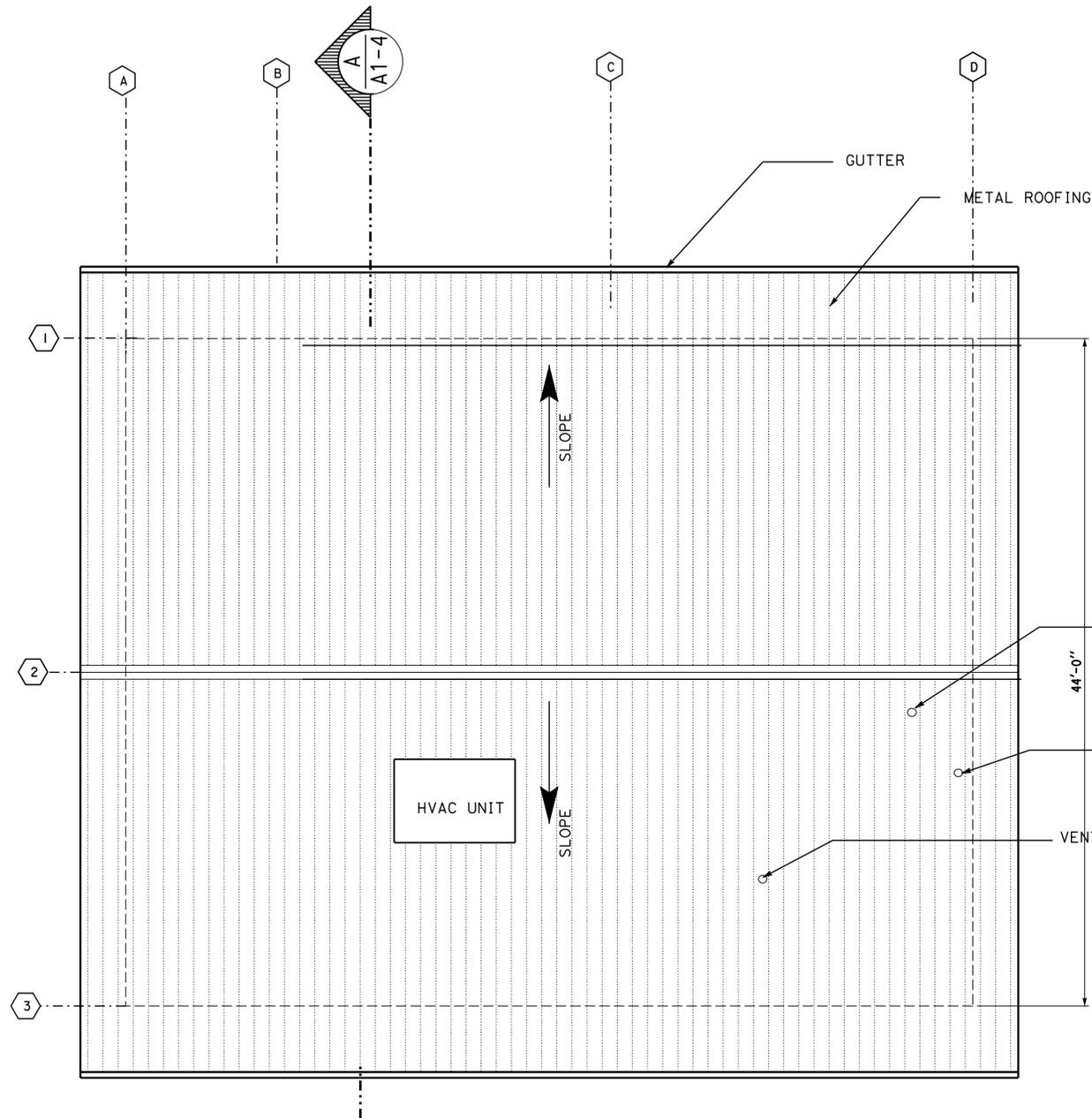
SAN BERNARDINO MS OFFICE BUILDING
 SECTION & INTERIOR ELEVATION

SHEET **A1-4**

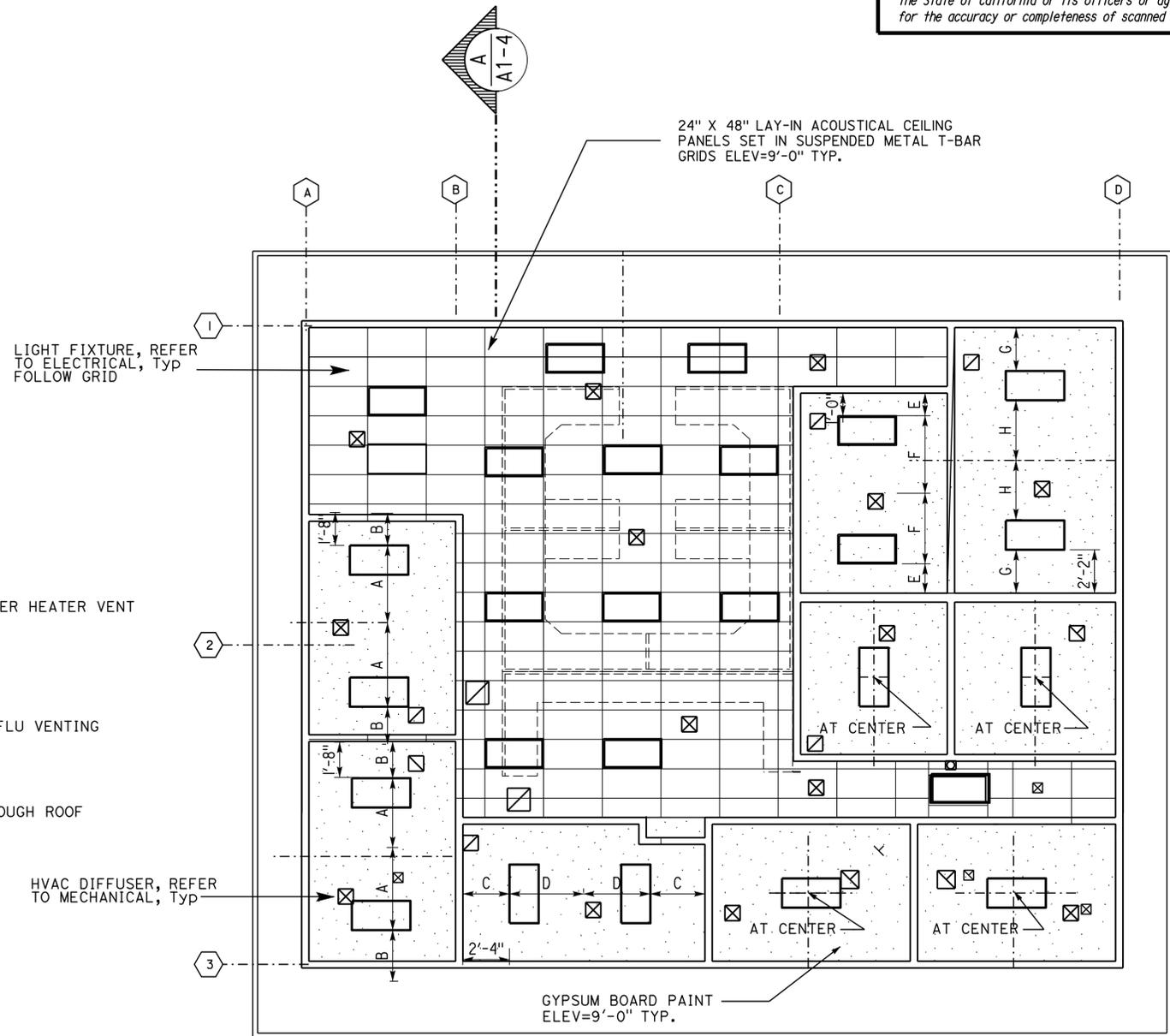
ACCESSIBILITY DESIGN APPROVAL STAMP
DOT / DES / OTA
PROJECT ID
0814000073
Reviewed by: *Y. A. WANG*
Date: 5/28/2015

OFFICE OF THE STATE FIRE MARSHAL
APPROVED FIRE AND PANIC ONLY
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CSFM File No. 01-36-11-0054

DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SBd	L5726		24	72
 LICENSED ARCHITECT _____ DATE _____					
					
2-16-16					
PLANS APPROVAL DATE					
<i>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.</i>					



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



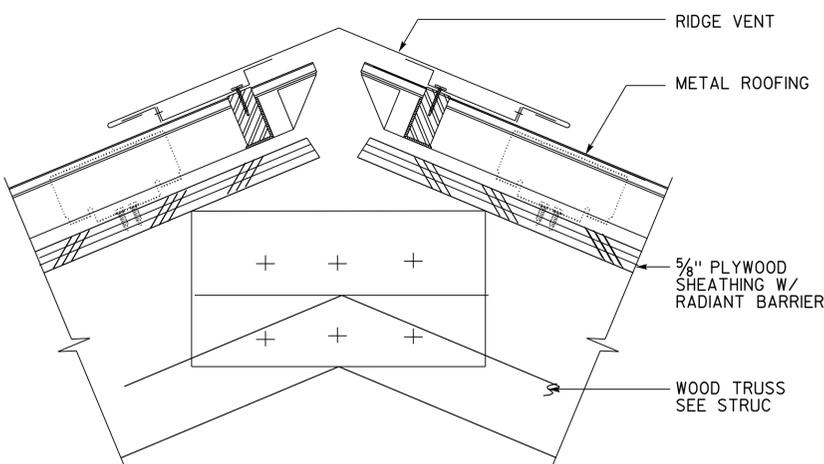
REFLECTED CEILING PLAN
SCALE: 3/16"=1'-0"

DESIGN BY Hassan Akhavan CHECKED Don Alsey	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE No. 54M POST MILE L5726	SAN BERNARDINO MS OFFICE BUILDING		SHEET A1-5
				ROOF PLAN AND REFLECTED CEILING PLAN		
DETAILS BY Hassan Akhavan CHECKED Don Alsey	UNIT: 3600 CONTRACT No.: 08-0K841 PROJECT NUMBER & PHASE: 0814000073	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)		SHEET OF X X	
QUANTITIES BY	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3					

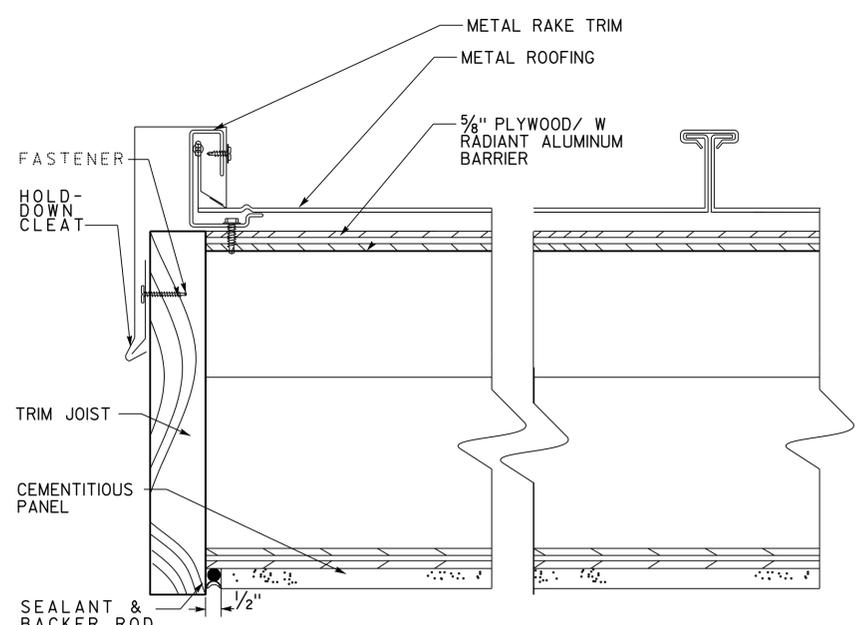
DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SBd	L5726		25	72
 LICENSED ARCHITECT			DATE		
2-16-16					
PLANS APPROVAL DATE					
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ACCESSIBILITY DESIGN APPROVAL STAMP
 DOT / DES / OTA
 PROJECT ID
0814000073
 Reviewed by: 
 Date: 5/28/2015

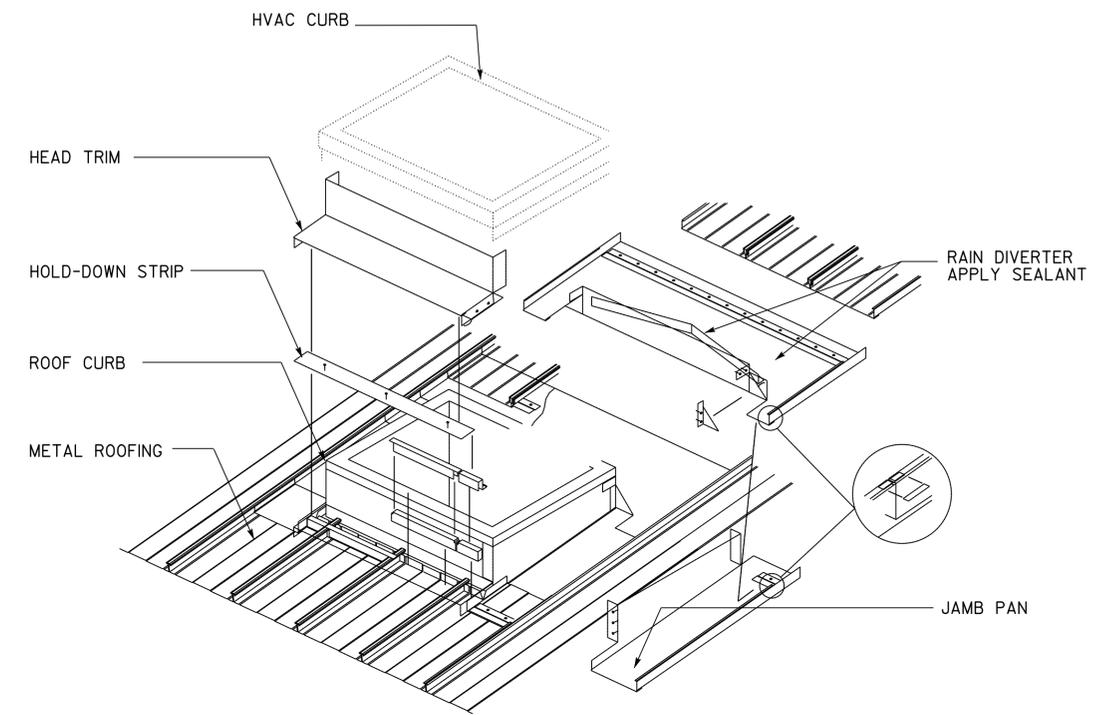
OFFICE OF THE STATE FIRE MARSHAL
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 CSFM File No. 01-36-11-0054



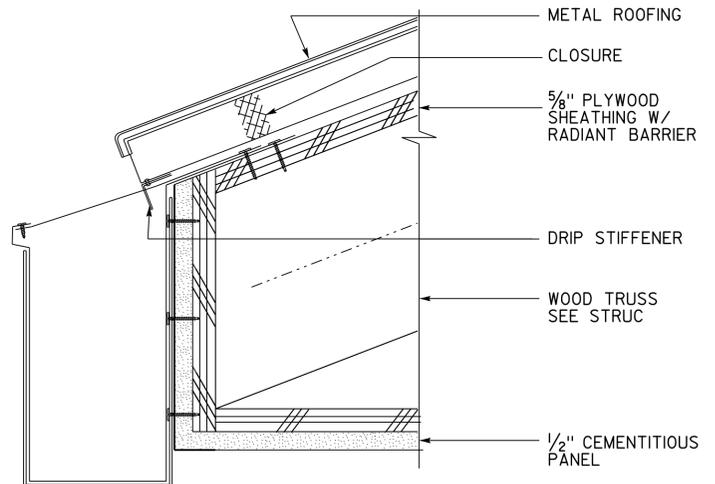
1 VENTED ROOF RIDGE
 NTS



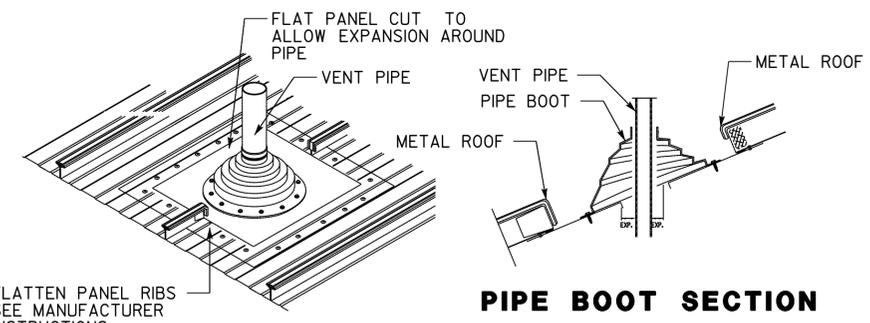
4 ROOF END DETAIL
 NTS



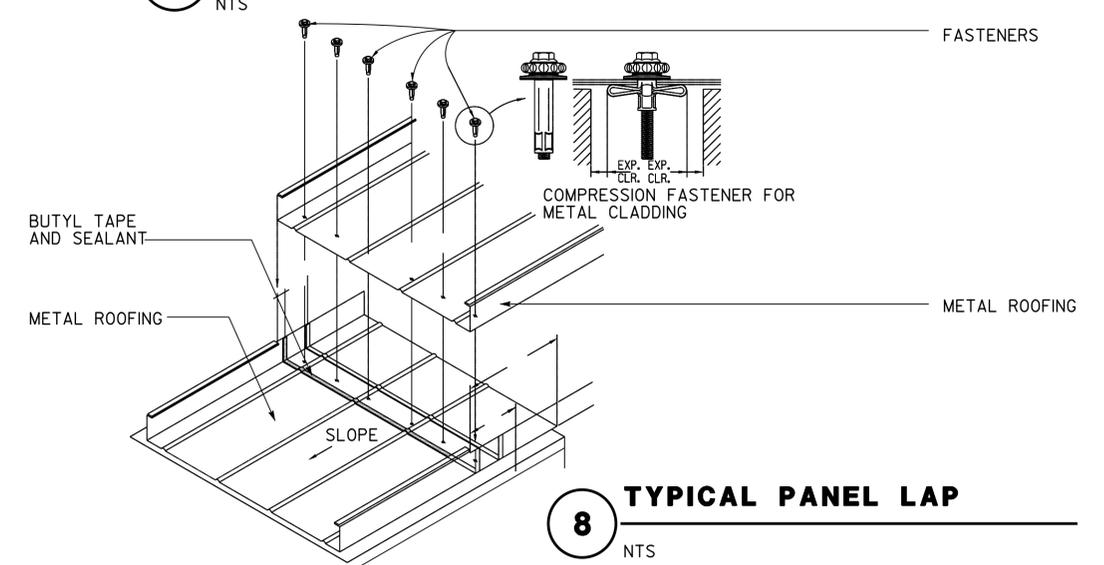
7 TYPICAL ROOF CURB
 NTS



2 GUTTER DETAIL
 NTS



5 PIPE BOOT
 NTS



8 TYPICAL PANEL LAP
 NTS

DESIGN	BY Hassan Akhavan	CHECKED Don Alsey
DETAILS	BY Hassan Akhavan	CHECKED Don Alsey
QUANTITIES	BY	CHECKED

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

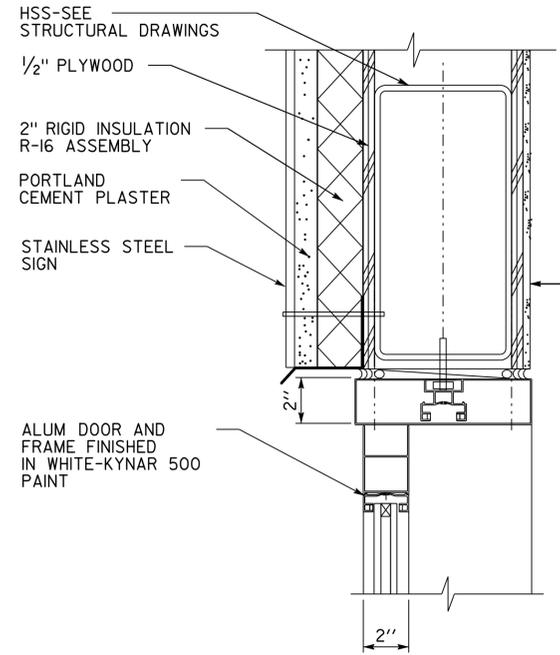
DIVISION OF ENGINEERING SERVICES
 ARCHITECTURAL AND STRUCTURAL DESIGN

BRIDGE No.
 54M
 POST MILE
 L5726

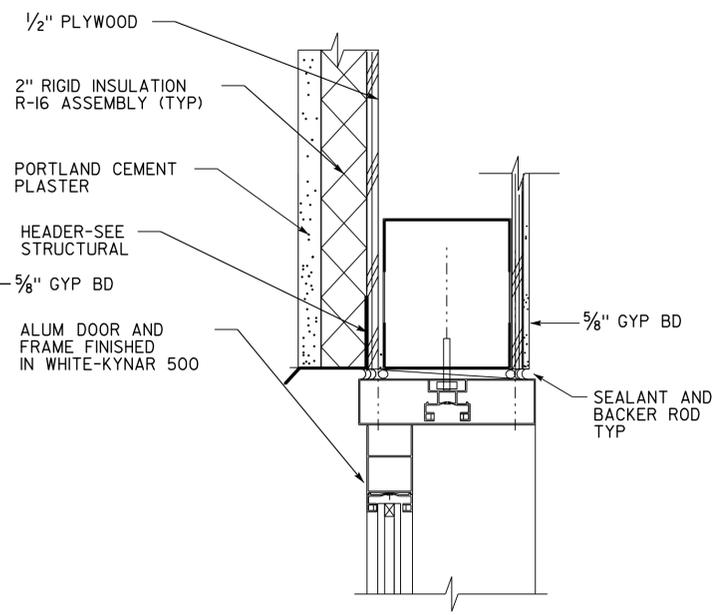
SAN BERNARDINO MS OFFICE BUILDING
 MISCELLANEOUS DETAILS

SHEET
A1-7

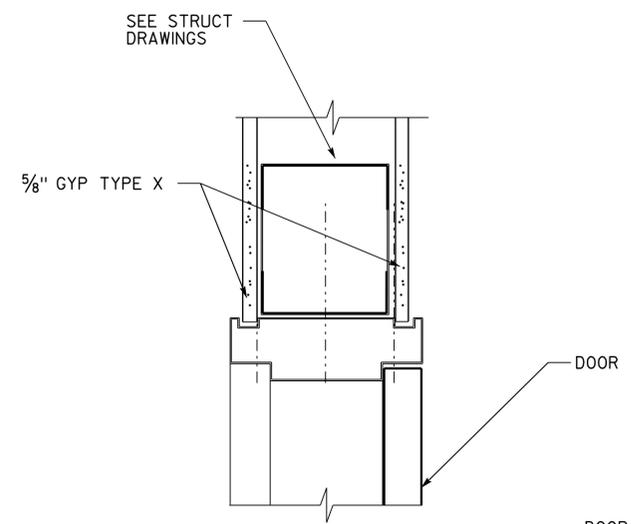
DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SBd	L5726		26	72
LICENSED ARCHITECT  DATE APR-15					
PLANS APPROVAL DATE 2-16-16					
<i>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.</i>					



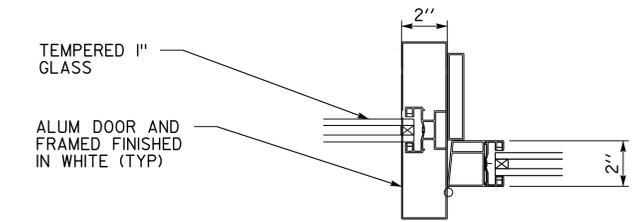
1 DOOR HEAD



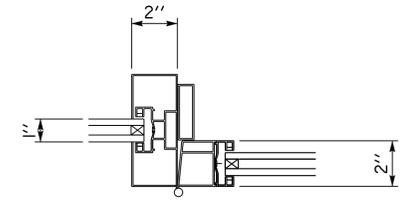
4 DOOR HEAD



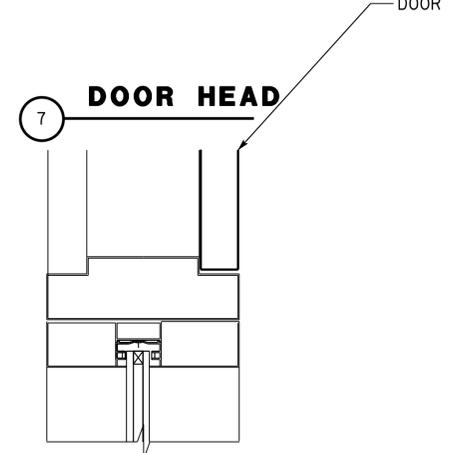
7 DOOR HEAD



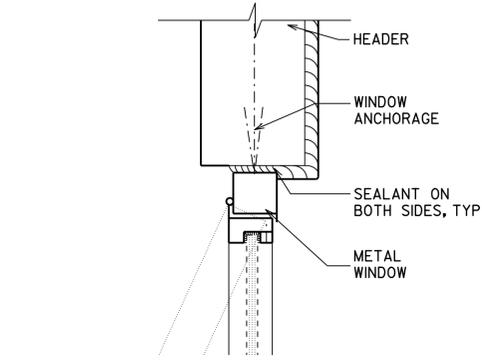
2 DOOR JAMB



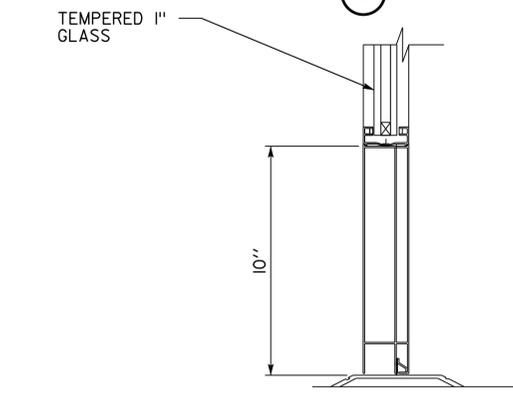
5 DOOR JAMB



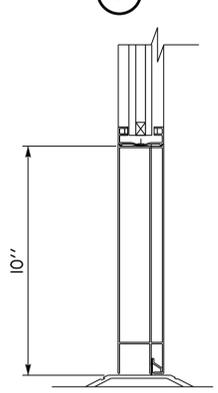
8 DOOR JAMB



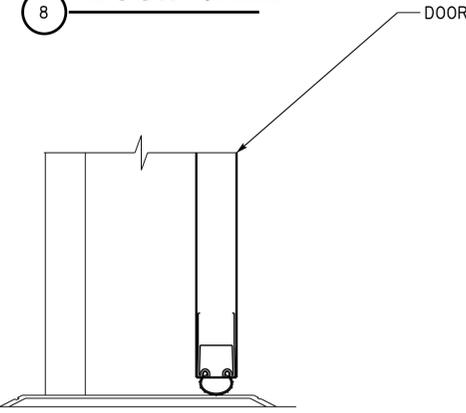
10 WINDOW HEAD AND JAMB SIMILAR



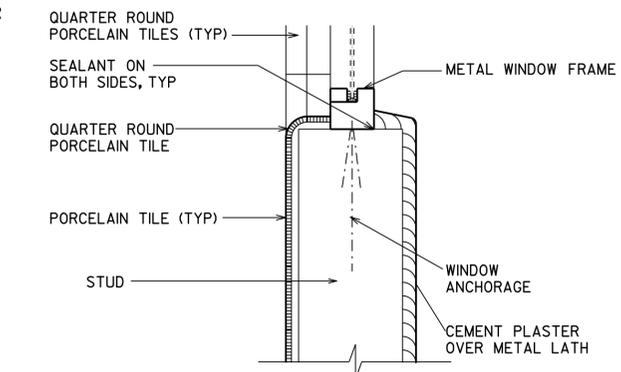
3 DOOR SILL



6 DOOR SILL



9 DOOR SILL



11 WINDOW SILL

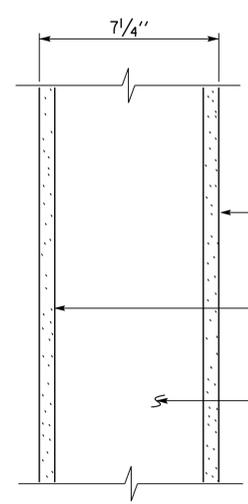
DOOR DETAILS
SCALE: 3/8"=1'-0"

DESIGN BY Hassan Akhavan CHECKED Don Alsey DETAILS BY Hassan Akhavan CHECKED Don Alsey QUANTITIES BY CHECKED	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE No. 54M POST MILE L5726	SAN BERNARDINO MS OFFICE BUILDING DOOR DETAILS	SHEET A1-8 OF X
			UNIT: 3600 CONTRACT No.: 08-0K841 PROJECT NUMBER & PHASE: 0814000073	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)

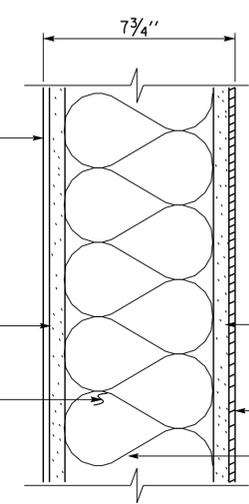
ACCESSIBILITY DESIGN APPROVAL STAMP
DOT / DES / OTA
PROJECT ID
081400073
Reviewed by: *[Signature]*
Y. A. WANG
Date: 5/28/2015

OFFICE OF THE STATE FIRE MARSHAL
APPROVED FIRE AND PANIC ONLY
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Reviewed by: *[Signature]*
BRAD GOODRICH
Approval date: 6/30/15
CSFM File No. 01-36-11-0054

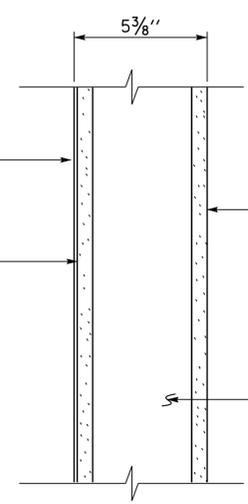
DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SbD	L5726		27	72
LICENSED ARCHITECT <i>[Signature]</i> DATE APR-15 2-16-16 PLANS APPROVAL DATE <i>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.</i>					



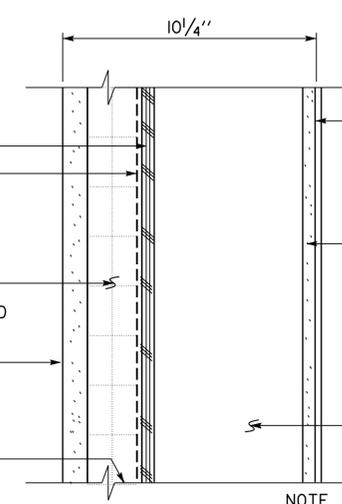
FRP PANELS
SEE DWG A-8
FINISH SCHEDULE
5/8" GYP BD TYPE "X"
5/8" CEMENTITIOUS
BACKER BD
6" METAL STUD



FRP PANELS
SEE DWG A-8
FINISH SCHEDULE
1/2" CEMENTITIOUS
BACKER BD
5/8" WATER
RESISTANCE GYPSUM
4"x4"x1/4"
CERAMIC TILE
ACOUSTICAL
INSULATION

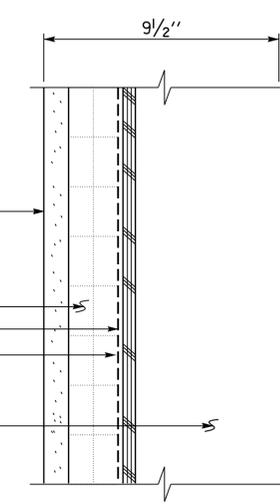


1/2" PLYWD
UNDERLAYMENT
5/8" GYP BD TYPE "X"
2" RIGID INSULATION
IN RUNNING BOND
VERTICAL JOINTS STAGGERED
PORTLAND CEMENT
PLASTER
4" METAL STUD
INSTALL METAL
SCREED AT BASE



FRP PANELS
SEE DWG A-8
FINISH SCHEDULE
PORTLAND CEMENT
PLASTER
1/2" CEMENTITIOUS
BACKER BD
2" RIGID INSULATION
UNDERLAYMENT
1/2" PLYWD
6" METAL STUD

NOTE
SECURE RIGID INSULATION W/GALVANIZED
FASTENER AND MARK STUD LOCATION AS
INDENTATION LINE ON FACE OF INSULATION



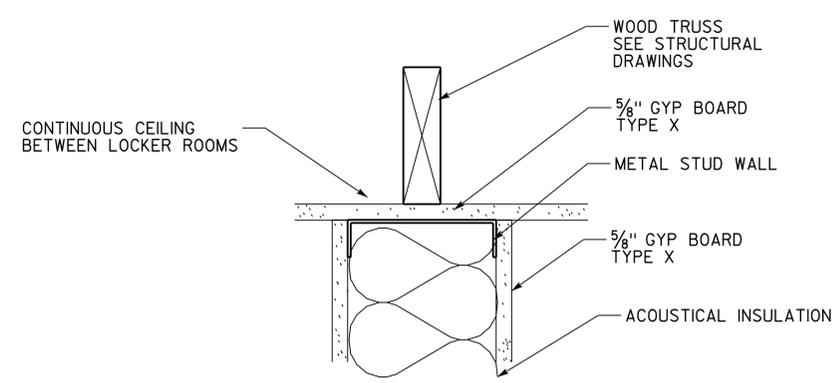
1 WALL DETAIL
SCALE 1/2" = 1'-0"

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

3 WALL DETAIL
SCALE 1/2" = 1'-0"

4 WALL DETAIL
SCALE 1/2" = 1'-0"

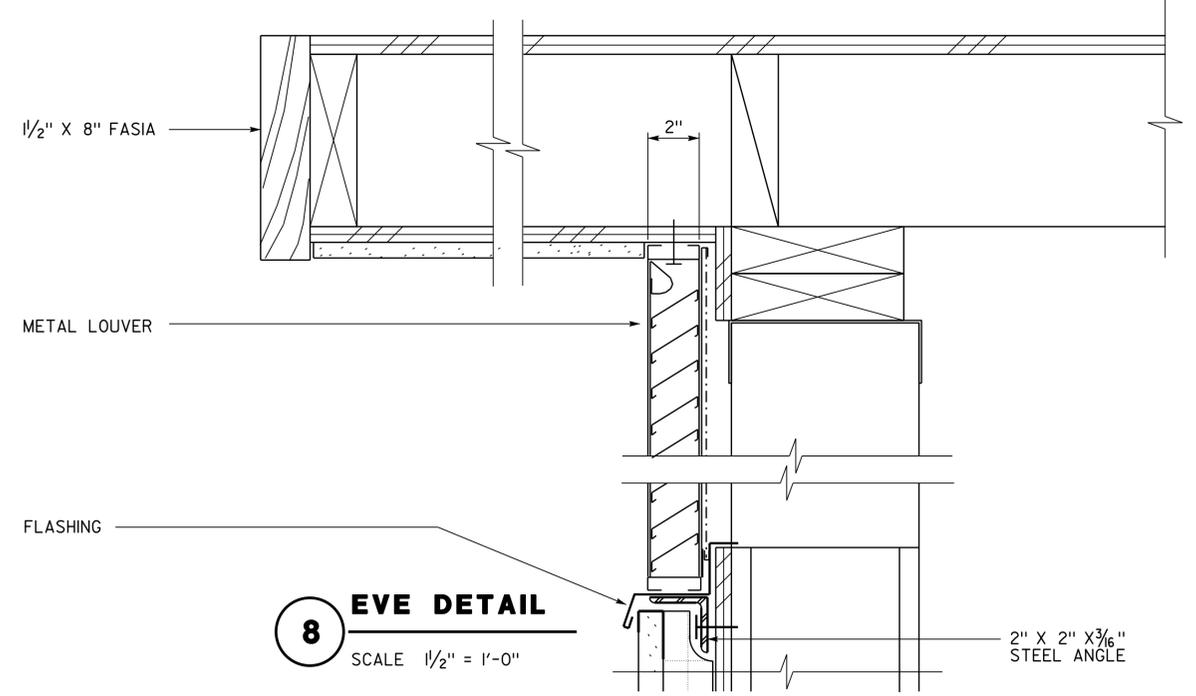
5 WALL DETAIL
SCALE 1/2" = 1'-0"



WOOD TRUSS
SEE STRUCTURAL
DRAWINGS
5/8" GYP BOARD
TYPE X
METAL STUD WALL
5/8" GYP BOARD
TYPE X
ACOUSTICAL INSULATION
CONTINUOUS CEILING
BETWEEN LOCKER ROOMS

6 WALL DETAIL NOT USED

7 WALL DETAIL/LOCKER ROOM
SCALE 1/2" = 1'-0" REFER TO SHEET A-4.2



1/2" X 8" FASIA
METAL LOUVER
FLASHING
2"
2" X 2" X 3/16"
STEEL ANGLE

8 EVE DETAIL
SCALE 1/2" = 1'-0"

DESIGN	BY	Hassan Akhavan	CHECKED	Don Alsey	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE No. 54M POST MILE L5726	SAN BERNARDINO MS OFFICE BUILDING WALL DETAILS	SHEET A1-9
	DETAILS	BY	Hassan Akhavan	CHECKED					
QUANTITIES	BY		CHECKED		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT: 3600 CONTRACT No.: 08-0K841 PROJECT NUMBER & PHASE: 081400073	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF X X

TAEWW Imperial - CCSC Rev. 04/14
P:\dist_08\081400073_san_bernardino_ms_office\expdite\A1_9_Detail_4.dgn

DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SBd	L5726		28	72

LICENSED ARCHITECT  DATE APR-15

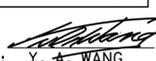
LICENSED ARCHITECT Hassan Akhavan No. C-20451 RENEWAL DATE 04-30-17 STATE OF CALIFORNIA

2-16-16 PLANS APPROVAL DATE

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ACCESSIBILITY DESIGN APPROVAL STAMP
DOT / DES / OTA

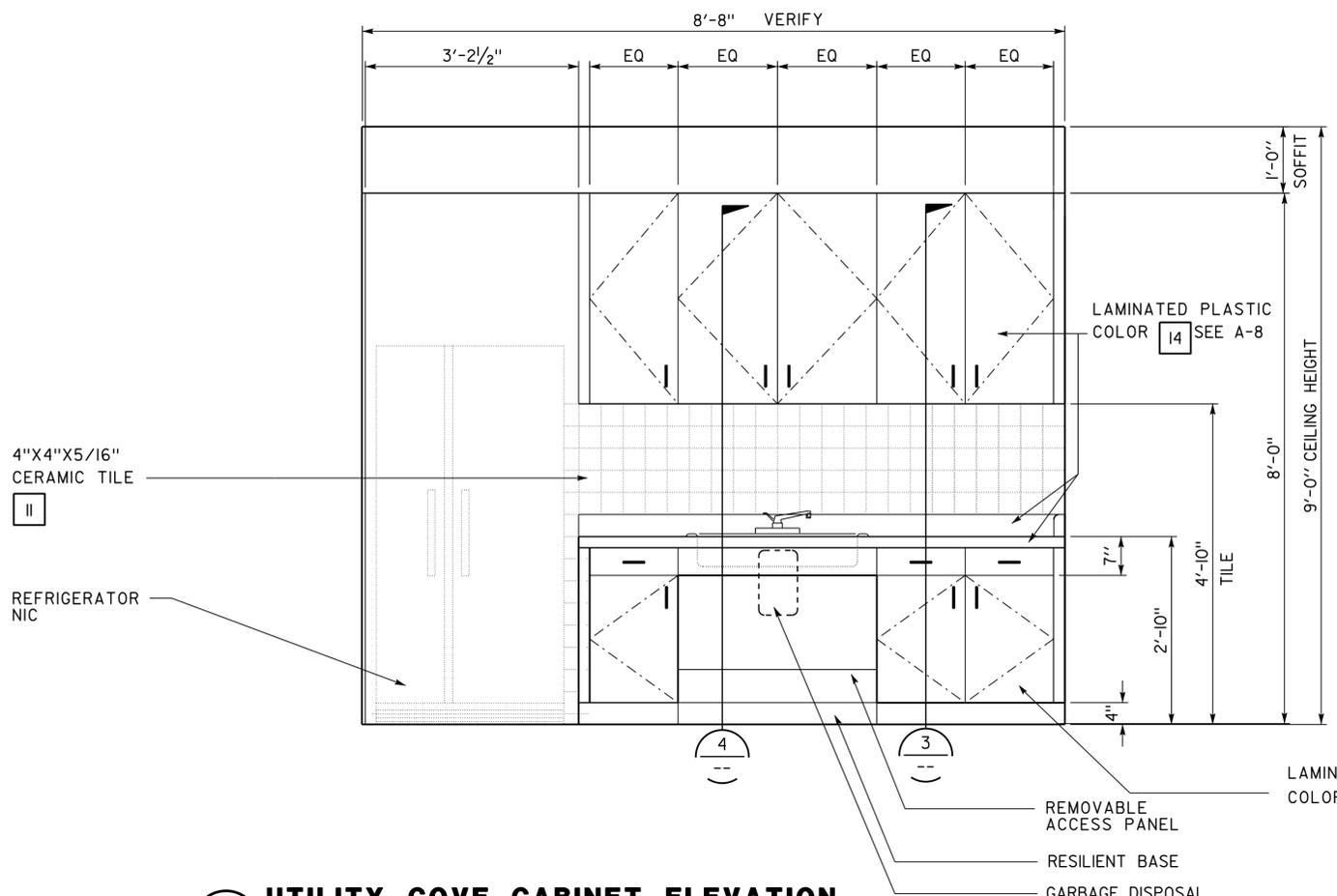
PROJECT ID **0814000073**

Reviewed by:  Y. A. WANG
Date: 5/28/2015

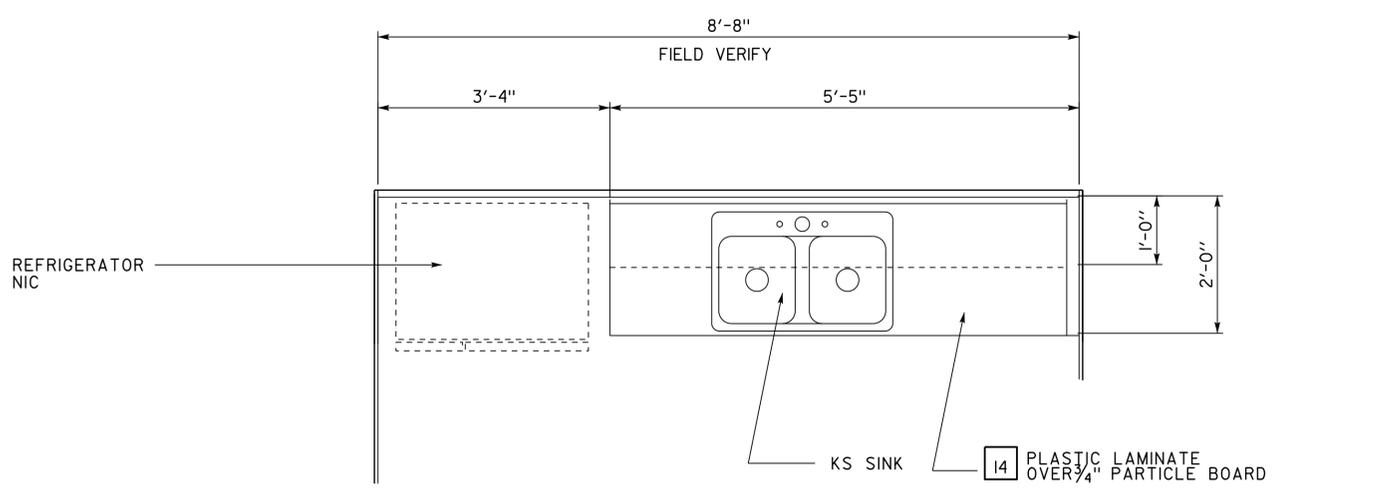
OFFICE OF THE STATE FIRE MARSHAL
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Reviewed by:  BRAD GOODRICH
Approval date: 6/30/15

