

GENERAL NOTES:

I. GENERAL

- MATERIALS AND WORKMANSHIP TO CONFORM WITH THE 2012 EDITION OF THE INTERNATIONAL BUILDING CODE, WITH TITLE 24 AND THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.
- THESE GENERAL NOTES SUPPLEMENT THE REQUIREMENTS OF THE PROJECT SPECIFICATIONS. IN CASE OF CONFLICT BETWEEN THE PLANS AND SPECIFICATIONS, CONTACT THE RESIDENT ENGINEER.
- VERIFY ALL DIMENSIONS, ELEVATIONS AND SITE CONDITIONS BEFORE STARTING WORK. NOTIFY RESIDENT ENGINEER OF DISCREPANCIES.
- REFER TO ARCHITECTURAL AND CIVIL DRAWINGS FOR SITE SLABS AND WALLS.
- DRAWINGS INDICATE GENERAL AND TYPICAL DETAILS OF CONSTRUCTION. WHERE CONDITIONS ARE NOT SPECIFICALLY INDICATED BUT ARE OF SIMILAR CHARACTER TO DETAILS SHOWN, USE SIMILAR DETAILS OF CONSTRUCTION, SUBJECT TO REVIEW BY THE RESIDENT ENGINEER.
- DETAILS ON SHEETS TITLED "TYPICAL DETAILS" APPLY TO SITUATIONS OCCURRING ON THE PROJECT THAT ARE THE SAME OR SIMILAR TO THOSE SPECIFICALLY REFERENCED. SUCH DETAILS ARE NOT NOTED AT EACH LOCATION THAT THEY OCCUR.
- THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE WORK OF ALL TRADES AND FOR CHECKING DIMENSIONS. NOTIFY THE RESIDENT ENGINEER OF ANY DISCREPANCIES AND RESOLVE BEFORE PROCEEDING WITH THE WORK.
- DO NOT SCALE THE DRAWINGS.
- INFORMATION SHOWN ON THE DRAWINGS RELATED TO EXISTING CONDITIONS REPRESENTS THE PRESENT KNOWLEDGE, BUT WITHOUT GUARANTEE OF ACCURACY. REPORT CONDITIONS THAT CONFLICT WITH THE CONTRACT DOCUMENTS TO THE ARCHITECT. DO NOT DEViate FROM THE CONTRACT DOCUMENTS WITHOUT WRITTEN DIRECTION FROM THE RESIDENT ENGINEER.
- REFER TO ARCHITECTURAL DRAWINGS FOR EDGE OF SLAB DIMENSIONS OF FLOOR AND ROOF OPENINGS. COORDINATE THE SIZE AND LOCATION OF OPENINGS ASSOCIATED WITH, BUT NOT LIMITED TO, ELECTRICAL, MECHANICAL, AND PLUMBING TRADES. SUBMIT FINAL SIZING AND LOCATION REQUIREMENTS OF OPENINGS TO THE ARCHITECT FOR REVIEW.
- THE CONTRACTOR IS SOLELY RESPONSIBLE FOR PROVIDING A SAFE PLACE TO WORK AND MEETING THE REQUIREMENTS OF ALL APPLICABLE JURISDICTIONS. EXECUTE WORK TO ENSURE THE SAFETY OF PERSONS AND ADJACENT PROPERTY AGAINST DAMAGE BY HAZARDOUS DISCONNECTION WITH THIS WORK.
- SEE ARCHITECTURAL DRAWING FOR SEISMIC JOINT COVERS. SEE DETAIL 8/S1402 AND PLANS FOR REQUIRED JOINT MOVEMENT.
- SEE ARCHITECTURAL DRAWINGS FOR EDGE OF SLAB DIMENSIONS.

II. CONSTRUCTION MEANS AND METHODS ENGINEERING (SHORING)

- CONTRACTOR TO PROVIDE MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION. SUCH MEASURES INCLUDE BUT ARE NOT LIMITED TO BRACING, UNDERPINNING, AND SHORING FOR LOADS DURING CONSTRUCTION. RETAIN CALIFORNIA REGISTERED CIVIL ENGINEER WHOM IS PROPERLY QUALIFIED TO DESIGN BRACING, UNDERPINNING, SHORING, ETC.
- PRIOR TO CONSTRUCTION SUBMIT SHORING DRAWINGS AND CALCULATIONS STAMPED AND SIGNED BY A CALIFORNIA REGISTERED CIVIL ENGINEER. IN ADDITION, SUBMIT A MONITORING PLAN, SEQUENCING, AND ANY LOADS TO BE IMPOSED ON THE STRUCTURE.
- MAINTAIN EXISTING GRADE A MINIMUM OF 20 FEET FROM THE EDGE OF EXISTING BUILDING FOUNDATIONS BEFORE STARTING EXCAVATIONS. EXCAVATION TO HAVE A MAX SLOPE OF 2H:1V.
- VISITS TO THE SITE BY THE STRUCTURAL ENGINEER OF RECORD WILL NOT INCLUDE OBSERVATION OF THE CONSTRUCTION MEANS AND METHODS SHORING.

III. FOUNDATION AND SITE WORK

- THE DESIGN OF THE FOUNDATION SYSTEM IS BASED UPON THE CRITERIA AND RECOMMENDATIONS CONTAINED IN THE GEOTECHNICAL INVESTIGATION REPORT ENTITLED "GEOLOGICAL AND GEOTECHNICAL INVESTIGATION COMMUNITY LIVING CENTER EXPANSION VETERANS AFFAIR MEDICAL CENTER FRESNO CA. AND DATED MARCH 4, 2013"
- GROUNDWATER ELEVATION IS ESTIMATED IN THE GEOTECHNICAL REPORT. PROVIDE SITE DE-WATERING AS REQUIRED.
- LOCATE AND PROTECT EXISTING UTILITIES TO REMAIN DURING AND/OR AFTER CONSTRUCTION.
- REMOVE ABANDONED FOOTINGS, UTILITIES, ETC. WHICH INTERFERE WITH NEW CONSTRUCTION, UNLESS OTHERWISE INDICATED.
- NOTIFY THE RESIDENT ENGINEER IF ANY BURIED STRUCTURES NOT INDICATED ARE FOUND.
- THE CONTRACTOR IS SOLELY RESPONSIBLE FOR EXCAVATION PROCEDURES INCLUDING LAGGING, SHORING, UNDERPINNING AND PROTECTION OF EXISTING CONSTRUCTION.
- REMOVE LOOSE SOIL AND STANDING WATER FROM FOUNDATION EXCAVATIONS PRIOR TO PLACING CONCRETE.
- EXCAVATIONS FOR FOUNDATIONS MUST BE ACCEPTED BY THE VA'S GEOTECHNICAL ENGINEER PRIOR TO PLACING REINFORCING AND CONCRETE. NOTIFY THE VA'S GEOTECHNICAL ENGINEER WHEN EXCAVATIONS ARE READY FOR INSPECTION.
- PLACE BACKFILL BEHIND RETAINING WALLS AFTER CONCRETE HAS ATTAINED FULL DESIGN STRENGTH. BRACE BUILDING AND PIT WALLS BELOW GRADE FROM LATERAL LOADS UNTIL ATTACHED FLOORS AND SLABS ON GRADE ARE COMPLETE AND HAVE ATTAINED FULL DESIGN STRENGTH.
- MECHANICALLY COMPACT EXCAVATION BACKFILLS IN LAYERS PER THE SPECIFICATIONS AND THE GEOTECHNICAL REPORT.

IV. FORMWORK

- PROVIDE POUR POCKETS IN FORMS AND UNDER EXISTING STRUCTURAL MEMBERS AS REQUIRED TO PREVENT AIR POCKETS AND/OR "HONEYCOMB" UNDER OR AROUND THE EXISTING MEMBERS. CONCRETE CAST WITH AIR POCKETS AND/OR "HONEYCOMB" UNDER OR AROUND THE MEMBERS IS NOT ACCEPTABLE.
- REMOVE FORMS AND SHORES IN ACCORDANCE WITH THE FOLLOWING:

LOCATION	REMOVE FORMS AND SHORES NO SOONER THAN
BOTTOM FORMS AND SHORES FOR MILDLY REINFORCED SLABS, BEAMS AND GIRDERS	3 DAYS AND MIN. 75% Fc
SIDE FORM FOR BEAMS AND GIRDERS	24 HOURS
COLUMNS AND WALLS	24 HOURS
FOOTINGS, PILE CAPS, AND GRADE BEAMS	24 HOURS
- PROVIDE CURING WHERE FORMS ARE REMOVED IN LESS THAN 7 DAYS, INCLUDING BUT NOT LIMITED TO WALLS, COLUMNS, AND UNDERSIDE OF ELEVATED SLABS.

V. REINFORCING STEEL

- REINFORCING TO CONFORM TO THE FOLLOWING, UNLESS OTHERWISE NOTED:

LOCATION	TYPE
ALL REINFORCING STEEL IN SUSPENDED SLAB, WALLS, FOUNDATIONS, AND ALL REINFORCEMENT, REINFORCING STEEL #8 AND LARGER.	ASTM A706, 60 KSI
REINFORCING STEEL #7 AND SMALLER OR IN SLABS ON GRADE, HOUSEKEEPING PADS OR CURBS.	ASTM A615, 60 KSI
WELDED STEEL WIRE FABRIC	ASTM A185, 70 KSI
SMOOTH DOWELS IN SLAB ON GRADE	ASTM A36, 36 KSI

- ACCURATELY POSITION, SUPPORT, AND SECURE REINFORCEMENT FROM DISPLACING DUE TO FORMWORK, CONSTRUCTION, OR CONCRETE PLACEMENT OPERATIONS. LOCATE AND SUPPORT REINFORCING BY METAL CHAIRS, RUNNERS, BOLSTERS, SPACERS, OR HANGERS
- MECHANICAL COUPLERS: TYPE 2, SEE SPECS FOR ADDITIONAL INFORMATION.
- WELD REINFORCING STEEL ONLY WHERE NOTED AND IN ACCORDANCE WITH AWS D1.4 USING QUALIFIED WELDERS.
- TERMINATE REINFORCING STEEL IN STANDARD HOOKS, UNLESS OTHERWISE SHOWN.
- PROVIDE REINFORCING SHOWN OR NOTED CONTINUOUS IN LENGTHS AS LONG AS PRACTICABLE.
- REINFORCING BAR DOWELS IN FOOTINGS AND OTHER SUPPORTING MEMBERS OF THE SAME SIZE AND SPACING AS VERTICAL REINFORCING, U.O.N. LAP SPLICE AS INDICATED ON TYPICAL DETAILS.

VI. CAST-IN-PLACE CONCRETE

- CONCRETE IS REINFORCED AND CAST-IN-PLACE UNLESS OTHERWISE NOTED. WHERE REINFORCING IS NOT SPECIFICALLY SHOWN OR WHERE DETAILS ARE NOT GIVEN, PROVIDE REINFORCING SIMILAR TO THAT SHOWN FOR SIMILAR CONDITIONS, SUBJECT TO REVIEW BY THE RESIDENT ENGINEER.
- ROUGHEN CONCRETE SURFACES OF CONSTRUCTION JOINTS TO 1/4 INCH AMPLITUDE AND CLEAN OF LAITANCE, FOREIGN MATTER, AND LOOSE PARTICLES. SUBMIT JOINT LOCATIONS OR JOINTS NOT SHOWN TO THE RESIDENT ENGINEER FOR REVIEW AND APPROVAL PRIOR TO PROCEEDING WITH THE WORK.
- AT LOCATIONS WHERE CONCRETE IS CAST AGAINST EXISTING CONCRETE, ROUGHEN CONTACT SURFACES TO 1/4 INCH AMPLITUDE AND CLEAN OF LAITANCE, FOREIGN MATTER, AND LOOSE PARTICLES.
- REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS FOR LOCATIONS OF ADDITIONAL CONCRETE CURBS AND HOUSEKEEPING PADS NOT SHOWN.
- CONCRETE CLEAR COVER TO REINFORCING BARS IS AS FOLLOWS, UNLESS OTHERWISE NOTED:

LOCATION	CLEAR COVER
CONCRETE PLACED AGAINST EARTH	3 INCHES
FORMED SURFACES EXPOSED TO WEATHER OR IN CONTACT WITH EARTH: #6 BARS AND LARGER #5 BARS AND SMALLER	2 INCHES 1 1/2 INCHES
SLABS ON GRADE (TOP CLEARANCE)	1 1/2 INCHES
BEAMS, GIRDERS AND COLUMNS NOT EXPOSED TO WEATHER OR EARTH	1 1/2 INCHES
WALL OR SLAB SURFACES NOT EXPOSED TO WEATHER OR EARTH: #5 & #7 #8, #9, #10 & #11 #14 & #18	3/4 INCH 1 INCH 1 1/2 INCHES 2 1/2 INCHES

- CONCRETE TYPES:

CLASS	28-DAY STRENGTH	TYPE	LOCATION	CEMENT	MAX W/C	MAX AGGR
A	4000 PSI	NWC	GRADE BEAMS, FOUNDATIONS,	I-II	0.45	SIZE 467
B	4000 PSI	NWC	SLABS ON GRADE, PADS, CURBS MISC.	I-II	0.45	SIZE 67
C	4000 PSI	LWC	FILL ON METAL DECK	I-II	0.55	SIZE 67

- LIGHT WT CONC. MAX. DRY UNIT WT=115 PCF. MAX.
- WATER REDUCING OR HIGH RANGE WATER REDUCING ADD MIXTURES SATISFYING ASTM C494 ARE ANTICIPATED.
- NO AIR ENTRAINMENT IS ANTICIPATED.
- CONTINUOUSLY MOIST CURE ARCHITECTURALLY EXPOSED CONCRETE SLABS IN PUBLIC SPACES FOR 7 DAYS MINIMUM. WATER FOG SPRAYS, PONDING, SATURATED ABSORPTIVE COVERS, OR MOISTURE RETAINING COVERS MAY BE USED. CURING COMPOUNDS ARE ACCEPTABLE AT NON-ARCHITECTURALLY EXPOSED SLABS.
- CONCRETE FILL THICKNESS SHOWN ON THE FRAMING PLANS ARE MINIMAL THICKNESSES. NO ALLOWANCES HAVE BEEN SHOWN FOR ADDITIONAL CONCRETE FILL REQUIRED TO COMPENSATE FOR FRAME, DECK, OR FORMWORK DEFLECTIONS TO MAINTAIN SURFACE TOLERANCES.
- NON-SHRINK GROUT, 7000 PSI MIN. @ 28 DAYS.
- SEE SPECIFICATION SECTION 033000 FOR FLOOR FLATNESS REQUIREMENTS.
- PRIOR TO CONCRETE POUR, ANCHOR BOLT ELEVATION AND LOCATION SHALL BE CERTIFIED BY LICENSED SURVEYOR PER SPEC 051200.