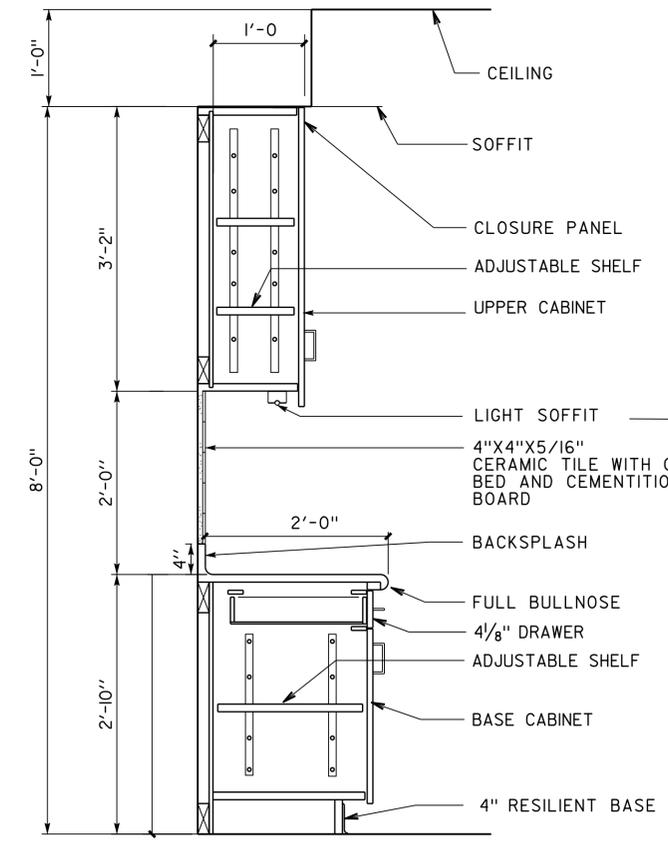
CSFM File No. 01-36-11-0054



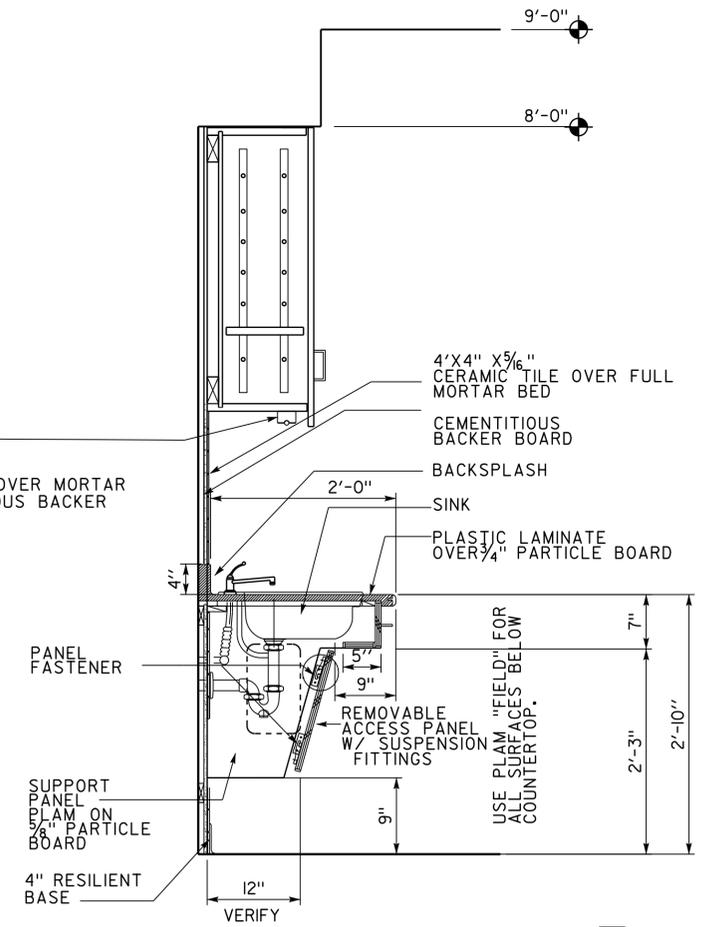
1 UTILITY COVE CABINET ELEVATION
SCALE 3/4"=1'-0"



2 CABINET FLOOR PLAN
SCALE 3/4"=1'-0"



3 CABINET SECTION
SCALE 1"=1'-0"



4 CABINET SECTION
SCALE 1"=1'-0"

DESIGN	BY Hassan Akhavan	CHECKED Don Alsey
DETAILS	BY Hassan Akhavan	CHECKED Don Alsey
QUANTITIES	BY	CHECKED

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

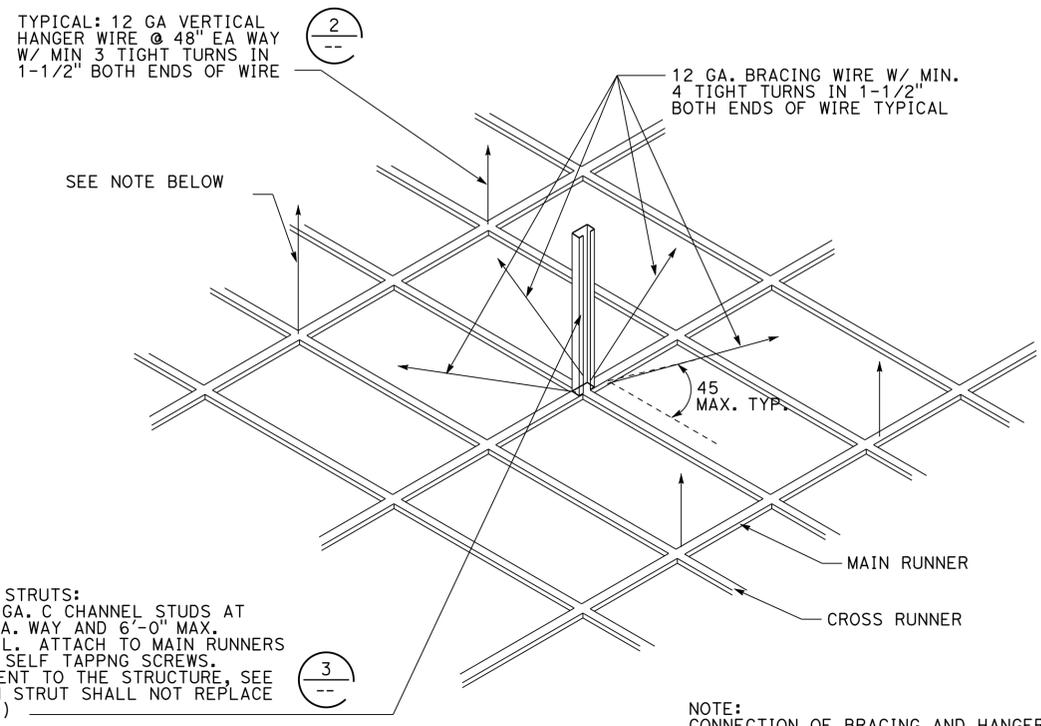
DIVISION OF ENGINEERING SERVICES
ARCHITECTURAL AND STRUCTURAL DESIGN

BRIDGE No. 54M
POST MILE L5726

SAN BERNARDINO MS OFFICE BUILDING
UTILITY COVE

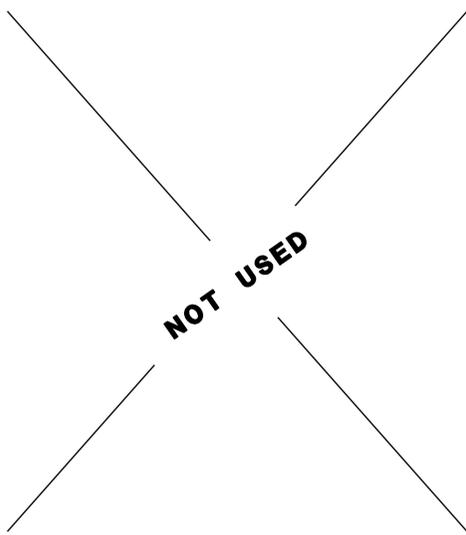
SHEET OF A1-10

DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SBd	L5726		29	72
LICENSED ARCHITECT  DATE APR-15					
PLANS APPROVAL DATE 2-16-16					
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COMPRESSION STRUTS:
 3-1/2" X 18 GA. C CHANNEL STUDS AT
 12'-0" O.C. EA. WAY AND 6'-0" MAX.
 FROM EA. WALL. ATTACH TO MAIN RUNNERS
 WITH 2- #12 SELF TAPPING SCREWS.
 FOR ATTACHMENT TO THE STRUCTURE, SEE
 (COMPRESSION STRUT SHALL NOT REPLACE
 HANGER WIRE.)

NOTE:
 CONNECTION OF BRACING AND HANGER WIRES
 TO THE STRUCTURE ABOVE AS PER CALIFORNIA
 BUILDING CODE. SEE



4 NOT USED
 NO SCALE

ACCESSIBILITY DESIGN APPROVAL STAMP
 DOT / DES / OTA

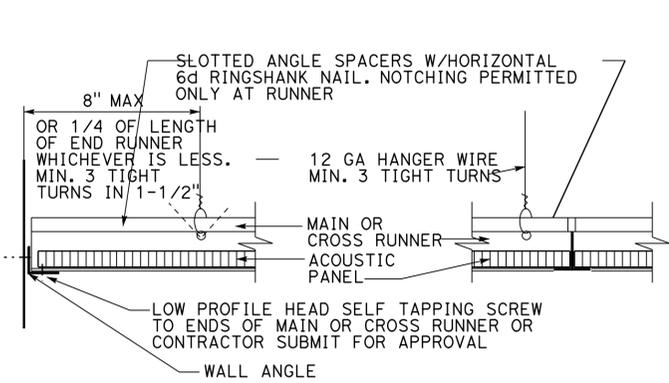
PROJECT ID
0814000073

Reviewed by:  Y. A. WANG
 Date: 5/28/2015

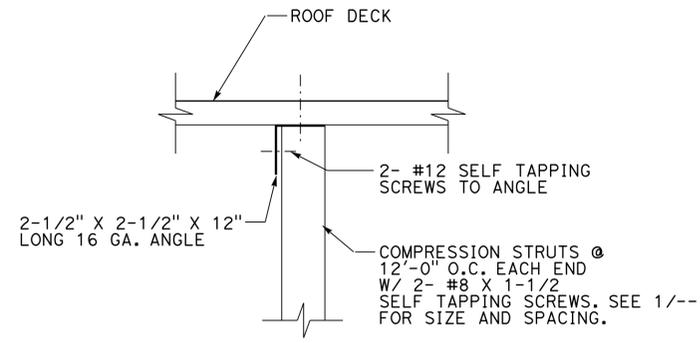
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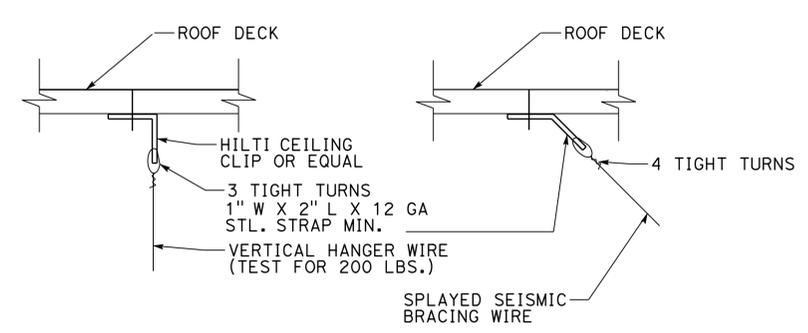
1 SUSPENDED ACOUSTICAL CEILING
 NO SCALE



2 SUSPENDED PANEL CEILING
 NO SCALE



3 COMPRESSION STRUT
 NO SCALE



5 HANGER WIRE ANCHORAGE
 NO SCALE

DESIGN BY Hassan Akhavan CHECKED Don Alsey	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE No. 54M	SAN BERNARDINO MS OFFICE BUILDING	SHEET A1-11
			POST MILE L5726		
DETAILS BY Hassan Akhavan CHECKED Don Alsey	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT: 3600 CONTRACT No.: 08-0K841 PROJECT NUMBER & PHASE: 0814000073	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF
QUANTITIES BY CHECKED	0 1 2 3				

DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SBd	L5726		30	72


 REGISTERED CIVIL ENGINEER 06-25-2015 DATE
 No. 60406
 Exp. 6-30-16
 CIVIL
 STATE OF CALIFORNIA

ABBREVIATIONS

AAD	ADHESIVE ANCHORAGE DEVICE	HD	HOLDOWN
AB	ANCHOR BOLT	Hex	HEXAGON
AC	ASPHALT CONCRETE	Horiz	HORIZONTAL
Alt	ALTERNATE	HSB	HIGH STRENGTH BOLT
APA	AMERICAN PLYWOOD ASSOCIATION	HSS	HOLLOW STRUCTURAL SECTION
APC	ALTERNATIVE PIPE CULVERT	Jt	JOINT
Bldg	BUILDING	LOL	LAYOUT LINE
Blkg	BLOCKING	LVL	LAMINATED VENEER LUMBER
BN	BOUNDARY NAILING	m	METER
Btm	BOTTOM	Max	MAXIMUM
CB	CARRIAGE BOLT	MEA	MECHANICAL EXPANSION ANCHOR
CIDH	CAST IN DRILLED HOLE	Mech	MECHANICAL
CJ	CONTROL JOINT	Mfr	MANUFACTURER
Clr	CLEAR	mm	MILLIMETER
CMU	CONCRETE MASONRY UNIT	Min	MINIMUM
Conc	CONCRETE	MIW	MALLEABLE IRON WASHER
Const	CONSTRUCTION	OC	ON CENTER
Cont	CONTINUOUS	OG	ORIGINAL GRADE
CP	COMPLETE PENETRATION WELD	OH	OPPOSITE HAND
Dbl	DOUBLE	Opt	OPTIONAL
DF	DOUGLAS FIR	P	PITCH
Dia	DIAMETER	PDF	POWER DRIVEN FASTENER
DIP	DUSTILE IRON PIPE	Plwd	PLYWOOD
DN	DIAMETER NOMINAL	PT	PRESSURE TREATED
do	DITTO	PW	PUDDLE WELD
(E)	EXISTING	PWB	PREFABRICATED WOOD I BEAM
Ea	EACH	RCP	REINFORCED CONCRETE PIPE
EL	ELEVATION	Reinf	REINFORCED, REINFORCING
Elec	ELECTRICAL	Req'd	REQUIRED
Embed	EMBEDMENT	SDSTS	SELF DRILL, SELF TAP SCREW
EN	EDGE NAIL	Sim	SIMILAR
Eq	EQUAL	SPS	STRUCTURAL PLYWOOD SHEATHING
Exp	EXPANSION	Sq	SQUARE
FDGM	FREE DRAINING GRANULAR MATERIAL	Stagg	STAGGERED
FG	FINISH GRADE	Std	STANDARD
FL	FLOW LINE	SW	STUD WELD
Fir	FLOOR	Sym	SYMMETRICAL
FN	FACE (FIELD) NAIL	T&G	TONGUE-AND-GROOVE
FOC	FACE OF CONCRETE	TN	TOE NAIL
FOM	FACE OF MASONRY	TS	TUBE STEEL
FOS	FACE OF STUD	Typ	TYPICAL
Ftg	FOOTING	UON	UNLESS OTHERWISE NOTED
Ga	GAGE	Vert	VERTICAL
Galv	GALVANIZED		
GLM	GLUE LAMINATED MEMBER		
Gyp Bd	GYPSUM BOARD		

SYMBOLS

	BLOCKING IN SECTION OR ELEVATION		CMU WALL ON PLAN VIEWS
	CONTINUOUS MEMBER IN SECTION		DROPPED SLAB ON PLAN VIEWS
	END OF MEMBER		REINFORCED CONCRETE
	BEARING WALL		SAND
	SHEAR WALL		STRUCTURE BACKFILL
	LENGTH SHEARWALL SCHEDULE SYMBOL REFERENCE		STRUCTURE EXCAVATION
	GLUE LAMINATED MEMBER SECTION		ORIGINAL GROUND
	NORTH ARROW		LIMITS OF STRUCTURE BACKFILL (SHOWN ON PLAN VIEWS)
	PARTIAL SECTION CUT		FREE DRAINING GRANULAR MATERIAL
	FULL SECTION CUT		BOTTOM OF FOOTING
	REVISION CALLOUT		ELEVATION OR WORKING POINT
	GRID LINE INDICATOR		EXISTING FEATURES
	CENTER LINE		HOLDOWN, Typ (MANUFACTURERS ARE THOSE NOTED IN THE ORDER SHOWN)
	STATION LINE		FRAME CONNECTOR (MANUFACTURERS ARE THOSE NOTED IN THE ORDER SHOWN)
	STEEL PLATE		DETAIL NUMBER OR NOTE NUMBER ADDITIONAL REFERENCE (IF REQUIRED) SHEET NUMBER
	DIAMETER		
	SQUARE		

NOTE: SPECIFIC DETAILS OR NOTES ON OTHER SHEETS SHALL PREVAIL OVER STANDARD DETAILS AND NOTES ON THIS SHEET

FILE NO. XS-25-0		DESIGN BY <i>Sean Samuel</i>		CHECKED <i>Joe Glendon</i>		APPROVED <i>R.C. Travis</i>		STATE OF CALIFORNIA		DIVISION OF ENGINEERING SERVICES		BRIDGE NO. 54M		SAN BERNARDINO MAINTENANCE STATION		SHEET ST-1	
DRAWING DATE 1-04		DETAILS BY <i>Peter F. von Savoye, II</i>		CHECKED <i>Sean Samuel</i>		DESIGN SUPERVISOR		DEPARTMENT OF TRANSPORTATION		ARCHITECTURAL AND STRUCTURAL DESIGN		POST MILE L5726		LEGEND			
TAEMWW Imper'ial Rev. 7/10								ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3		UNIT PROJECT NUMBER & PHASE 3581 08140000731		DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY)		SHEET OF	

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A FRAMING NOTES

- Dimensions are typically shown to face of stud for exterior walls, to centerline of stud at interior walls, and to centerline of openings. Vertical dimensions are typically shown from rough floor or slab to top of plate or to underside of lintels. Dimensions shown as "clear" are from surface to surface.
- Bearing, shear and exterior walls shall be sheathed with 5/8" structural plywood sheathing.
- All roofs shall be sheathed with 5/8" structural plywood sheathing.
- Plywood for floors and roofs shall be placed face grain perpendicular to supports. Where possible, plywood shall be placed in full sheets and staggered one-half sheet length. Any partial plywood sheet shall not be less than 2'-0" in length or width unless fully blocked. Plywood for wainscots, siding and wall sheathing may be placed parallel to framing and with the C-C plugged face exposed. See Detail 2, sheet ST-1B.
- All wood members shall be Douglas Fir-Larch (DF) quality grade stamped. Grade stamps shall indicate compliance with the grading requirements of WWPA, WCLIB or other approved lumber inspection agency.
- Structural plywood sheathing shall be APA grade stamped plywood conforming to Voluntary Product Standard PSI, Grade C-D, Exposure 1. Thickness and span rating shall be as shown on the plans.
- Wood grades (unless otherwise noted):
 - For horizontal members:

Joists & Rafters	Grade #2
Beams & Stringers	Grade #1
Ledgers	Grade #1
 - For vertical members:

2x4 Studs	Construction Grade
2x6 & larger studs	Grade #2
Posts & Timbers	Grade #1
 - Glue laminated beams:

Simple spans	24F-V4 DF/DF
Cantilevers & Continuous	24F-V8 DF/DF
- Glue laminated members shall be engineered, stress rated and factory laminated with adhesive for wet use.
- Exposed members shall be "architectural appearance" grade and non-exposed members shall be "industrial appearance" grade.
- All wood in direct contact with concrete or masonry shall be pressure treated Douglas Fir-Larch.
- Joists framed into the side of wood girders shall be supported by joist hangers.
- Joists shall be supported laterally at the ends and at each support by solid blocking or other approved means except where the ends of joists are nailed to a header, band or rim joist or to an adjoining stud. Solid blocking shall not be less than 2x in thickness and the full depth of the joist.
- Joists and roof rafters 1'-0" or deeper shall have full depth 2x thick solid blocking at 8'-0" maximum spacing.
- Provide 2x blocking to secure fixtures shown on the project plans.
- Joists under and parallel to bearing walls shall be doubled.
- When there are multiple holes and notches in one structural element or when there are holes and notches occurring in more than two consecutive structural elements, the Engineers approval is required, unless the details are shown on plans.
- Notches or cuts in bearing or shear wall studs may be to a depth not exceeding 25% of its width. Wood studs in non-bearing and non-shear walls supporting only their weight may be notched or cut to a depth not greater than 40% (See note 16 above).
- Bored hole diameters shall not exceed 40% of the stud width in bearing walls and 60% in non-bearing walls. The top plates may not be bored or cut, without the Engineer's approval. Neither bearing nor shear wall top plates may be bored greater than 40%, unless detailed on the plans. Holes shall not be closer than 5/8" to the edge of the stud. (See note 16 above)
- When it is necessary to cut the sole plate, sill plate or wood stud for plumbing, heating or other pipes, a 1/16" thick x 1 1/2" wide galvanized metal stud shoe plate shall be fastened w/6-16d to the plate across the opening.
- Equivalent metal bridging or ties may be submitted to the Engineer for approval.

B MINIMUM NAILING SCHEDULE

- All structural nailing shall be common wire. Alternate fasteners may be substituted as approved by the Engineer.
- For wood to wood joints, the spacing of nails shall not be less than the required nail penetration. Edge or end distances shall not be less than 1/2 the required nail penetration. Where pre-drilling is required to avoid splitting of the wood, the hole diameter shall not exceed three-fourths of the nail diameter.
- Nailing not noted below or on the project plans shall be a minimum of 2 nails at each contact, 8d for 1x members and 16d for 2x members.
- Joists or Rafters:
 - Bearing (sill, girder, top plate) Toe Nail 3-8d
 - Laps (parallel members over walls or beams) Face Nail 4-16d
For each additional 3" member depth beyond 6" member add 2-16d
 - Rim joist to floor joist, End Nail 2-16d
For each additional 4" member depth beyond 8" member add 1-16d
 - Rim joist to top plate, Toe Nail 8d @ 6" OC
 - Double joists under bearing walls, staggered Face Nail. 16d @ 1'-0" OC
- Studs:
 - Double studs, Face Nail 16d @ 2'-0" OC
 - Top plate to stud, End Nail 2-16d
 - Stud to sole plate, Toe Nail 3-16d or 4-8d
 - Sole plate to stud, End Nail 2-16d
 - Stud to continuous header, Toe Nail 3-16d or 4-8d
 - Built-up corner studs, Face Nail 16d @ 2'-0" OC
- Plates:
 - Top plate doubled, Face Nail 16d @ 1'-4" OC
 - Top plate intersection, Face Nail 2-16d
 - Sole plate to rim joist or blocking, Face Nail 16d @ 1'-4" OC
 - Sole plate to floor framing, Face Nail 16d @ 1'-4" OC
- Blocking:
 - To studs, joists or rafters, Toe Nail 3-16d or 4-8d
or End Nail 2-16d
For each additional 4" member depth beyond 8" member add, Toe Nail 2-8d
or End Nail 1-16d
 - To plates, Toe Nail 16d @ 1'-0" OC
- 2" Subfloor to each joist or girder one blind and one Face Nail. 2-16d
- Structural Plywood Nailing:
 - Spacing at subflooring, decking, roof and wall structural plywood sheathing to framing:

LOCATION	3/8" Plwd	7/16" - 1" Plwd
At supported edges (edge nailing) & over bearing (beams, girders, walls, etc.)	8d @ 6" OC	10d @ 4" OC
At intermediate supports (field nailing)	8d @ 6" OC	10d @ 6" OC
Where bearing is 4'-0" or greater (field nailing)	—————	10d @ 6" OC
 - Structural plywood edge nailing shall be staggered at supports, Detail 2, Sheet ST-1B; at double plates. Detail 3, Sheet ST-1B; and at double studs located at wall intersections and corners, Details 3A and 3B, Sheet ST-1C.
 - Decking and Underlayment: Use deformed shank nail (see Sheet ST-1B for nail size and spacing)
 - Panel siding to framing: Use zinc coated nail (see Sheet ST-1B for nail size and spacing)
- Finish Plywood Nailing (non-structural):
 - Finish plywood to framing where the thickness is 1/2" or less:
 - Finish nail at supported edges (edge nailing) 6d @ 6" OC
 - Finish nail at Intermediate supports (field nailing) 6d @ 1'-0" OC
- Gypsum Sheathing (Structural):
 - Wall structural gypsum board sheathing to framing where the thickness 5/8" or less:
 - Cooler nail, parker nail or wallboard nail with a flat or concave head and diamond point at all edges and intermediate supports (field nailing) 6d @ 4" OC

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DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	Sbd	L5726		31	72



06-25-2015
REGISTERED CIVIL ENGINEER DATE

REGISTERED PROFESSIONAL ENGINEER
Gang Hong
No. 60406
Exp. 6-30-16
CIVIL
STATE OF CALIFORNIA

02-16-16
PLANS APPROVAL DATE

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C MECHANICAL FASTENER NOTES

- The clearance holes for lag screw shanks shall be the same diameter and depth as the unthreaded shank. The lead hole for the threaded portion shall be of a diameter equal to 60% of the shank diameter for screws up to 1/2" diameter, and 75% of the shank diameter for larger lag screws. The lead hole shall be at least the length of the threaded portion.
- Lag screws shall be turned into pre-drilled holes and not be driven.
- All bolts and lag screws shall be tightened and retightened before closing in, or at completion of job.
- All bolts and lag screws shall be provided with metal washers under heads and nuts which bear on wood.

MINIMUM WASHER FOR BOLTS & LAG SCREWS		
Size	Malleable Iron Washer	Steel Plate Washer
1/2" Ø	2 1/2" Ø x 5/16"	2" x 2" x 1/4"
5/8" Ø	2 3/4" Ø x 5/16"	2" x 2" x 1/4"
3/4" Ø	3" Ø x 7/16"	2" x 2" x 1/4"
7/8" Ø	3 5/16" Ø x 3/8"	3" x 3" x 1/4"
1" Ø	4" Ø x 1/2"	3" x 3" x 1/4"

Place under Bolt Heads & Nuts bearing on Wood

- Fastener alternatives for non-bearing and non-shear walls: Two minimum per member and at 9" from ends.
 - 1/8" Ø Powder driven anchor with 1" penetration @ 2'-0" OC.
 - 1/4" Ø expansion anchorage device embedded 1 1/2" minimum at 2'-0" OC.
 - 1/2" Ø anchor bolt with 2 1/2" embedment @ 4'-0" OC.
- Equivalent mechanical fasteners may be submitted to the Engineer for approval.

NOTE: SPECIFIC DETAILS OR NOTES ON OTHER SHEETS SHALL PREVAIL OVER DETAILS AND NOTES ON THIS SHEET

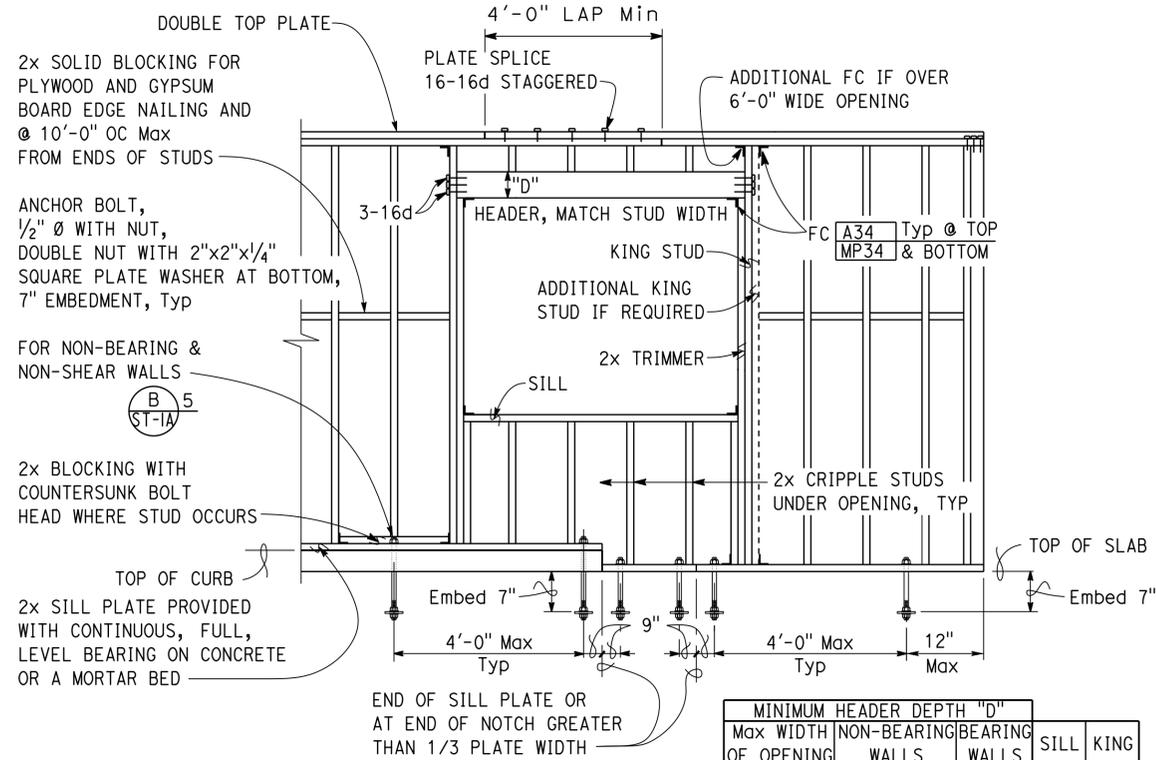
DESIGN BY Gang Hong	CHECKED Thomas Tong	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 54M POST MILE L5726	SAN BERNARDINO MAINTENANCE STATION WOOD FRAMING STANDARD - NOTES	SHEET ST-1A
DETAILS BY Aleksey Serin	CHECKED Gang Hong		UNIT PROJECT NUMBER & PHASE 3581 08140000731	DISREGARD PRINTS BEARING EARLIER REVISION DATES →	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF
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DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
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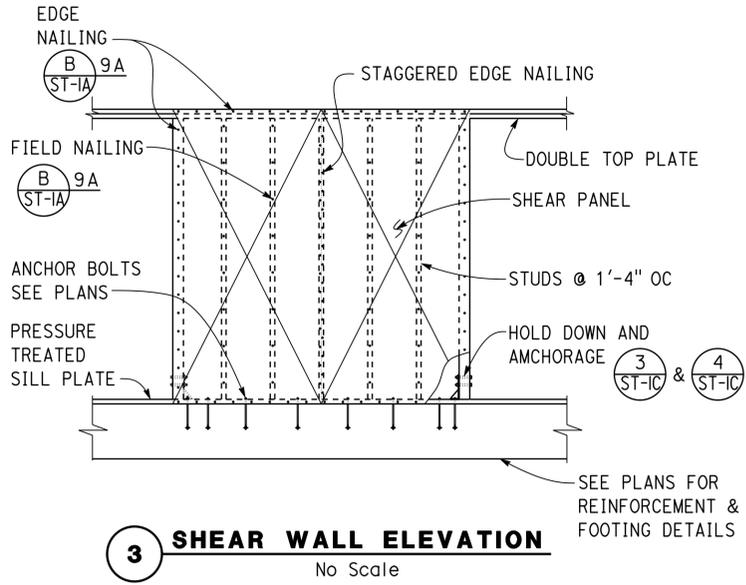
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 DATE 06-25-2015
 PLANS APPROVAL DATE 02-16-16

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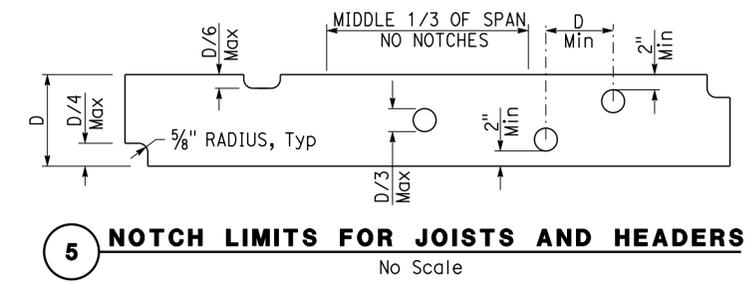


MINIMUM HEADER DEPTH "D"	NON-BEARING WALLS	BEARING WALLS	SILL	KING
4'-0"	6"	8"	2x	2x
8'-0"	8"	12"	2-2x	2-2x
10'-0"	10"	14"	2-2x	3-2x

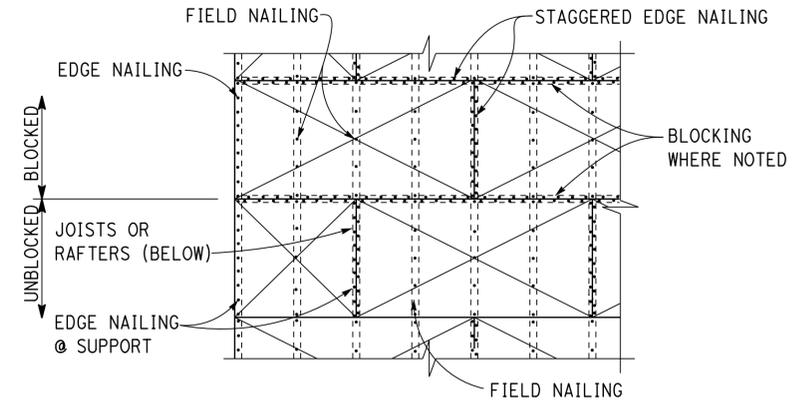
1 TYPICAL WALL AND OPENING FRAMING
No Scale



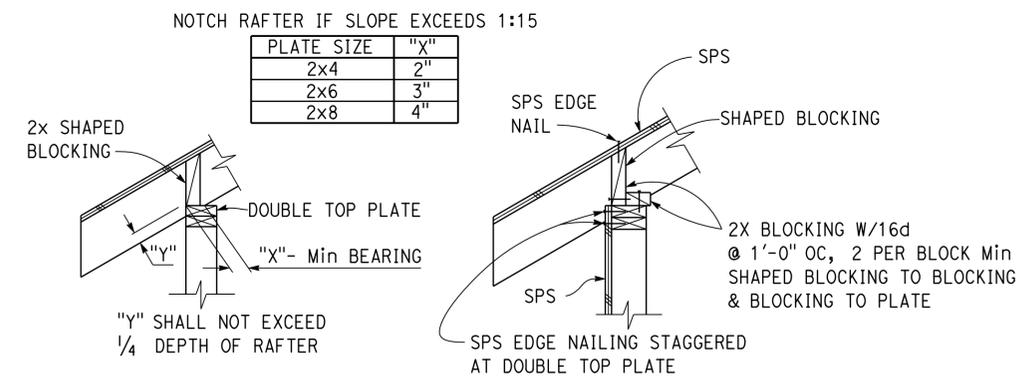
3 SHEAR WALL ELEVATION
No Scale



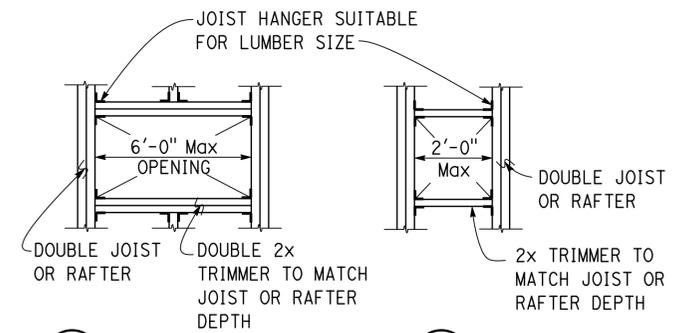
5 NOTCH LIMITS FOR JOISTS AND HEADERS
No Scale



2 STRUCTURAL PLYWOOD LAYOUT
No Scale



4A RAFTER BEARING **4B SHEAR TRANSFER**
No Scale



6A **6B**
6 FRAMING AT OPENINGS
No Scale

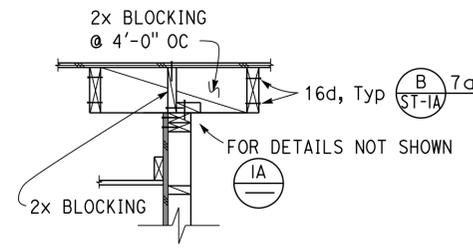
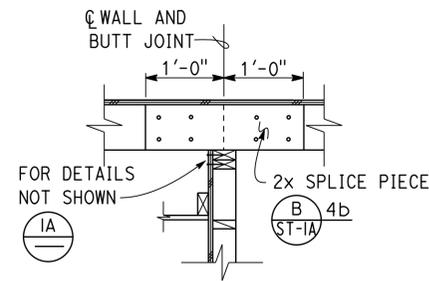
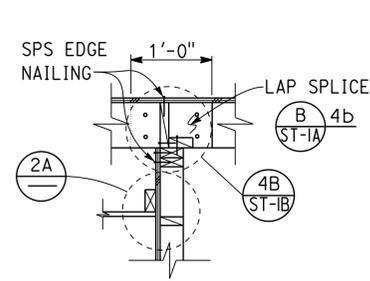
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DESIGN BY	Gang Hong	CHECKED	Thomas Tong
DETAILS BY	Aleksey Serin	CHECKED	Gang Hong
QUANTITIES BY		CHECKED	

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF ENGINEERING SERVICES
 ARCHITECTURAL AND STRUCTURAL DESIGN
 BRIDGE NO. 54M
 POST MILE L5726

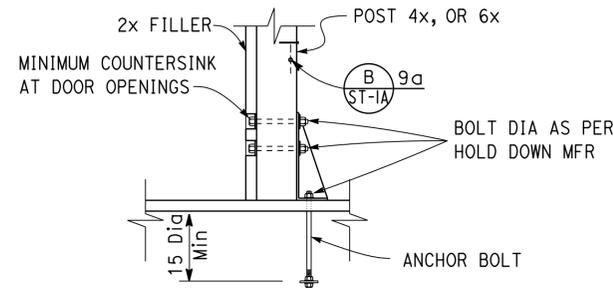
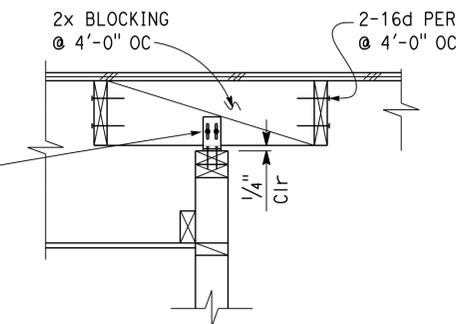
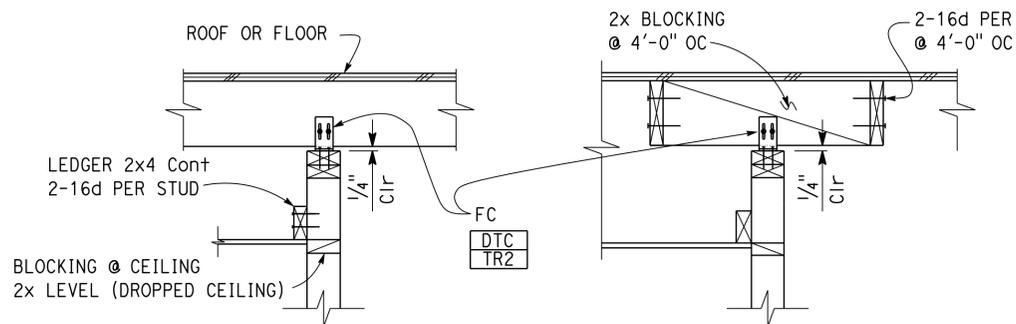
SAN BERNARDINO MAINTENANCE STATION
 WOOD FRAMING STANDARD - DETAILS
 SHEET ST-1B OF

DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SBd	L5726		33	72
 REGISTERED CIVIL ENGINEER			06-25-2015 DATE		
02-16-16 PLANS APPROVAL DATE					
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1A LAP SPLICE ACROSS JOISTS **1B BUTT SPLICE ACROSS JOISTS** **1C JOISTS PARALLEL TO WALL**

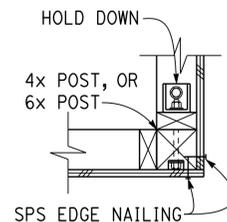
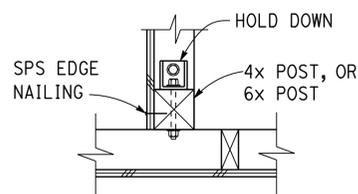
1 JOIST LAYOUT AT TOP OF BEARING AND SHEAR WALL
No Scale



NOTE:
Provide additional 2x studs as required for grip noted on plans.

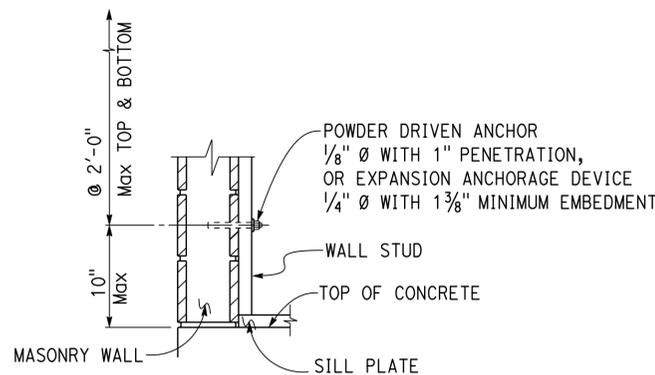
2A ACROSS JOISTS **2B PARALLEL TO JOISTS**
2 NON-BEARING WALL TOP PLATE CONNECTION
No Scale

4 INTERIOR HOLD DOWN
No Scale



3A INTERSECTION **3B CORNER**

NOTE:
Interior sheathing and attachment not shown for clarity.