VII. UNIT MASONRY

- MINIMUM COMPRESSIVE STRENGTH OF MASONRY, F.M. EQUAL TO 1500 PSI AT 28 DAYS.
- MASONRY UNITS: ASTM C-90, GRADE N, TYPE 1, MEDIUM WEIGHT, HOLLOW, LOAD BEARING UNITS. MINIMUM COMPRESSIVE STRENGTH: 1900 PSI.
- MORTAR: ASTM C-270, TYPE S.
- GROUT: ASTM C-476, MINIMUM COMPRESSIVE STRENGTH: 2000 PSI.
- REINFORCING STEEL:

LOCATION	TYPE
REINFORCING TO BE WELDED	ASTM A706, GRADE 60
ALL OTHER REINFORCING	ASTM A615, GRADE 60
JOINT REINFORCING	UBC STD 21-10

- CENTER VERTICAL REINFORCING IN WALL UNLESS NOTED OTHERWISE.
- LAY UNITS IN RUNNING BOND AND MAINTAIN VERTICAL CONTINUITY OF CORES OR CELL CAVITIES. USE OPEN END UNITS AT LOCATIONS OF VERTICAL REINFORCING. PLACE HORIZONTAL REINFORCING IN BOND BEAM UNITS.
- FILL ALL CELLS SOLIDLY WITH GROUT. CLEAN CELLS AND BOND BEAMS OF MORTAR PROTRUSIONS AND DEBRIS BEFORE GROUTING.
- DOWELS FROM THE FOUNDATION TO MATCH SIZE AND LOCATION OF VERTICAL REINFORCING IN MASONRY, UNLESS NOTED OTHERWISE.
- PROVIDE VERTICAL CONTROL JOINTS IN THE WALLS AT LOCATIONS SHOWN ON THE DRAWINGS.
- LOW-LIFT GROUTING: LAY UNITS A MAXIMUM OF 2 FEET HIGH BEFORE GROUTING. PLACE GROUT IN A CONTINUOUS PLACEMENT IN GROUT LIFTS NOT EXCEEDING 2 FEET. COMPLETELY GROUT THE FULL HEIGHT OF THE WALL SECTION IN ONE DAY WITH NO INTERRUPTIONS GREATER THAN ONE HOUR.
- HIGH-LIFT GROUTING: LAY UNITS A MAXIMUM OF 12 FEET HIGH BEFORE GROUTING. PLACE GROUT IN A CONTINUOUS PLACEMENT IN GROUT LIFTS NOT EXCEEDING 6 FEET. COMPLETELY GROUT THE FULL HEIGHT OF THE WALL SECTION IN ONE DAY WITH NO INTERRUPTIONS GREATER THAN ONE HOUR. PROVIDE CLEANOUTS AT EVERY CELL ALONG THE BOTTOM COURSE OF EACH GROUT LIFT. USE Sika GROUT AID TYPE II OR E-Z MIX ADROKID DRAINAGE GROUT TO REDUCE EARLY WATER LOSS AND PRODUCE AN EXPANSIVE ACTION.

VIII. STRUCTURAL STEEL

- STRUCTURAL STEEL TO CONFORM TO THE FOLLOWING UNLESS OTHERWISE NOTED:

SECTIONS	TYPE
ROLLED SHAPES	
WIDE FLANGES	ASTM A992, GR 50
CHANNELS, ANGLES, & OTHER	ASTM A36
PLATES	
COLUMN BASE PLATES	ASTM A572, GR 50
BEAM COVERSIDE PLATES	ASTM A36
BEAM SHEAR PLATES	ASTM A36
COLUMN CONTINUITY PLATES	ASTM A572, GR 50
BEAM STIFFENER PLATES	ASTM A36
OTHER, U.O.N.	ASTM A572, GR 50
STEEL PIPE	ASTM A53 GRADE B
COLD FORMED HOLLOW STRUCTURAL SECTION (HSS)	ASTM A500 GRADE B
STAINLESS STEEL SHAPES, PLATES AND BARS	ASTM A276
BOLTS	ASTM 325X
MACHINE BOLTS	ASTM A307
ANCHOR BOLTS AND RODS	ASTM F1554 GR 55 U.O.N.
THREADED AND HANGER ROD	ASTM A307 OR A36
WELDED SHEAR CONNECTORS	ASTM A108, GRADE 1015 THROUGH 1020
NUTS FOR BOLTS AND MACHINE BOLTS	ASTM A563
HARDENED WASHERS	ASTM F436
UNHARDENED WASHERS	ASTM F844
PLAIN WASHERS	ANSI B18.22.1
BEVELED WASHERS	ANSI B18.23.1

- HOT DIP GALVANIZE IN ACCORDANCE WITH ASTM A123 AND ASTM A153 STRUCTURAL STEEL AND FASTENERS THAT ARE PERMANENTLY EXPOSED TO THE WEATHER. REPAIR GALVANIZING AFTER WELDING IN ACCORDANCE WITH ASTM A780.
- ARC-WELDING ELECTRODES/FILLER METALS TO BE LOW HYDROGEN TYPES E70XX, E70TXX OR E70XXX MINIMUM AS APPLICABLE.
- WELDERS TO BE CERTIFIED BY AWS AND THE GOVERNING JURISDICTION.
- WHERE FIELD WELDING IS NOTED, THE DESIGNATION IS GIVEN AS A SUGGESTED CONSTRUCTION PROCEDURE ONLY.
- PROVIDE NATURAL CAMBER UP, UNLESS NOTED OTHERWISE, EXCEPT AT CANTILEVERS. AT CANTILEVERS PROVIDE CAMBER SUCH THAT TIP OF CANTILEVER IS ABOVE FINAL ELEVATION.
- SPICE MEMBERS ONLY WHERE INDICATED.
- DETAIL, FABRICATE AND ERECT IN ACCORDANCE WITH AISC "SPECIFICATION FOR STRUCTURAL STEEL FOR BUILDINGS".

IX. METAL DECKING

- METAL FLOOR AND ROOF DECK TO HAVE MINIMUM SECTION PROPERTIES SHOWN ON SHEET "TYPICAL METAL DECK DETAILS."
- METAL DECK TO MEET ASTM A653
- FLOOR AND ROOF DECK TO BE GALVANIZED IN ACCORDANCE WITH ASTM A653 COATING CLASS G60. REPAIR DAMAGED COATING.
- WHERE POSSIBLE, LAYOUT METAL DECK TO SPAN AT LEAST THREE SPANS CONTINUOUSLY. TERMINATE ENDS OVER SUPPORTS EXCEPT AT OPENINGS OR BUILDING EDGES WHERE METAL DECKS MAY BE CANTILEVERED AS SHOWN.
- PROVIDE MINIMUM STUDS SHOWN IN 11/S601 U.O.N.
- SEE SPECIFICATION SECTION 033000 FOR FLOOR FLATNESS REQUIREMENTS.

X. MECHANICAL AND ADHESIVE ANCHORS

- ALL MECHANICAL ANCHORS ARE TO HAVE ICC APPROVAL FOR USE IN CRACKED CONCRETE UNDER SEISMIC LOADS.
- EXPANSION ANCHORS: HILTI KB-TZ (ICC ESR-1917), ITW REDHEAD TRIBOLT+ (ICC ESR-2427), POWERS POWER-STUD (ICC ESR-2502), OR SIMPSON STRONG BOLT 2 (ICC ESR-3037).
- CONCRETE SCREW ANCHORS: POWERS WEDGE-BOLT (ICC ESR-2526), OR SIMPSON TITEN HD (ICC ESR-2713).
- ADHESIVE ANCHORS: HILTI HIT RE-500-SD (ICC ESR-2322), POWERS PE1000+ (ICC ESR-2353), OR SIMPSON SET-XP (ICC ESR-3509)
- INSTALL AND TEST ANCHORS IN ACCORDANCE WITH THE LATEST ICC-ESR REPORT.
- PROVIDE STAINLESS STEEL FASTENERS FOR EXTERIOR USE OR WHEN PERMANENTLY EXPOSED TO WEATHER. PROVIDE GALVANIZED CARBON STEEL ANCHORS AT OTHER LOCATIONS, UNLESS OTHERWISE NOTED.
- ADHESIVE ANCHORS SHALL BE ASTM A36 THREADED RODS. REINFORCING DOWELS SHALL BE ASTM A615 GRADE 60 REINFORCING STEEL, UNLESS OTHERWISE NOTED.
- EXPANSION AND SCREW ANCHOR MINIMUM EMBEDMENTS UNLESS OTHERWISE NOTED:

ANCHOR DIA. (SIZE)	MIN. EMBED (INCH)
3/8"	4"
1/2"	5"
5/8"	6"
3/4"	7"
7/8"	9"
NO. 3	4"
NO. 4	5"
NO. 5	6"
NO. 6	7"
NO. 7	9"

* MINIMUM EMBEDMENT MUST BE INCREASED FOR SIMPSON TITEN HD ANCHOR. USE 1/4" FOR 1/2" DIAMETER AND 5/12" FOR 5/8" DIAMETER SCREWS.

- ADHESIVE ANCHOR MINIMUM EMBEDMENT DEPTH AND TEST LOADS IN CONCRETE, UNLESS OTHERWISE NOTED:

ANCHOR/BAR SIZE	MIN. EMBEDMENT	TENSION LOAD
3/8"	4"	3,000 LBS.
1/2"	5"	6,000 LBS.
5/8"	6"	8,000 LBS.
3/4"	7"	12,000 LBS.
7/8"	9"	15,000 LBS.
NO. 3	4"	3,000 LBS.
NO. 4	5"	6,000 LBS.
NO. 5	6"	8,000 LBS.
NO. 6	7"	12,000 LBS.
NO. 7	9"	15,000 LBS.

- TEST ANCHORS IN THE PRESENCE OF THE SPECIAL INSPECTOR.
- TEST EQUIPMENT IS TO BE CALIBRATED BY AN APPROVED TESTING LABORATORY IN ACCORDANCE WITH STANDARD RECOGNIZED PROCEDURES.
- REACTION LOADS FROM TEST FIXTURES MAY BE APPLIED CLOSE TO THE ANCHOR BEING TESTED PROVIDED THE ANCHOR IS NOT RESTRAINED FROM WITHDRAWING.
- TEST QUANTITY OF EXPANSION AND ADHESIVE ANCHORS FOR EACH SIZE AND TYPE AS NOTED BELOW:

APPLICATION	QUANTITY
EXPANSION AND SCREW ANCHORS	50%
EXPANSION ANCHORS AFTER TEST FAILURE OF ONE ANCHOR	100% OF 20 PREVIOUS
ADHESIVE ANCHORS	25%
ADHESIVE ANCHORS W/ GREATER THAN 10% FAILURE AFTER TESTING OF THE FIRST 100 ANCHORS	100%
ADHESIVE ANCHORS W/ LESS THAN 5% FAILURE AFTER TESTING OF THE FIRST 100 ANCHORS	10%
- APPLY THE TEST LOAD TO EXPANSION ANCHORS PER EITHER THE HYDRAULIC RAM METHOD OR THE TORQUE WRENCH METHOD. APPLY THE TEST LOAD TO SCREW ANCHORS PER THE TORQUE WRENCH METHOD. APPLY THE TEST LOAD TO ADHESIVE ANCHORS PER THE HYDRAULIC RAM METHOD.
- THE FOLLOWING CRITERIA APPLY FOR THE TESTING AND ACCEPTANCE OF INSTALLED ANCHORS:
 - HYDRAULIC RAM METHOD: MAINTAIN THE TEST LOAD FOR A MINIMUM OF 15 SECONDS AND EXHIBIT NO DISCREANABLE MOVEMENT DURING THE TENSION TEST, E.G AS EVIDENCED BY LOOSENING OF THE WASHER UNDER THE NUT.
 - TORQUE WRENCH METHOD: ATTAIN THE SPECIFIED TORQUE WITHIN 1/2 TURN OF THE NUT.

XI. STRUCTURAL TESTS, INSPECTIONS, AND OBSERVATIONS

- AN INDEPENDENT TESTING AGENCY AND SPECIAL INSPECTORS WILL BE PAID BY THE CONTRACTOR AND APPROVED BY THE VA TO PERFORM THE TESTS AND INSPECTION REQUIRED BY SPEC 014529. PROVIDE ACCESS AND FURNISH SAMPLES TO THE AGENCY AS REQUIRED BY THE CONTRACT DOCUMENTS.
- IF INITIAL TESTS OR INSPECTIONS MADE BY THE TESTING AGENCY REVEAL THAT ANY PORTION OF THE WORK DOES NOT COMPLY WITH THE CONTRACT DOCUMENTS, ADDITIONAL TESTS, INSPECTIONS, AND NECESSARY REPAIRS WILL BE MADE AT THE CONTRACTOR'S EXPENSE.
- TESTING LAB SHALL BE PAID BY CONTRACTOR.

XII. DESIGN CRITERIA

- APPLICABLE CODES / DESIGN STANDARDS:

VA STRUCTURAL DESIGN MANUAL FOR HOSPITAL PROJECTS
VA PROGRAM GUIDE PG-18-1, MASTER CONSTRUCTION SPECIFICATIONS
VA PROGRAM GUIDE PG-18-3, DESIGN AND CONSTRUCTION PROCEDURES
VA PROGRAM GUIDE PG-18-15, A/E/ SUBMISSION INSTRUCTIONS, VOLUME B
VA HANDBOOK H-18-4, SEISMIC DESIGN REQUIREMENTS, FEBRUARY 2011
DEPARTMENT OF DEFENSE 2010 UNIFIED FACILITIES CRITERIA (UFC) 2015 IBC
ASCE 7-10 MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES
2010 AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) SPECIFICATION STEEL BUILDINGS
2010 AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) SEISMIC PROVISIONS
2014 AMERICAN CONCRETE INSTITUTE (ACI) 318

- FOUNDATIONS HAVE BEEN DESIGNED WITH THE FOLLOWING CRITERIA:

SPREAD FOOTINGS:
ALLOWABLE NET SOIL PRESSURE FOR DL + LL = 2000 PSF
ALLOWABLE NET SOIL PRESSURE FOR DL + LL + EQ = 2600 PSF

- GRAVITY LOADS:

A. DEAD LOADS - VARY BASED ON ACTUAL BUILDING AND EQUIPMENT OPERATING WEIGHTS

B. LIVE LOADS:
FLOOR 100 PSF
ROOF 20 PSF

- SNOW LOADS = 0 PSF

- FLOOD LOADS = 0 LBS

- SEISMIC DESIGN RESPONSE SPECTRUM

WHERE: R = 5.5 FOR SPECIAL CMU WALL.

Q	=	2.5
I	=	1.25
SS	=	0.634
S1	=	0.257
SDS	=	0.551
SD1	=	0.264
SITE CLASS	=	C
OCCUPANCY CATEGORY	=	III
SEISMIC DESIGN CATEGORY	=	D

INELASTIC INTERSTORY DRIFT LIMIT = 0.01 X STORY HT.