3 INTERIOR AND CORNER WALL FRAMING DETAILS
No Scale

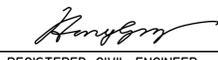
5 STUD ANCHORAGE TO MASONRY
No Scale

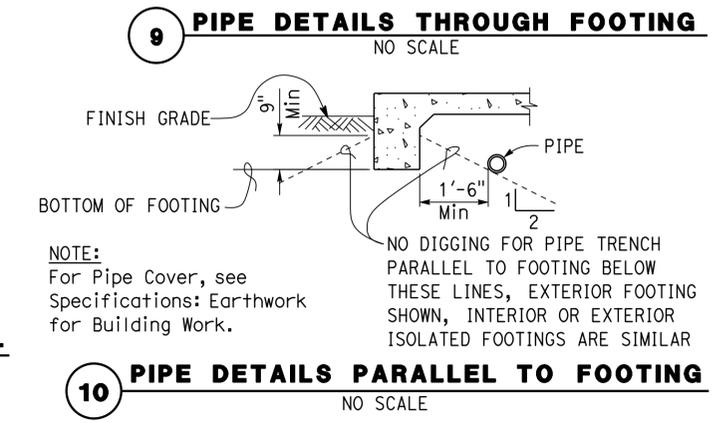
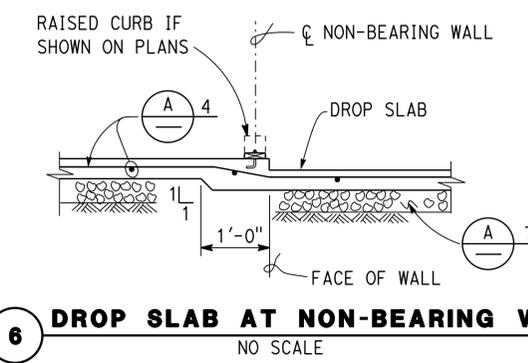
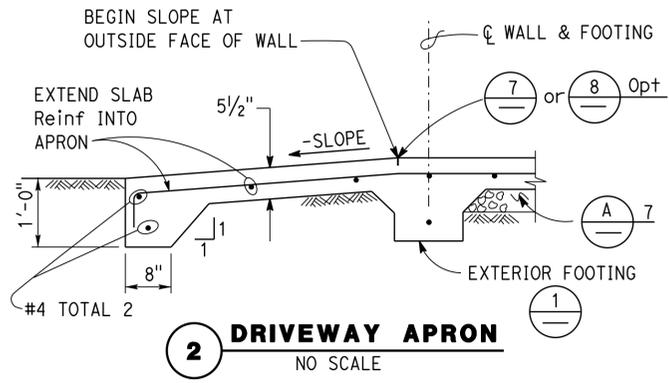
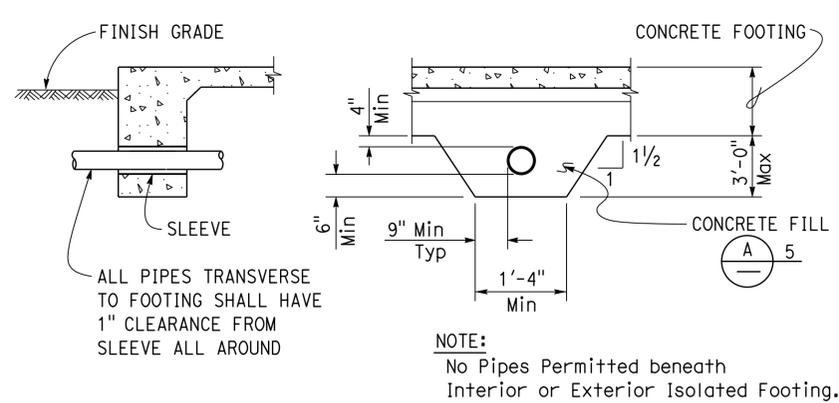
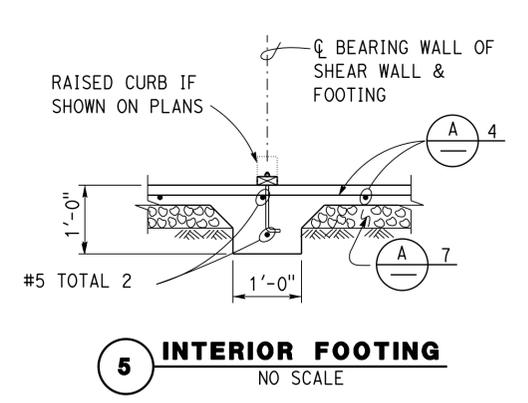
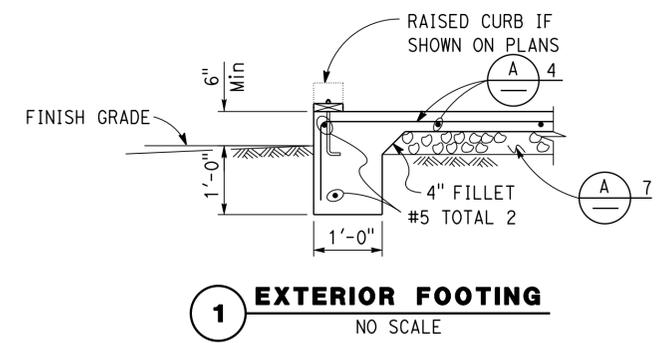
NOTE: SPECIFIC DETAILS OR NOTES ON OTHER SHEETS SHALL PREVAIL OVER STANDARD DETAILS AND NOTES ON THIS SHEET

STANDARD DRAWING				STATE OF CALIFORNIA		DIVISION OF ENGINEERING SERVICES		BRIDGE NO. 54M		SAN BERNARDINO MAINTENANCE STATION		SHEET ST-1C	
FILE NO. XS-25-5.1	DESIGN BY <i>Sean Searl</i>	CHECKED <i>Joe Searl</i>	APPROVED <i>R.E. Travis</i>	DEPARTMENT OF TRANSPORTATION		ARCHITECTURAL AND STRUCTURAL DESIGN		POST MILE L5726		WOOD FRAMING STANDARD - DETAILS		OF	
DRAWING DATE 1-04	DETAILS BY <i>Peter von Savoy</i>		DESIGN SUPERVISOR	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3		UNIT PROJECT NUMBER & PHASE 3581 08140000731		DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY)		SHEET OF	
TAEMWW Imperial Rev. 7/10				SCALE: ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.		EA 000000		10-16-03 11-14-05 11-02-06 01-15-08 08-24-12					

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DIST.	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SBd	L5723		34	72
 REGISTERED CIVIL ENGINEER			06-25-2015 DATE		
02-16-16 PLANS APPROVAL DATE					
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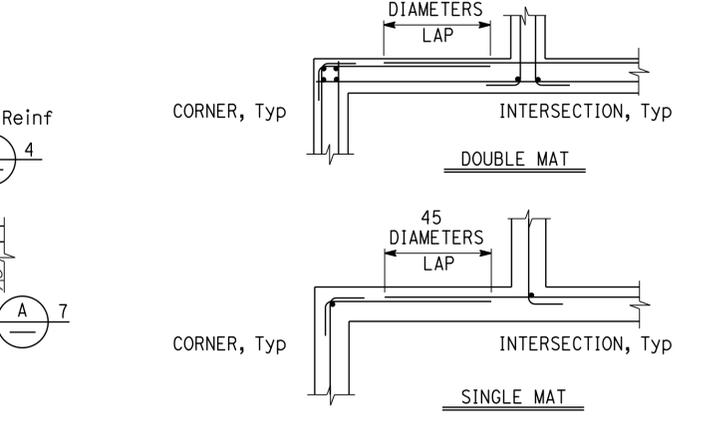
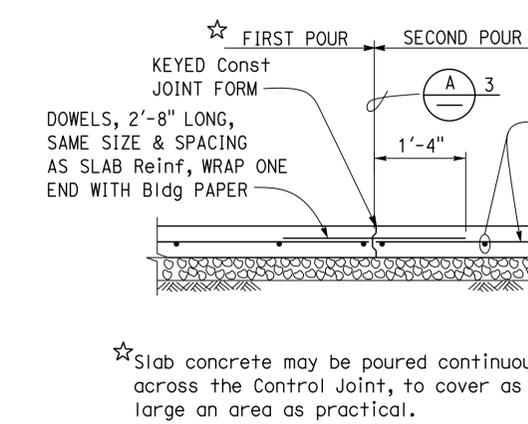
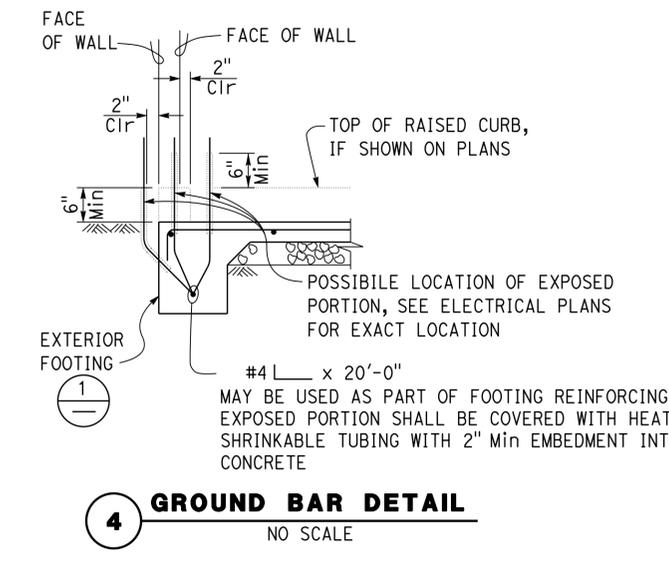
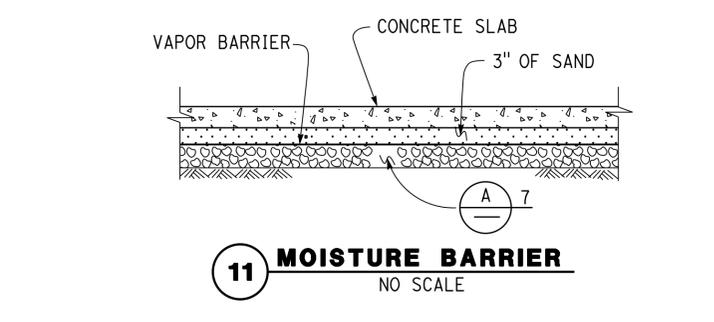
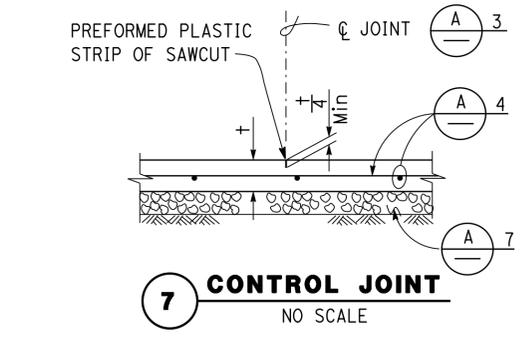
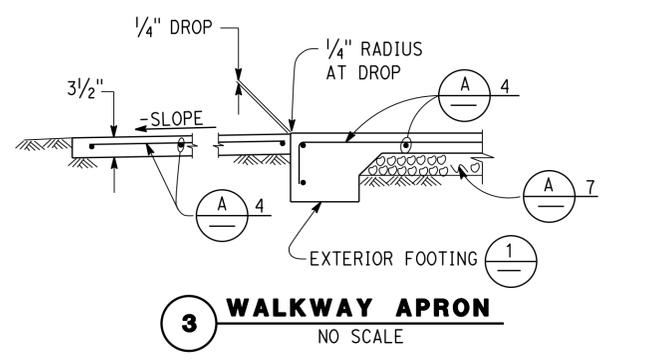


- A CONCRETE NOTES**
- The following minimum concrete cover shall be provided for reinforcement.

	Minimum Cover
a. Concrete cast against and permanently exposed to earth	3"
b. Concrete exposed to earth or weather but cast in forms:	
#6 thru #18 bars	2"
#5 bar and smaller, W31 or D31 Wire, and smaller	1 1/2"
c. Concrete not exposed to weather or in contact with ground:	
Slabs, Walls and Joists:	
#14 and #18 Bar	1 1/2"
#11 Bar and smaller	3/4"
Beams and Columns:	
Primary Reinforcement, Ties, Stirrups and Spirals	1 1/2"
 - Splices in continuous reinforcement as in Walls, Wall Footings, etc. #8 or smaller shall have a lap of 45 diameters and the splices in adjacent bars shall not be less than 5'-0" apart.

Continuous Bars in spandrels, Wall Beams, etc. shall lap Top Bars at center of span and Bottom Bars at supports.
 - Contraction Joints and Control Joints shall divide slab into areas not exceeding 25 square yards without reentrant corners and with length to width ratios not exceeding 1.5 to 1. Joint spacing shall not exceed 15'-0".
 - Slab Thickness (±) Reinforcement

3/2"	#3 @ 18 Each way, place in center of Slab
5/2"	#4 @ 18 Each way, place in center of Slab
 - Concrete fill is to be placed before Footing is poured. Make the same width as the Footing and the full width of the Pipe trench. Concrete fill not required for pipes less than 2" diameter for pipes more than 3'-0" below bottom of footing.
 - See Mechanical and Architectural Plans for size and locations of pipe, vents, ducts and other similar openings. See Electrical Plans for conduits and outlet boxes in floors, walls, etc.
 - Place 4" of free draining granular material under slabs.



NOTE: SPECIFIC DETAILS OR NOTES ON OTHER SHEETS SHALL PREVAIL OVER STANDARD DETAILS AND NOTES ON THIS SHEET

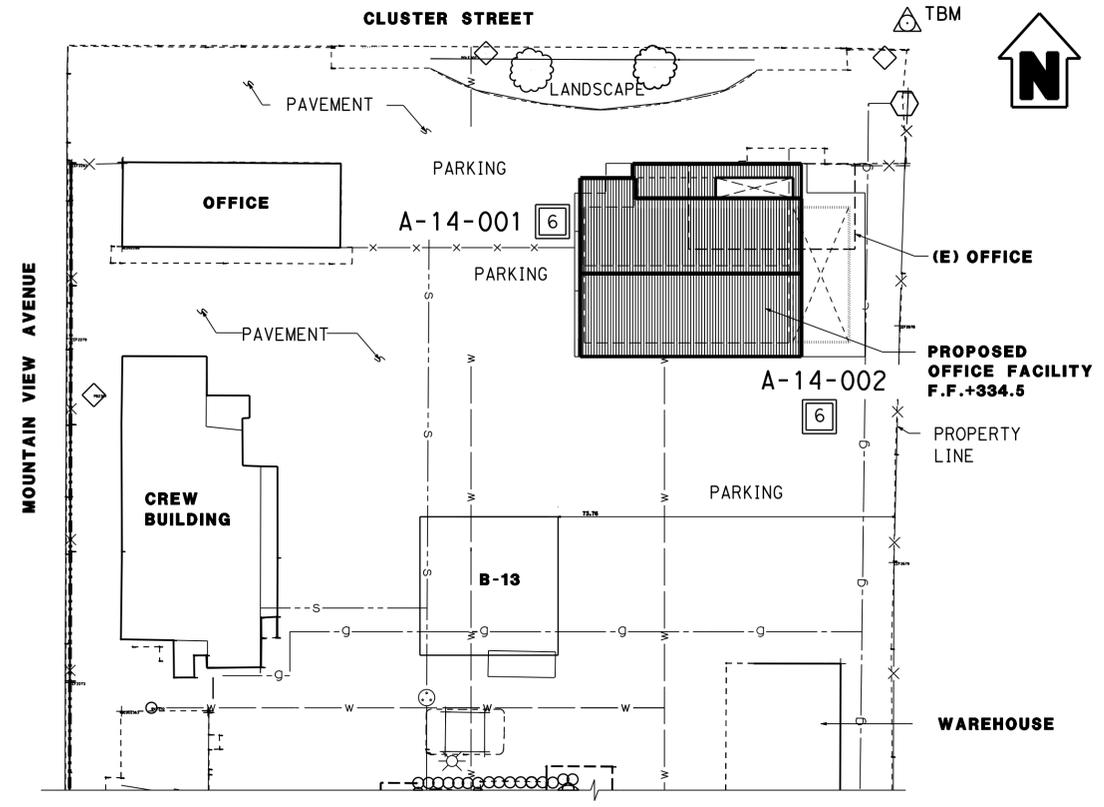
FILE NO. XS-25-1	DESIGN BY Sean Sandoz	CHECKED Lee G. ...	APPROVED R.C. ...	STATE OF CALIFORNIA	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 54M	SAN BERNARDINO MAINTENANCE STATION		SHEET ST-2
DRAWING DATE 1-04	DETAILS BY Peter F. ...	CHECKED ...	DESIGN SUPERVISOR	DEPARTMENT OF TRANSPORTATION	PROJECT NUMBER & PHASE 3581 08140000731	POST MILE L5726	CONCRETE STANDARD		REVISION DATES (PRELIMINARY STAGE ONLY)
TAEMWW Imper-Id Rev. 7/10	SCALE: ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.			ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	UNIT PROJECT NUMBER & PHASE 3581 08140000731	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)		SHEET OF

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	SBd	L5726		35	72
 REGISTERED CIVIL ENGINEER DATE 10-30-14					
PLANS APPROVAL DATE 02-16-16					
					

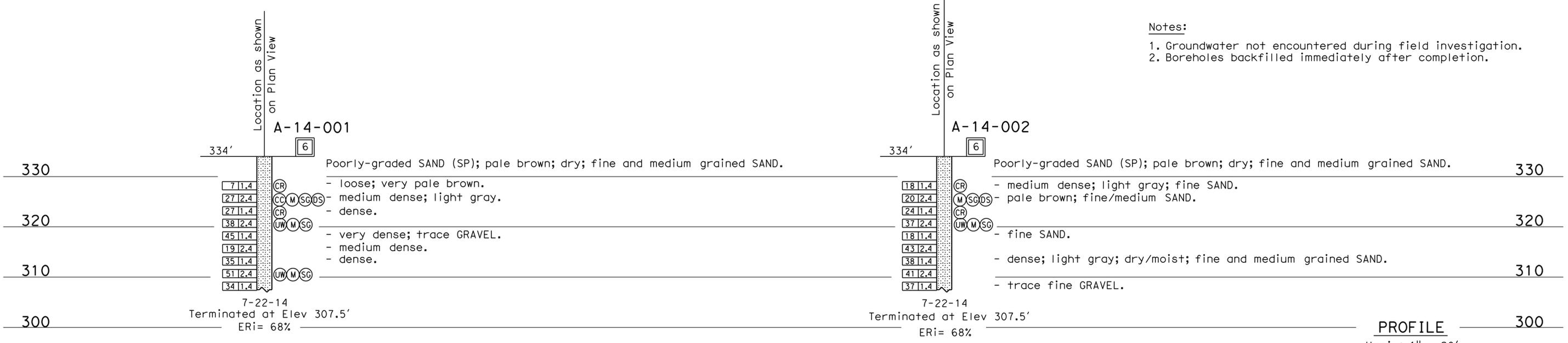
This LOTB sheet was prepared in accordance with the Caltrans Soil & Rock Logging, Classification, & Presentation Manual (2010 Edition).
 See 2010 Standard Plans A10F and A10G for Soil Legend, and A10H for Rock Legend.

BENCH MARK

Assumed TBM Elev 335.0
 NE corner of Property Line
 at sidewalk.



PLAN
 Not to Scale



Notes:

1. Groundwater not encountered during field investigation.
2. Boreholes backfilled immediately after completion.

PROFILE
 Horiz: 1" = 20'
 Vert: 1" = 10'

ENGINEERING SERVICES		MATERIALS AND GEOTECHNICAL SERVICES		STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION		DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH X		BRIDGE NO. 54M-L5726		SAN BERNARDINO MAINTENANCE STATION OFFICE BUILDING (REPLACEMENT)	
FUNCTIONAL SUPERVISOR NAME: A. Perez-Cobo		DRAWN BY: F. Nguyen CHECKED BY: K.D. Cook		FIELD INVESTIGATION BY: S. Logeswaran		PROJECT NUMBER & PHASE: 08140000731		POST MILE		LOG OF TEST BORINGS	
065 CIVIL LOG OF TEST BORINGS SHEET		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		UNIT: 3643		CONTRACT NO.: 08-0K841G		DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES 08-27-14 09-26-14	
										SHEET OF X X	

DATE PLOTTED => \$TIME USERNAME => \$USER

PROJECT DESIGN CRITERIA

The building work on this project has been designed to conform to the 2010 California Building Code (2009 IBC).

DETAIL NOTES

LOADS

SEISMIC: Occupancy Category= II
 Importance Factor I = 1.0
 Site Soil Class = D
 $S_S = 1.840$ $S_{DS} = 1.227$
 $S_I = 0.869$ $S_{DI} = 0.869$
 Seismic Design Category = E
Seismic Force-Resisting System:
 Bearing Wall System
North - South
 Light-framed walls sheathed with wood structural panels rated for shear resistance, or steel sheets.
 $R = 6.5$ $C_S = 0.189$
 Bearing Wall System
East - West
 Light-framed walls sheathed with wood structural panels rated for shear resistance, or steel sheets.
 $R = 6.5$ $C_S = 0.189$
WIND: Basic Wind Speed = 110 mph I = 1.0
 $\lambda = 1.21$ $P_{S30} = \pm 16$ psf
 $K_{zt} = 1.0$
 Wind Pressure on Components and Cladding = 16 psf
LIVE LOAD: Roof = 20 psf

- For Timber and Sawn Lumber see:
 "Wood Framing Standard - Notes"
 "Wood Framing Standard - Details"
- For Concrete see:
 "Concrete Standard"
- All bolts shall be hex head machine bolts, with hex head nuts; unless otherwise noted.
- All lock washers shall be helical spring lock washers.

MATERIALS

REINFORCED CONCRETE: (Ultimate Strength Design) :
 $f'_c = 4,000$ psi
 $f_y = 60,000$ psi

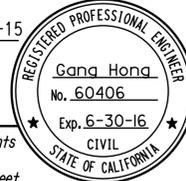
STRUCTURAL STEEL: (Allowable Strength Design) :
 Channels, Angles & Misc. Shapes $F_y = 36$ ksi
 Plates $F_y = 36$ ksi
 Hollow Structural Section (HSS) $F_y = 46$ ksi

FOUNDATION:
 Soils report dated :OCT 28, 2014
 Allowable Soil Pressure (DL + LL) : = 3,300 psf
 For Soil Classification, see Log of Test Boring Sheets.

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	L5726		36	72


 06-25-15
 REGISTERED CIVIL ENGINEER DATE

02-16-16
 PLANS APPROVAL DATE



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DESIGN BY <u>Gang Hong</u> CHECKED <u>Thomas Tong</u>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE No.	SAN BERNARDINO MAINTENANCE STATION OFFICE BUILDING	SHEET ST1-0 OF
			54M		
			POST MILE L5726		
DETAILS BY <u>Aleksey Serin</u> CHECKED <u>Gang Hong</u>	UNIT: 3581 CONTRACT No.: 000001 PROJECT NUMBER & PHASE: 08140000731	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY) 12-24-14 01-23-15	SHEET	OF

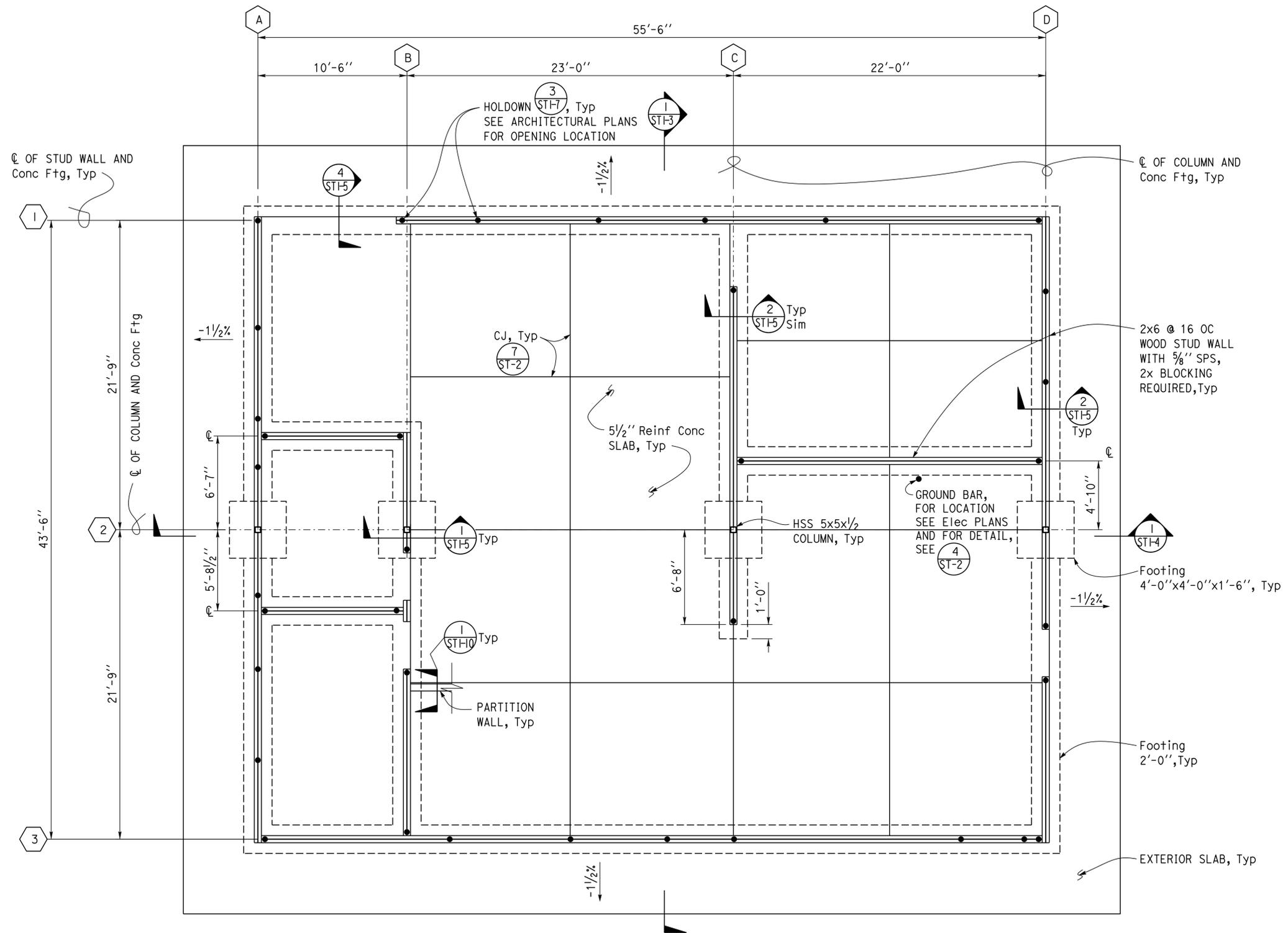
TAEWW Imperial - CCSC Rev. 02/13 ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

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17-FEB-2016 09:12

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Sbd	L5726		37	72

<i>Gang Hong</i>	06-25-15	REGISTERED PROFESSIONAL ENGINEER Gang Hong No. 60406 Exp. 6-30-16 CIVIL STATE OF CALIFORNIA
REGISTERED CIVIL ENGINEER	DATE	
02-16-16		
PLANS APPROVAL DATE		
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.		



1 FOUNDATION PLAN
1/4" = 1'-0"

DESIGN	BY	Gang Hong	CHECKED	Thomas Tong
DETAILS	BY	Aleksey Serin	CHECKED	Gang Hong
QUANTITIES	BY		CHECKED	

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
ARCHITECTURAL AND STRUCTURAL DESIGN

BRIDGE No.
54M
POST MILE
L5726

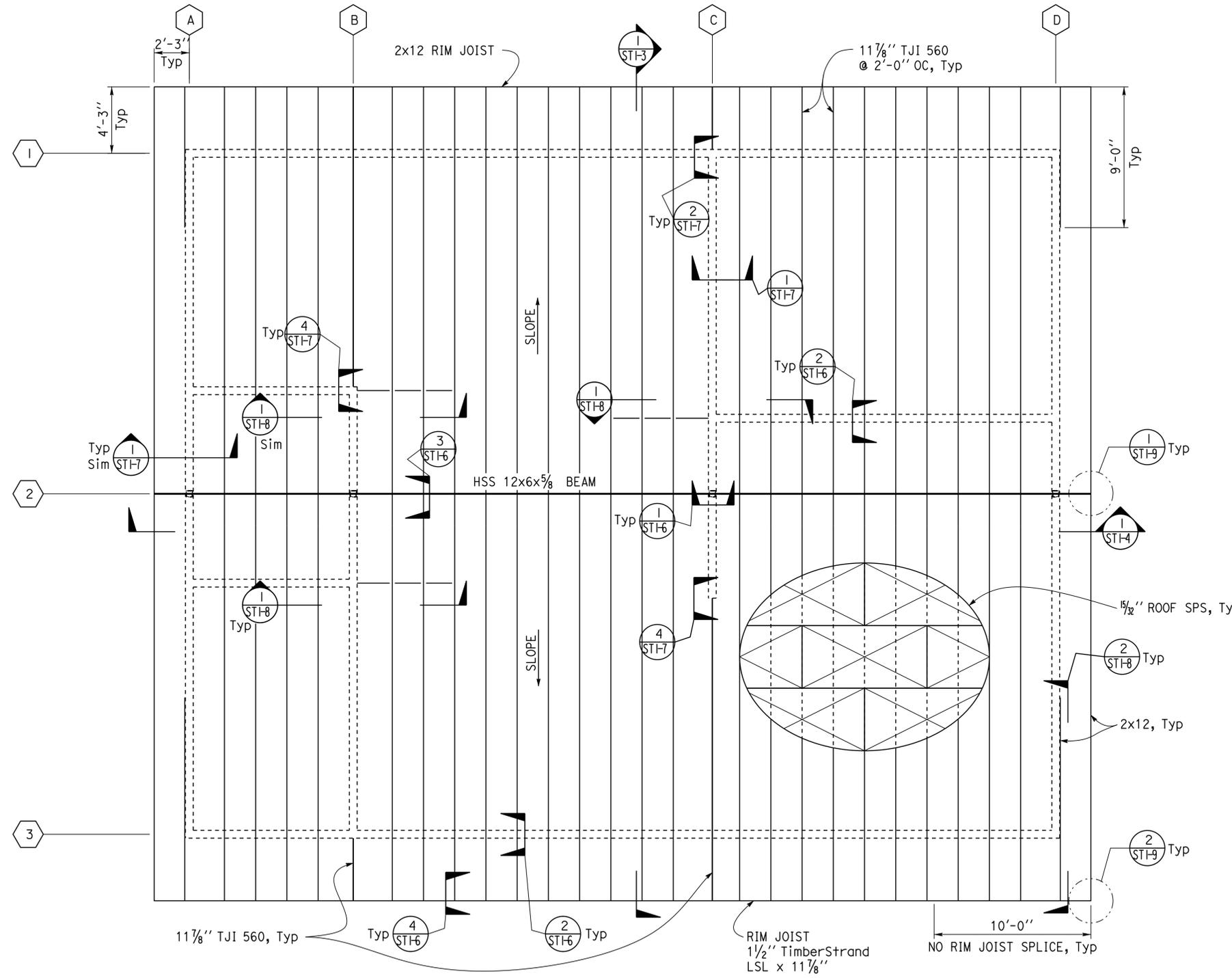
SAN BERNARDINO MAINTENANCE STATION
OFFICE BUILDING
FOUNDATION PLAN

SHEET
ST1-1

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	L5726		38	72

<i>Gang Hong</i>	06-25-15	
REGISTERED CIVIL ENGINEER	DATE	
02-16-16	PLANS APPROVAL DATE	

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.



1 ROOF FRAMING PLAN
 1/4" = 1'-0"

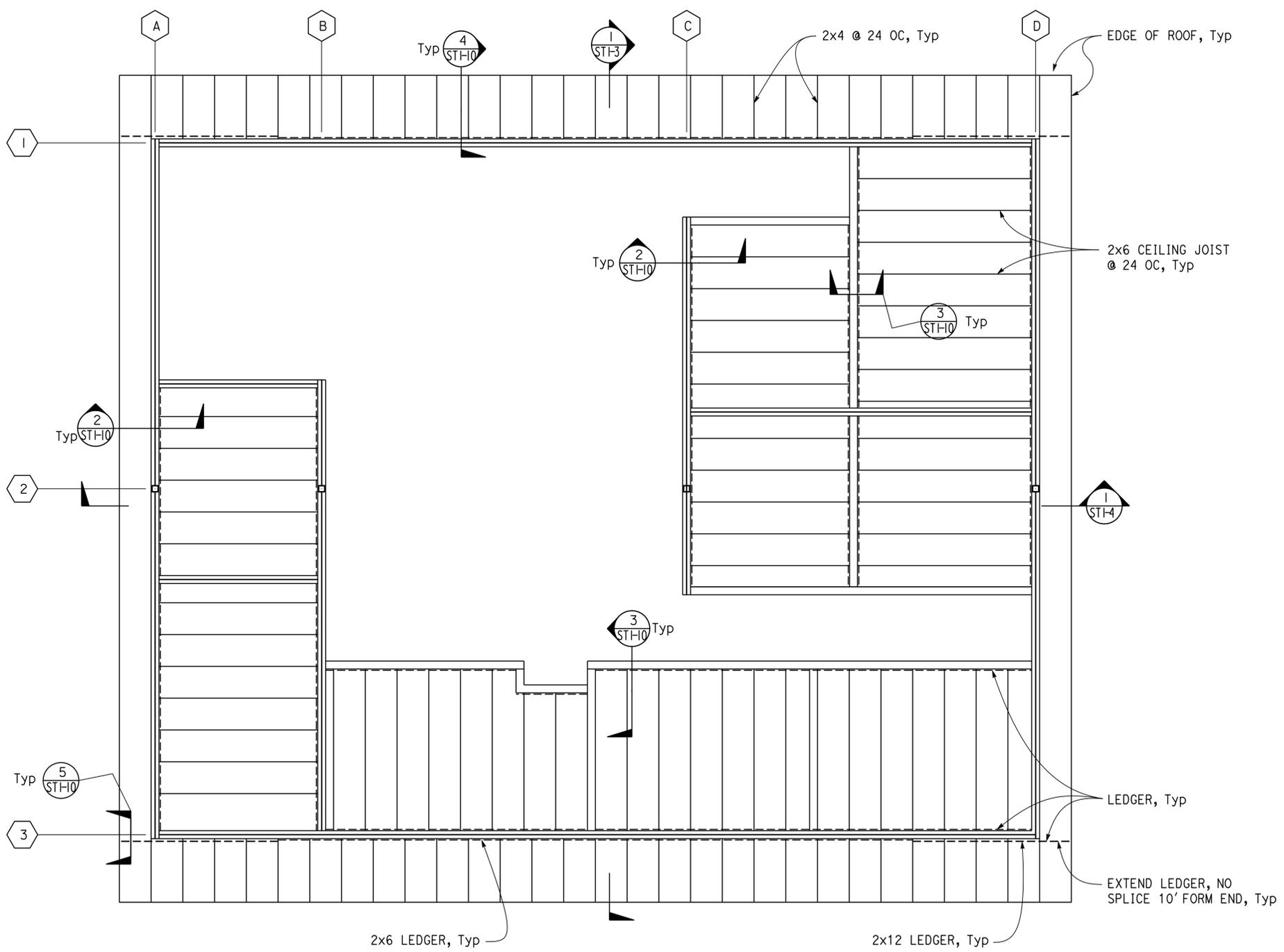


DESIGN BY Gang Hong	CHECKED Thomas Tong	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE No.	SAN BERNARDINO MAINTENANCE STATION	SHEET ST1-2
				54M		
DETAILS BY Aleksey Serin	CHECKED Gang Hong	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	UNIT: 3581 CONTRACT No.: 000001 PROJECT NUMBER & PHASE: 08140000731	POST MILE	OFFICE BUILDING ROOF FRAMING PLAN	SHEET OF
QUANTITIES BY	CHECKED			L5726		
TAEEMWW Imperial - CCSC Rev. 02/13			DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY) 05-11-14 06-23-14 10-06-14 12-23-14 02-04-15 07-02-15 09-02-15	

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	L5726		39	72

REGISTERED CIVIL ENGINEER *Gang Hong* DATE 06-25-15
 02-16-16 PLANS APPROVAL DATE
 No. 60406 Exp. 6-30-16
 CIVIL ENGINEER
 STATE OF CALIFORNIA

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1 CEILING LEVEL FRAMING PLAN
 1/4" = 1'-0"

DESIGN	BY	Gang Hong	CHECKED	Thomas Tong
DETAILS	BY	Aleksey Serin	CHECKED	Gang Hong
QUANTITIES	BY		CHECKED	

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
ARCHITECTURAL AND STRUCTURAL DESIGN

BRIDGE No.	54M
POST MILE	L5726

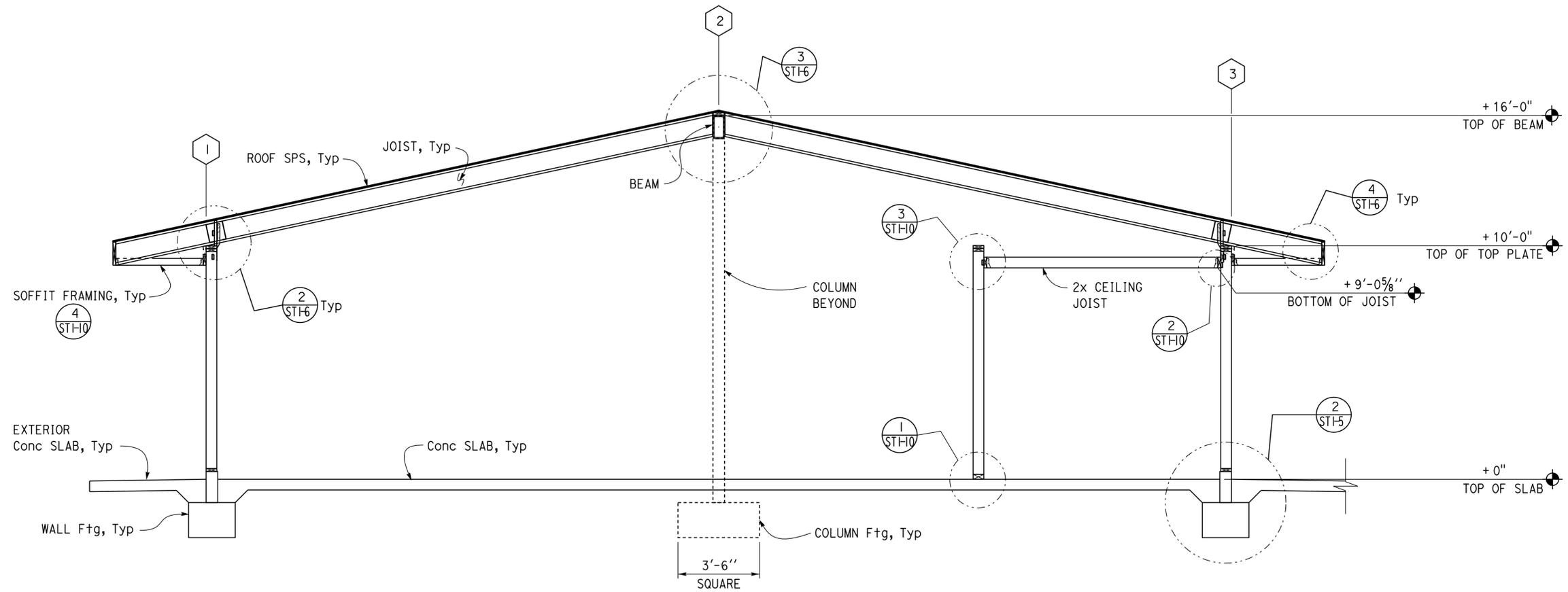
SAN BERNARDINO MAINTENANCE STATION
 OFFICE BUILDING
CEILING FRAMING PLAN

SHEET
ST1-2.1

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	L5726		40	72

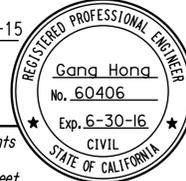

 REGISTERED CIVIL ENGINEER DATE 06-25-15
 02-16-16
 PLANS APPROVAL DATE

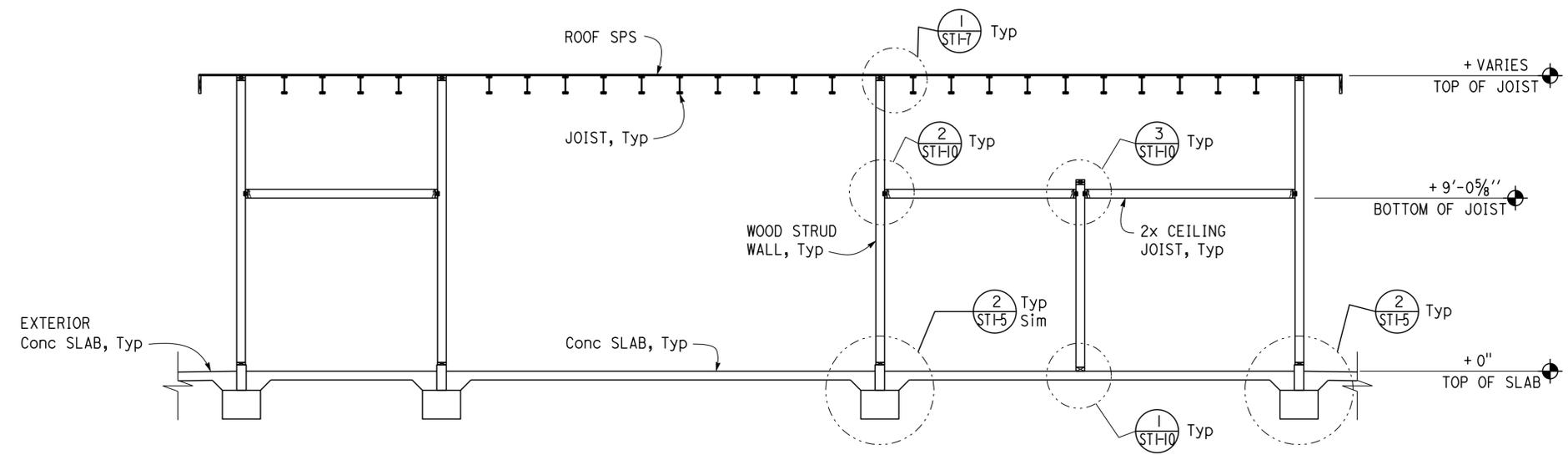
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1 CROSS SECTION
 $\frac{3}{8}'' = 1' - 0''$