- WIND DESIGN:

BASIC WIND SPEED = 115 MPH
WIND EXPOSURE = B

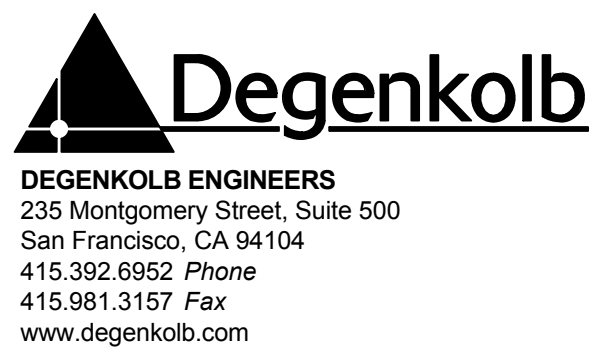
- EQUIPMENT AND UTILITY LINES SUPPORTED BY STRUCTURAL FRAMING ARE TO BE CONCENTRICALLY CONNECTED TO THE FRAMING MEMBERS. BRACING TO THE BOTTOM 2/3 OF BEAMS IS PROHIBITED.

- EQUIPMENT, ARCHITECTURAL ELEMENTS, AND DISTRIBUTION SYSTEMS ARE TO BE ANCHORED AND BRACED PER SPECIFICATION 130641.

- DESIGN TEAM
JAMES O MALLEY SENIOR PRINCIPAL
ROBERT GRAFF PROJECT MANAGER
ANDREW MA DESIGNER
JUN SANCHEZ SENIOR CAD SPECIALIST
MIGUEL MARASIGAN SENIOR CAD SPECIALIST

100% CONSTRUCTION DOCUMENTS
NOVEMBER 19, 2015

CONSULTANTS:



ARCHITECT



Drawing Title

GENERAL NOTES

Approved: Project Director

Project Title

EXPAND COMMUNITY LIVING CENTER

Project Number

570-218

Building Number

31

Drawing Number

SS001

Location

2615 EAST CLINTON AVE
FRESNO, CA 93703

Date
09/01/14

Checked
RG

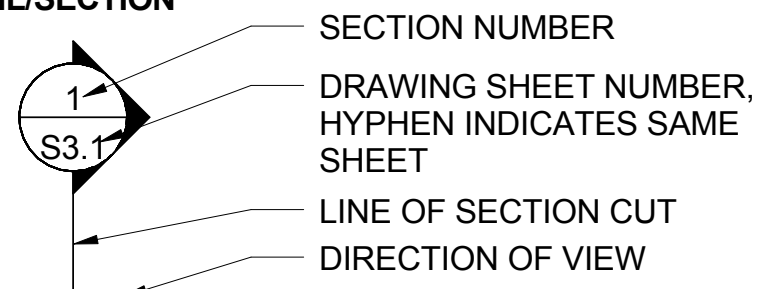
Drawn
JQS

Office of
Construction
and Facilities
Management

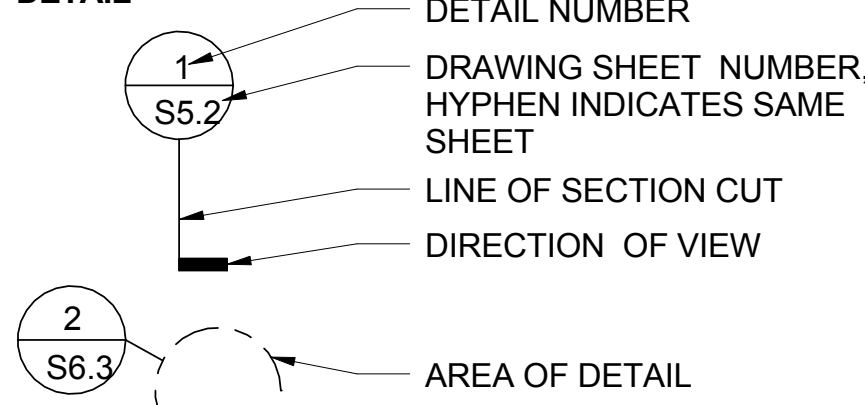


REFERENCE SYMBOLS

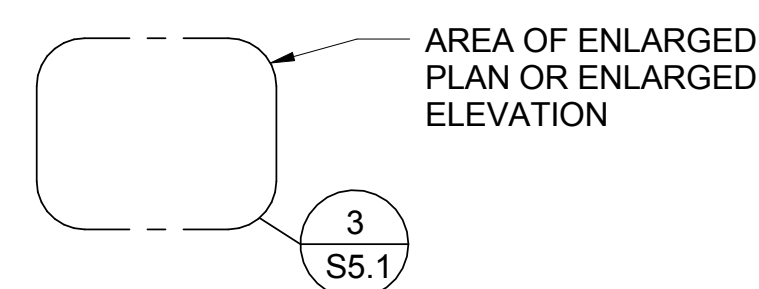
DETAIL/SECTION



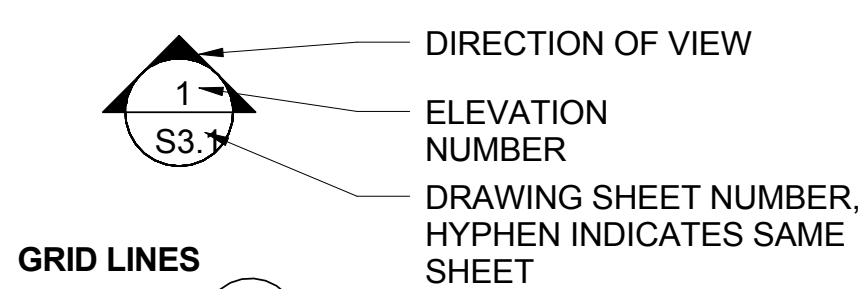
DETAIL



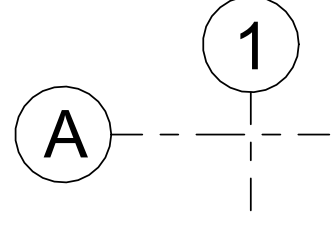
DETAIL PLAN OR ELEVATION



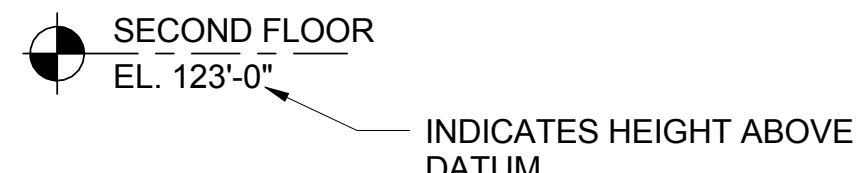
SINGLE ELEVATION



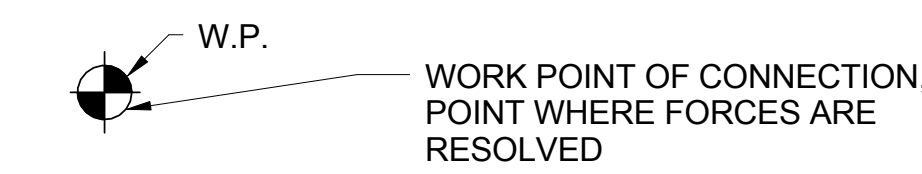
GRID LINES



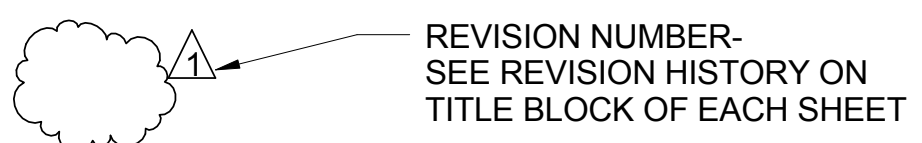
LEVEL LINE



WORK POINT



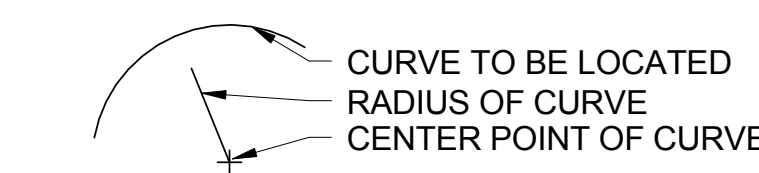
REVISION



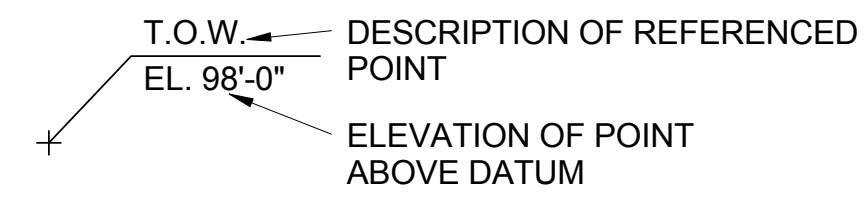
KEY NOTE



CENTER POINT OF CURVE

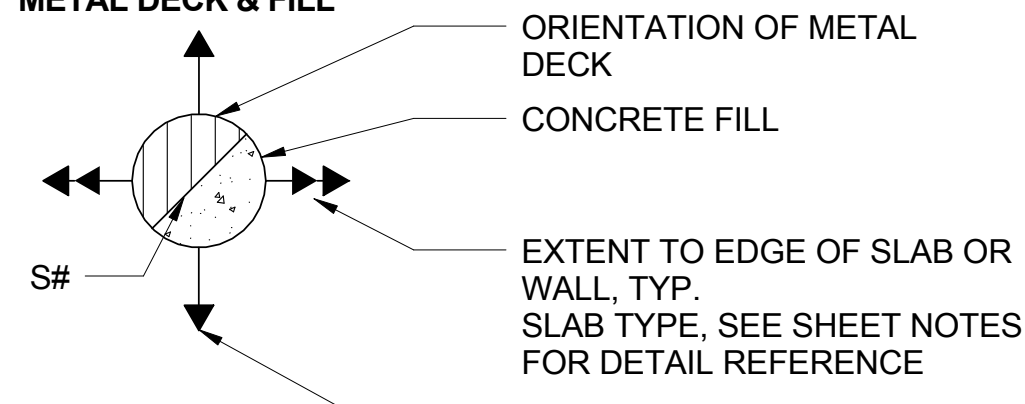


REFERENCED ELEVATION

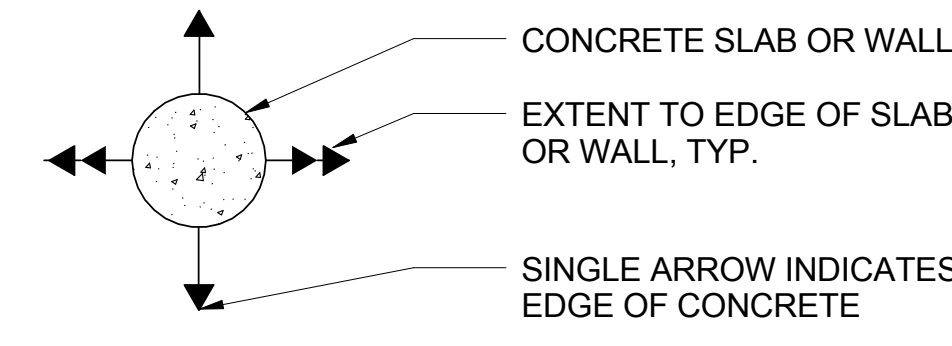


PLAN SYMBOLS

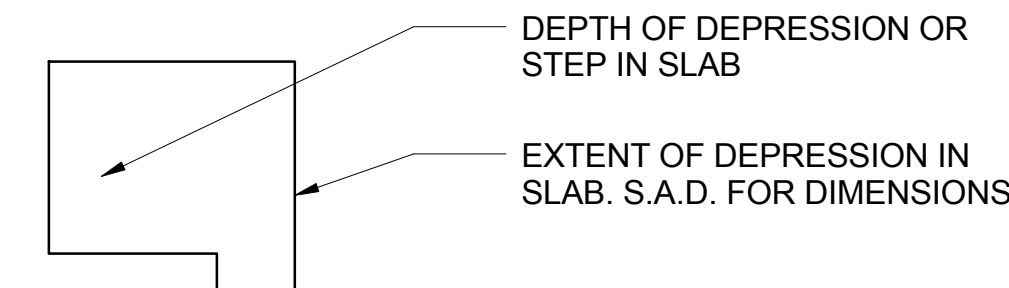
METAL DECK & FILL



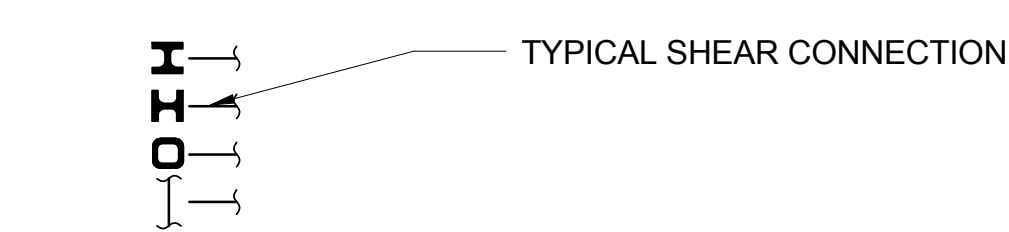
CONCRETE FILL



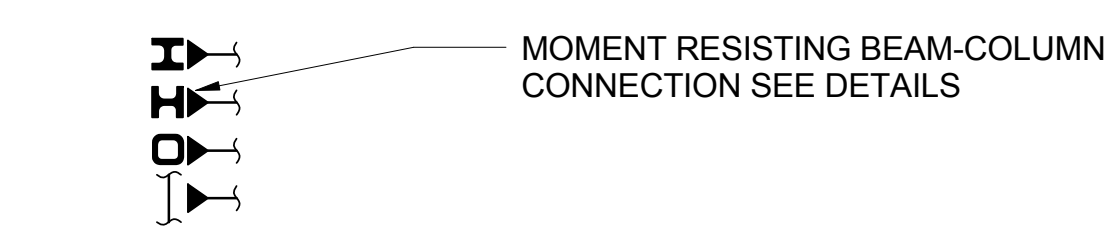
FLOOR DEPRESSIONS



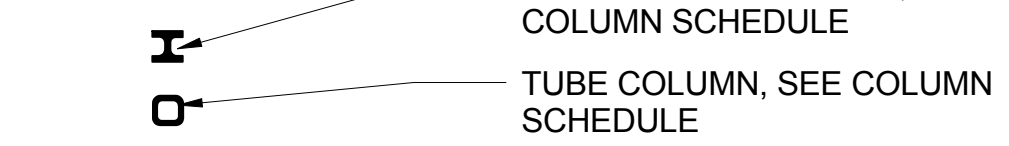
SHEAR CONNECTIONS



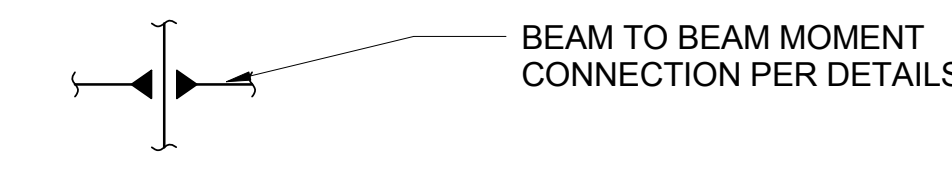
MOMENT CONNECTIONS



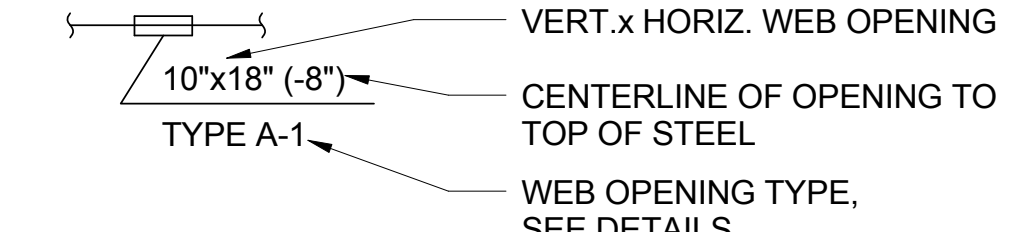
COLUMNS



BEAM-BEAM MOMENT CONNECTION



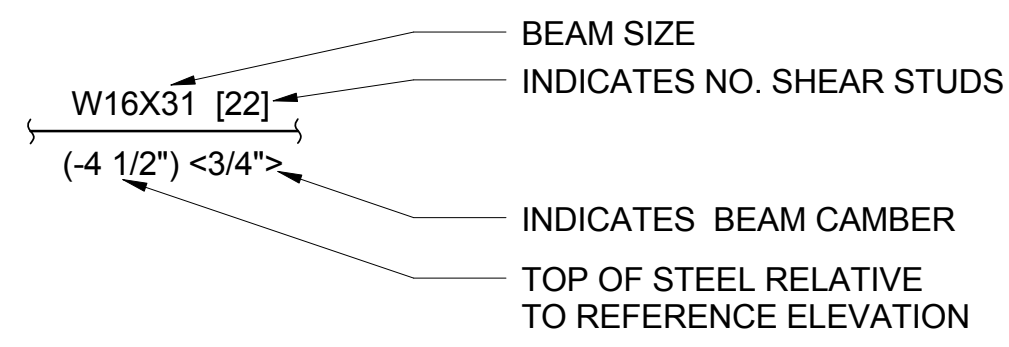
BEAM PENETRATIONS



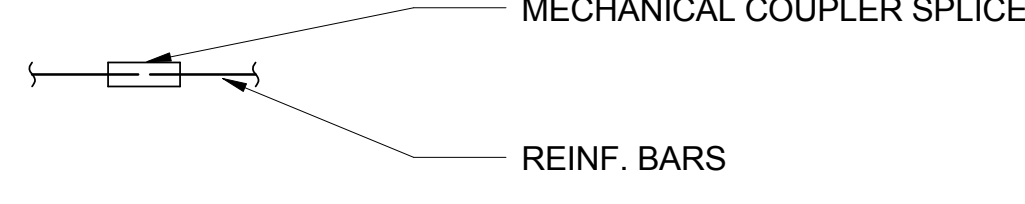
SLAB OPENING



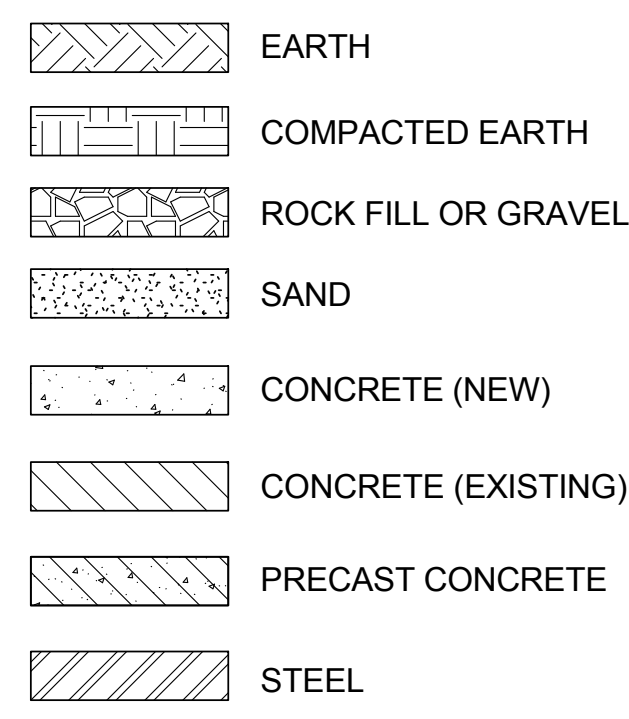
BEAM DESIGNATIONS



BAR COUPLERS



MATERIAL SYMBOLS

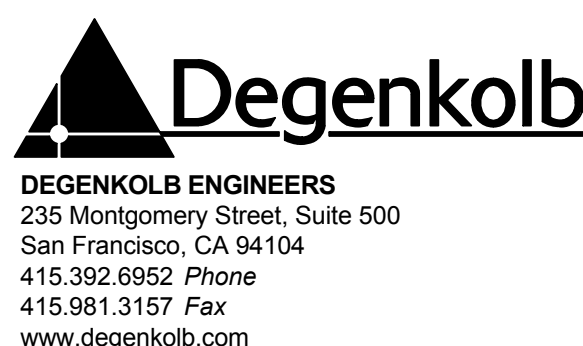


ABBREVIATIONS

(E)	EXISTING	ID	INSIDE DIAMETER/DIMENSION
#	NUMBER	INFO	INFORMATION
&	AND	JST, JSTS	JOIST, JOISTS
@	AT	JT	JOINT
Ø	DIAMETER	KO	KNOCK-OUT
ld	DEVELOPMENT LENGTH	L	ANGLE
ldh	HOOK DEVELOPMENT LENGTH	LP	LOW POINT
ts	LAP SPLICE LENGTH	LEV	LEVEL