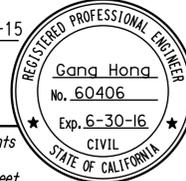
DESIGN	BY	Gang Hong	CHECKED	Thomas Tong	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	BRIDGE No. 54M POST MILE L5726	SAN BERNARDINO MAINTENANCE STATION OFFICE BUILDING	SHEET ST1-3	
	DETAILS	BY	Aleksey Serin	CHECKED					Gang Hong
	QUANTITIES	BY		CHECKED					
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS					0 1 2 3	UNIT: 3581 CONTRACT No.: 000001 PROJECT NUMBER & PHASE: 08140000731	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY) 05-22-14 06-23-14 12-23-14 01-28-15 05-21-15 05-28-15 06-23-15 09-02-15	SHEET OF

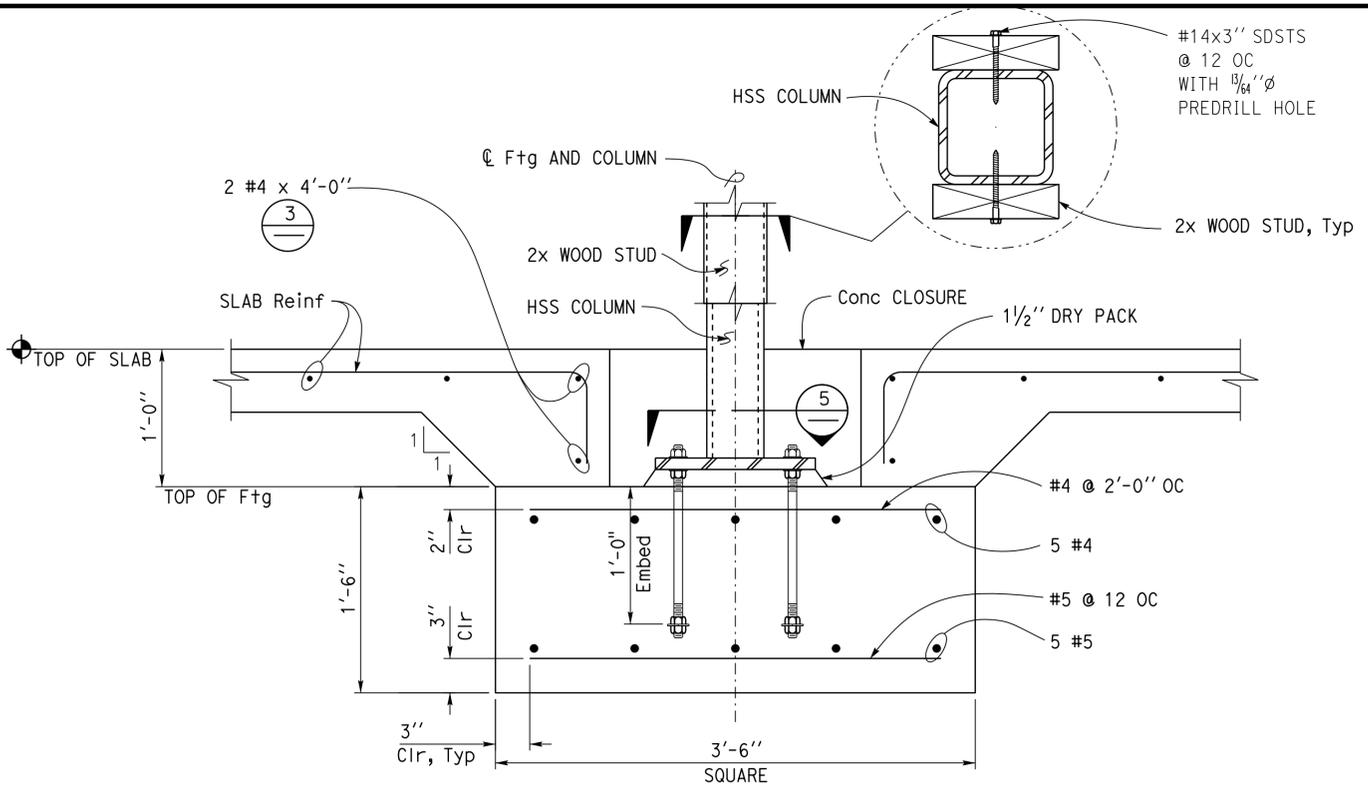
Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	L5726		41	72
 REGISTERED CIVIL ENGINEER			06-25-15 DATE		
02-16-16 PLANS APPROVAL DATE					
<i>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.</i>					



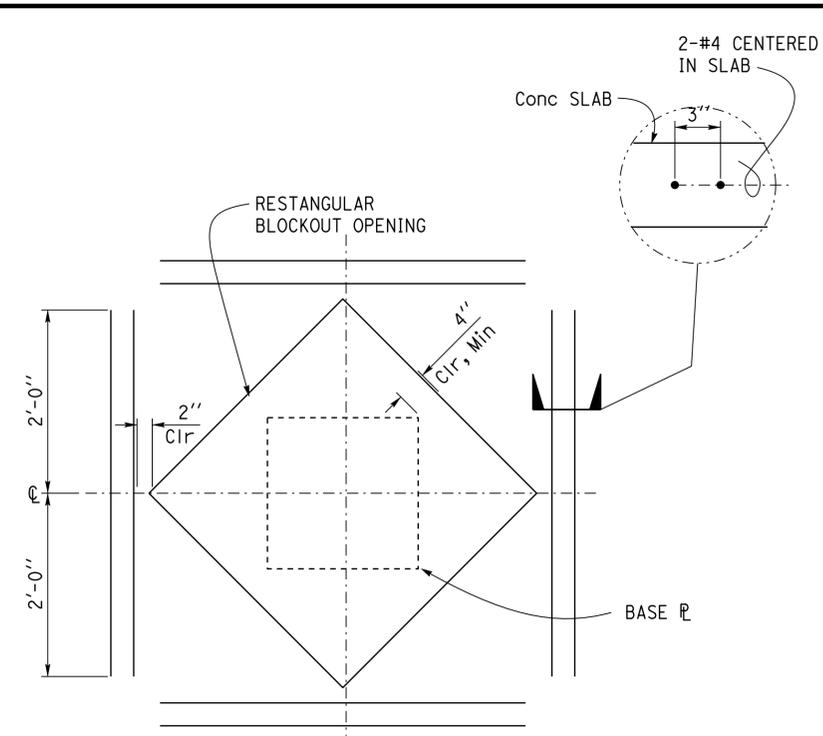
1 LONGITUDINAL SECTION
 1/4" = 1'-0"

DESIGN BY Gang Hong	CHECKED Thomas Tong	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE No. 54M	SAN BERNARDINO MAINTENANCE STATION	SHEET ST1-4
				POST MILE L5726		
DETAILS BY Aleksey Serin	CHECKED Gang Hong	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	UNIT: 3581 CONTRACT No.: 000001 PROJECT NUMBER & PHASE: 08140000731	DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY)
QUANTITIES BY	CHECKED			11-12-14	12-23-14	05-21-15

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	L5726		42	72
 REGISTERED CIVIL ENGINEER			06-25-15 DATE		
02-16-16 PLANS APPROVAL DATE					
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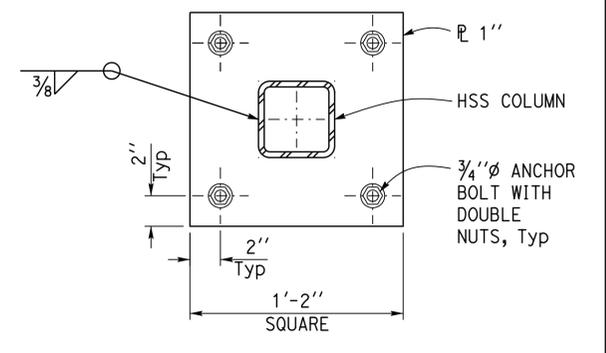


1 COLUMN FOOTING
1/2" = 1'-0"

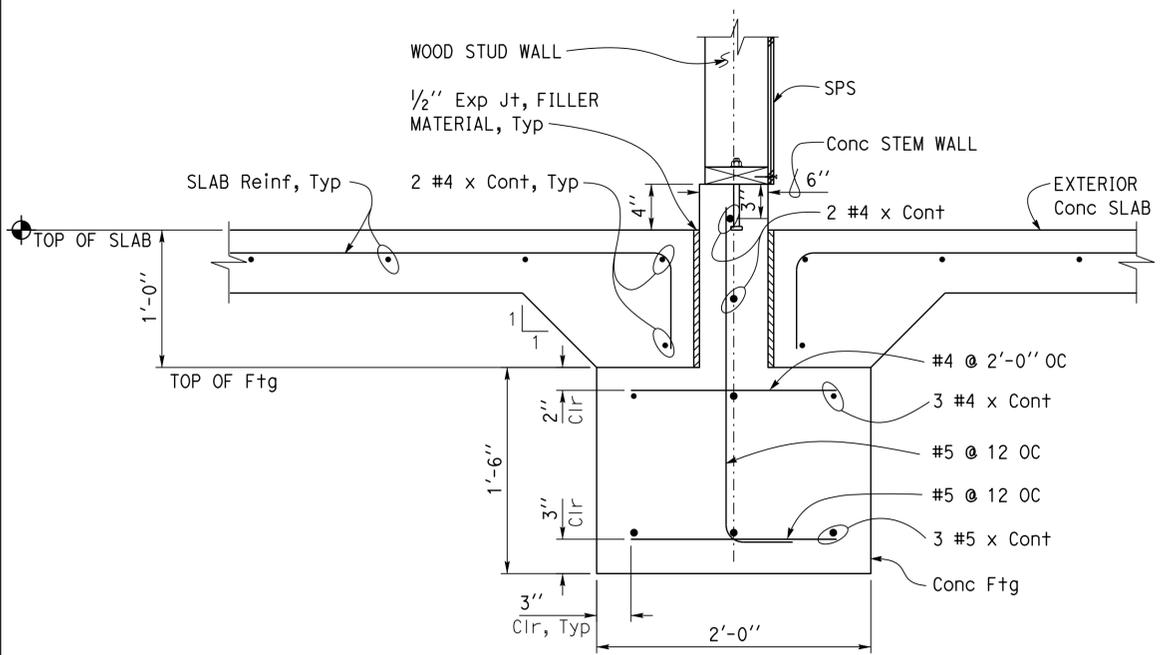


NOTE:
Provide additional reinforcement, shown at all slab re-entrant corners and discontinuous slab joints, typical.

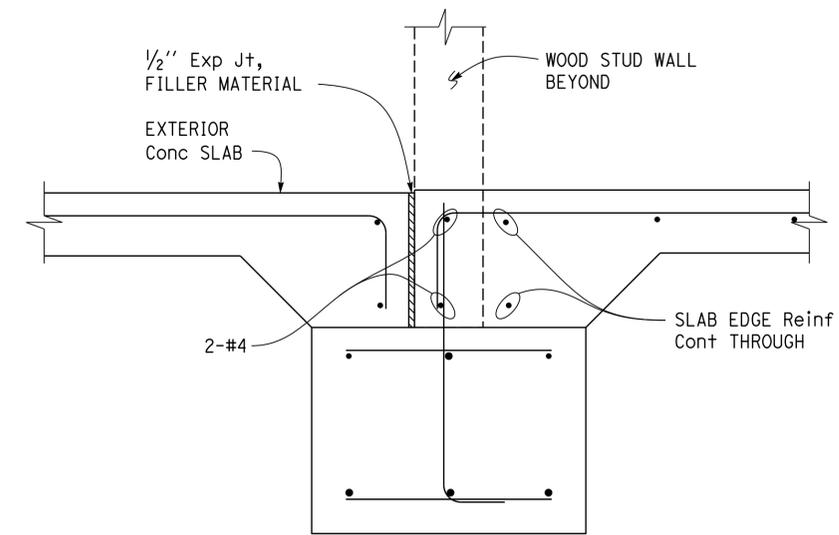
3 BASE PLATE BLOCKOUT
1" = 1'-0"



5 BASE PLATE
3" = 1'-0"



2 WALL FOOTING
1/2" = 1'-0"

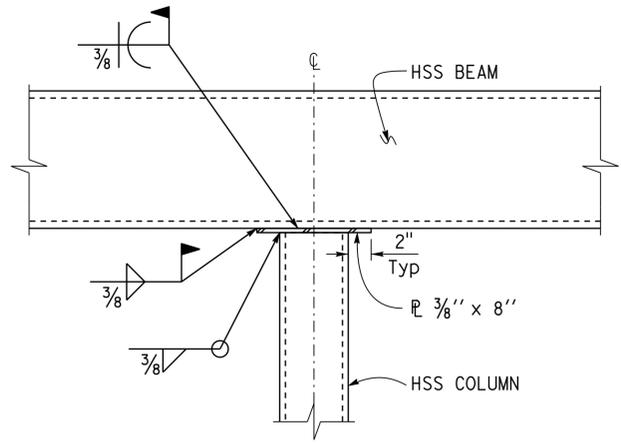


NOTE:
For information not shown see (2)

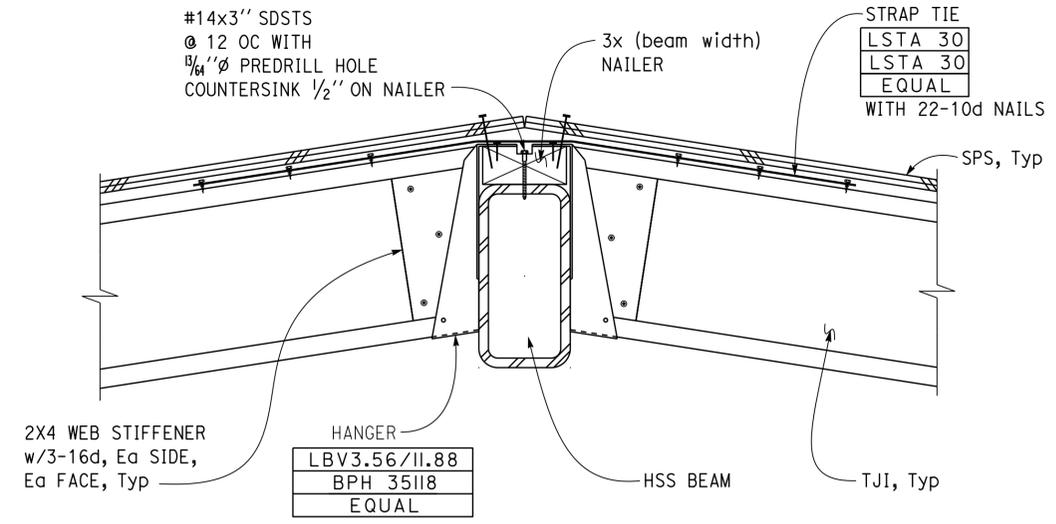
4 SLAB AT OPENING
1/2" = 1'-0"

DESIGN	BY	Gang Hong	CHECKED	Thomas Tong	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	BRIDGE No. 54M POST MILE L5726	SAN BERNARDINO MAINTENANCE STATION OFFICE BUILDING	FOUNDATION DETAILS	SHEET ST1-5	
	DETAILS	BY	Aleksey Serin	CHECKED						Gang Hong
	QUANTITIES	BY		CHECKED						
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS: 0 1 2 3					UNIT: 3581 CONTRACT No.: 000001 PROJECT NUMBER & PHASE: 08140000731	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY) 10-28-14 12-24-14 01-28-15 02-04-15	SHEET OF		

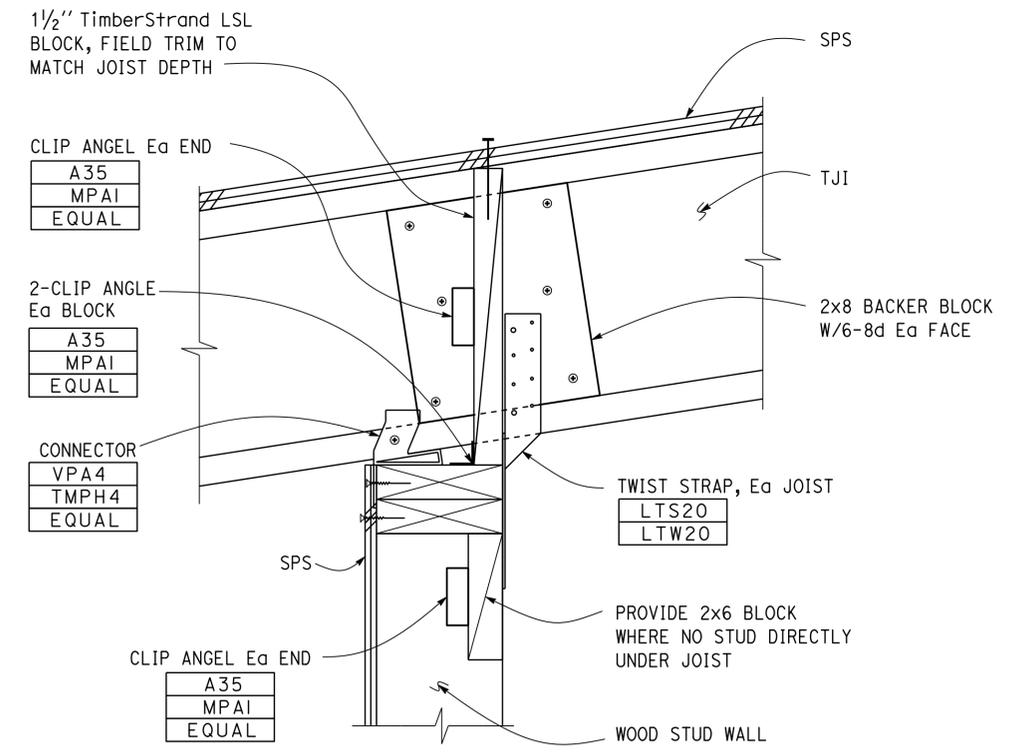
Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Sbd	L5726		43	72
 REGISTERED CIVIL ENGINEER			06-25-15 DATE		
02-16-16 PLANS APPROVAL DATE					
<i>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.</i>					



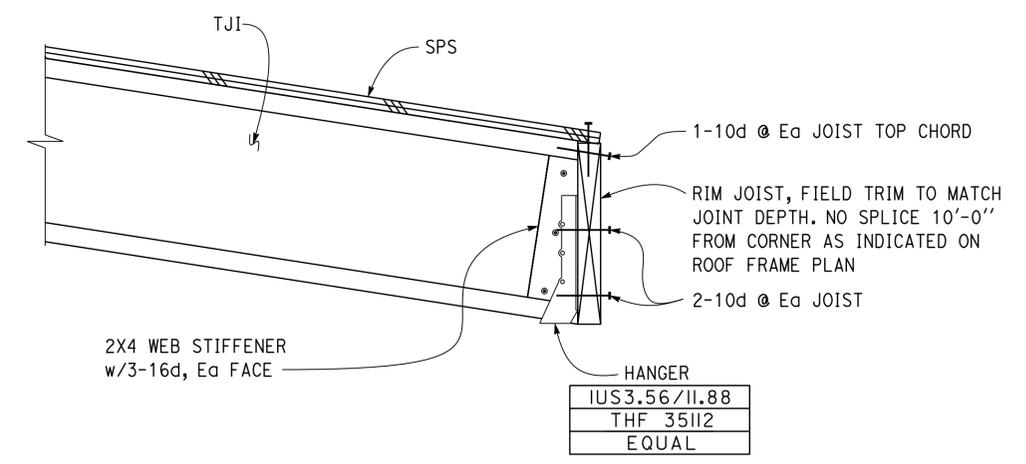
1 BEAM/COLUMN CONNECTION
1/2" = 1'-0"



3 TJI TO BEAM CONNECTION
2" = 1'-0"

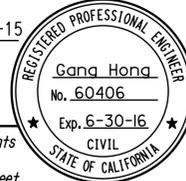


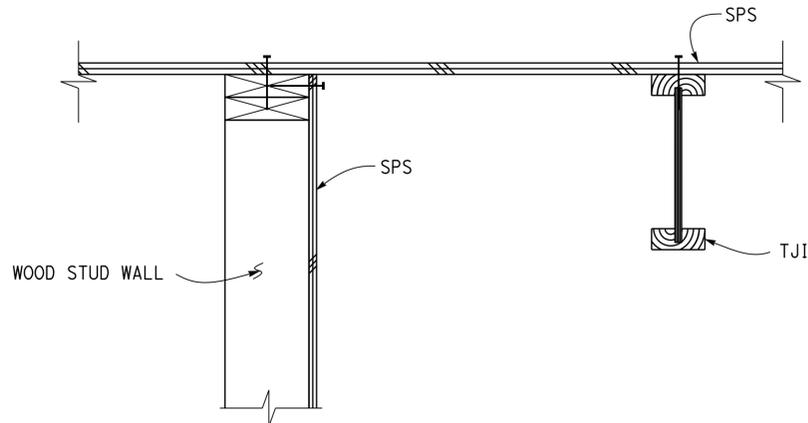
2 TJI AT WALL CONNECTION
3" = 1'-0"



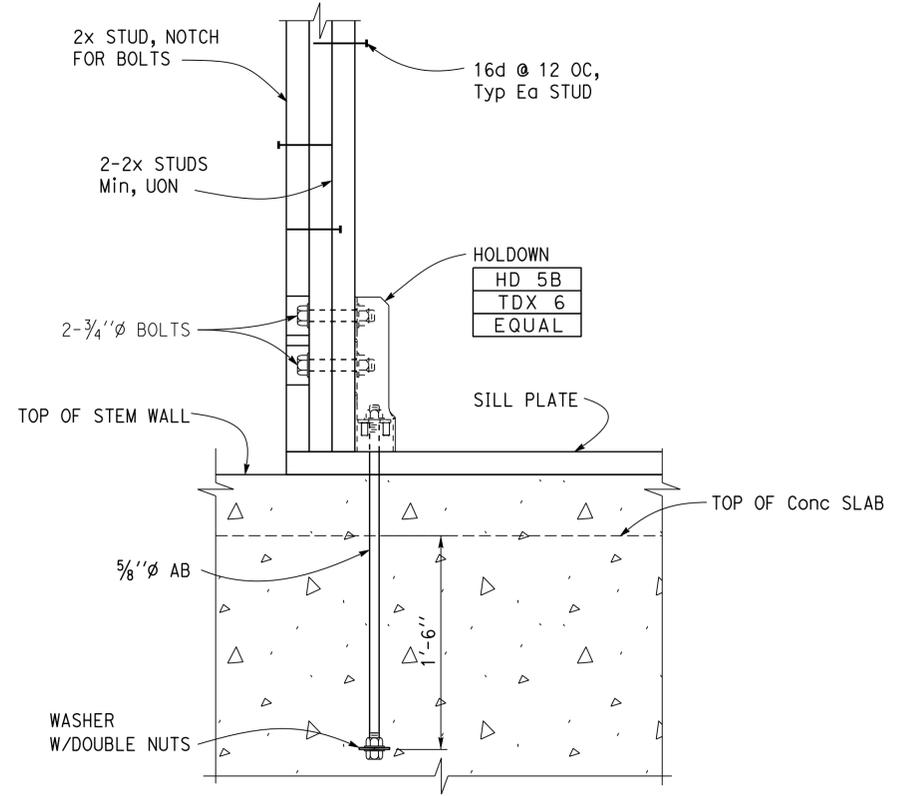
4 TJI TO JOIST CONNECTION
2" = 1'-0"

DESIGN	BY	Gang Hong	CHECKED	Thomas Tong	BRIDGE No.	54M	SAN BERNARDINO MAINTENANCE STATION	SHEET	ST1-6
	DETAILS	BY	Aleksey Serin	CHECKED					
QUANTITIES	BY		CHECKED		POST MILE	L5726	OFFICE BUILDING	ROOF FRAME DETAILS	
STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION					DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN		REVISION DATES (PRELIMINARY STAGE ONLY) 10-28-14 12-24-14 01-28-15 01-30-15 02-02-15 07-02-15		
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3					UNIT: 3581 CONTRACT No.: 000001 PROJECT NUMBER & PHASE: 08140000731		DISREGARD PRINTS BEARING EARLIER REVISION DATES		
TAEWW Imperial - CCSC Rev. 02/13 P:\dist_08\0814000073_san_bernardino_ms_office\expdite\QA_Reviewed\st1_06.dgn									

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	L5726		44	72
 REGISTERED CIVIL ENGINEER			06-25-15 DATE		
02-16-16 PLANS APPROVAL DATE					
<i>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.</i>					

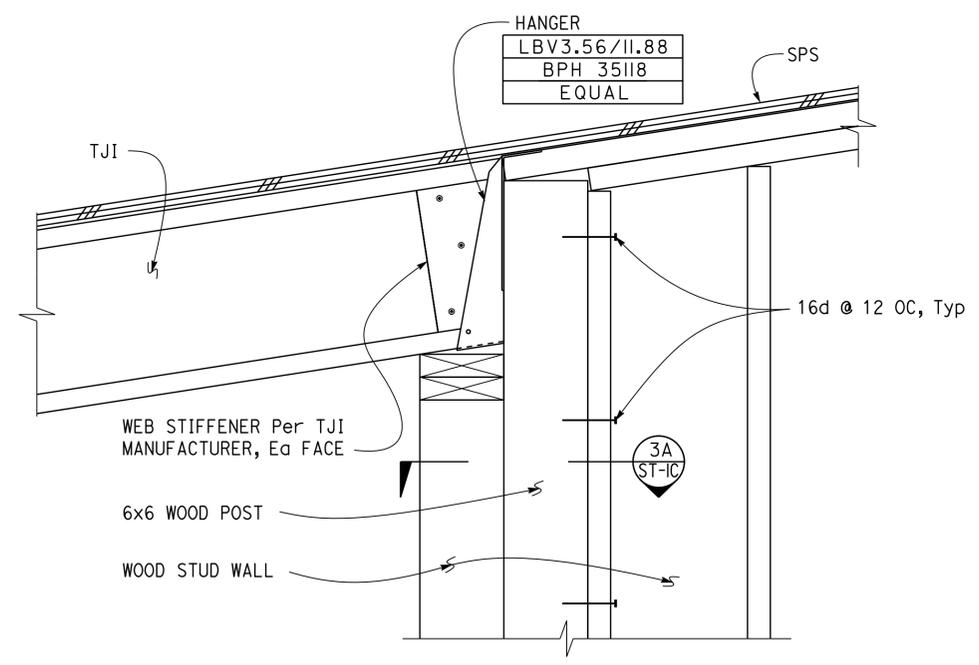


1 WALL/TJI TO SPS
2" = 1'-0"

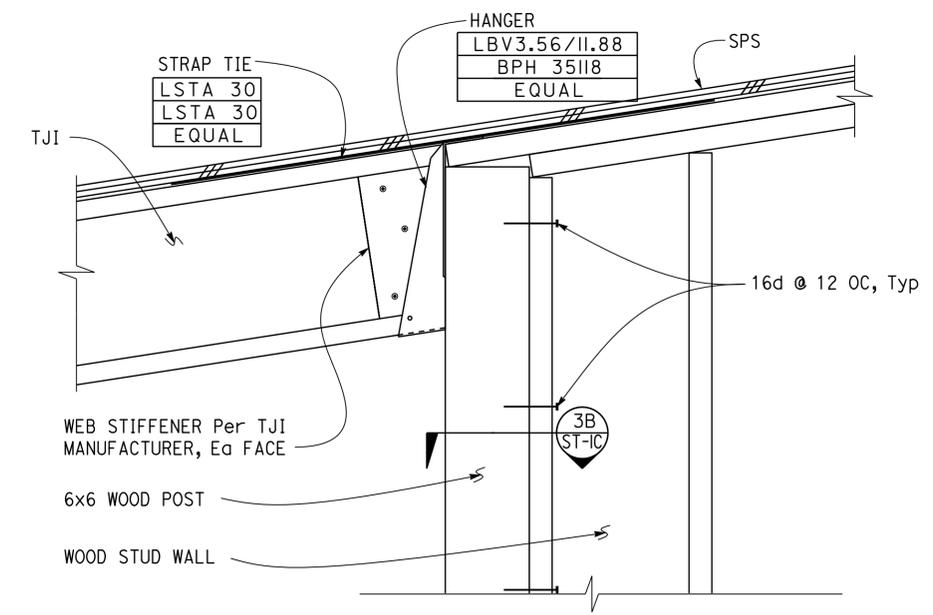


NOTE:
Concrete Contractor to coordinate final bolt location with Carpentry Contractor.

3 HOLDDOWN DETAIL
2" = 1'-0"



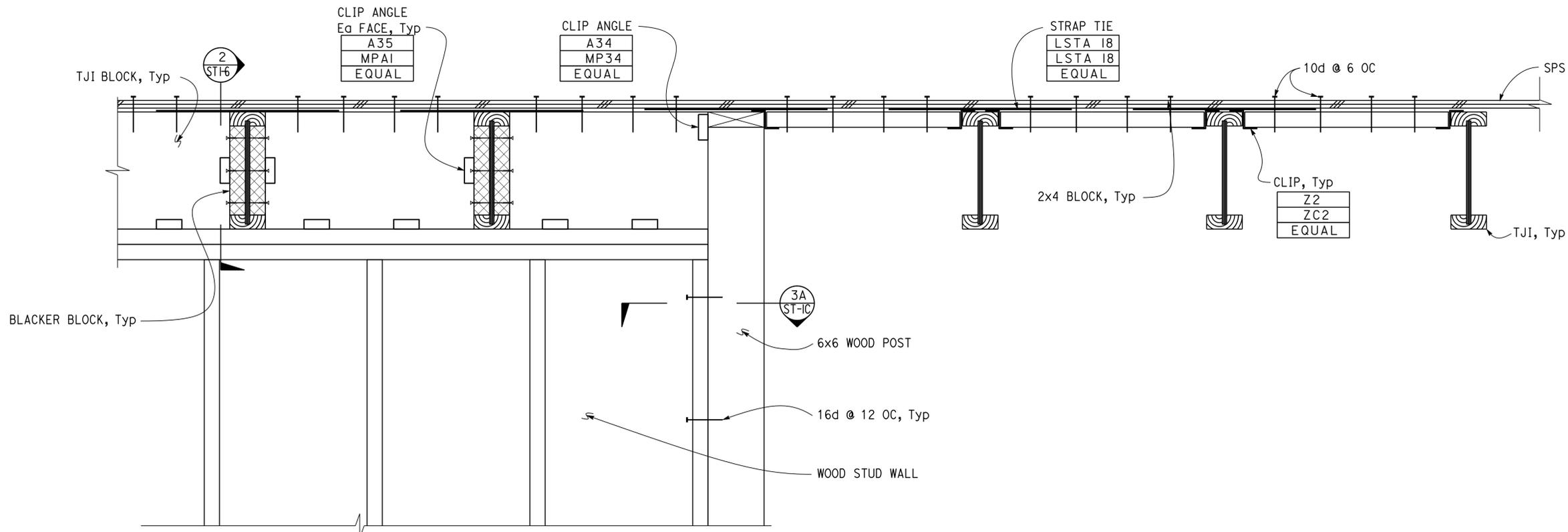
2 TJI AT WALL
2" = 1'-0"



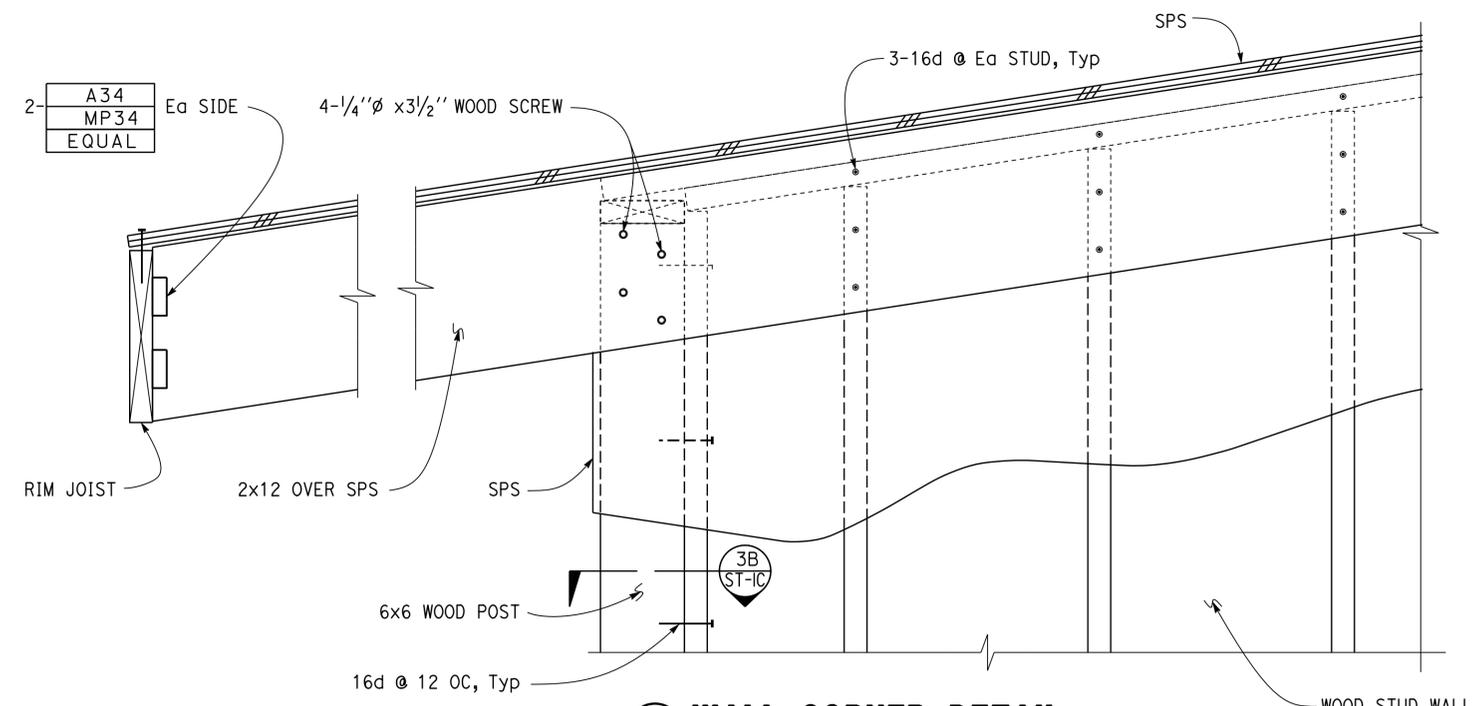
4 TJI AT WALL
2" = 1'-0"

DESIGN BY Gang Hong	CHECKED Thomas Tong	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE No. 54M	SAN BERNARDINO MAINTENANCE STATION OFFICE BUILDING	SHEET ST1-7
				POST MILE L5726		
DETAILS BY Aleksey Serin	CHECKED Gang Hong	UNIT: 3581 CONTRACT No.: 000001 PROJECT NUMBER & PHASE: 08140000731		DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY)
QUANTITIES BY	CHECKED	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		10-28-14 12-24-14 01-28-15 01-30-15 02-15-15 03-04-15		SHEET OF

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBD	L5726		45	72
 REGISTERED CIVIL ENGINEER			06-25-15 DATE		
02-16-16 PLANS APPROVAL DATE					
<i>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.</i>					



1 WALL SECTION DETAIL
2" = 1'-0"



2 WALL CORNER DETAIL
2" = 1'-0"

DESIGN	BY	Gang Hong	CHECKED	Thomas Tong
DETAILS	BY	Aleksey Serin	CHECKED	Gang Hong
QUANTITIES	BY		CHECKED	

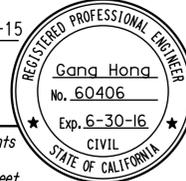
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

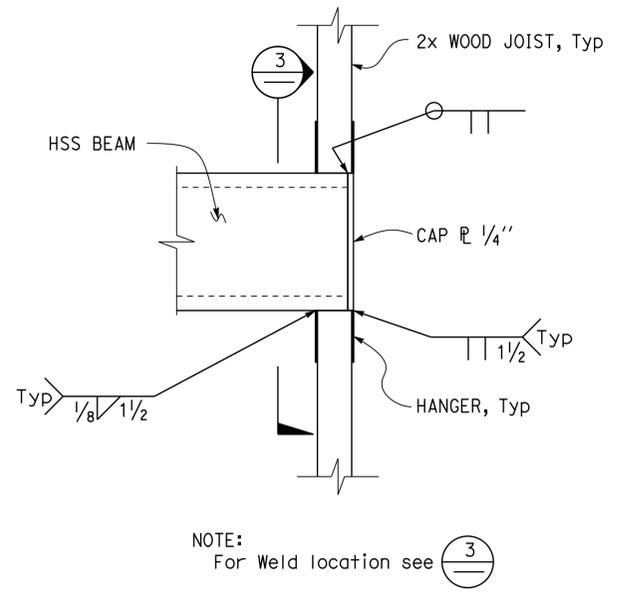
DIVISION OF ENGINEERING SERVICES
ARCHITECTURAL AND STRUCTURAL DESIGN

BRIDGE No.	54M
POST MILE	L5726

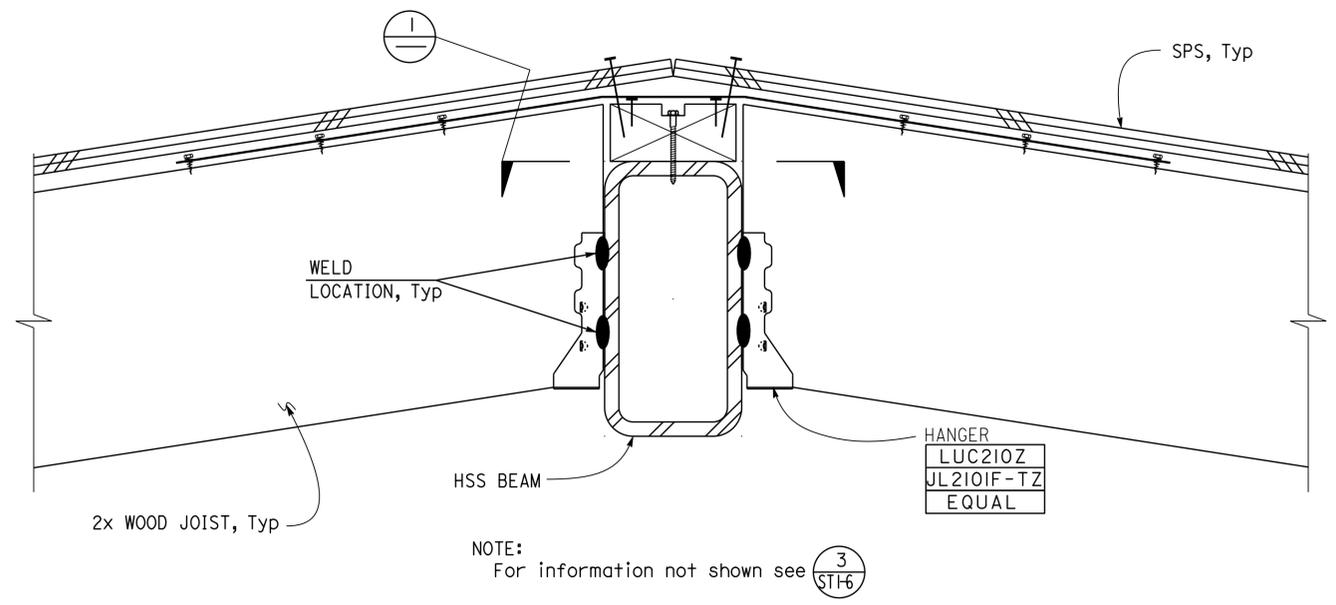
SAN BERNARDINO MAINTENANCE STATION
OFFICE BUILDING
ROOF BLOCKING DETAILS

SHEET **ST1-8** OF

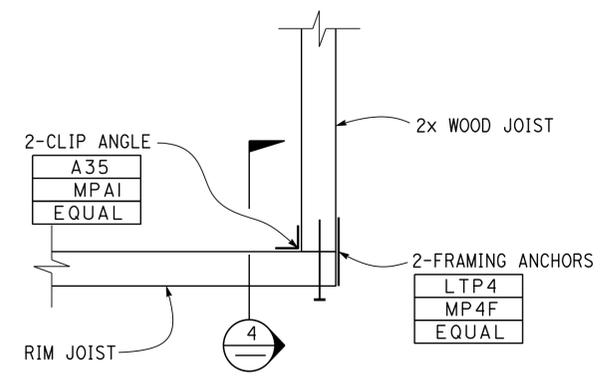
Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	L5726		46	72
 REGISTERED CIVIL ENGINEER			06-25-15 DATE		
02-16-16 PLANS APPROVAL DATE					
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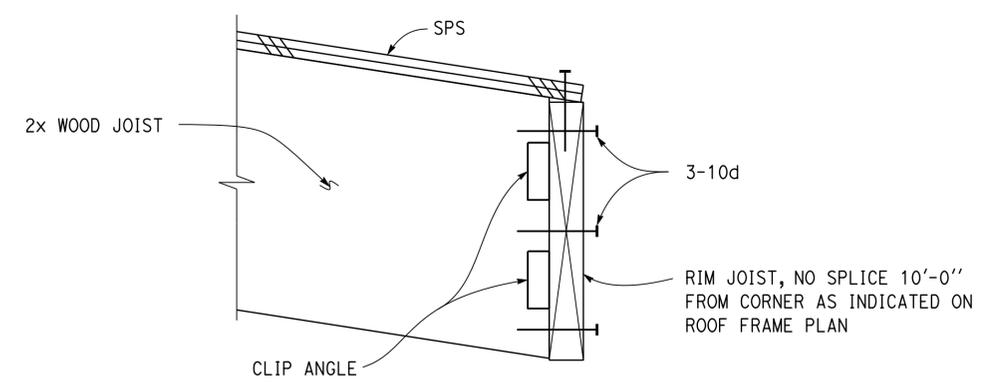
1 CONNECTION PLAN
3" = 1'-0"



3 CONNECTION SECTION
3" = 1'-0"



2 CONNECTION PLAN
3" = 1'-0"



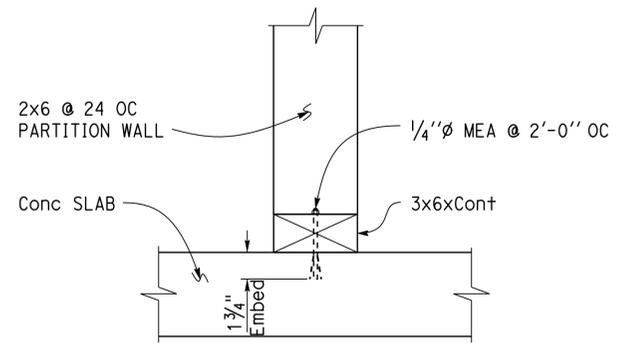
4 CONNECTION SECTION
3" = 1'-0"

DESIGN BY Gang Hong	CHECKED Thomas Tong	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE No. 54M	SAN BERNARDINO MAINTENANCE STATION		SHEET ST1-9
				POST MILE L5726	OFFICE BUILDING	RIM JOIST CONNECTION DETAILS	
DETAILS BY Aleksey Serin	CHECKED Gang Hong	UNIT: 3581 CONTRACT No.: 000001 PROJECT NUMBER & PHASE: 08140000731		DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY)	
QUANTITIES BY	CHECKED	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		0 1 2 3		SHEET OF	

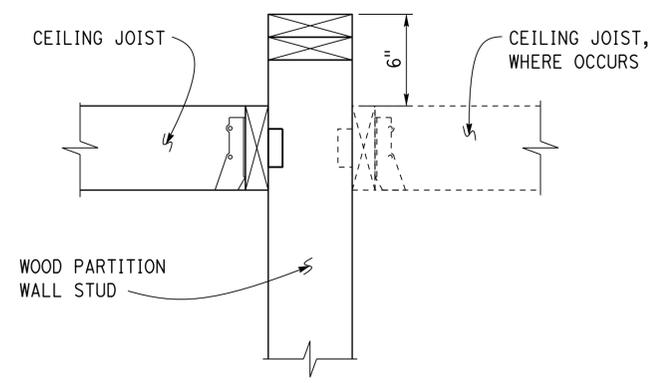
Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	L5726		47	72

<i>Gang Hong</i>	06-25-15	
REGISTERED CIVIL ENGINEER	DATE	
02-16-16	PLANS APPROVAL DATE	

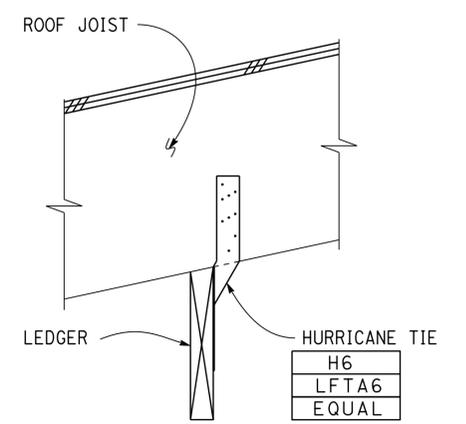
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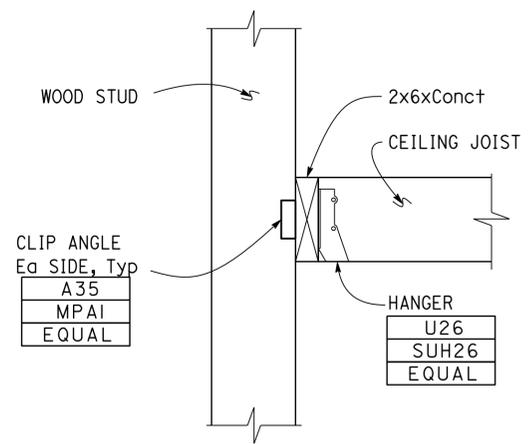
1 PARTITION WALL TO SLAB CONNECTION
2" = 1'-0"



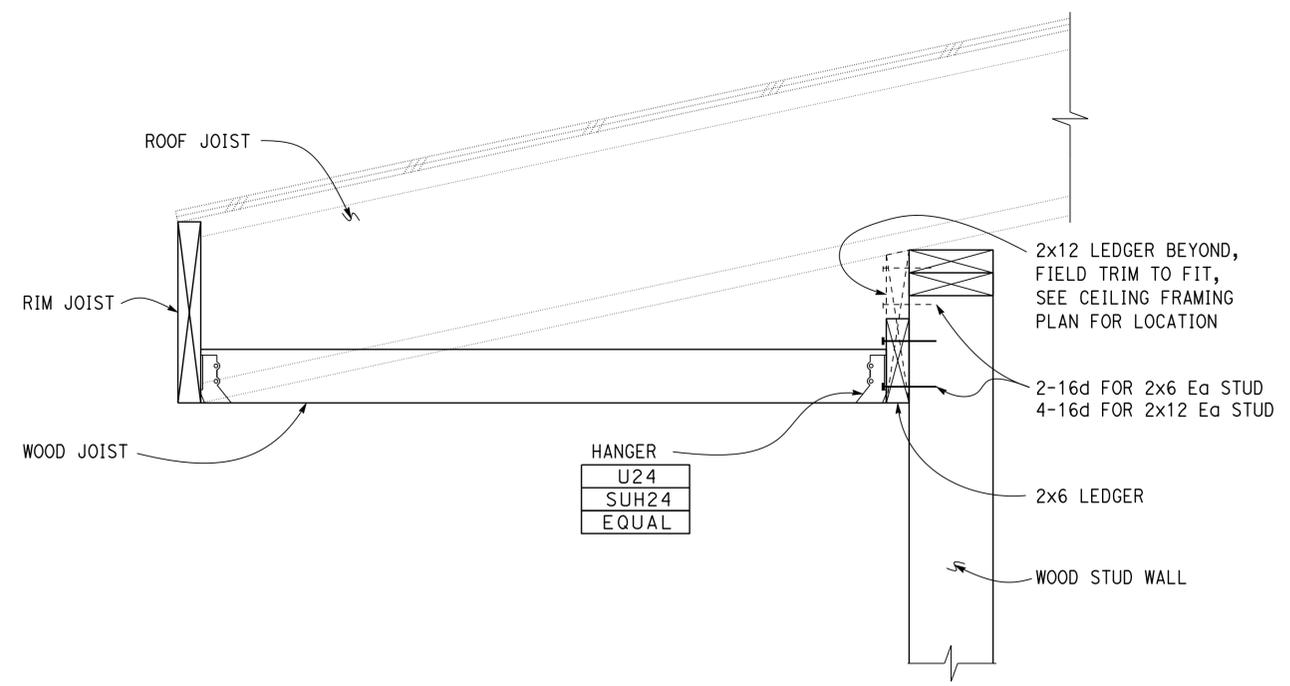
3 CEILING JOIST TO WALL CONNECTION
2" = 1'-0"



5 LEDGER TO ROOF JOIST
2" = 1'-0"



2 CEILING JOIST TO WALL CONNECTION
2" = 1'-0"



4 SOFFIT DETAIL
2" = 1'-0"

DESIGN	BY	Gang Hong	CHECKED	Thomas Tong	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE No.	54M	SAN BERNARDINO MAINTENANCE STATION OFFICE BUILDING	SHEET ST1-10		
	DETAILS	BY	Aleksey Serin	CHECKED			Gang Hong	POST MILE			L5726	PARTITION WALL AND CEILING JOIST DETAILS
	QUANTITIES	BY		CHECKED				DISREGARD PRINTS BEARING EARLIER REVISION DATES			REVISION DATES (PRELIMINARY STAGE ONLY) 05-28-15 06-23-15 07-02-15	SHEET OF

UNIT: 3581 CONTRACT No.: 000001 PROJECT NUMBER & PHASE: 08140000731

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS: 0 1 2 3

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Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	L5726		48	72

Shahjahan Ali 09-11-15
 REGISTERED MECHANICAL ENGINEER DATE
 02-16-16
 PLANS APPROVAL DATE
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OFFICE OF THE STATE FIRE MARSHAL
APPROVED FIRE AND PANIC ONLY
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Reviewed by: *Brad Goodrich*
 BRAD GOODRICH
 Approval date: 6/30/15
 CSFM File No. 01-36-11-0054

PLUMBING

- — — — COLD WATER
- A — COMPRESSED AIR
- F — FIRE SERVICE WATER LINE
- G — GAS
- D — EQUIPMENT DRAIN
- RD — ROOF DRAIN
- OD — OVERFLOW DRAIN
- RWL — RAIN WATER LEADER
- — — — HOT WATER
- R — RELIEF VALVE DISCHARGE PIPE
- S — SEWER LINE
- — — — SANITARY SEWER (ABOVE GRADE)
- — — — SEWER LINE
- — — — SANITARY SEWER VENT

PIPE FITTINGS AND VALVES

- — — — CAP, THREADED
- — — — ELBOW, TURNED DOWN
- — — — ELBOW, TURNED UP
- — — — REDUCER, CONCENTRIC
- — — — PRESSURE GAUGE (WITH GAGE COCK AND SNUBBER)
- — — — STRAINER
- — — — UNION
- — — — UNION, INSULATING
- — — — VALVE, BALL
- — — — VALVE, CHECK
- — — — VALVE, GAS
- — — — VALVE, GATE
- — — — VALVE, SAFETY RELIEF
- — — — VALVE, PRESSURE REDUCING
- — — — VALVE, PRESSURE/TEMPERATURE
- — — — WATER HAMMER ARRESTOR

MECHANICAL ABBREVIATIONS

- | | | | | | |
|-------|---|------|---|-----|------------------------------|
| A/C | AIR CONDITIONING UNIT | Ga | GAUGE | R | RADIUS |
| ABS | ACRYLONTIRLE BUTADIENE STYRENE | GaI | GALVANIZED | RH | RADIANT HEATER |
| AC | ASPHALT CONCRETE | GH | GROUND HYDRANT | Reg | REGISTER |
| AD | AIR DROP | GV | GLOBE VALVE | RCP | REINFORCED CONCRETE PIPE |
| AP | ALTERNATIVE PIPE | GPM | GALLONS PER MINUTE | RV | RELIEF VALVE |
| ATF | AUTOMATIC TRANSMISSION FLUID | GSP | GALVANIZED STEEL PIPE | Req | REQUIRED |
| | | GV | GATE VALVE | RA | RETURN AIR |
| BFP | BACKFLOW PREVENTER | GWH | GAS WATER HEATER | RD | ROOF DRAIN |
| Bldg | BUILDING | Gyp | GYPSUM | SDS | SANITARY DUMP STATION |
| BTU | BRITISH THERMAL UNIT | | | SS | SANITARY SEWER |
| BTUH | BRITISH THERMAL UNIT PER HOUR | H | HEIGHT | Sch | SCHEDULE |
| BV | BALANCING VALVE | HB | HYDRANT BOX | S/S | SERVICE SINK |
| | | H/C | HOT WATER, HIGH PRESSURE CLEANER | SHR | SHOWER |
| C | CONDUIT | HF | HOSE FAUCET | S+d | STANDARD |
| Cap | CAPACITY | HVAC | HEATING, VENTILATING AND AIR CONDITIONING | SP | STATIC PRESSURE |
| CHLF | COMBINATION HEAT LAMP, LIGHT AND FAN UNIT | HW | HOT WATER | Sta | STATION |
| CI | CAST-IRON | HZ | HERTZ | SA | SUPPLY AIR |
| CO | CLEANOUT | | | SF | SUPPLY FAN |
| COTF | CLEANOUT THROUGH FLOOR | ID | INSIDE DIAMETER | TCV | TEMPERATURE CONTROL VALVE |
| COTG | CLEANOUT THROUGH GRADE | IE | INVERT ELEVATION | TP | TRAP PRIMER |
| CV | CHECK VALVE | In | INCH | ToT | TOTAL |
| CW | COLD WATER | IPS | INTERNATIONAL PIPE STANDARD | TS | TIME SWITCH |
| CFM | CUBIC FEET PER MINUTE | KS | KITCHEN SINK | Typ | TYPICAL |
| | | Kw | KILOWATT | UH | UNIT HEATER |
| D | DEPTH | LAV | LAVATORY | UR | URINAL |
| Dia | DIAMETER | LPG | LIQUIFIED PETROLEUM GAS | V | VENT |
| DWV | DRAIN/WASTE/VENT | L/s | LIITERS PER SECOND | VAC | VOLTAGE, ALTERNATING CURRENT |
| DB | DRY BULB | Max | MAXIMUM | VR | VENT RISER |
| DF | DRINKING FOUNTAIN | MH | MANHOLE | VTR | VENT THRU ROOF |
| DH | DUCT HEATER | Min | MINIMUM | W | WIDTH |
| | | MS | MOP SINK | W/ | WITH |
| (E) | EXISTING | (N) | NEW | W/O | WITHOUT |
| EA | EXHAUST AIR | NIC | NOT IN CONTRACT | WB | WET BULB |
| EEW | EMERGENCY EYEWASH AND SHOWER | No | NUMBER | WC | WATER CLOSET |
| EF | EXHAUST FAN | NPT | NATIONAL PIPE THREAD | WC | WATER COLUMN |
| EI | ELEVATION | NST | NATIONAL STANDARD THREAD | WH | WATER HEATER |
| Elect | ELECTRICAL | NPS | NOMINAL PIPE SIZE | WHA | WATER HAMMER ARRESTOR |
| ESP | EXTERNAL STATIC PRESSURE | OA | OUTSIDE AIR | WLS | WATER LEVEL SWITCH |
| EWC | ELECTRIC WATER COOLER | OC | ON CENTER | WP | WEATHERPROOF |
| EWH | ELECTRIC WATER HEATER | OD | OUTSIDE DIAMETER | WSI | WASH SINK |
| | | OG | ORIGINAL GROUND | WSP | WELDED STEEL PIPE |
| °F | FARENHEIT | Ph | PHASE | | |
| FC | FLEXIBLE CONNECTION | POC | POINT OF CONNECTION | | |
| FD | FLOOR DRAIN | PVC | POLYVINYL CHLORIDE | | |
| FDC | FIRE DEPARTMENT CONNECTION | PCC | PORTLAND CEMENT CONCRETE | | |
| FE | FIRE EXTINGUISHER | PSI | POUNDS PER SQUARE INCH | | |
| FG | FINISH GRADE | PRV | PRESSURE REDUCING VALVE | | |
| FL | FLOW LINE | | | | |
| FH | FIRE HYDRANT | | | | |
| FS | FLOW SWITCH | | | | |
| FTR | FLUE THRU ROOF | | | | |

HEATING, VENTILATING AND AIR CONDITIONING

- — — — BALANCE DAMPER
- — — — FLEXIBLE DUCT
- EA — EXHAUST AIR
- RA — RETURN AIR
- SA — SUPPLY AIR
- ☑ SIZE EXHAUST REGISTER
- □ or □ SIZE RETURN REGISTER, SEE NOTE
- ← □ or □ SIZE SUPPLY DIFFUCER, SEE NOTE
- ⊙ T THERMOSTAT
- ⊙ TS TIME SWITCH
- ⊙ EF EXHAUST FAN
- ⊙ FE FIRE EXTINGUISHER
- ⊙ CHLF COMBINATION HEAT LAMP, LIGHT AND FAN UNIT

MISCELLANEOUS

- ∠ ANGLE
- ⊕ CENTERLINE
- ∅ DIAMETER
- ⊕ SECTION/ELEVATION BY LETTERS SHEET NUMBERS
- ⊕ DETAILS BY NUMBER SHEET NUMBERS

NOTE:
 CEILING REGISTERS AND DIFFUSERS ARE IDENTIFIED BY DUCT CONNECTION NECK SIZE

THIS DRAWING ACCURATE FOR MECHANICAL WORK ONLY

DESIGN BY: Shahjahan Ali	CHECKED: Seve Gutierrez	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No. 54M	SAN BERNARDINO MS OFFICE BUILDING LEGENDS AND ABBREVIATIONS	SHEET M0-00
DETAILS BY: Angela Chen	CHECKED: Shahjahan Ali		POST MILE L5726			
QUANTITIES BY: Shahjahan Ali	CHECKED: Seve Gutierrez					

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS: 0 1 2 3
 UNIT: 3615 CONTRACT No.: 08-0K841 PROJECT NUMBER & PHASE: 08140000731
 DISREGARD PRINTS BEARING EARLIER REVISION DATES
 REVISION DATES (PRELIMINARY STAGE ONLY): 09/28/14, 10/27/14, 11/11/14, 12/16/14, 01/27/15, 02/20/15, 03/11/15, 02/16/16

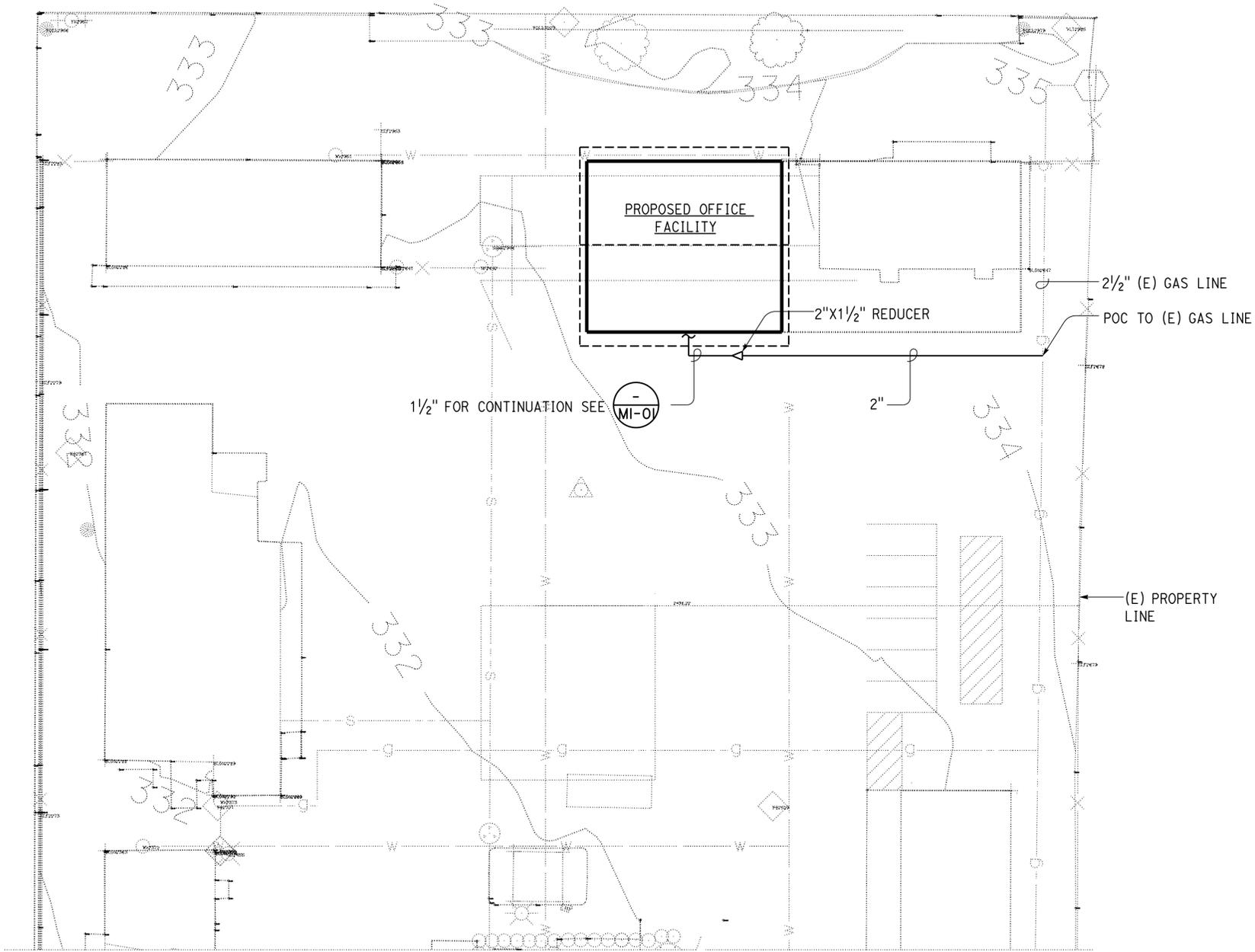
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Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	L5726		49	72

Shahjahan Ali 09-11-15
 REGISTERED MECHANICAL ENGINEER DATE
 02-16-16
 PLANS APPROVAL DATE
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OFFICE OF THE STATE FIRE MARSHAL
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 Reviewed by: *[Signature]*
 BRAD GOODRICH
 Approval date: 6/30/15
 CSFM File No. 01-36-11-0054



NOTES:

1. Inspect all controlling field dimensions and conditions and verify existing structures and underground utility lines before ordering and or fabricating any materials, trenching, and or construction work.
2. Verify exact location and depth of point of connection before starting trenching. Should it be necessary to re-route the pipes due to conditions found on the site or if indicated point of connection cannot be made to the lines as found, notify the Engineer before doing any work which may be affected.
3. Surfaces disturbed during the installation of the new lines must be replaced to match the adjacent surrounding surfaces.
4. System layouts are generally diagrammatic and location of equipment is approximate. Exact routing of pipes, ducts, etc., and location of equipment is to be governed by structural conditions and obstructions. Equipment requiring maintenance and inspection is to be readily accessible.

SITE PLAN

1" = 20'-0"



THIS DRAWING ACCURATE FOR MECHANICAL WORK ONLY

<i>Jesumder S. C. M.</i> <i>[Signature]</i>	DESIGN	BY Shahjahan Ali	CHECKED Seve Gutierrez
	DETAILS	BY Angela Chen	CHECKED Shahjahan Ali
	QUANTITIES	BY Shahjahan Ali	CHECKED Seve Gutierrez

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN

BRIDGE No. 54M	SAN BERNARDINO MS OFFICE BUILDING MODIFIED SITE PLAN	SHEET M0-01 OF
POST MILE L5726		

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ORIGINAL SCALE IN INCHES FOR REDUCED PLANS



UNIT: 3615 CONTRACT No.: 08-0K841 PROJECT NUMBER & PHASE: 08140000731

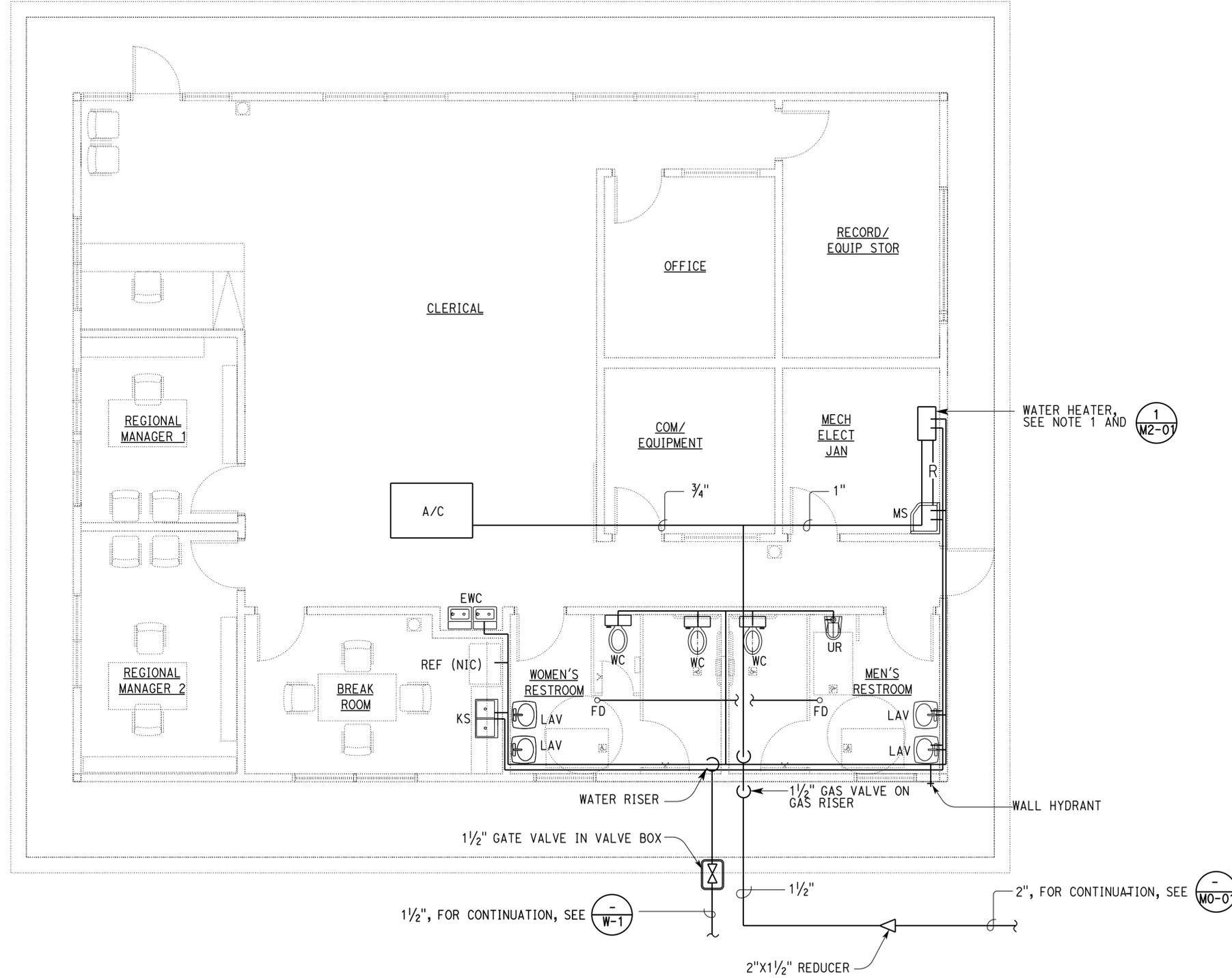
DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET	OF
	09/28/14 10/02/14 11/11/14 12/08/14 01/22/15 02/20/15 09/11/15 02/16/16		

17-FEB-2016 09:12

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	L5726		50	72

Shahjahan Ali 09-11-15
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 02-16-16
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 Reviewed by: *Brad Goodrich*
 BRAD GOODRICH
 Approval date: 6/30/15
 CSFM File No. 01-36-11-0054



- NOTE:
- Water heater must be tankless type 180,000 BTUH maximum input heating, natural gas operation, heat-on-demand capacity, forced combustion / direct vent and combustion air intake thru roof, 115V-1Ph.

WATER AND GAS PLAN

1/4" = 1'-0"

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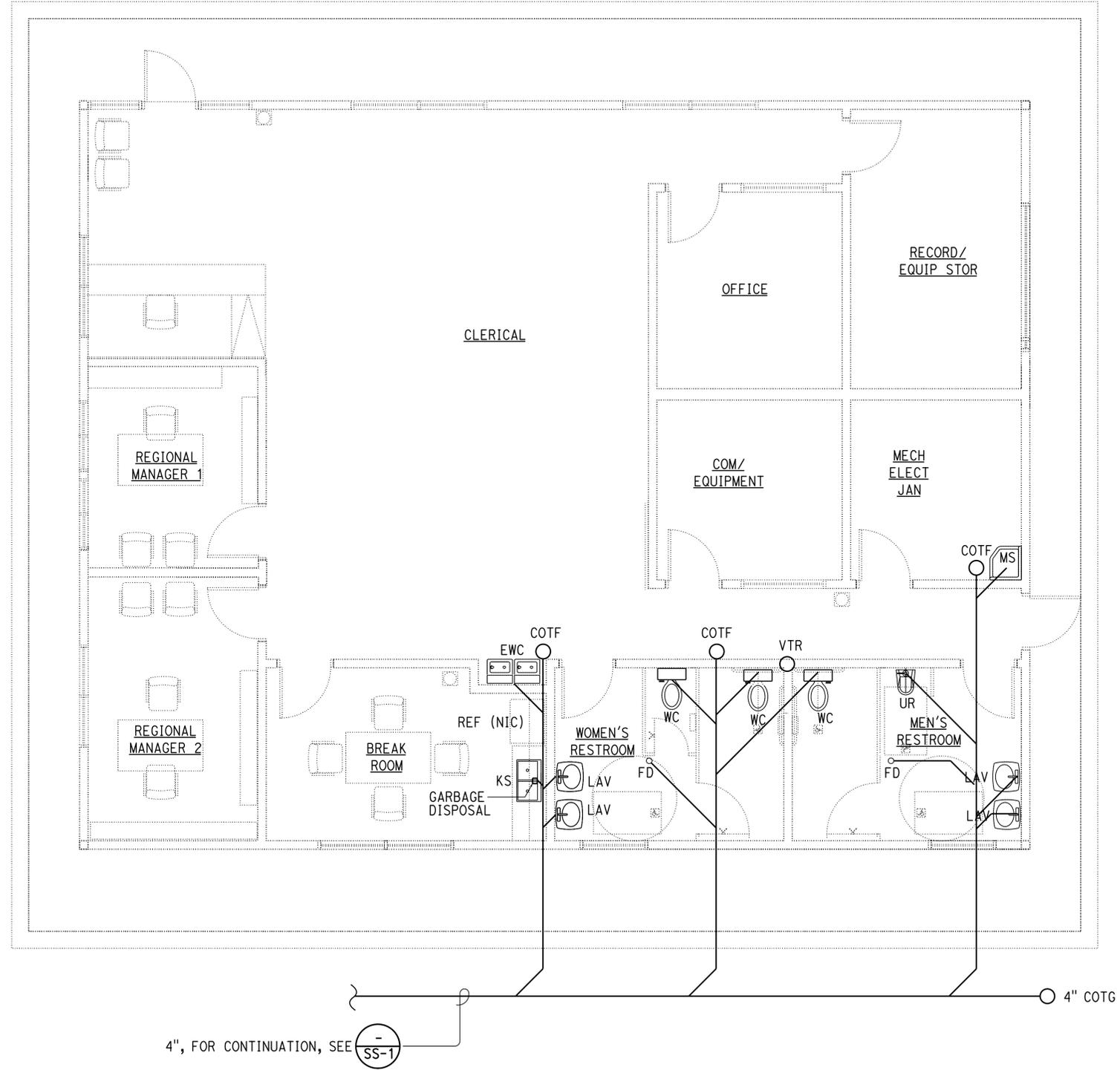
DESIGN BY: Shahjahan Ali CHECKED: Seve Gutierrez DETAILS BY: Angela Chen CHECKED: Shahjahan Ali QUANTITIES BY: Shahjahan Ali CHECKED: Seve Gutierrez	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No. 54M	SAN BERNARDINO MS OFFICE BUILDING PLUMBING PLAN 1	SHEET M1-01 OF
			POST MILE L5726		
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3		UNIT: 3615 CONTRACT No.: 08-0K841 PROJECT NUMBER & PHASE: 08140000731	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY) 09/28/14 10/27/14 11/11/14 12/16/14 01/27/15 02/26/15 09/14/15 02/16/16	SHEET OF

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	L5726		51	72

Shahjahan Ali 09-11-15
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 CSFM File No. 01-36-11-0054



SEWER PLAN

1/4" = 1'-0"

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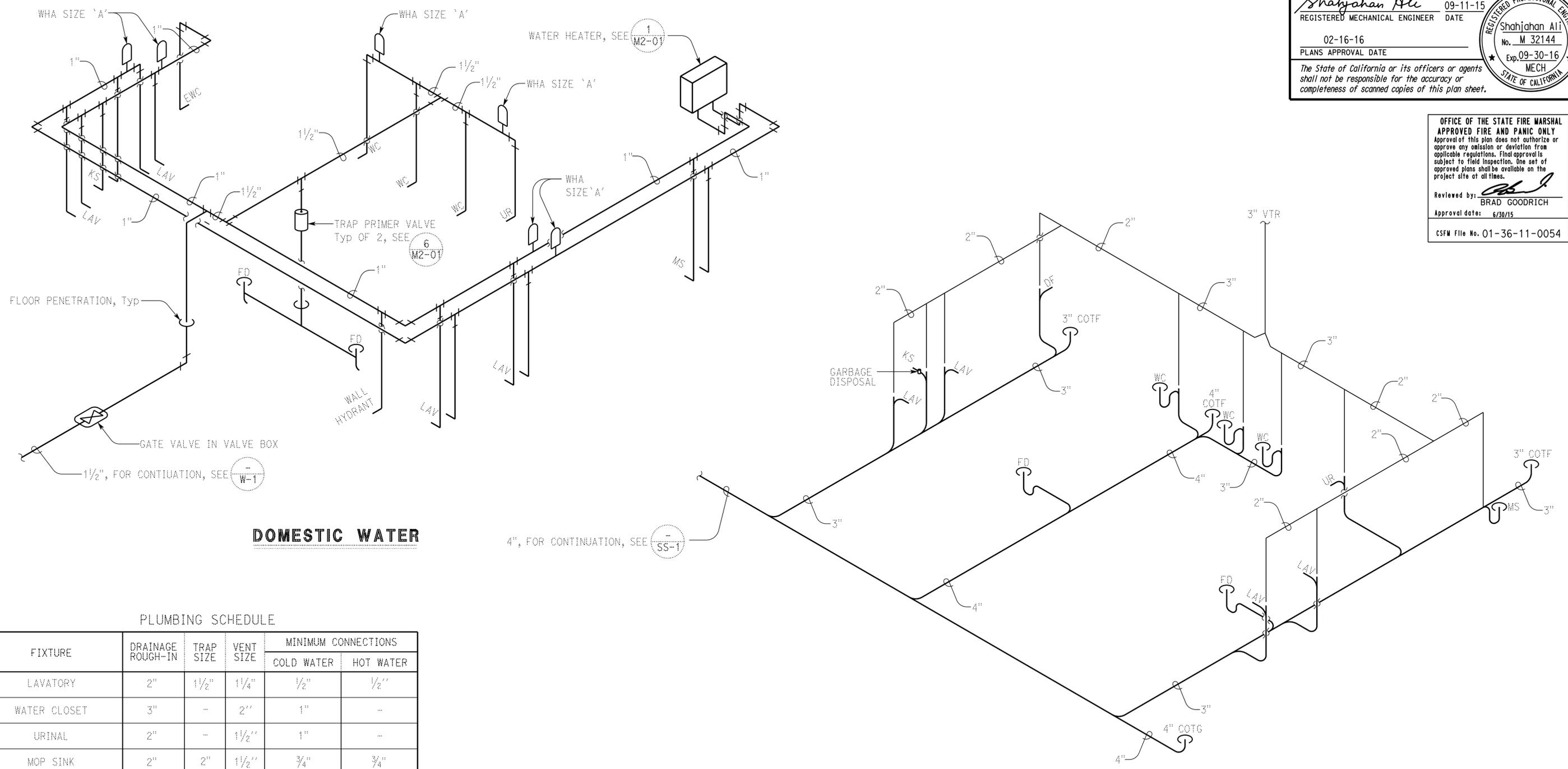
DESIGN BY: Shahjahan Ali CHECKED: Seve Gutierrez DETAILS BY: Angela Chen CHECKED: Shahjahan Ali QUANTITIES BY: Shahjahan Ali CHECKED: Seve Gutierrez	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No. 54M	SAN BERNARDINO MS OFFICE BUILDING PLUMBING PLAN 2	SHEET M1-02
			POST MILE L5726		
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3		UNIT: 3615 CONTRACT No.: 08-0K841 PROJECT NUMBER & PHASE: 08140000731	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY) 09/28/14 10/27/14 11/11/14 12/22/14 01/22/15 02/20/15 09/11/15 02/16/16	SHEET OF

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBD	L5726		52	72

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DOMESTIC WATER

SANITARY SEWER

PLUMBING SCHEDULE

FIXTURE	DRAINAGE ROUGH-IN	TRAP SIZE	VENT SIZE	MINIMUM CONNECTIONS	
				COLD WATER	HOT WATER
LAVATORY	2"	1 1/2"	1/4"	1/2"	1/2"
WATER CLOSET	3"	-	2"	1"	-
URINAL	2"	-	1 1/2"	1"	-
MOP SINK	2"	2"	1 1/2"	3/4"	3/4"
ELECTRIC WATER COOLER	1 1/2"	1 1/4"	1/4"	1/2"	-
KITCHEN SINK	2"	1 1/2"	1 1/2"	1/2"	1/2"
WALL HYDRANT	-	-	-	3/4"	-

THIS DRAWING ACCURATE FOR MECHANICAL WORK ONLY

DESIGN	BY Shahjahan Ali	CHECKED Seve Gutierrez
DETAILS	BY Angela Chen	CHECKED Shahjahan Ali
QUANTITIES	BY Shahjahan Ali	CHECKED Seve Gutierrez

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
 ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN

BRIDGE No. 54M
 POST MILE L5726

SAN BERNARDINO MS OFFICE BUILDING
 PLUMBING ISOMETRIC

SHEET M1-03 OF

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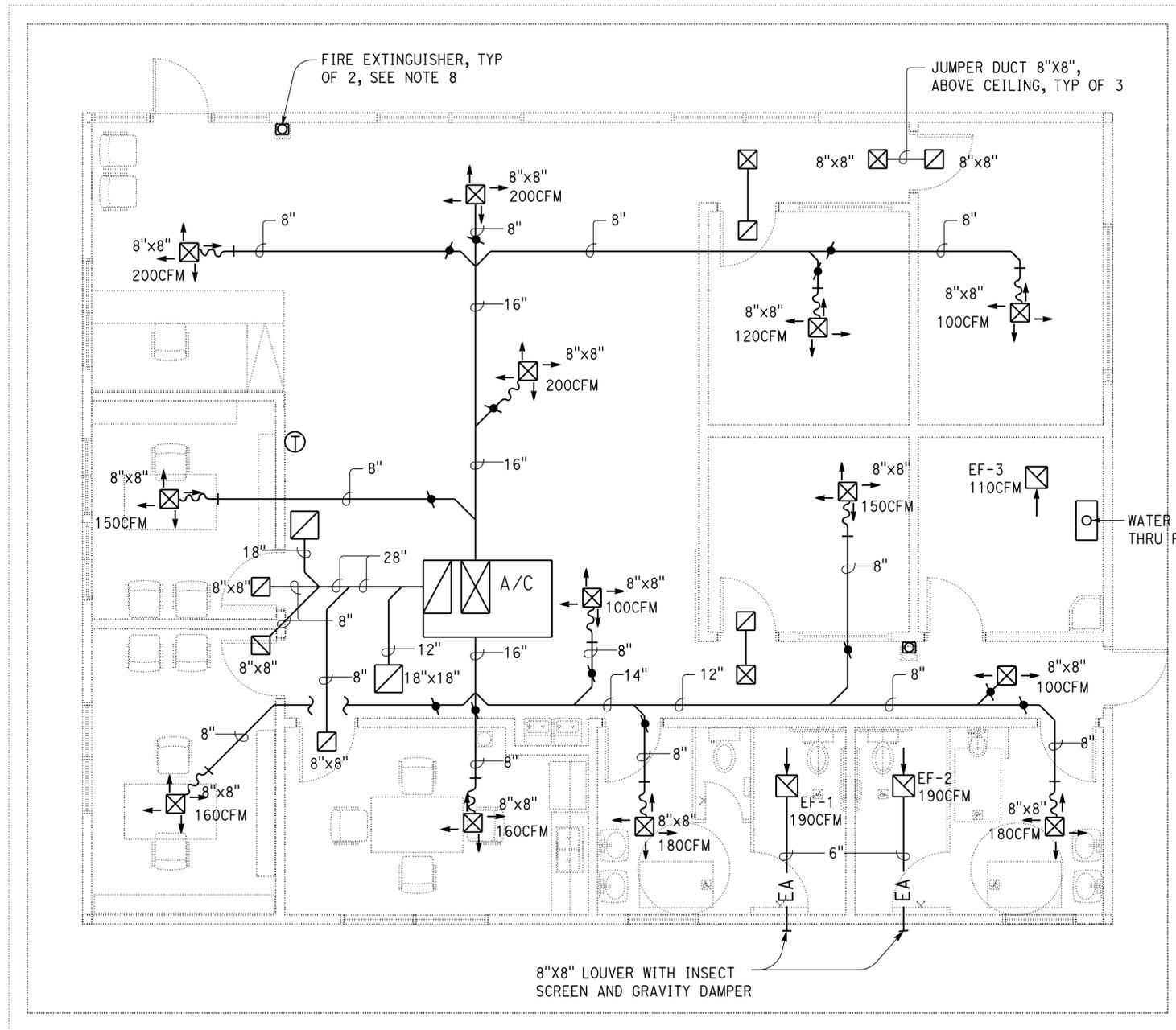
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS



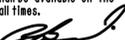
UNIT: 3615 CONTRACT No.: 08-0K841
 PROJECT NUMBER & PHASE: 08140000731

DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET	OF
	09/28/14 10/02/14 11/11/14 12/08/14 01/22/15 02/20/15 09/11/15 02/16/16		

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	L5726		53	72
Shahjahan Ali		09-11-15		REGISTERED MECHANICAL ENGINEER DATE	
02-16-16		PLANS APPROVAL DATE			
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 BRAD GOODRICH
 Approval date: 6/30/15
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EQUIPMENT SCHEDULE.

- EF-1 and 2 Exhaust Fan-1 and 2, ceiling mounted, 190 CFM @ 0.25" W.C. SP, 115V-1Ph-60Hz, 3.5 sones max. Route 6" duct through wall terminate with insect screen and wall louver.
- EF-3 Exhaust Fan-3 ceiling mounted, 110 CFM @ 0.25" W.C. SP exhaust fan, 115V-1Ph-60Hz, 3 sones max. Route 6" duct through roof with insect screen and rain guard.
- Water Heater Water Heater (tankless) wall mounted, 180,000 BTUH min, natural gas operation, 115-1Ph-60Hz.

NOTES.

1. A/C, Gas heating/electric cooling roof-top air conditioning system, 60,000 BTUH nominal cooling capacity, 55,400 BTUH sensible cooling at 105°F DB ambient temperature and 80°F DB/61°F WB indoor temperature, minimum 14.00 EER and 16.0 SEER. 2,000 CFM @ 0.70" W.C. SP, 400 CFM min outdoor air, 230V-3Ph-60Hz. 100,000 BTUH (high) and 50,000 BTUH (low) output heating, natural gas operation, 0.90 AFUE minimum. Unit with economizer.
2. EF-1, EF-2 must be operated by motion sensors and will run 15 more minutes after motion sensors cut off.
3. All balancing dampers must be accessible.
4. For supply and return duct diffuser installation, See .
5. Mount thermostats on wall at 46" above finished floor.
6. Fire extinguisher must be in cabinet semi recessed, 3A:40B:C. Top of fire extinguisher handle shall be mounted at 48" above finished floor.
7. Maximum length of flexible duct connected to the supply diffuser must not be more than five feet.
8. There must be a balancing damper before each diffuser and it must be accessible.