AA	ADHESIVE ANCHOR	LLH	LONG LEG HORIZONTAL
ABV	ABOVE	LLV	LONG LEG VERTICAL
ADD'L	ADDITIONAL	LOC	LOCATION
ADJ	ADJACENT	LONGIT	LONGITUDINAL
AGGR	AGGREGATE	LT	LIGHT
ALUM	ALUMINUM	LWC	LIGHTWEIGHT CONCRETE
ALT	ALTERNATE	L	ANGLE
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	MAX	MAXIMUM
APPROX	APPROXIMATE	MB	MACHINE BOLT
AR	ANCHOR ROD	MEZZ	MEZZANINE
ARCH	ARCHITECTURAL / ARCHITECT	MECH	MECHANICAL
ASTM	AMERICAN SOCIETY for TESTING and MATERIALS	MEP	MECHANICAL, ELECTRICAL, PLUMBING DOCUMENTS
ASPH	ASPHALT	MFR	MANUFACTURER
AC	ASPHALT CONCRETE	MIN	MINIMUM
AWG	AMERICAN WIRE GAUGE	MISC	MISCELLANEOUS
BF	BOTH FACES	MTL	METAL
BLDG	BUILDING	MTD	MOUNTED
BLK, BLKG	BLOCK or BLOCKING	NF	NEAR FACE
BM, BMS	BEAM, BEAMS	NIC	NOT IN CONTRACT
BN	BOUNDARY NAILING	NOM	NOMINAL (DIAMETER)
BO	BOTTOM OF	NS	NEAR SIDE
BOF	BOTTOM OF FOOTING	NTS	NOT TO SCALE
BOT	BOTTOM	NWC	NORMAL WEIGHT CONCRETE
BRG	BEARING	OC	ON CENTER
BSMT	BASEMENT	OD	OUTSIDE DIAMETER/DIMENSION
BRBF	BUCKLING RESTRAINED BRACE FRAME	OPH	OPPOSITE HAND
BS	BOTH SIDES	OPNG	OPENING
BTWN	BETWEEN	OPP	OPPOSITE
BW	BOTH WAYS	PC, PCS	PIECE, PIECES
C	CHANNEL	PCC	PRECAST CONCRETE
CIP	CAST IN PLACE	PERP	PERPENDICULAR
CJ	CONSTRUCTION JOINT	PJP	PARTIAL JOINT PENETRATION
CJP	COMPLETE JOINT PENETRATION	PL	PLATE
CLG	CEILING	PLYWD	PLYWOOD
CL	CENTERLINE	PTN	PARTITION
CLR	CLEAR	RO	ROUGH OPENING
CMU	CONCRETE MASONRY UNIT	R	RADIUS
COL	COLUMN	REBAR	REINFORCING BAR
CONC	CONCRETE	REF	REFERENCE
CONN	CONNECTION	REINF	REINFORCED or REINFORCING
CONSTR	CONSTRUCTION	REQ'D	REQUIRED
CONT	CONTINUOUS	REV	REVISION
CSK	COUNTERSINK	RFG	ROOFING
CTR	CENTER	RSJ	ROLLED STEEL JOIST
d	PENNY (NAIL SIZE)	SAD	SEE ARCHITECTURAL DOCUMENTS/DRAWINGS
DBL	DOUBLE	SCHED	SCHEDULE
DK, DKG	DECK or DECKING	SECT	SECTION
DEMO	DEMOLITION	SHT	SHEET
DET, DETS	DETAIL, DETAILS	SHTG	SHEATHING
DIAG	DIAGONAL	SIM	SIMILAR
DIM, DIMS	DIMENSION, DIMENSIONS	SL	SLOPE
DIST	DISTANCE	SMF	SPECIAL MOMENT FRAME
DN	DOWN	SMS	SHEET METAL SCREW
DO	DITTO	SOG	SLAB ON GRADE