HVAC PLAN

1/4" = 1'-0"

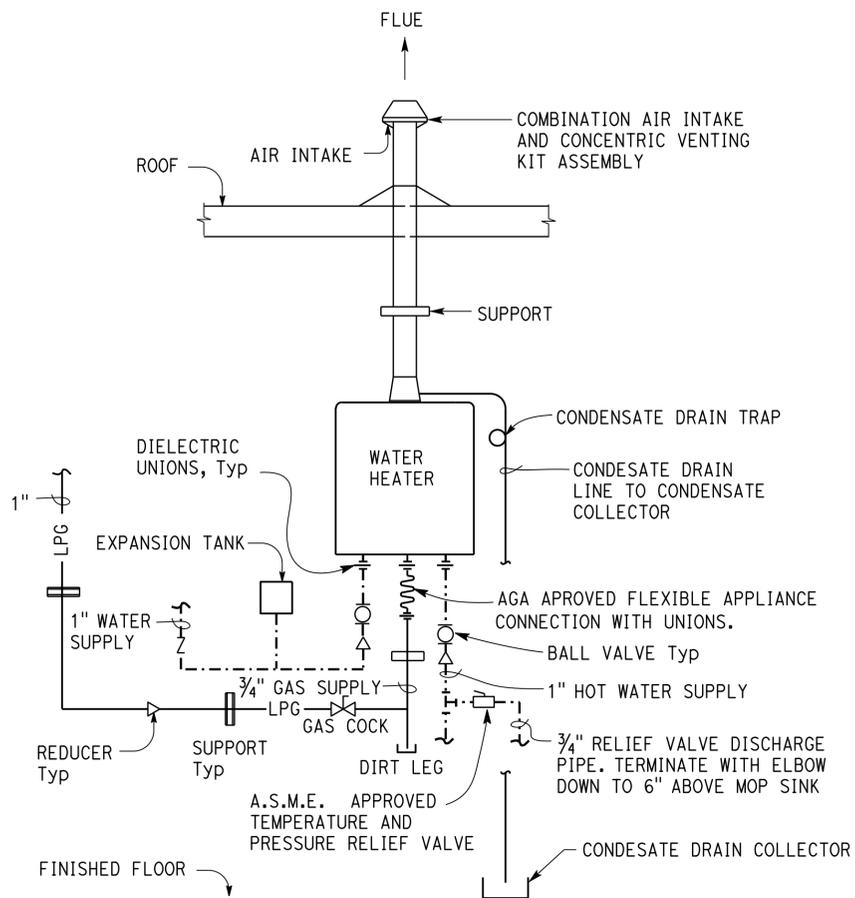
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DESIGN BY Shahjahan Ali CHECKED Seve Gutierrez	DETAILS BY Angela Chen CHECKED Shahjahan Ali	QUANTITIES BY Shahjahan Ali CHECKED Seve Gutierrez	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No. 54M	SAN BERNARDINO MS OFFICE BUILDING HVAC PLAN	SHEET M1-04
					POST MILE L5726		
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS			0 1 2 3	UNIT: 3615 CONTRACT No.: 08-0K841 PROJECT NUMBER & PHASE: 08140000731	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY) 09/28/14 10/02/14 11/11/14 12/08/14 01/27/15 02/20/15 09/11/15 02/16/16	SHEET OF

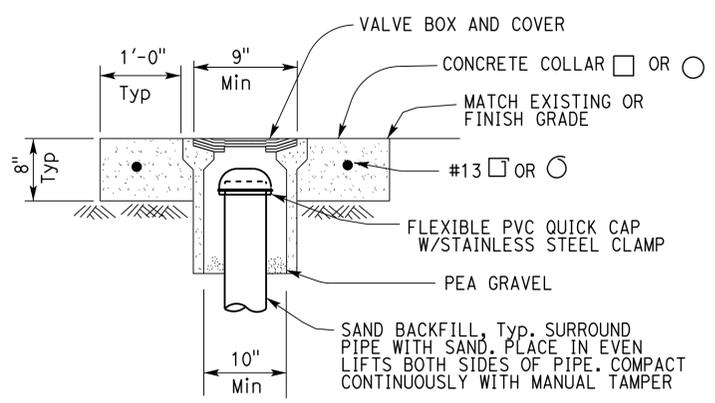
Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	L5726		54	72

Shahjahan Ali 09-11-15
 REGISTERED MECHANICAL ENGINEER DATE
 02-16-16
 PLANS APPROVAL DATE
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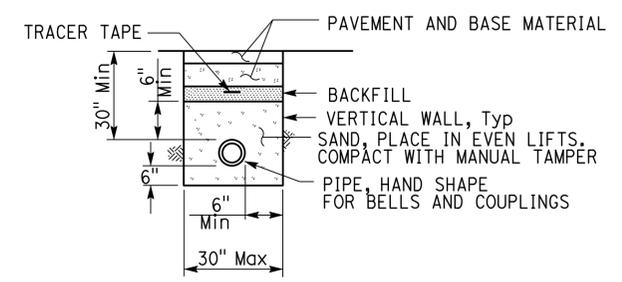
REGISTERED PROFESSIONAL ENGINEER
 Shahjahan Ali
 No. M 32144
 Exp. 09-30-16
 MECH
 STATE OF CALIFORNIA



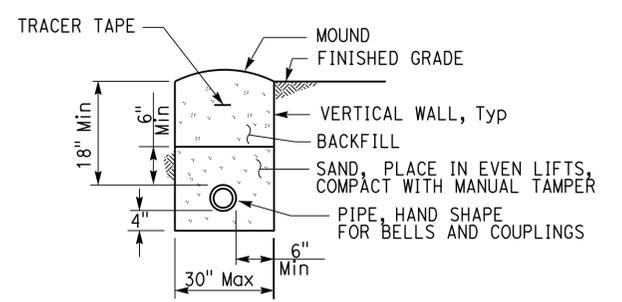
1 WATER HEATER (TANKLESS)
NO SCALE



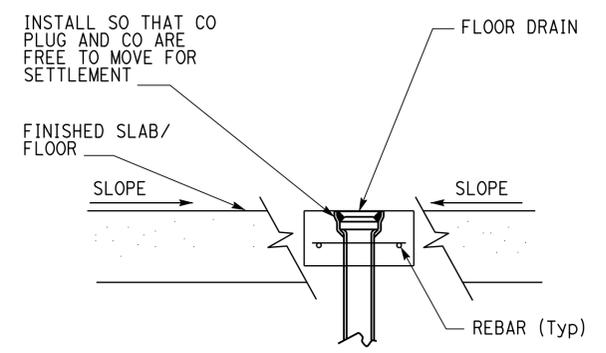
4 COTG ACCESS BOX
NO SCALE



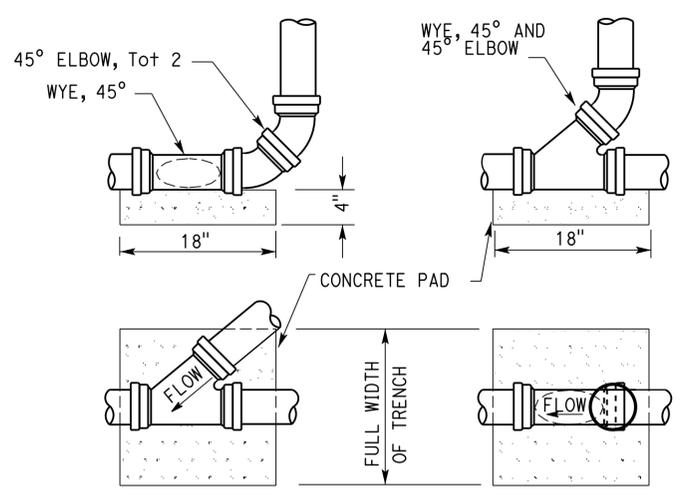
2 BURIED PIPE UNDER PAVEMENT
NO SCALE



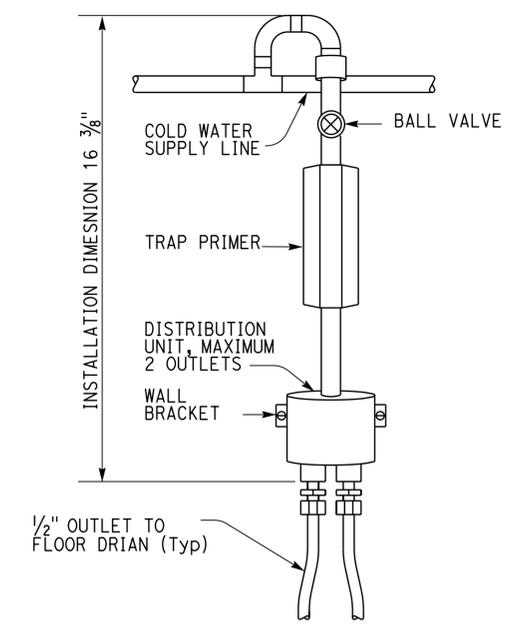
3 BURIED PIPE
NO SCALE



7 FLOOR DRAIN
NO SCALE



5 CLEANOUT TO GRADE
NO SCALE



6 TRAP PRIMER INSTALLATION DETAIL
NO SCALE

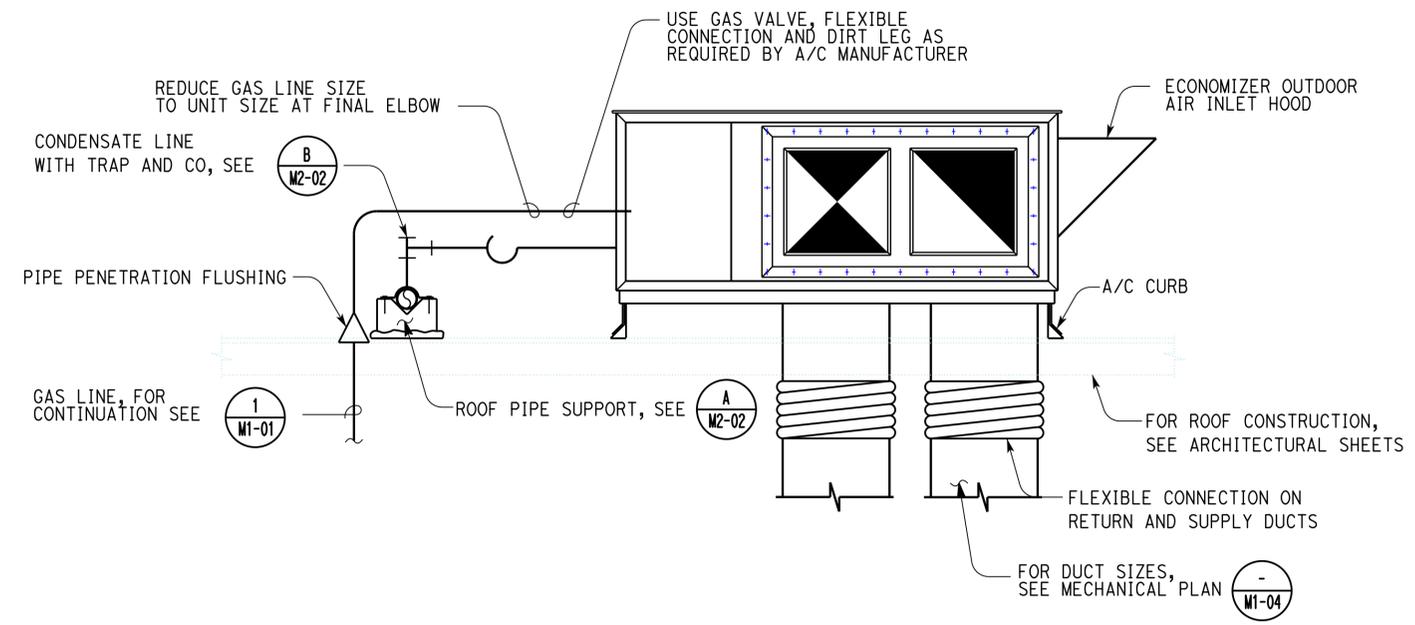
THIS DRAWING ACCURATE FOR MECHANICAL WORK ONLY

DESIGN BY Shahjahan Ali CHECKED Seve Gutierrez	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No. 54M	SAN BERNARDINO MS OFFICE BUILDING	SHEET M2-01
			POST MILE L5726		
DETAILS BY Angela Chen CHECKED Shahjahan Ali	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	UNIT: 3615 CONTRACT No.: 08-0K841 PROJECT NUMBER & PHASE: 08140000731	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY) 09/28/14 10/02/14 11/11/14 12/08/14 01/22/15 02/20/15 09/14/15 02/16/16	SHEET OF
QUANTITIES BY Shahjahan Ali CHECKED Seve Gutierrez					

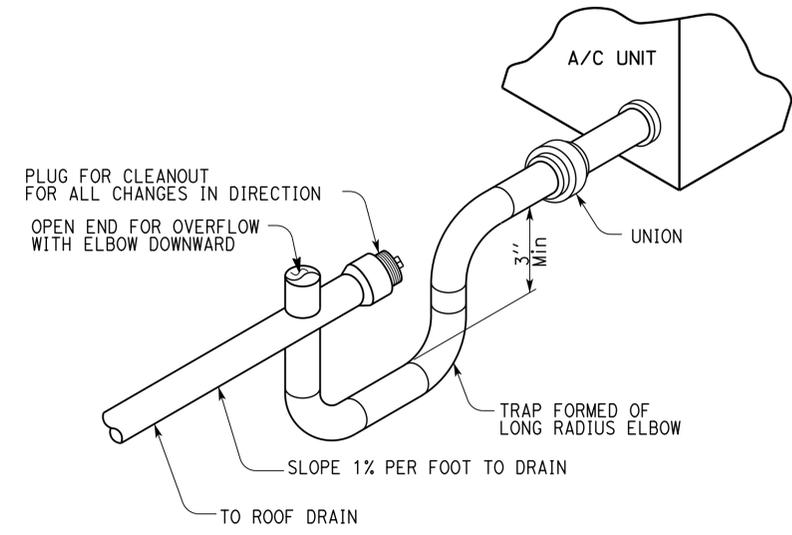
TAEWW Imperial - CCSC Rev. 01/13

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Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	L5726		55	72
Shahjahan Ali		09-11-15		REGISTERED MECHANICAL ENGINEER DATE	
02-16-16		PLANS APPROVAL DATE			
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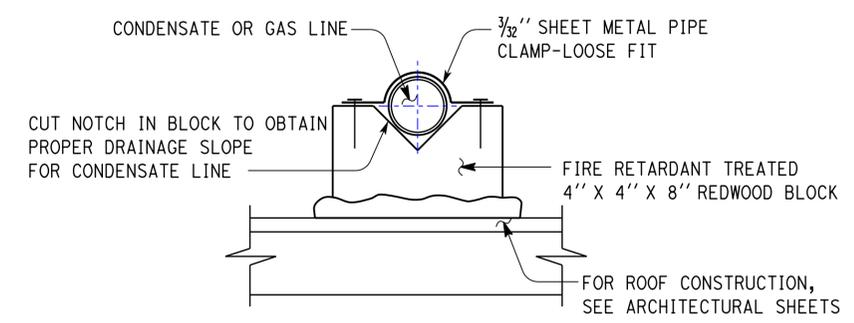


1 A/C
NO SCALE

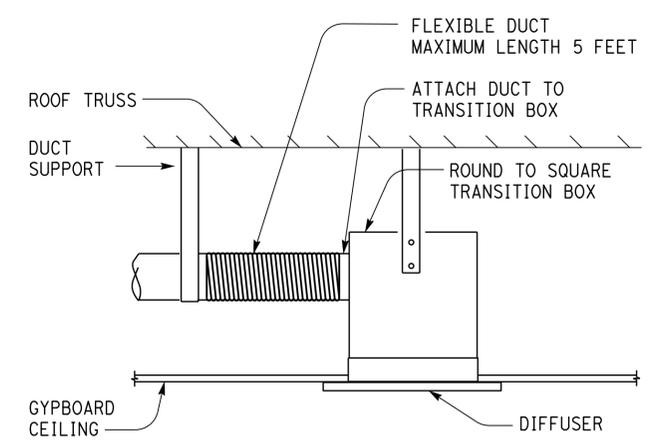


2 CONDENSATE DRAIN DETAIL
NO SCALE

OFFICE OF THE STATE FIRE MARSHAL
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 Reviewed by: 
 BRAD GOODRICH
 Approval date: 6/30/15
 CSFM File No. 01-36-11-0054



3 ROOF PIPE SUPPORT DETAIL
NO SCALE



4 GYPBOARD DIFFUSER DETAIL
NO SCALE

THIS DRAWING ACCURATE FOR MECHANICAL WORK ONLY

DESIGN BY Shahjahan Ali CHECKED Seve Gutierrez	DETAILS BY Angela Chen CHECKED Shahjahan Ali	QUANTITIES BY Shahjahan Ali CHECKED Seve Gutierrez	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No. 54M	SAN BERNARDINO MS OFFICE BUILDING MECHANICAL DETAILS-2	SHEET M2-02	
					POST MILE L5726			
TAEWW Imperial - CCSC Rev. 01/13			ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	UNIT: 3615 CONTRACT No.: 08-0K841 PROJECT NUMBER & PHASE: 08140000731	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF

GRAPHIC SYMBOLS FOR ELECTRICAL WIRING AND LAYOUT DIAGRAMS

SYMBOL	DESCRIPTION
	POLE-TOP ELECTROLIER
	POLE-ARM ELECTROLIER
	WALL
	SURFACE FLUORESCENT, METAL HALIDE, LED, OR SODIUM VAPOR FIXTURE
	RECESSED FLUORESCENT, METAL HALIDE, LED, OR SODIUM VAPOR FIXTURE
	EXIT LIGHT
	SURFACE OR PENDANT INDIVIDUAL FLUORESCENT OR LED FIXTURE
	RECESSED INDIVIDUAL FLUORESCENT OR LED FIXTURE
	RECESSED INDIVIDUAL LIGHTING FIXTURE WITH EMERGENCY LED DRIVER
	PENDANT INDIVIDUAL LIGHTING FIXTURE WITH EMERGENCY LED DRIVER
	SURFACE OR PENDANT CONTINUOUS ROW FLUORESCENT OR LED FIXTURES
NOTE: A LOWER CASE LETTER NEAR GRAPHIC LIGHTING FIXTURE SYMBOL DENOTES THAT FIXTURE IS CONTROLLED BY A SIMILARLY MARKED SWITCH, AN ALPHA-NUMERIC SYMBOL NEAR GRAPHIC LIGHTING FIXTURE SYMBOL DENOTES FIXTURE TYPE, (I=INCANDESCENT, F=FLUORESCENT, MH=METAL HALIDE, H=HIGH PRESSURE SODIUM VAPOR, L=LED), DESIGN TYPE, NUMBER OF LAMPS AND WATTAGE. EXAMPLE : (4) F2-2x32	
	BLANK OUTLET
	JUNCTION BOX
	DROP CORD
	SINGLE RECEPTACLE OUTLET
	DUPLEX RECEPTACLE OUTLET
	CONTROLLED DUPLEX RECEPTACLE OUTLET
	DUPLEX RECEPTACLE OUTLET (WITH GFCI)
	DUPLEX RECEPTACLE OUTLET, WEATHERPROOF (WITH GFCI)
	SINGLE, SPECIAL PURPOSE RECEPTACLE OUTLET
	DUPLEX, SPECIAL PURPOSE RECEPTACLE OUTLET
	RANGE OUTLET
	CLOCK HANGER RECEPTACLE
	FAN HANGER RECEPTACLE
	FLOOR SINGLE RECEPTACLE OUTLET
	FLOOR DUPLEX RECEPTACLE OUTLET
	FLOOR SPECIAL PURPOSE OUTLET
	FLOOR RADIO OUTLET
	FLOOR TELEPHONE OUTLET
	MULTI-FLOOR OUTLET, 2 OR MORE GANG
	MULTI-OUTLET ASSEMBLY
	SWITCH AND SINGLE RECEPTACLE
	SWITCH AND DUPLEX RECEPTACLE
	RADIO OUTLET
	COMMUNICATION OUTLET
	SOUND SYSTEM LOUD SPEAKER OUTLET
	RADIO OUTLET
	TELEVISION OUTLET
	MICROPHONE OUTLET
	THERMOSTAT

SYMBOL	DESCRIPTION
S	SINGLE-POLE SWITCH
S2	DOUBLE-POLE SWITCH
S3	THREE-WAY SWITCH
S4	FOUR-WAY SWITCH
SD	DIMMING SWITCH
SK	KEY OPERATED SWITCH
SP	SWITCH AND PILOT LIGHT
SMC	MOMENTARY CONTACT SWITCH
SRC	REMOTE CONTROL SWITCH
SWP	WEATHERPROOF SWITCH
SF	FAN SWITCH
SL	LIGHT SWITCH
SH	HEATER SWITCH
SVS	VARIABLE SPEED MOTOR CONTROL SWITCH
SCHLF	TWO TIMER SWITCHES, ONE SWITCH FOR LIGHT AND FAN AND ONE SWITCH FOR HEAT LAMP
S1	WALL SWITCH OCCUPANCY SENSOR TYPE 1
S2	WALL SWITCH OCCUPANCY SENSOR TYPE 2
SM	MOTION SENSOR SWITCH
ST	MANUAL MOTOR STARTING SWITCH, THERMAL OVERLOAD TYPE
SHP	MANUAL MOTOR STARTING SWITCH, WITHOUT OVERLOAD ELEMENT
TS	TIMER SWITCH
TS	PUSHBUTTON
TS	PUSHBUTTON STATION, NC, WITH LOCKING DEVICE FOR OPEN
TS	PUSHBUTTON STATION MOTOR CONTROL
BUZZ	BUZZER
BELL	BELL
CB	COMBINATION BELL-BUZZER
PS	PRESSURE SWITCH
R	CONTROL RELAY
FS	FLOW SWITCH
PEU	PHOTOELECTRIC UNIT
HD	HAND DRYER NOZZLE
H	HAND DRYER
MC	FLUSH-MOUNTED PANELBOARD AND CABINET
MC	SURFACE-MOUNTED PANELBOARD AND CABINET
LP	LIGHTING PANEL
PP	POWER PANEL
CLP	COMBINATION LIGHTING AND POWER
MC	MOTOR CONTROLLER
DS	DISCONNECT SWITCH
CC	CONDUIT CONCEALED IN CEILING OR WALL
CF	CONDUIT CONCEALED IN FLOOR
EX	CONDUIT EXPOSED
CL	CROSS-LINES INDICATE NUMBER OF #12 AWG CONDUCTORS. LONGER CROSS-LINE INDICATES 1#12 AWG (G) FOR EQUIPMENT GROUNDING CONDUCTOR. NO CROSS-LINE INDICATES 2#12 WITH 1#12 (G) UNLESS OTHERWISE NOTED. ALL CONDUIT 1/2" UNLESS OTHERWISE NOTED.
A1,2	HOMERUN TO PANELBOARD, ARROWS INDICATE NUMBER OF CIRCUITS, LETTER DENOTES PANELBOARD, NUMERAL DENOTES CIRCUIT

SYMBOL	DESCRIPTION
SM	SURFACE METAL RACEWAY
(2) 1/2" C, PVC, 2#12	CONDUCTOR INFO (PER CONDUIT) CONDUIT TYPE CONDUIT SIZE NUMBER OF CONDUITS (NO NUMBER INDICATES ONE CONDUIT)
MC	CONDUIT, RIGID STEEL, UNDERGROUND
PVC	CONDUIT, POLYVINYL CHLORIDE, UNDERGROUND
W	CONDUIT, FLEXIBLE
U	CONDUIT, TURN UP
TD	CONDUIT, TURN DOWN
CS	CONDUIT SEAL, EXPLOSION-PROOF
X	CONDUIT, EXPANSION JOINT
AD	ADAPTER, ONE TYPE CONDUIT TO ANOTHER
P	POLE
OC	OCCUPANCY SENSOR
OC1	OCCUPANCY SENSOR TYPE 1
P	POWER PACK
P	MANUAL PULL STATION
AV	AUDIO/VISUAL ALARM DEVICE
H	HEAT DETECTOR
S	SMOKE DETECTOR
G	GLASS BREAK DISCRIMINATOR
C	MAGNETIC CONTACT SWITCH-PEDESTRIAN DOOR
C	MAGNETIC CONTACT SWITCH-VEHICLE DOOR
K	KEYPAD FOR ALARM SYSTEM
W	COMBINATION DETECTOR (MICROWAVE/PASSIVE INFRARED)
□	PULL BOX-LETTER INDICATES TYPE OF PULL BOX (E-ELECTRICAL, T-TELEPHONE, R-RADIO)
□ (T)	PULL BOX (TRAFFIC-RATED)-LETTER INDICATES TYPE OF PULL BOX (E-ELECTRICAL, T-TELEPHONE, R-RADIO)
CHLF	COMBINATION HEAT, LIGHT, AND FAN UNIT
A	SECTION/ELEVATION LETTER
EE-2	SHEET NUMBER
1	DETAIL NUMBER
EE-2	SHEET NUMBER

REMODEL WORK

SYMBOL	DESCRIPTION
	EXISTING FLUORESCENT FIXTURE-TO REMAIN
	EXISTING FLUORESCENT FIXTURE-REMOVE
	EXISTING INCANDESCENT FIXTURE-TO REMAIN
	EXISTING INCANDESCENT FIXTURE-REMOVE
	EXISTING OUTLET-TO REMAIN
	EXISTING RECEPTACLE OUTLET-TO REMAIN
	EXISTING RECEPTACLE OUTLET-REMOVE
E---	EXISTING CONDUIT AND CONDUCTORS-TO REMAIN UNLESS OTHERWISE NOTED
-x---	EXISTING CONDUIT AND CONDUCTORS-REMOVE
S	EXISTING SWITCH-TO REMAIN
X	EXISTING SWITCH-REMOVE
J	EXISTING JUNCTION BOX-TO REMAIN
X	EXISTING JUNCTION BOX-REMOVE

GRAPHIC SYMBOLS FOR ELECTRICAL DIAGRAMS

SYMBOL	DESCRIPTION
	CIRCUIT BREAKER, SINGLE-POLE
	CIRCUIT BREAKER, DOUBLE-POLE
	CIRCUIT BREAKER, THREE-POLE
GFCI	CIRCUIT BREAKER, WITH GROUND FAULT CIRCUIT INTERRUPTER
	CIRCUIT BREAKER, SINGLE-POLE, SWITCHED NEUTRAL
	CONTACT, NORMALLY OPEN
	CONTACT, NORMALLY CLOSED
	CONTACT, NORMALLY CLOSED, TIME DELAY CLOSING ON DE-ENERGIZING
	CONTACT, NORMALLY OPEN, TIME DELAY OPENING ON DE-ENERGIZING
	CONTACT, NORMALLY OPEN, TIME DELAY CLOSING ON ENERGIZING
	CONTACT, NORMALLY CLOSED, TIME DELAY OPENING ON ENERGIZING
	CONTACT, SINGLE-POLE, DOUBLE-THROW
	OPERATING COIL
	LIQUID LEVEL ACTUATED SWITCH, NORMALLY CLOSED
	LIQUID LEVEL ACTUATED SWITCH, NORMALLY OPEN
	PRESSURE ACTUATED SWITCH, NORMALLY CLOSED
	PRESSURE ACTUATED SWITCH, NORMALLY OPEN
	FLOW ACTUATED SWITCH, NORMALLY CLOSED
	FLOW ACTUATED SWITCH, NORMALLY OPEN
	TEMPERATURE ACTUATED SWITCH, NORMALLY CLOSED
	TEMPERATURE ACTUATED SWITCH, NORMALLY OPEN
	LIMIT SWITCH, NORMALLY CLOSED
	LIMIT SWITCH, NORMALLY OPEN
	PUSHBUTTON SWITCH, NORMALLY CLOSED
	PUSHBUTTON SWITCH, NORMALLY OPEN
	SWITCH, SINGLE-POLE
	SWITCH, SINGLE-POLE, DOUBLE-THROW
	SWITCH, DOUBLE-POLE
	SWITCH, DOUBLE-POLE, DOUBLE-THROW
	SWITCH, SINGLE-POLE, 3-POSITION
	THERMAL OVERLOAD
	FUSE
	RESISTOR
	VARIABLE RESISTOR
	TRANSFORMER WINDING
	GROUNDING ELECTRODE
	ENCLOSURE BOND
	PILOT LIGHT (A=AMBER, G=GREEN, R=RED)
	INDICATING LIGHT (A=AMBER, G=GREEN, R=RED)
	GENERATOR
	MOTOR
	FAN MOTOR

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Sbd	L5726		56	72
			03-05-15	DATE	
2-16-16					
PLANS APPROVAL DATE					
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OFFICE OF THE STATE FIRE MARSHAL
APPROVED FIRE AND PANIC ONLY
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 Reviewed by:
 BRAD GOODRICH
 Approval date: 6/30/15
 CSF# File No. 01-36-11-0054

PROJECT NOTES

- Separate grounded (Neutral) conductor must be used for each 120-volt circuit.
- Homeruns to Panelboards must be installed as shown on the plans. Homeruns must not be combined.
- A single insulated equipment grounding conductor, sized as required, must be installed in each conduit run.
- All cables and conductors, including low voltage cables, must be installed inside properly sized conduit.
- Where shown on plans, low voltage control conductors/cables and power conductors/cables may be installed in the same raceway subject to the following:
 - Low voltage control conductors/cables must be bundled and taped together every five feet, prior to pulling;
 - Power conductors/cables must be bundled and taped together every five feet, prior to pulling;
 - Minimum insulation rating of low voltage conductors/cables must be equal or greater than the circuit voltage of any power conductors/cables within the raceway.

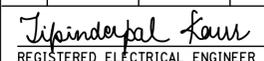
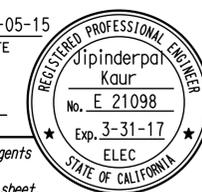
DESIGN	BY	Jipinderpal Kaur	CHECKED	Javid Amirazodi	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No.	54M5726	SAN BERNARDINO MAINTENANCE STATION OFFICE BUILDING	SHEET EE0-0		
	DETAILS	BY	Ed D. Tapalla	CHECKED			Jipinderpal Kaur	POST MILE			L5726	
	QUANTITIES	BY	Jipinderpal Kaur	CHECKED			Javid Amirazodi	LEGEND				
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS					0	1	2	3	UNIT: 3597 CONTRACT No.: 08-0K844 PROJECT NUMBER & PHASE: 08140000731	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET 1 OF 10

ABBREVIATIONS

A		F	
A	AMPERES	F	FUSE
AC	ALTERNATING CURRENT or ASPHALT CONCRETE	FG	FINISH GRADE
A/C	AIR CONDITIONING UNIT	FL	FAILURE LIGHT
ACS	AIR COMPRESSOR STARTER	FLA	FLASHER
AFCI	ARC FAULT CIRCUIT INTERRUPTER	Flex	FLEXIBLE CONDUIT
AI	ANALOG INPUT	FLS	FLOW SWITCH
AL	ALARM LIGHT	FO	FIBER OPTIC
AO	ANALOG OUTPUT	FR	FAILURE RESET or FLAME RESISTANT
Approx	APPROXIMATE	FS	FLOAT SWITCH
AR	ALARM RESET	G	
AVC	AIR VOLUME CONTROLLER	G	GROUND
B		Ga	GAUGE
BC	BARE COPPER	Galv	GALVANIZED
BD	BUILDING DISCONNECT	GFCI	GROUND FAULT CIRCUIT INTERRUPTER
Bldg	BUILDING	GRS	GALVANIZED RIGID STEEL
BP	BOOSTER PUMP	H	
Brk	BREAKER	hp	HORSEPOWER
C		HPS	HIGH PRESSURE SODIUM
C	CONDUIT	I	
Cat	CATEGORY	IC	IRRIGATION CONTROLLER
CB	CIRCUIT BREAKER	ICC	IRRIGATION CONTROLLER CABINET
CC	CENTER CHANNEL LIGHT	IR	INDUCTION RELAY
CCTV	CLOSED CIRCUIT TELEVISION	ISR	INTRINSICALLY SAFE RELAY
CD	CONTROL DISCONNECT	J	
Ckt	CIRCUIT	JB	JUNCTION BOX
CL	CHAIN LINK	K	
CL	CLEAR or CLEARANCE	kV	KILOVOLT
CM	CENTER MARGIN LIGHT	kVA	KILOVOLT AMPERES
CMS	CHANGEABLE MESSAGE SIGN	kW	KILOWATT
COMM	COMMUNICATION	L	
Conc	CONCRETE	L	LIGHT or LENGTH
CR	CONTROL RELAY	LC	LIGHTING CONTACTOR
CSW	CURRENT SWITCH	LCD	LIQUID CRYSTAL DISPLAY
D		LCP	LIGHTING CONTROL PANEL
D	DEPTH	LD	LIGHT DISCONNECT
DC	DIRECT CURRENT	LDCI	LEAK DETECTOR CIRCUIT INTERRUPTER
DI	DIGITAL INPUT	LED	LIGHT EMITTING DIODE
Dia	DIAMETER	LL	LIQUID LEVEL RELAY
DLC	LOOP DETECTOR LEAD-IN CABLE	LLC	LIQUID LEVEL CONTROLLER
DO	DIGITAL OUTPUT	LP	LIGHT PANEL
DP	DUPLEX PLUG RECEPTACLE	LPS	LOW PRESSURE SODIUM
DS	DOOR SWITCH	LS	LIGHT SWITCH
E		LT	LIGHT TRANSFORMER
(E)	EXISTING	LTO	LIGHT TRANSFORMER OVERLOAD
EB	EASTBOUND	M	
EF	EXHAUST FAN	Max	MAXIMUM
Elev	ELEVATION	MB	MAIN BREAKER
EMS	EXTINGUISHABLE MESSAGE SIGN	MC	METALLIC CONDUIT

M		N	
Max	MAXIMUM	(N)	NEW
MB	MAIN BREAKER	Nav	NAVIGATIONAL LIGHTS
MCP	MOTOR CIRCUIT PROTECTOR	NB	NEUTRAL BUS or NORTHBOUND
MCC	MOTOR CONTROL CENTER	NC	NORMALLY CLOSED
MD	MOTOR DISCONNECT	No.	NUMBER
MH	MOUNTING HEIGHT	Nos.	NUMBERS
Min	MINIMUM	NO	NORMALLY OPEN
MIS	MANAGEMENT INFORMATION SYSTEM	NSW	NEUTRAL SWITCHING BREAKER
Misc	MISCELLANEOUS	O	
MSB	MAIN SWITCHBOARD	O/C	ON CENTER
MT	EMPTY CONDUIT	OG	ORIGINAL GROUND
N		OH	OVERHEAD
(N)	NEW	OL	OVERLOAD
Nav	NAVIGATIONAL LIGHTS	OLCS	OUTSIDE LIGHTING CONTROL STATION
NB	NEUTRAL BUS or NORTHBOUND	P	
NC	NORMALLY CLOSED	P	POLE (CIRCUIT BREAKER)
No.	NUMBER	PB	PULL BOX or PUSHBUTTON
Nos.	NUMBERS	PCC	PORTLAND CONCRETE CEMENT
NO	NORMALLY OPEN	PCP	PUMP CONTROL PANEL
NSW	NEUTRAL SWITCHING BREAKER	PD	PUMP DISCONNECT
O		PEC	PHOTOELECTRIC CONTROL
O/C	ON CENTER	PEU	PHOTOELECTRIC UNIT
OG	ORIGINAL GROUND	PFR	PHASE FAILURE RELAY
OH	OVERHEAD	PFRD	PHASE FAILURE RELAY DISCONNECT
OL	OVERLOAD	PL	PLATE
OLCS	OUTSIDE LIGHTING CONTROL STATION	PL	PILOT LIGHT
P		PS	PRESSURE SWITCH
P	POLE (CIRCUIT BREAKER)	PTS	POWER TRANSFER SWITCH
PB	PULL BOX or PUSHBUTTON	PV	PHOTOVOLTAIC
PCC	PORTLAND CONCRETE CEMENT	PVC	POLYVINYL CHLORIDE
PCP	PUMP CONTROL PANEL	R	
PD	PUMP DISCONNECT	RD	RECEPTACLE DISCONNECT
PEC	PHOTOELECTRIC CONTROL	RES	RESISTOR
PEU	PHOTOELECTRIC UNIT	Rm	ROOM
PFR	PHASE FAILURE RELAY	RTB	RADIO TERMINAL BOARD
PFRD	PHASE FAILURE RELAY DISCONNECT	R/W	RIGHT OF WAY
PL	PLATE	S	
PL	PILOT LIGHT	S	STARTER COIL
PS	PRESSURE SWITCH	SCCR	SHORT CIRCUIT CURRENT RATING
PTS	POWER TRANSFER SWITCH	Sch	SCHEDULE
PV	PHOTOVOLTAIC	SD	SERVICE DISCONNECT
PVC	POLYVINYL CHLORIDE	Sec	SECONDS

S		T	
S	STARTER COIL	TB	TERMINAL BLOCK
SCCR	SHORT CIRCUIT CURRENT RATING	TC	TELEPHONE CABLE/TIME CLOCK
Sch	SCHEDULE	TDR	TIME DELAY RELAY
SD	SERVICE DISCONNECT	TGLS	TOGGLE SWITCH
Sec	SECONDS	TM	TIME METER
SFR	SEAL FAILURE RELAY	Tot	TOTAL
SL	SUMP LIGHT	TS	TIMER SWITCH
SPR	STANDBY POWER RECEPTACLE	TSW	TEST SWITCH
Sq	SQUARE	TTB	TELEPHONE TERMINAL BOARD
SS	SELECTOR SWITCH	Typ	TYPICAL
ST	STARTER	U	
Std	STANDARD	UPS	UNINTERRUPTIBLE POWER SUPPLY
SV	SOLENOID VALVE	V	
SWIM	SLOW WEIGH-IN-MOTION	V	VOLT(S)
T		Var	VARIABLE or VARIES
TB	TERMINAL BLOCK	W	
TC	TELEPHONE CABLE/TIME CLOCK	W	WATT or WIDTH
TDR	TIME DELAY RELAY	WB	WESTBOUND
TGLS	TOGGLE SWITCH	WIM	WEIGH-IN-MOTION
TM	TIME METER	WLS	WATER LEVEL SWITCH
Tot	TOTAL	WP	WEATHERPROOF
TS	TIMER SWITCH	WSMS	WEIGH STATION MESSAGE SIGN
TSW	TEST SWITCH	X	
TTB	TELEPHONE TERMINAL BOARD	XFMR	TRANSFORMER
Typ	TYPICAL	SYMBOLS	
U		L	ANGLE
UPS	UNINTERRUPTIBLE POWER SUPPLY	@	AT
V		°	DEGREES
V	VOLT(S)	Δ	DELTA
Var	VARIABLE or VARIES	Ω	OHM(S)
W		∅	PHASE
W	WATT or WIDTH	±	PLUS OR MINUS
WB	WESTBOUND	X	
WIM	WEIGH-IN-MOTION	SYMBOLS	
WLS	WATER LEVEL SWITCH	L	ANGLE
WP	WEATHERPROOF	@	AT
WSMS	WEIGH STATION MESSAGE SIGN	°	DEGREES
X		Δ	DELTA
XFMR	TRANSFORMER	Ω	OHM(S)
SYMBOLS		∅	PHASE
L	ANGLE	±	PLUS OR MINUS
@	AT	SYMBOLS	
°	DEGREES	L	ANGLE
Δ	DELTA	@	AT
Ω	OHM(S)	°	DEGREES
∅	PHASE	Δ	DELTA
±	PLUS OR MINUS	Ω	OHM(S)

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Sbd	L5726		57	72
			03-05-15		
REGISTERED ELECTRICAL ENGINEER			DATE		
2-16-16					
PLANS APPROVAL DATE					
					
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Reviewed by: 
 BRAD GOODRICH
 Approval date: 6/30/15

CSFM File No. 01-36-11-0054

STANDARD NOTES

- [AB] Abandon. If applied to conduit, remove conductors.
- [BC] Install pull box in existing conduit run.
- [CB] Install conduit into existing pull box.
- [CC] Connect new and existing conduit. Remove existing conductors and install conductors as indicated.
- [CF] Conduit to remain for future use. Remove conductors, install pull rope and plug.
- [FA] Remove foundation above grade and abandon foundation below grade.
- [RL] Relocate equipment.
- [RLD] Relocated equipment.
- [SC] Splice new to existing conductors.

STANDARD PLANS

Dated 2010

- RSP ES-1A
- RSP ES-1B
- RSP ES-1C
- RSP ES-8B

DESIGN	BY	Jipinderpal Kaur	CHECKED	Javid Amirazodi	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No.	54M5726	SAN BERNARDINO MAINTENANCE STATION OFFICE BUILDING	SHEET	OF	
	DETAILS	BY	Ed D. Tapalla	CHECKED			Jipinderpal Kaur	POST MILE		L5726	EE0-1	
	QUANTITIES	BY	Jipinderpal Kaur	CHECKED			Javid Amirazodi				NOTES AND ABBREVIATIONS	
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS					0	1	2	3	UNIT: 3597 CONTRACT No.: 08-0K844 PROJECT NUMBER & PHASE: 08140000731			
TAEWW Imperial - CCSC Rev. 01/13					DISREGARD PRINTS BEARING EARLIER REVISION DATES			6/12/12	3-5-15	REVISION DATES (PRELIMINARY STAGE ONLY)		
										SHEET	OF	
										2	10	

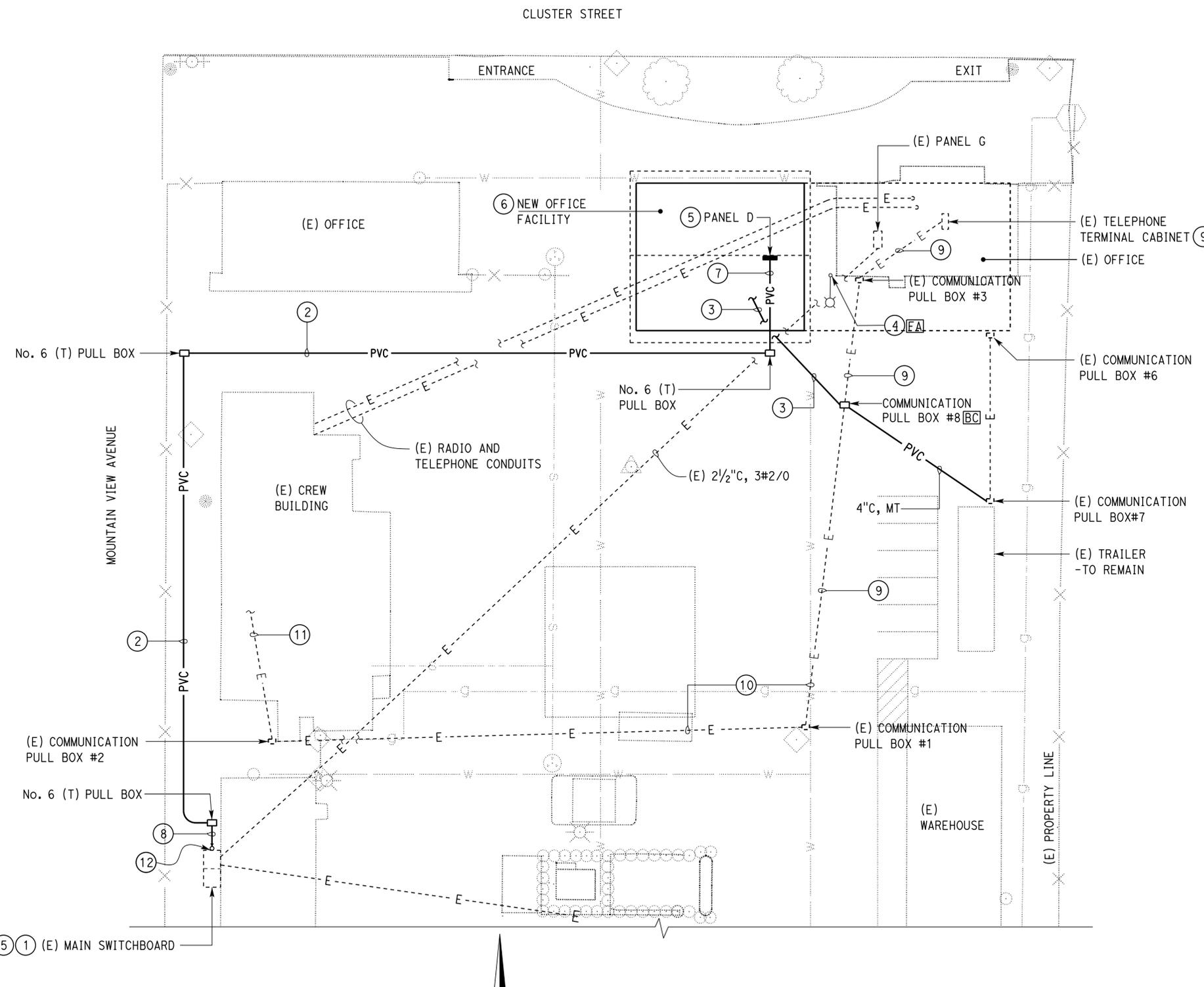
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Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Sbd	L5726		58	72
<i>Jipinderpal Kaur</i> REGISTERED ELECTRICAL ENGINEER			03-05-15 DATE		
2-16-16			PLANS APPROVAL DATE		
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Reviewed by: *Brad Goodrich*
 BRAD GOODRICH
 Approval date: 6/30/15
 CSFM File No. 01-36-11-0054



NOTES:

- ① Existing Main Switchboard is CUTLER-HAMMER Westinghouse, Pow-R-Line type, catalog number VLA21712, 120/208-Volt, 3-phase, 4-wire switchboard with 600-Ampere main circuit breaker. Perform the following:
 - Remove one existing spare circuit breaker from distribution section and install one 250-Ampere frame, 225-Ampere trip, 3-pole molded case circuit breaker in that space for feeding Panel D. The interrupting capacity of the circuit breaker must be minimum 65,000 Amperes (symmetrical) at 240 volts.
 - Terminate new 4#400 kcmil, 1#4G on new circuit breaker, existing neutral bus and existing ground bus as required.
 - Adjacent to the new 3-pole circuit breaker, install screw on type nameplate with letter height of 1/4" to read "PANEL D".
- ② - 4"C, 4#400 kcmil, 1#4G.
 - 4"C, MT.
- ③ - 4"C, PVC, 25-pair telephone cable to 110 blocks inside Com/Equipment Room 108.
 - 4"C, PVC, 2 data cables to data patch panel inside Com/Equipment Room 108.
- ④ Light pole. Remove. Existing light pole is fed from Panel G, ckt#9. Remove conductors and abandon conduit.
- ⑤ Provide warning label on exterior door. For warning label details, see detail 1 on sheet EE1-1.
- ⑥ For work in this area, see plan sheets EE1-1 through EE1-4.
- ⑦ - 4"C, 4#400 kcmil, 1#4G.
 - (2) 2"C, MT.
- ⑧ - 4"C, PVC, 4#400 kcmil, 1#4G.
 - (2) 4"C, PVC, MT to distribution section of existing Main Switchboard. Do knockouts as required. provide weatherproof flashing for each knockout.
- ⑨ (E) 4"C, PVC, with (E) fiber and 25-pair telephone cables. Perform the following:
 - Disconnect existing fiber and 25-pair telephone cables from existing Telephone Terminal Cabinet inside existing Office and pull back cables up to existing communication pull box #1.
 - Document all existing terminations of fiber and 25-pair telephone cables prior to disconnecting. Put temporary labels on cables to indicate their termination ports.
 - After installation of the new communication pull box #8, pull back existing fiber and 25-pair telephone cables up to existing Telephone Terminal Cabinet. Terminate cables back at appropriate patch panels. Test all terminations in the presence of the Engineer.
 - Install 2 data cables coming from Com/Equipment Room 108 through communication pull box #8 and terminate on existing patch panel inside existing Telephone Terminal Cabinet..
 - All this work must be performed in presence of engineer David Luna (909-383-4213). He must be informed 15 days before the initiation of work.
- ⑩ (E) 4"C, PVC, with (E) Fiber and 25-pair voice cables. Install a new 25-pair telephone cable.
- ⑪ (E) 4"C, PVC, with (E) Fiber and 25-pair telephone cables to communication room inside existing crew building. Install a new 25-pair telephone cable and terminate on existing voice patch panel in communication room inside existing crew building.
- ⑫ Provide knockouts on the side of (E) Main Switchboard for new conduit entries as required. All conduit entries to (E) Main Switchboard must be done by using weatherproof fittings.

SITE PLAN
 1" = 20'

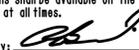
APPROVED FOR ELECTRICAL WORK ONLY

 DESIGN SUPERVISOR  DESIGN ENGINEER	DESIGN	BY Jipinderpal Kaur	CHECKED Javid Amirazodi	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No.	SAN BERNARDINO MAINTENANCE STATION OFFICE BUILDING		SHEET EE0-2
	DETAILS	BY Ed D. Tapalla	CHECKED Jipinderpal Kaur			POST MILE	SITE PLAN		
	QUANTITIES	BY Jipinderpal Kaur	CHECKED Javid Amirazodi			L5726	REVISION DATES (PRELIMINARY STAGE ONLY)		SHEET OF
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS				0 1 2 3	UNIT: 3597 CONTRACT No.: 08-0K844 PROJECT NUMBER & PHASE: 08140000731	DISREGARD PRINTS BEARING EARLIER REVISION DATES	6/24/14 3-5-15	3 10	

NOTES:

- ① Mount bottom of receptacle 6" above counter top.
- ② Mount device below sink at height recommended by the Garbage Disposal manufacturer.
- ③ 3/4"C, 4#12, 1#12 insulated ground.
- ④ 1/2"C, 2#12, 1#12 insulated ground.
- ⑤ GFCI type receptacle.
- ⑥ 3/4"C, 6#12, 1#12.
- ⑦ -1/2"C, 1#10G to ground bar below Panel D, see Detail 4 on sheet ST-2.
-1/2"C, 1#10G bond to structural steel column, without splices.
-1/2"C, 1#10G bond to interior cold water, air and gas pipe without splices.
- ⑧ Box mount transformer (120VAC/6VAC) for urinal sensor. Mount box above ceiling.
- ⑨ Power and control conductors as required.
- ⑩ Solenoid valve and infrared sensor.
- ⑪ 3/4"C, 4#12, 1#12G.
- ⑫ Quad communication equipment outlet must be installed closer to the communication rack. Exact location to be directed by the Engineer.
- ⑬ 4"C, 4#400 kcmil, 1#4G to pull box. For continuation, see site plan sheet EE0-2.

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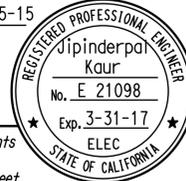
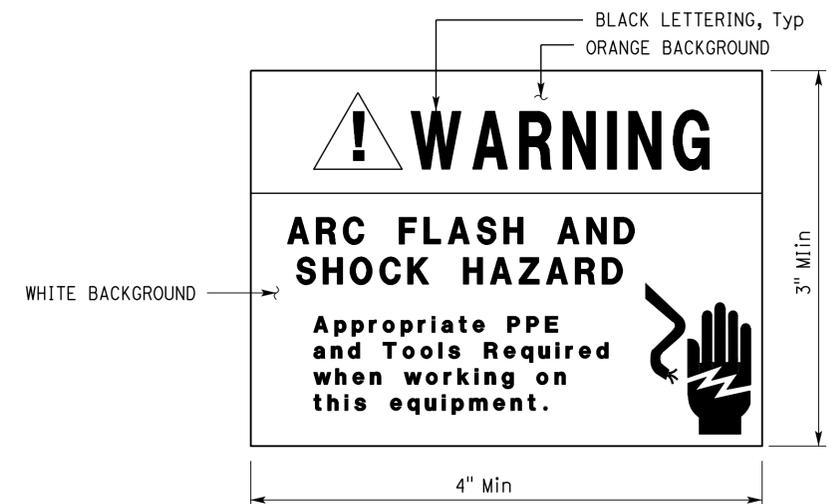
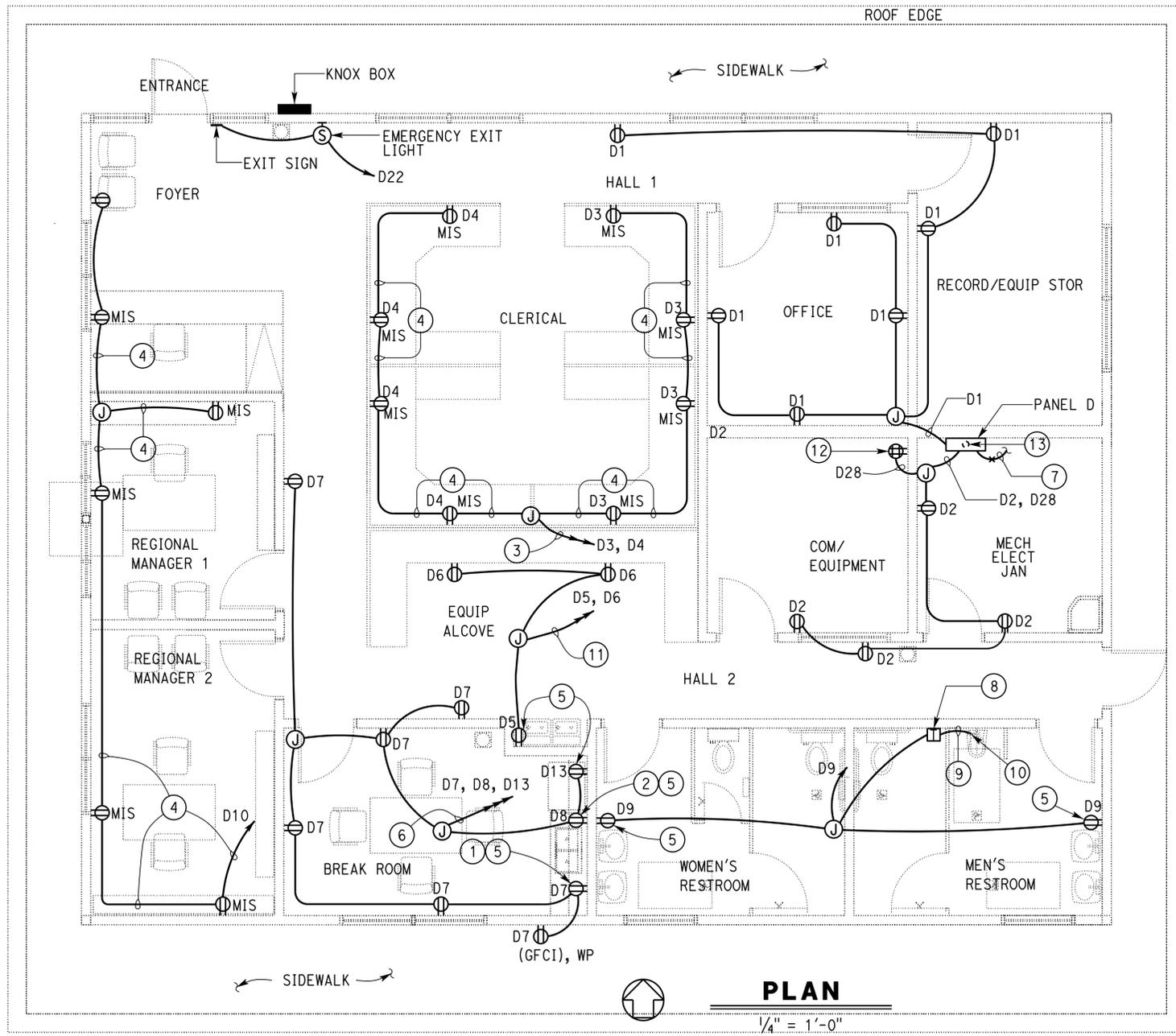
Reviewed by: 
 BRAD GOODRICH
 Approval date: 6/30/15
 CSFM File No. 01-36-11-0054

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Sbd	L5726		59	72

Jipinderpal Kaur
 REGISTERED ELECTRICAL ENGINEER
 DATE: 03-05-15

2-16-16
 PLANS APPROVAL DATE

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① **WARNING LABEL ***
 NO SCALE
 * WARNING LABEL MUST BE CONSTRUCTED WITH HIGH DEGREE OF CHEMICAL ABRASION, HEAT RESISTANCE AND UL RECOGNIZED MATERIAL.

APPROVED FOR ELECTRICAL WORK ONLY

DESIGN BY Jipinderpal Kaur CHECKED Javid Amirazodi	DETAILS BY Ed D. Tapalla CHECKED Jipinderpal Kaur	QUANTITIES BY Jipinderpal Kaur CHECKED Javid Amirazodi	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No. 54M5726	SAN BERNARDINO MAINTENANCE STATION OFFICE BUILDING POWER PLAN	SHEET 4 OF 10
					POST MILE L5726		REVISION DATES (PRELIMINARY STAGE ONLY)
					UNIT: 3597 CONTRACT No.: 08-0K844 PROJECT NUMBER & PHASE: 08140000731		DISREGARD PRINTS BEARING EARLIER REVISION DATES

TAEWW Imperial - CCSC Rev. 01/13 ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

REVISION DATES (PRELIMINARY STAGE ONLY)

6-2-14 3-5-15

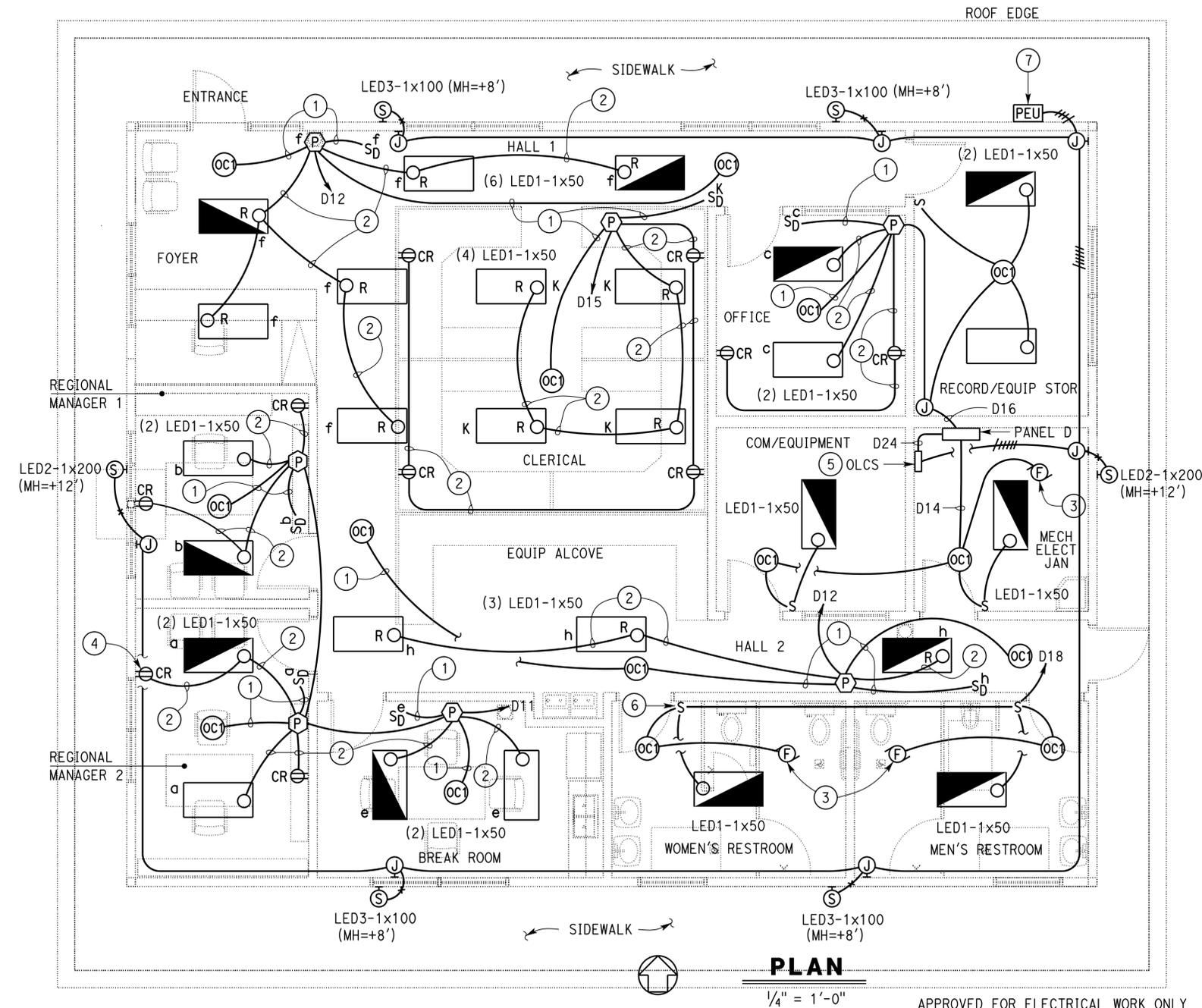
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NOTES:

- ① 1"C, Control cables or conductors as required.
- ② 1/2"C, 2#12, 1#2G and control cables or conductors as required.
- ③ Exhaust fan, typical. Exhaust fans are operated by Occupancy Sensor and must run for 10 more minutes after Occupancy Sensor cut-off. For wiring, see Detail 2, on sheet EE2-1.
- ④ Controlled receptacle, typical. Controlled receptacles must be controlled either by rooms, Occupancy Sensor or wall switch via auxiliary power pack relay for wiring, see Detail 3, on sheet EE2-1.
- ⑤ For Outside Lighting Control Station (OLCS) schematic see Detail 1, on sheet EE2-2.
- ⑥ Single-pole switch, typical. For schematic, see Detail 4, on sheet EE2-1.
- ⑦ Install PEU one foot above roof facing north.

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 Reviewed by: *[Signature]*
 BRAD GOODRICH
 Approval date: 6/30/15
 CSFM File No. 01-36-11-0054

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Sbd	L5726		60	72
<i>Jipinderpal Kaur</i> REGISTERED ELECTRICAL ENGINEER			03-05-15 DATE	REGISTERED PROFESSIONAL ENGINEER <i>Jipinderpal Kaur</i> No. E 21098 Exp. 3-31-17 ELEC STATE OF CALIFORNIA	
2-16-16			PLANS APPROVAL DATE		
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GENERAL NOTES:

- A. For multiple ceiling mounted occupancy sensor type 1 and dimming switch with lighting load wiring diagram, see Detail 1 on sheet EE2-1.
- B. For multiple ceiling mounted occupancy sensor type 1 and dimming switch with lighting and plug load wiring diagram, see Detail 3 on sheet EE2-1.
- C. For exact location of lighting fixtures, see Architectural plans.
- D. For exact location of exhaust fans, see Mechanical plan sheet M1-04.
- E. Homeruns must be installed as shown on the plans. Homeruns must not be combined.
- F. Provide adequate number of junction boxes as required, without additional cost to the State. Junction boxes must be sized as required to accommodate number of cables/conductors inside.
- G. Provide all mounting hardware for each type of fixture as required.
- H. All power packs must be installed in properly sized junction boxes as recommended by the manufacturer. Install additional properly sized junction boxes next to each power pack and terminate conduits as required. All splices must be enclosed in junction boxes.
- I. For Lighting Control Program Schedule, see sheet EE2-3.
- J. All control cables or conductors must be as specified by the device manufacturer's recommendation.
- K. For combining low voltage control cables/conductors and power conductors, see Project Notes on sheet EE0-1.

PLAN

1/4" = 1'-0"

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DESIGN BY Jipinderpal Kaur	CHECKED Javid Amirazodi	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No. 54M5726	SAN BERNARDINO MAINTENANCE STATION OFFICE BUILDING	SHEET EE1-2
				POST MILE L5726		
DETAILS BY Ed D. Tapalla	CHECKED Jipinderpal Kaur	UNIT: 3597 CONTRACT No.: 08-0K844 PROJECT NUMBER & PHASE: 08140000731		DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF
QUANTITIES BY Jipinderpal Kaur	CHECKED Javid Amirazodi	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		6-2-14	3-5-15	5 OF 10

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Reviewed by: *[Signature]*
 BRAD GOODRICH
 Approval date: 6/30/15

CSFM File No. 01-36-11-0054

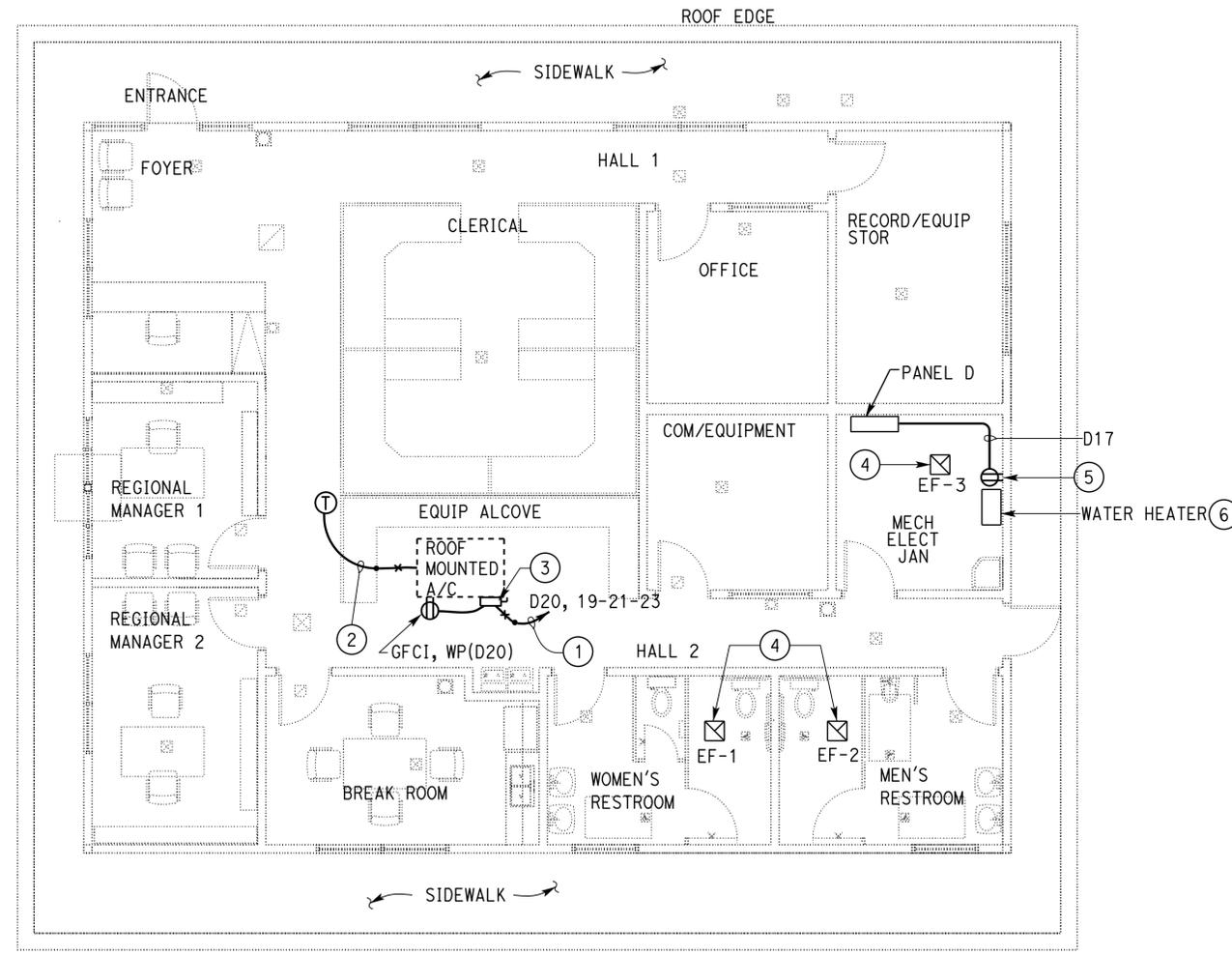
Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Sbd	L5726		61	72

Jipinderpal Kaur
 REGISTERED ELECTRICAL ENGINEER DATE 03-05-15

2-16-16
 PLANS APPROVAL DATE

Jipinderpal Kaur
 No. E 21098
 Exp. 3-31-17
 ELEC
 STATE OF CALIFORNIA

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- NOTES:
- ① 1" C, 3#10, 2#12, 1#10G.
 - ② 1/2" C, control conductors as required.
 - ③ A/C disconnect. Provide conduit fitting below disconnect for branching off circuit for duplex receptacle.
 - ④ Exhaust fan powered by occupancy sensor. For wiring, see lighting plan sheet EE1-2. For exact location of exhaust fans, see Mechanical Plan sheet M1-04.
 - ⑤ Water Heater receptacle, mount receptacle at the height recommended by Water Heater Manufacturer.
 - ⑥ For exact location of water heater, see Mechanical Plan sheet M1-04.

 **PLAN**
 3/16" = 1'-0"

APPROVED FOR ELECTRICAL WORK ONLY

DESIGN BY Jipinderpal Kaur CHECKED Javid Amirazodi	DETAILS BY Carol Christian CHECKED Jipinderpal Kaur	QUANTITIES BY Jipinderpal Kaur CHECKED Javid Amirazodi	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No. 54M5726	SAN BERNARDINO MAINTENANCE STATION OFFICE BUILDING HVAC POWER PLAN	SHEET OF EE1-3 6 10
					POST MILE L5726		
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3				UNIT: 3597 CONTRACT No.: 08-0K844 PROJECT NUMBER & PHASE: 08140000731	REVISION DATES (PRELIMINARY STAGE ONLY)		

TAEWW Imperial - CCSC Rev. 01/13

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GENERAL NOTES:

- A. All conduit stub up must be 12" above finished floor or 12" below ceiling. Provide conduit bushings on all conduits.
- B. All exposed metal parts that can accidentally become energized and racks must be bonded to ground.
- C. Conduit stub ups must not be more than 2" from the face of the walls.
- D. The operational test for the communication system must be performed by you in the presence of the engineer David Luna (909-383-4213).

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Reviewed by: *[Signature]*
 BRAD GOODRICH
 Approval date: 6/30/15

CSFM File No. 01-36-11-0054

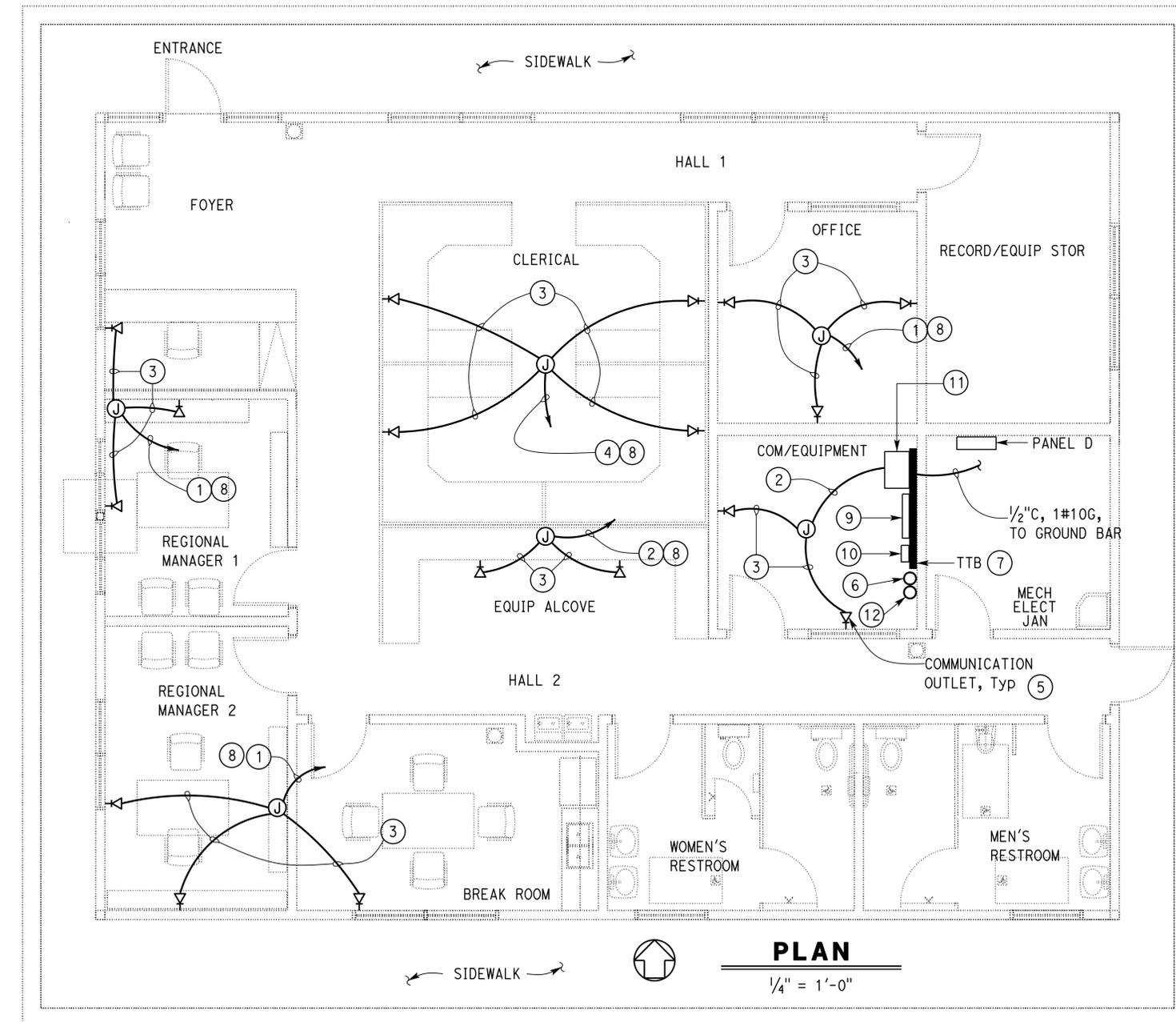
Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Sbd	L5726		62	72

Jipinderpal Kaur
 REGISTERED ELECTRICAL ENGINEER DATE 03-05-15

2-16-16
 PLANS APPROVAL DATE

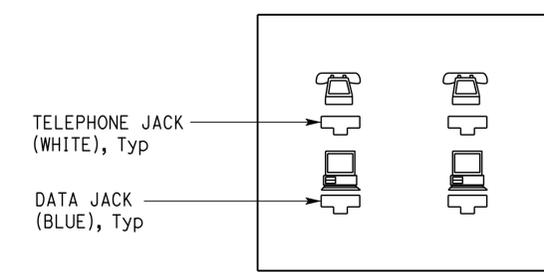
Jipinderpal Kaur
 REGISTERED PROFESSIONAL ENGINEER
 No. E 21098
 Exp. 3-31-17
 ELEC
 STATE OF CALIFORNIA

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NOTES:

- ① 2" C, 6 data cables, 6 voice cables.
- ② 1" C, 4 data cables, 4 voice cables.
- ③ 1" C, 2 data cable, 2 voice cable.
- ④ 2" C, 8 data cables, 8 voice cables.
- ⑤ Each Communication outlet must consist of 2 voice and 2 data jacks. See Detail 1 on this sheet.
- ⑥ 4" C, PVC, 25-pair telephone cable to Communication pull box #8. For continuation, see site plan on sheet EE0-2.
- ⑦ Telephone Terminal Board must be at least 6' wide x 8' high x 3/4" thick fire-rated plywood backing board.
- ⑧ To voice and data patch panels in COM/EQUIPMENT Room 108. Route cables unspliced between communication outlets and appropriate patch panels.
- ⑨ 50-pair, plywood backboard mount 110-style wiring blocks. Provide all the required mounting hardware for wiring blocks as recommended by the manufacturer.
- ⑩ Wall mounted, 24-port fiber patch panel enclosure.
- ⑪ Communication rack enclosure cabinet must be lockable, with ventilated front door, with top and bottom panel cable access openings, with adjustable rackmount rails and mounting depths, 8 unit high wall mounted enclosure cabinet. Install data and voice patch panel inside the enclosure.
- ⑫ 4" C, PVC, 2 data cables to Communication pull box #8. For continuation, see site plan on sheet EE0-2.



**COMMUNICATION OUTLET
 FACE PLATE DETAIL**

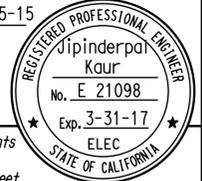
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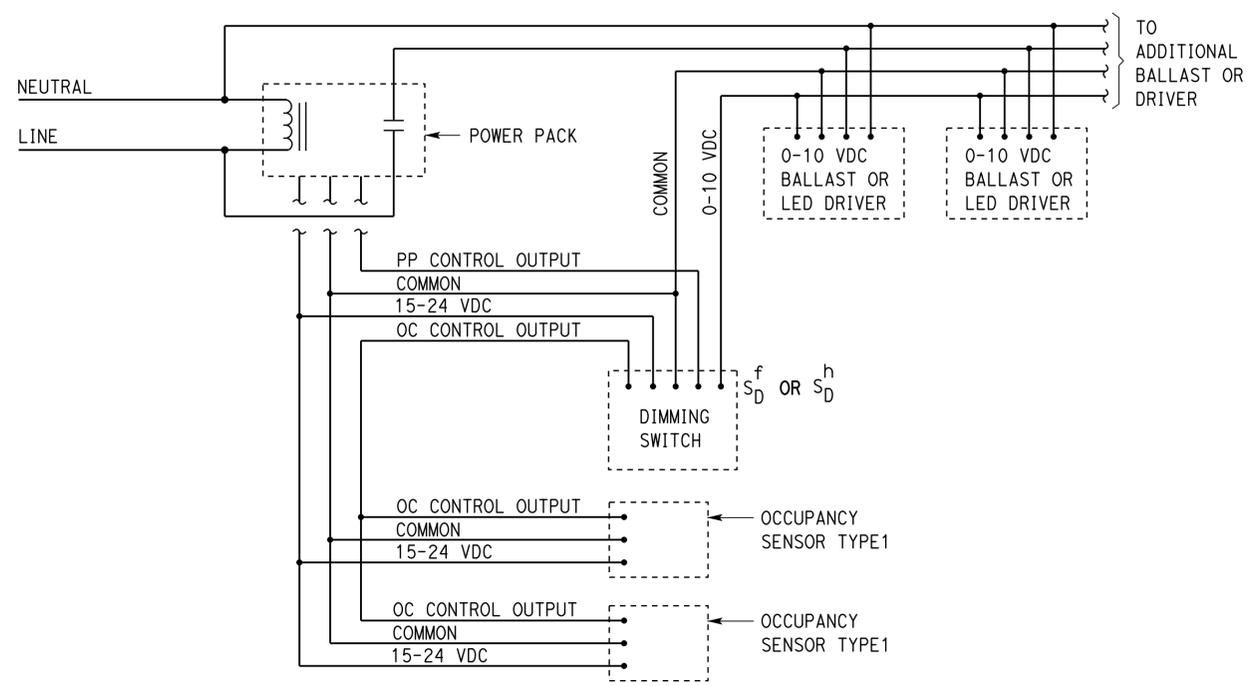
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					POST MILE L5726		COMMUNICATION PLAN
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3			UNIT: 3597 CONTRACT No.: 08-0K844 PROJECT NUMBER & PHASE: 08140000731	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF	
TAEWW Imperial - CCSC Rev. 01/13					6-2-14 03-05-15	7	10

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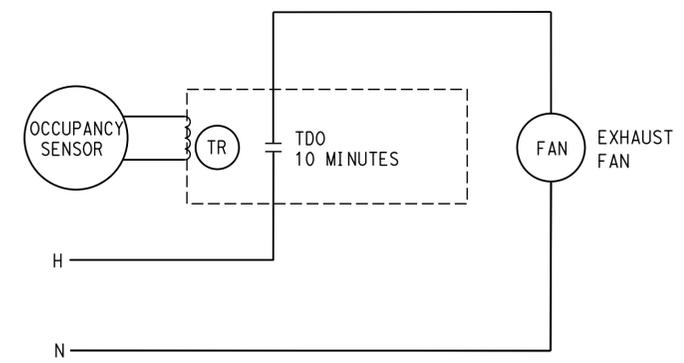
Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Sbd	L5726		63	72
<i>Jipinderpal Kaur</i> REGISTERED ELECTRICAL ENGINEER			03-05-15	DATE	
PLANS APPROVAL DATE					
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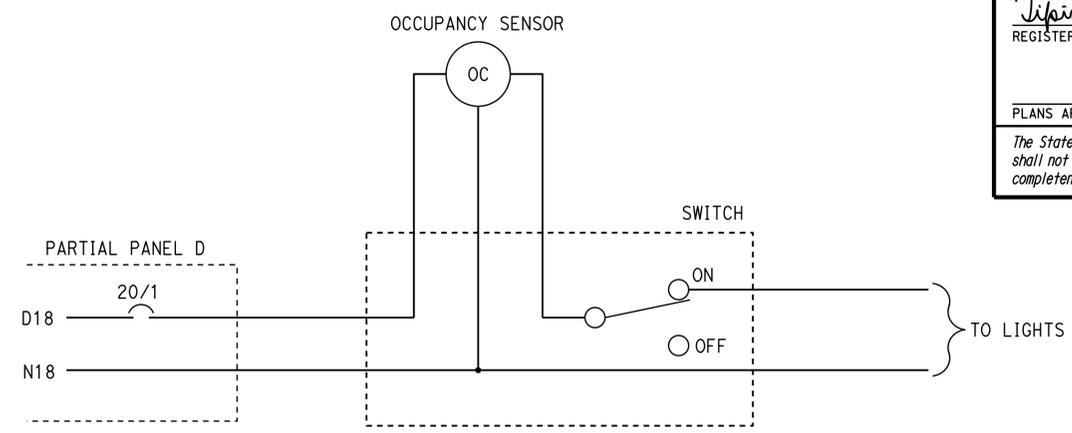
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 Reviewed by: *[Signature]*
 BRAD GOODRICH
 Approval date: 6/30/15
 CSFM File No. 01-36-11-0054



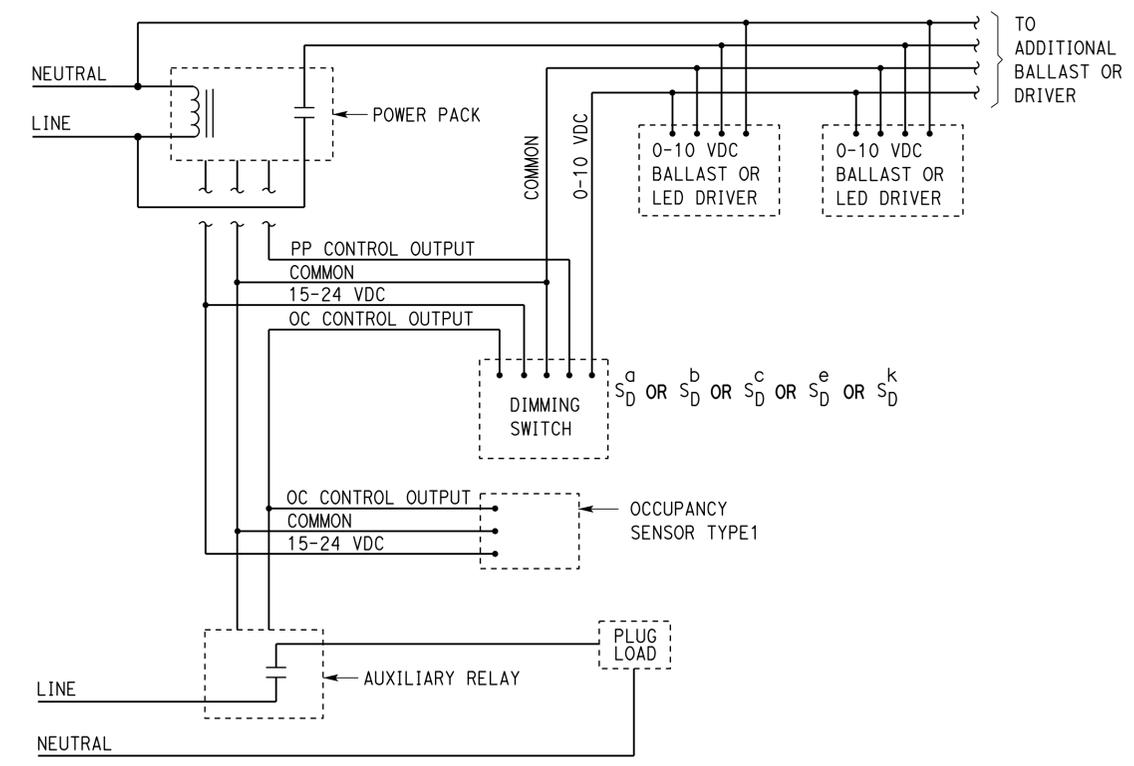
1 MULTIPLE CEILING MOUNTED OCCUPANCY SENSOR TYPE 1 AND DIMMING SWITCH WITH LIGHTING LOAD WIRING DIAGRAM



2 FAN/SENSOR WIRING DIAGRAM



4 SINGLE POLE SWITCH SCHEMATIC DIAGRAM



3 CEILING MOUNTED OCCUPANCY SENSOR TYPE 1 AND DIMMING SWITCH WITH LIGHTING AND PLUG LOAD WIRING DIAGRAM

DESIGN	BY	Jipinderpal Kaur	CHECKED	Javid Amirazodi	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No.	54M5726	SAN BERNARDINO MAINTENANCE STATION OFFICE BUILDING DETAILS 1	SHEET	OF	
	DETAILS	BY	Ed D. Tapalla	CHECKED			Jipinderpal Kaur	POST MILE		L5726	8	10
	QUANTITIES	BY	Jipinderpal Kaur	CHECKED			Javid Amirazodi	UNIT: 3597		CONTRACT No.: 08-0K844	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS: 0 1 2 3

PROJECT NUMBER & PHASE: 08140000731

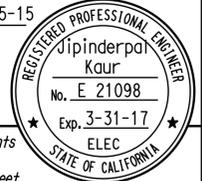
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Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Sbd	L5726		65	72

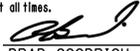
Jipinderpal Kaur 03-05-15
REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE _____

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OFFICE OF THE STATE FIRE MARSHAL
APPROVED FIRE AND PANIC ONLY
Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.

Reviewed by: 
BRAD GOODRICH
Approval date: 6/30/15

CSEW File No. 01-36-11-0054

LIGHTNG CONTROL PROGRAM SCHEDULE		
ROOM NAME	MULTI-LEVEL CONTROL	SHUT-OFF CONTROL
BREAK ROOM	MANUAL DIMMING (0-100%) THROUGH THE WALL SWITCH	MANUAL-ON OR OFF BY WALL SWITCH. AUTOMATIC-OFF BY OCCUPANCY SENSOR AFTER 15 MINUTES TIME DELAY.
REGIONAL MANAGER 1&2 AND OFFICE	MANUAL DIMMING (0-100%) THROUGH THE WALL SWITCH	MANUAL-ON OR OFF BY WALL SWITCH. AUTOMATIC-OFF BY OCCUPANCY SENSOR AFTER 15 MINUTES TIME DELAY.
MEN AND WOMEN RESTROOMS	NONE	AUTO-ON BY OCCUPANCY SENSOR. AUTOMATIC-OFF BY OCCUPANCY SENSOR AFTER 30 MINUTE TIME DELAY.
HALLWAYS	MANUAL DIMMING (0-100%) OVERRIDE THRU THE WALL SWITCH	MANUAL-ON OR OFF BY WALL SWITCH. AUTOMATIC-OFF BY OCCUPANCY SENSOR AFTER 15 MINUTES TIME DELAY.
RECORD /EQUIP STOR/ COM/EQUIPMENT MECH/ELEC/JAN	NONE	AUTO-ON BY OCCUPANCY SENSOR. AUTOMATIC-OFF BY OCCUPANCY SENSOR AFTER 30 MINUTE TIME DELAY.

DESIGN	BY	Jipinderpal Kaur	CHECKED	Javid Amirazodi	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No.	54M5726	SAN BERNARDINO MAINTENANCE STATION OFFICE BUILDING LIGHTING CONTROL PROGEAM SCHEDULE	SHEET OF	10 10	
	DETAILS	BY	Carol Christian	CHECKED			Jipinderpal Kaur	POST MILE				L5726
	QUANTITIES	BY	Jipinderpal Kaur	CHECKED			Javid Amirazodi					

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS: 0 1 2 3

UNIT: 3597 CONTRACT No.: 08-0K844 PROJECT NUMBER & PHASE: 08140000731

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY): 3-5-15

TAEWW Imperial - CCSC Rev. 01/13

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17-FEB-2016 09:13

ABBREVIATIONS

A	AIR	In	INCH	WW	WASTEWATER
AB	AGGREGATE BASE	JB	JUNCTION BOX	W/O	WITHOUT
Arch	ARCHITECTURAL	kW	KILOWATT	WP	WATER PIPE
B	BUNG	L	LENGTH	WSP	WELDED STEEL PIPE
Bldg	BUILDING	Lb	POUND		
C	CONDUIT	LIS	LANDSCAPE IRRIGATION		
C-C	CENTER TO CENTER	Lt	LEFT		
Cfs	CUBIC FEET PER SECOND	Max	MAXIMUM		
CI	CAST IRON	MBV	MOTORIZED BALL VALVE		
CL	CHAIN LINK	Mech	MECHANICAL		
CMP	CORRUGATED METAL PIPE	MH	MANHOLE		
Conc	CONCRETE	MEMB	MEMBRANE		
CO	CLEANOUT	Min	MINIMUM		
COTF	CLEANOUT TO FLOOR	(N)	NEW		
COTG	CLEANOUT TO GRADE	N	NORTH		
Cplg	COUPLING	NB	NORTHBOUND		
CW	COLD WATER PIPE	NIC	NOT IN CONTRACT		
D	DRAIN / OR DEPTH	No	NUMBER		
DI	DRAIN INLET	NTS	NOT TO SCALE		
Dia	DIAMETER	OC	ON CENTER		
DP	DRAIN PIPE	OD	OUTSIDE DIAMETER		
Elect	ELECTRICAL	OG	ORIGINAL GROUND		
(E)	EXISTING	P	PITCH		
Ea	EACH	PCC	PORTLAND CEMENT CONCRETE		
EB	EASTBOUND	PH	PHASE		
EEWS	EMERGENCY EYE WASH SHOWER	PRV	PRESSURE REDUCING VALVE		
Elev	ELEVATION	PVC	POLYVINYL CHLORIDE		
EP	EDGE OF PAVEMENT	R	RADIUS		
EPDM	ETHYLENE PROPYLENE DIMONOMER PIPE	RCP	REINFORCED CONCRETE PIPE		
Eq	EQUAL	Req	REQUIRED		
FD	FLOOR DRAIN	RPM	REVOLUTIONS PER MINUTE		
FOB	FACE OF BUILDING	RPBP	REDUCED PRESSURE BACK FLOW PREVENTER		
FF	FINISH FLOOR	RPU	RECYCLE PROCESS UNIT		
FG	FINISH GRADE	RT	RIGHT		
FL	FLOW LINE	RV	RELIEF VALVE		
FM	FORCE MAIN	R/W	RIGHT-OF-WAY		
FOC	FACE OF CONCRETE	S	SLOPE		
FLS	FLOW SWITCH	SB	SOUTHBOUND		
Ft	FEET	Sch	SCHEDULE		
FTR	FLUE THROUGH ROOF	SD	STORM DRAIN		
Ga	GAUGE	SDS	SANITARY DUMP STATION		
GAC	GRANULAR ACTIVATED CARBON	SP	SEWAGE PIPE		
Gal	GALLON	Sq	SQUARE		
GPM	GALLONS PER MINUTE	SST	STAINLESS STEEL		
Galv	GALVANIZED	Sta	STATION		
GSP	GALVANIZED STEEL PIPE	STD	STANDARD BENCH MARK		
GV	GATE VALVE	Struc	STRUCTURAL		
GS	GOVERNMENT SERVICE LINE	TBM	TEMPORARY BENCH MARK		
H	HEIGHT	TOC	TOP OF CONCRETE		
H/C	HOT WATER CLEANER	ToT	TOTAL		
HF	HOSE FAUCET	Typ	TYPICAL		
HMA	HOT MIX ASPHALT	VAC	VOLTAGE ALTERNATING CURRENT		
HP	HORSEPOWER	VCP	VITRIFIED CLAY PIPE		
ID	INSIDE DIAMETER	W	WATER		
IE	INVERT ELEVATION (IN FEET)	WB	WESTBOUND		

LEGEND

	FENCE		DETAIL SHEET NUMBER
	SURFACE DRAINAGE	99.00	NEW GRADE IN FEET
	ABANDON	X (100.00)	EXISTING SPOT GRADE IN FEET
	SANITARY SEWER		SURFACE DRAINAGE
	DRAIN		ABANDON (E)
	RETURN DRAIN		BENCHMARK ELEVATION
	VENT		SECTION / ELEVATION LETTER SHEET NUMBER
	WATER		TREE
	FORCE MAIN		DIRECTION OF TRAFFIC
	LEACH LINES		
	ELECTRICAL LINES		

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	L5726		66	72
<i>Terome R. Yantolo</i>		2-12-16			
REGISTERED CIVIL ENGINEER		DATE			
2-16-16		PLANS APPROVAL DATE			
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.					

ACCESSIBILITY DESIGN APPROVAL STAMP DOT / DES / OTA PROJECT ID 0814000073 Reviewed by: <i>Y. A. Wang</i> Date: 5-28-2015	OFFICE OF THE STATE FIRE MARSHAL APPROVED FIRE AND PANIC ONLY Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times. Reviewed by: <i>Brad Goodrich</i> Approval date: 6/30/15 CSFM File No. 01-36-11-0054
---	--

PIPE FITTINGS AND VALVES

	EMERGENCY EYE WASH & SHOWER
	FLOW METER
	SOLENOID VALVE
	CAP, THREADED
	ELBOW, TURNED DOWN
	FLEXIBLE CONNECTOR
	REDUCER, CONCENTRIC
	REDUCER, ECCENTRIC
	PRESSURE GAUGE (WITH VALVE AND SNUBBER)
	UNION
	UNION, INSULATING
	VALVE, BALL
	VALVE, CHECK
	VALVE, GATE
	VALVE, SAFETY RELIEF
	VALVE, PRESSURE REDUCING
	WATER METER
	HOSE FAUCET

GENERAL WORK NOTES

- The Contractor must verify all controlling field dimensions and conditions before ordering or fabricating any materials.
- The Contractor must verify exact location of all underground facilities and utilities prior to start of construction.
- No 90 degree bends allowed on drain or sewage pipe. Where 90 degree bends are shown, use two 45 degree bends.

SYMBOLS

	PLATE
	CENTER LINE
	DIAMETER

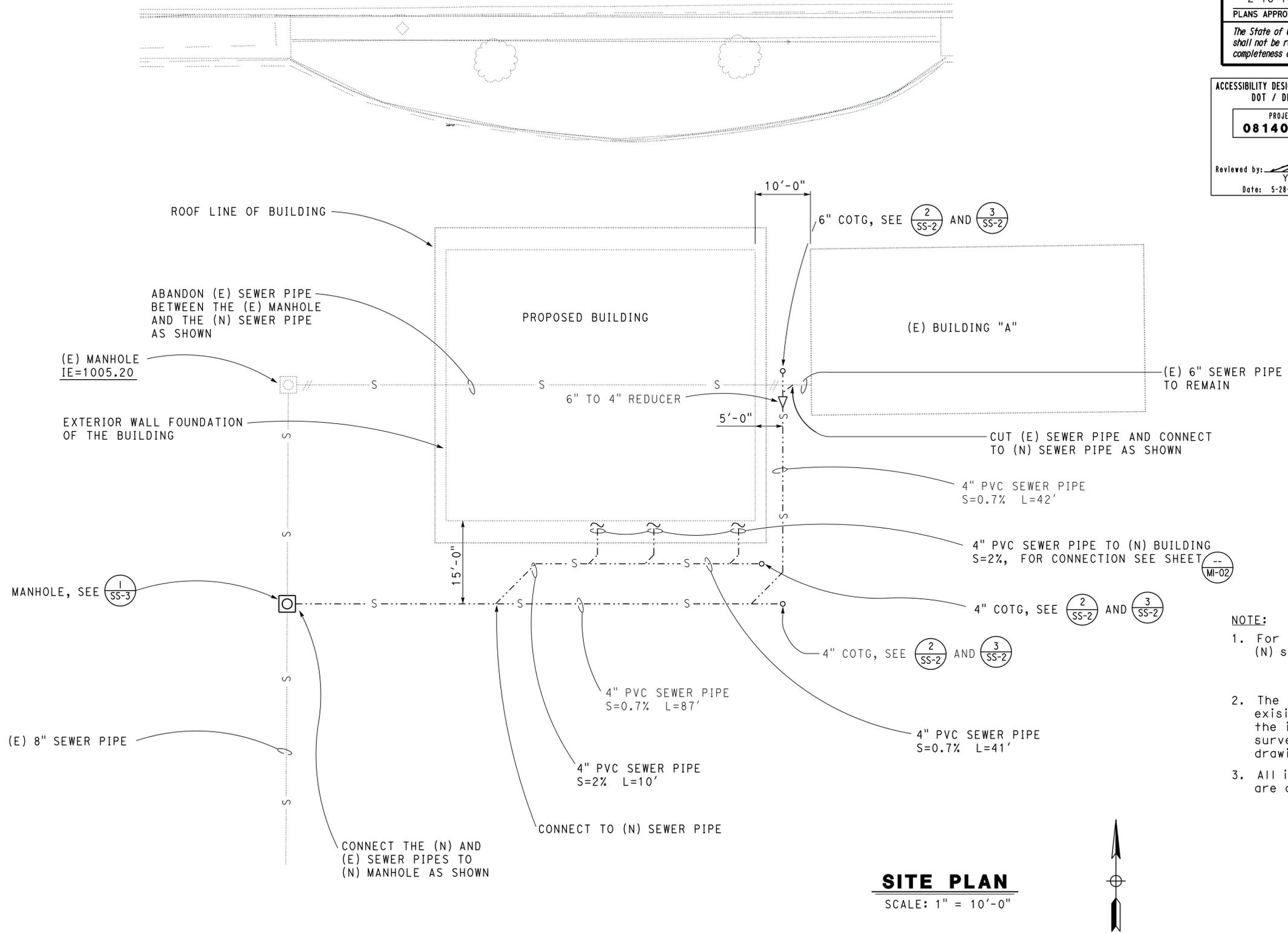
DESIGN BY Ali Moradi	CHECKED Gerhard Panuschka	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No.	SAN BERNARDINO MAINTENANCE STATION NOTES, LEGEND AND ABBREVIATIONS	SHEET
				POST MILE		OF
DETAILS BY Cynthia Pierce	CHECKED Gerhard Panuschka	UNIT: 3616 CONTRACT No.: 08-000004	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	2-12-16	
QUANTITIES BY Ali Moradi	CHECKED Gerhard Panuschka	PROJECT NUMBER & PHASE: 08140000731				
TAEWW Imperial - CCSC Rev. 02/13		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	P:\dist_08\0814000073_san_bernardino_ms_office\expedite\QA_Reviewed\ss_0.dgn		17-FEB-2016 09:13

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	L5726		67	72

Jerome R. Marcotte 2-12-16
 REGISTERED CIVIL ENGINEER DATE
 2-16-16
 PLANS APPROVAL DATE
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REGISTERED PROFESSIONAL ENGINEER
 J. Marcotte
 No. C36844
 Exp. 06-30-16
 CIVIL
 STATE OF CALIFORNIA

ACCESSIBILITY DESIGN APPROVAL STAMP DOT / DES / OTA PROJECT ID 0814000073 Reviewed by: <i>Y. A. Wang</i> Y. A. WANG Date: 5-28-2015	OFFICE OF THE STATE FIRE MARSHAL APPROVED FIRE AND PANIC ONLY Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times. Reviewed by: <i>Brad Goodrich</i> BRAD GOODRICH Approval date: 6/30/15 CSFM File No. 01-36-11-0054
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- NOTE:
- For construction of the underground (N) sewer pipes, see (1) SS-2
 - The location and elevations of the existing sewer system are based on the information obtained from the survey drawings and the as-built drawings dated 08-12-1953.
 - All items are new and existing items are called out by letter (E).

"THIS PLAN ACCURATE FOR SANITARY SEWER WORK ONLY"

DESIGN SUPERVISOR <i>Jerome R. Marcotte</i> DESIGN ENGINEER	DESIGN BY Ali Moradi	CHECKED Gerhard Panuschka	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No.	SAN BERNARDINO MAINTENANCE STATION SEWER PLAN	SHEET
	DETAILS BY Cynthia Pierce	CHECKED Gerhard Panuschka			POST MILE		OF
	QUANTITIES BY Ali Moradi	CHECKED Gerhard Panuschka					
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS			UNIT: 3616 CONTRACT No.: 08-000004 PROJECT NUMBER & PHASE: 0814000073		DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY)
0 1 2 3					2-12-16		

TAEWW Imperial - CCSC Rev. 02/13

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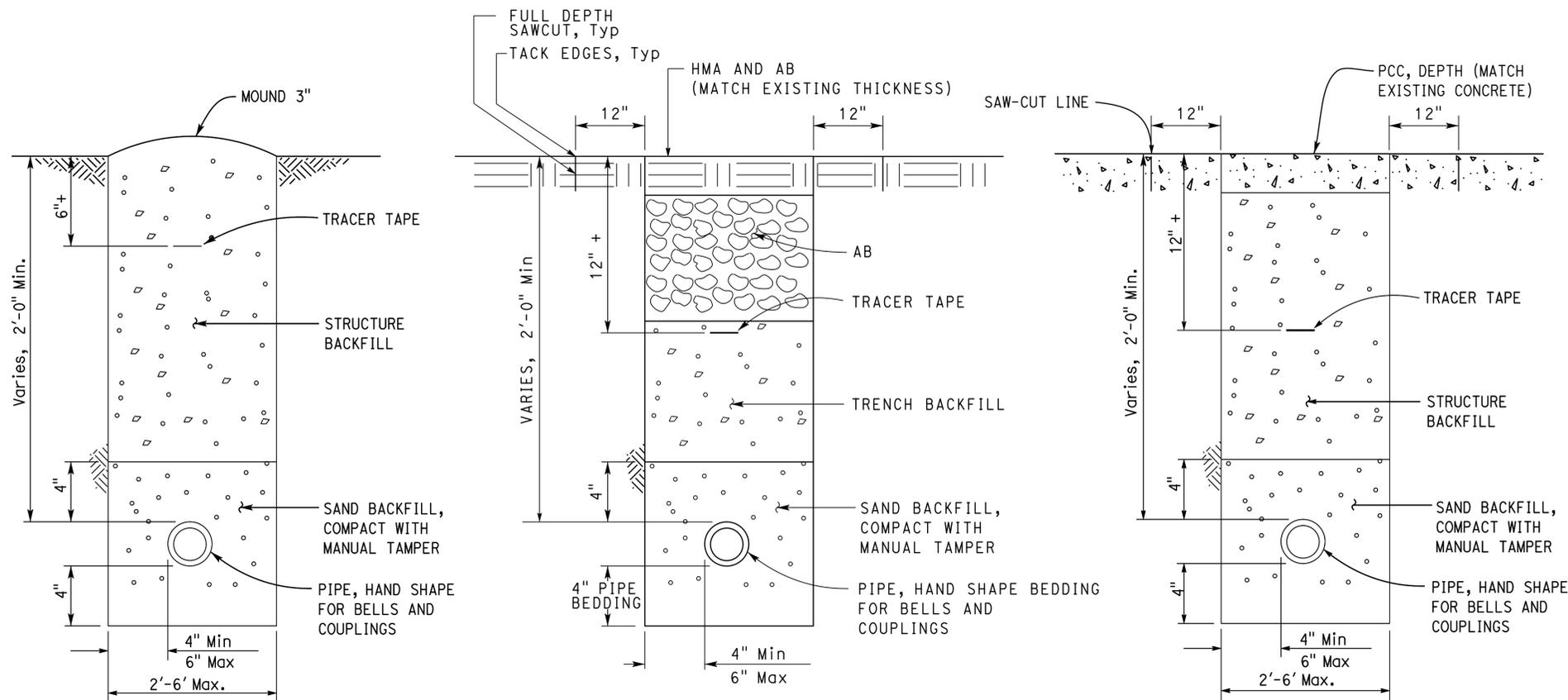
Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	L5726		68	72

<i>Terone R. Marcotte</i>	2-12-16
REGISTERED CIVIL ENGINEER	DATE
2-16-16	
PLANS APPROVAL DATE	

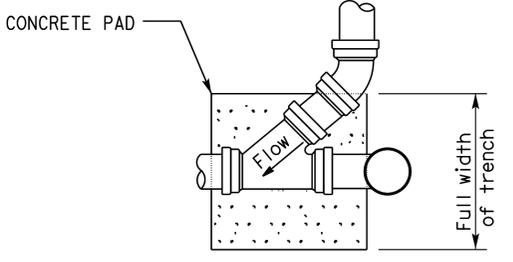
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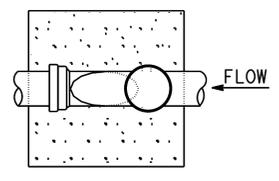
ACCESSIBILITY DESIGN APPROVAL STAMP DOT / DES / OTA	OFFICE OF THE STATE FIRE MARSHAL APPROVED FIRE AND PANIC ONLY
PROJECT ID 0814000073	Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.
Reviewed by: <i>Y. A. Wang</i> Y. A. WANG Date: 5-28-2015	Reviewed by: <i>Brad Goodrich</i> BRAD GOODRICH Approval date: 6/30/15
	CSFM File No. 01-36-11-0054



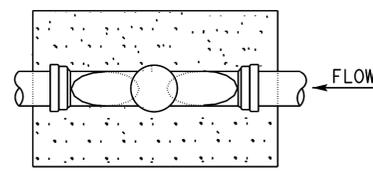
1 UNDERGROUND DRAIN/SEWER/WATER PIPE
NO SCALE



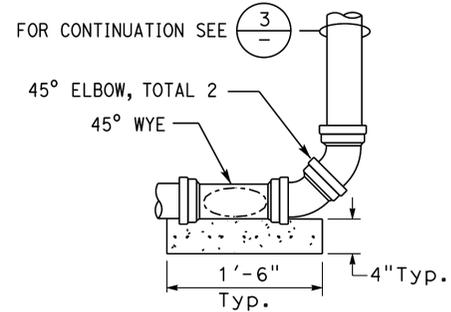
PLAN



PLAN

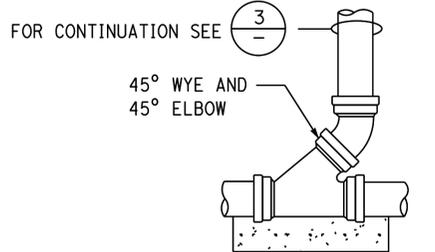


PLAN



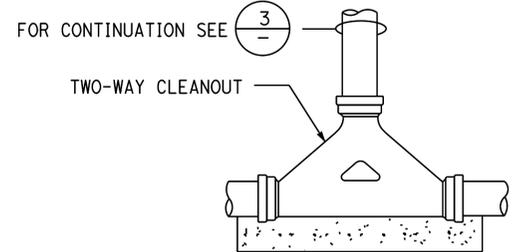
ELEVATION

CLEANOUT (AT BEND)



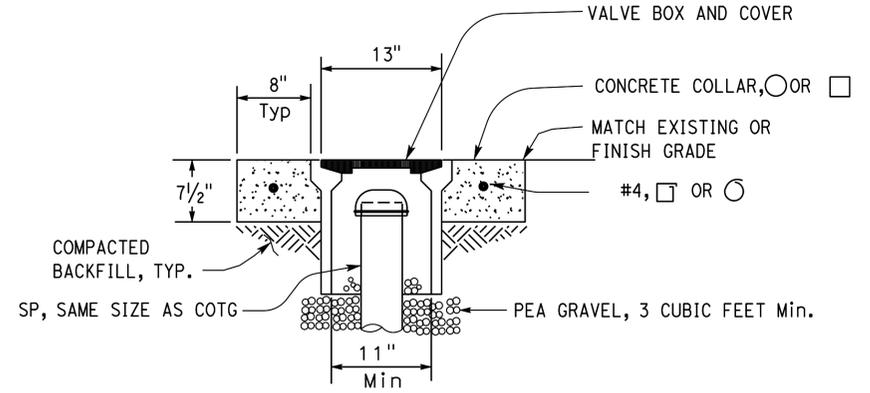
ELEVATION

CLEANOUT (STANDARD)



ELEVATION

TWO-WAY CLEANOUT



3 COTG ACCESS BOX
NO SCALE

NOTE:
CONCRETE PAD SHOWN TYPICAL FOR ALL CLEANOUTS

2 CLEANOUT TO GRADE - GRAVITY
NO SCALE

DESIGN BY Ali Moradi	CHECKED Gerhard Panuschka	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No.	SAN BERNARDINO MAINTENANCE STATION DETAILS	SHEET
DETAILS BY Cynthia Pierce	CHECKED Gerhard Panuschka		POST MILE			SS-2
QUANTITIES BY Ali Moradi	CHECKED Gerhard Panuschka					
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS			UNIT: 3616 CONTRACT No.: 08-000004 PROJECT NUMBER & PHASE: 0814000073	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF
TAEEMWW Imperial - CCSC Rev. 02/13					2-12-16	17-FEB-2016 09:13

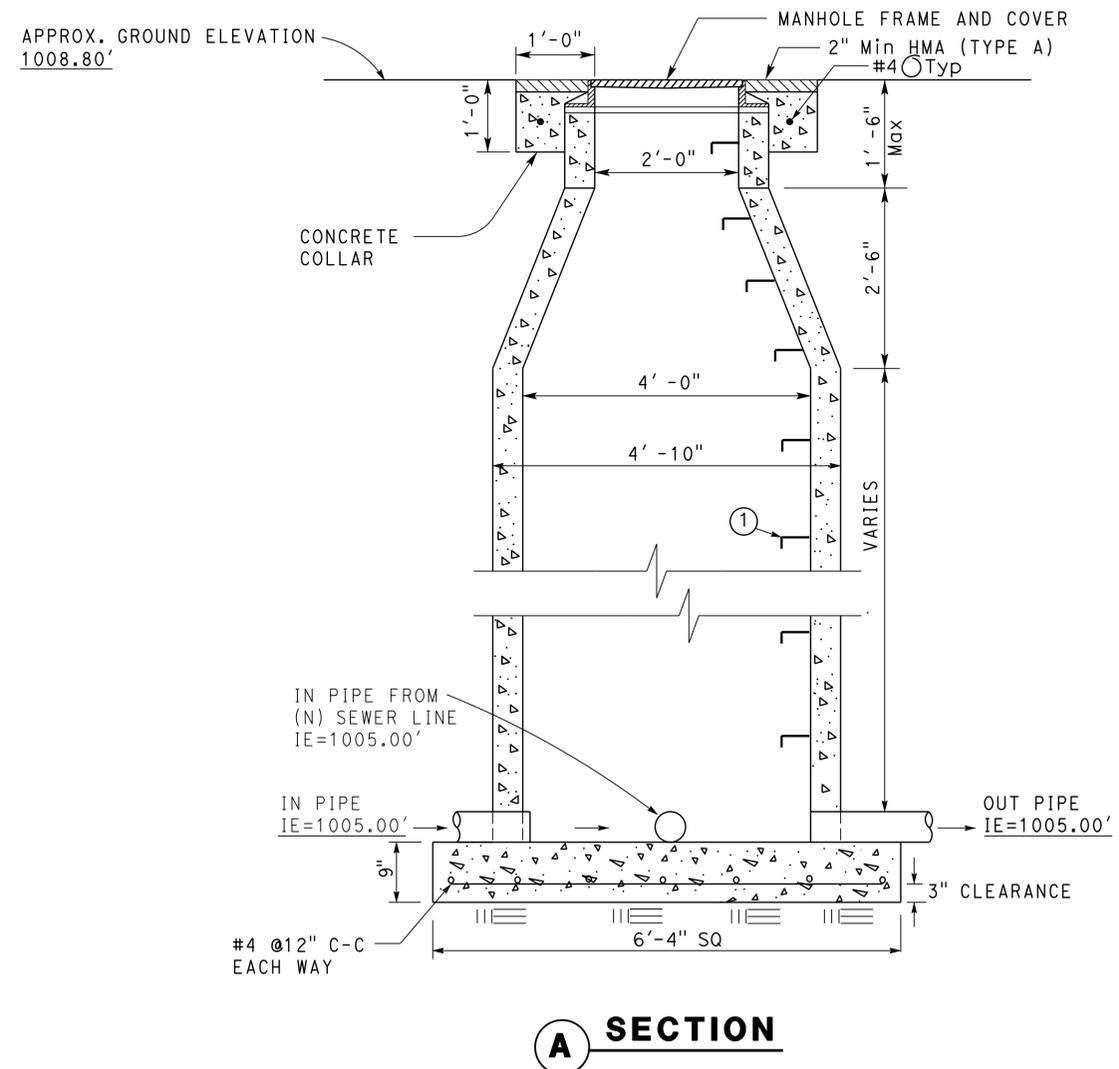
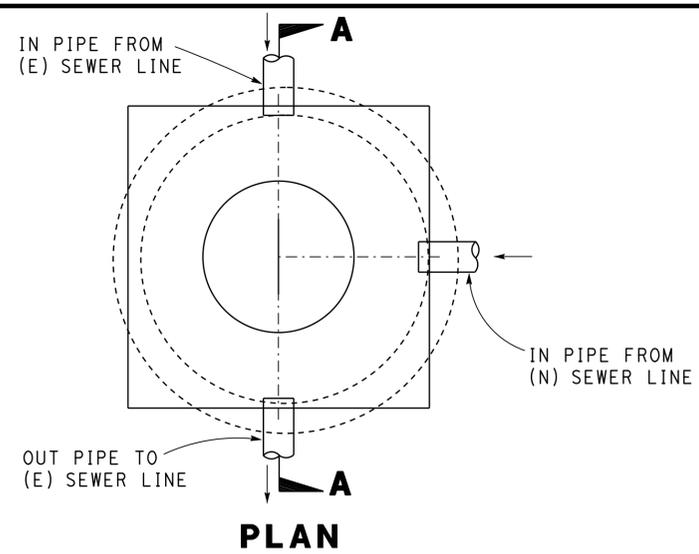
Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	L5726		69	72

Jerome R. Marcotte 2-12-16
 REGISTERED CIVIL ENGINEER DATE
 2-16-16
 PLANS APPROVAL DATE
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ACCESSIBILITY DESIGN APPROVAL STAMP
 DOT / DES / OTA
 PROJECT ID
0814000073
 Reviewed by: *Y. A. Wang*
 Y. A. WANG
 Date: 5-28-2015

OFFICE OF THE STATE FIRE MARSHAL APPROVED FIRE AND PANIC ONLY
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 BRAD GOODRICH
 Approval date: 6/30/15
 CSFM File No. 01-36-11-0054



1 SANITARY SEWER MANHOLE
NO SCALE

NOTE:
 ① For manholes or distribution boxes more than 5'-0" in depth, provide polypropylene safety steps.

"THIS PLAN ACCURATE FOR SANITARY SEWER WORK ONLY"

APPROVED FOR SANITARY WORK ONLY

DESIGN	BY Ali Moradi	CHECKED Gerhard Panuschka	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No.	SAN BERNARDINO MAINTENANCE STATION	SHEET SS-3
	DETAILS	BY Cynthia Pierce			CHECKED Gerhard Panuschka		
QUANTITIES	BY Ali Moradi	CHECKED Gerhard Panuschka	UNIT: 3616 CONTRACT No.: 08-000004 PROJECT NUMBER & PHASE: 0814000073	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF	

ABBREVIATIONS

A	AIR	In	INCH	WW	WASTEWATER
AB	AGGREGATE BASE	JB	JUNCTION BOX	W/O	WITHOUT
Arch	ARCHITECTURAL	kW	KILOWATT	WP	WATER PIPE
B	BUNG	L	LENGTH	WSP	WELDED STEEL PIPE
Bldg	BUILDING	Lb	POUND		
C	CONDUIT	LIS	LANDSCAPE IRRIGATION		
C-C	CENTER TO CENTER	Lt	LEFT		
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COTG	CLEANOUT TO GRADE	N	NORTH		
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HMA	HOT MIX ASPHALT	VAC	VOLTAGE ALTERNATING CURRENT		
HP	HORSEPOWER	VCP	VITRIFIED CLAY PIPE		
ID	INSIDE DIAMETER	W	WATER		
IE	INVERT ELEVATION (IN FEET)	WB	WESTBOUND		

LEGEND

	FENCE		DETAIL SHEET NUMBER
	SURFACE DRAINAGE	99.00	NEW GRADE IN FEET
	ABANDON	X (100.00)	EXISTING SPOT GRADE IN FEET
	SANITARY SEWER		SURFACE DRAINAGE
	DRAIN		ABANDON (E)
	RETURN DRAIN		BENCHMARK ELEVATION
	VENT		SECTION / ELEVATION LETTER SHEET NUMBER
	WATER		TREE
	FORCE MAIN		DIRECTION OF TRAFFIC
	LEACH LINES		
	ELECTRICAL LINES		

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	L5726		70	72
 REGISTERED CIVIL ENGINEER			2-12-16 DATE		
2-16-16 PLANS APPROVAL DATE					
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ACCESSIBILITY DESIGN APPROVAL STAMP DOT / DES / OTA PROJECT ID 0814000073	OFFICE OF THE STATE FIRE MARSHAL APPROVED FIRE AND PANIC ONLY Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.
Reviewed by: Y. A. WANG Date: 5-28-2015	Reviewed by: BRAD GOODRICH Approval date: 6/30/15
CSFM File No. 01-36-11-0054	

GENERAL WORK NOTES

- The Contractor must verify all controlling field dimensions and conditions before ordering or fabricating any materials.
- The Contractor must verify exact location of all underground facilities and utilities prior to start of construction.
- No 90 degree bends allowed on drain or sewer pipe. Where 90 degree bends are shown, use two 45 degree bends

SYMBOLS

	PLATE
	CENTER LINE
	DIAMETER

PIPE FITTINGS AND VALVES

	EMERGENCY EYE WASH & SHOWER
	FLOW METER
	SOLENOID VALVE
	CAP, THREADED
	ELBOW, TURNED DOWN
	FLEXIBLE CONNECTOR
	REDUCER, CONCENTRIC
	REDUCER, ECCENTRIC
	PRESSURE GAUGE (WITH VALVE AND SNUBBER)
	UNION
	UNION, INSULATING
	VALVE, BALL
	VALVE, CHECK
	VALVE, GATE
	VALVE, SAFETY RELIEF
	VALVE, PRESSURE REDUCING
	WATER METER
	HOSE FAUCET

WATER LINES AND FORCE MAINS

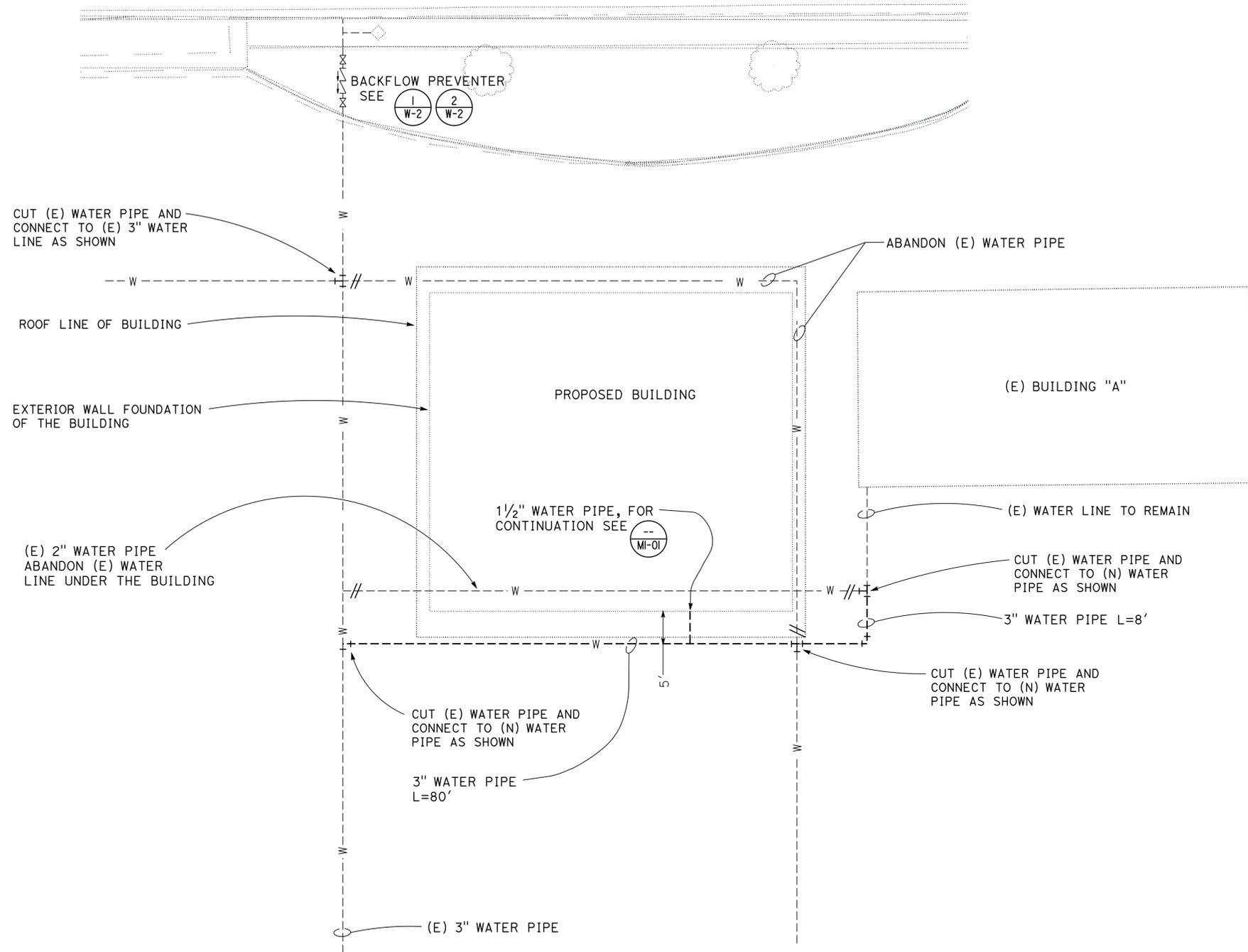
Type of Fitting	90° Bend	45° Bend	11 1/4° or 22 1/2° Bend	Tee or Dead end	Cross w/plug	Tee w/plug
Typical Installation						

THRUST BLOCK BEARING AREA (SQ. FT.)

Type of Fitting	90° Bend	45° Bend	11 1/4° or 22 1/2° Bend	Tee or Dead end	Tee w/ Plug	Cross w/ plug
Size of Pipe	4"	2	1	1	2	2
	6"	4	4	2	4	4
	8"	7	4	2	5	7
	10"	12	6	3	8	12
	12"	16	10	5	12	16
	14"	20	12	6	14	20
	16"	27	15	8	18	27
	18"	45	25	13	32	45
	24"	65	35	18	46	65

DESIGN BY Ali Moradi	CHECKED Gerhard Panuschka	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No.	SAN BERNARDINO MAINTENANCE STATION NOTES, LEGENDS & ABBREVIATIONS	SHEET W-0
DETAILS BY Cynthia Pierce	CHECKED Gerhard Panuschka			POST MILE		
QUANTITIES BY Ali Moradi	CHECKED Gerhard Panuschka					
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		0 1 2 3	UNIT: 3616 CONTRACT No.: 08-000004 PROJECT NUMBER & PHASE: 0814000073	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF
TAEWW Imperial - CCSC Rev. 02/13				2-12-16		

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	L5726		71	72
<i>Jerome R. Marcotte</i> REGISTERED CIVIL ENGINEER			2-12-16 DATE		
2-16-16 PLANS APPROVAL DATE			<i>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.</i>		



ACCESSIBILITY DESIGN APPROVAL STAMP DOT / DES / OTA PROJECT ID 0814000073	CALIFORNIA STATE FIRE MARSHAL APPROVED FIRE AND PANIC ONLY Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.
Reviewed by: <i>Y. A. WANG</i> Y. A. WANG Date: 5-28-2015	Reviewed by: <i>BRAD GOODRICH</i> BRAD GOODRICH Approval date: 6/30/15
CSFM File No. 01-36-11-0054	

NOTE:
 1. For construction of the underground (N) water pipes, see (1) SS-2

SITE PLAN
 SCALE: 1" = 10'-0"

"THIS PLAN ACCURATE FOR SANITARY SEWER WORK ONLY"

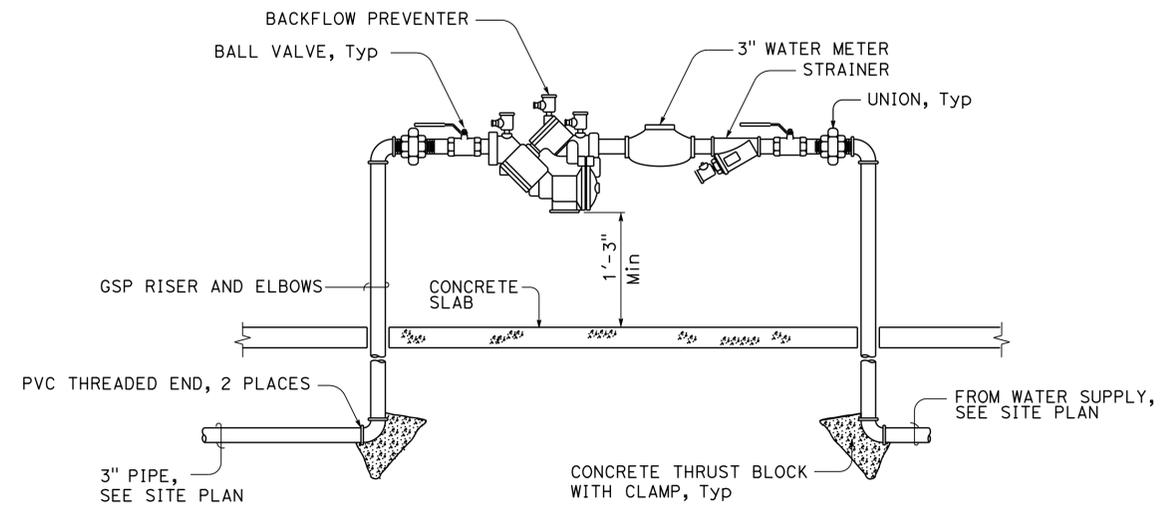
DESIGN SUPERVISOR <i>Jerome R. Marcotte</i> DESIGN ENGINEER	DESIGN BY Ali Moradi	CHECKED Gerhard Panuschka	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No.	SAN BERNARDINO MAINTENANCE STATION	SHEET W-1
	DETAILS BY Cynthia Pierce	CHECKED Gerhard Panuschka			POST MILE		
	QUANTITIES BY Ali Moradi	CHECKED Gerhard Panuschka			SITE PLAN		
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS			UNIT: 3616 CONTRACT No.: 08-000004 PROJECT NUMBER & PHASE: 08140000731		DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY) 2-12-16

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	L5726		72	72

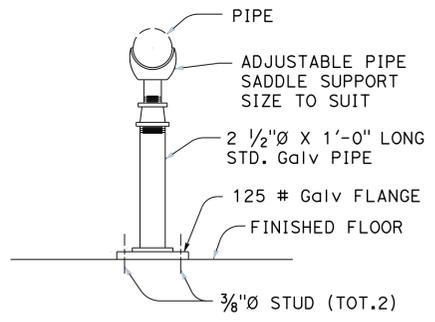
Jerome R. Marcotte
 REGISTERED CIVIL ENGINEER 2-12-16
 DATE
 2-16-16
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 J. Marcotte
 No. C36844
 Exp. 06-30-16
 CIVIL
 STATE OF CALIFORNIA

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.



1 WATER METER/BACKFLOW PREVENTER ASSEMBLY
NO SCALE



2 PIPE SUPPORT
NO SCALE

NOTE :
 All fasteners to concrete shall be expansion anchorage devices with galvanized threaded stud, hex nut and flat washer. Size of studs shown.

ACCESSIBILITY DESIGN APPROVAL STAMP
 DOT / DES / OTA
 PROJECT ID
0814000073

Reviewed by: *Y. A. WANG*
 Y. A. WANG
 Date: 5-28-2015

Reviewed by: *BRAD GOODRICH*
 BRAD GOODRICH
 Approval date: 6/30/15

OFFICE OF THE STATE FIRE MARSHAL
APPROVED FIRE AND PANIC ONLY
 Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.

CSFM File No. 01-36-11-0054

"THIS PLAN ACCURATE FOR SANITARY SEWER WORK ONLY"

DESIGN	BY	Ali Moradi	CHECKED	Gerhard Panuschka	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE No.	SAN BERNARDINO MAINTENANCE STATION DETAILS	SHEET W-2
	DETAILS	BY	Cynthia Pierce	CHECKED			Gerhard Panuschka		
QUANTITIES	BY	Ali Moradi	CHECKED	Gerhard Panuschka	UNIT: 3616 CONTRACT No.: 08-000004 PROJECT NUMBER & PHASE: 08140000731	DISREGARD PRINTS BEARING EARLIER REVISION DATES	2-12-16	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS: 0 1 2 3

TAEWW Imperial - CCSC Rev. 02/13

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17-FEB-2016 09:13