DP	DEEP	SPEC, SPECS	SPECIFICATION, SPECIFICATIONS
DWL, DWLS	DOWEL, DOWELS	SPSW	SPECIAL PLATE SHEAR WALL
DWG, DWGS	DRAWING, DRAWINGS	SQ	SQUARE
EA	EACH	SS	STAINLESS STEEL
EBF	ECENTRIC BRACE FRAME	STAG	STAGGER or STAGGERED
EF	EACH FACE	STD	STANDARD
EJ	EXPANSION JOINT	STIF	STIFFENER
EL	ELEVATION	STIR	STIRRUP or STIRRUPS
ELEC	ELECTRICAL	STL	STEEL
ELEV	ELEVATOR	STRUCT	STRUCTURAL
EMBED	EMBEDMENT	SUB	SUBSTITUTE
EN	EDGE NAILING	SUSP	SUSPENDED
EOS	EDGE OF SLAB	SYMM	SYMMETRICAL
EQ	EQUAL	T&B	TOP and BOTTOM
EQUIP	EQUIPMENT	T&G	TONGUE and GROOVE
ES	EACH SIDE	THK	THICK
EW	EACH WAY	THRD	THREADED
EXCAV	EXCAVATION	THRU	THROUGH
EXP	EXPANSION	TO	TOP OF
EXT	EXTERIOR	TOC	TOP OF CONCRETE
FF	FAR FACE	TOS	TOP OF STEEL
FDN	FOUNDATION	TR	TREAD
FIN	FINISH	TYP	TYPICAL
FLG	FLANGE	UON	UNLESS OTHERWISE NOTED
FLR, FLRS	FLOOR, FLOORS	URM	UNREINFORCED MASONRY
FN	FIELD NAILING	VENT	VENTILATE
F0	FACE OF	VERT, (V)	VERTICAL
FOC	FACE OF CONCRETE	VIF	VERIFY IN FIELD
FOS	FACE OF STUDS	W or WF	WIDE FLANGE
FP	FIREPROOFING	W/	WITH
FS	FAR SIDE	W/O	WITHOUT
FT	FOOT OR FEET	WD	WOOD
FTG, FTGS	FOOTING, FOOTINGS	WP	WORK POINT
GA	GAGE	WT	WEIGHT/TEE SECTION
GALV	GALVANIZED	WWW	WELDED WIRE MESH
GLB	GLU-LAM BEAM	X HVY	EXTRA HEAVY
GRND	GROUND	XX HVY	DOUBLE EXTRA HEAVY
GR	GRADE	X STR	EXTRA STRONG
HG	HOT DIPPED GALVANIZED	XX STR	DOUBLE EXTRA STRONG
HDR	HEADER		
HP	HIGH POINT		
HSB	HIGH STRENGTH BOLTS		
HSS	HOLLOW STRUCTURAL SECTION		
HT	HEIGHT		
HK, HKS	HOOBS		
HORIZ, (H)	HORIZONTAL		

100% CONSTRUCTION DOCUMENTS
NOVEMBER 19, 2015

CONSULTANTS:



ARCHITECT



Drawing Title
SYMBOLS AND ABBREVIATIONS

Approved: Project Director

Project Title
EXPAND COMMUNITY LIVING CENTER

Location
2615 EAST CLINTON AVE
FRESNO, CA 93703

Project Number
570-218

Building Number
31

Drawing Number
SS002

Office of
Construction and Facilities
Management



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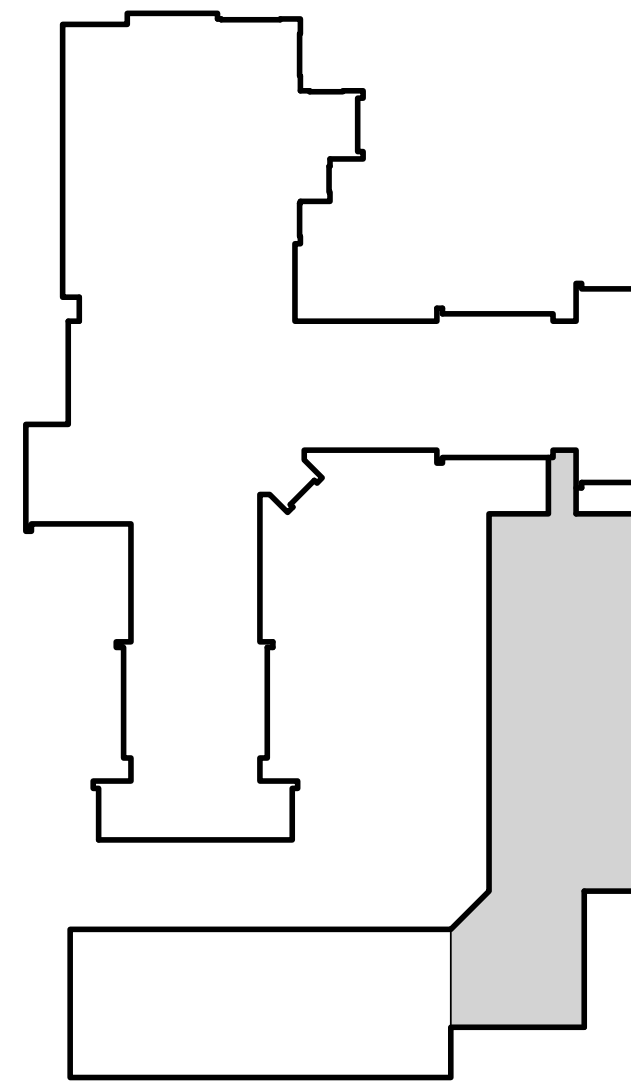
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SHEET NOTES

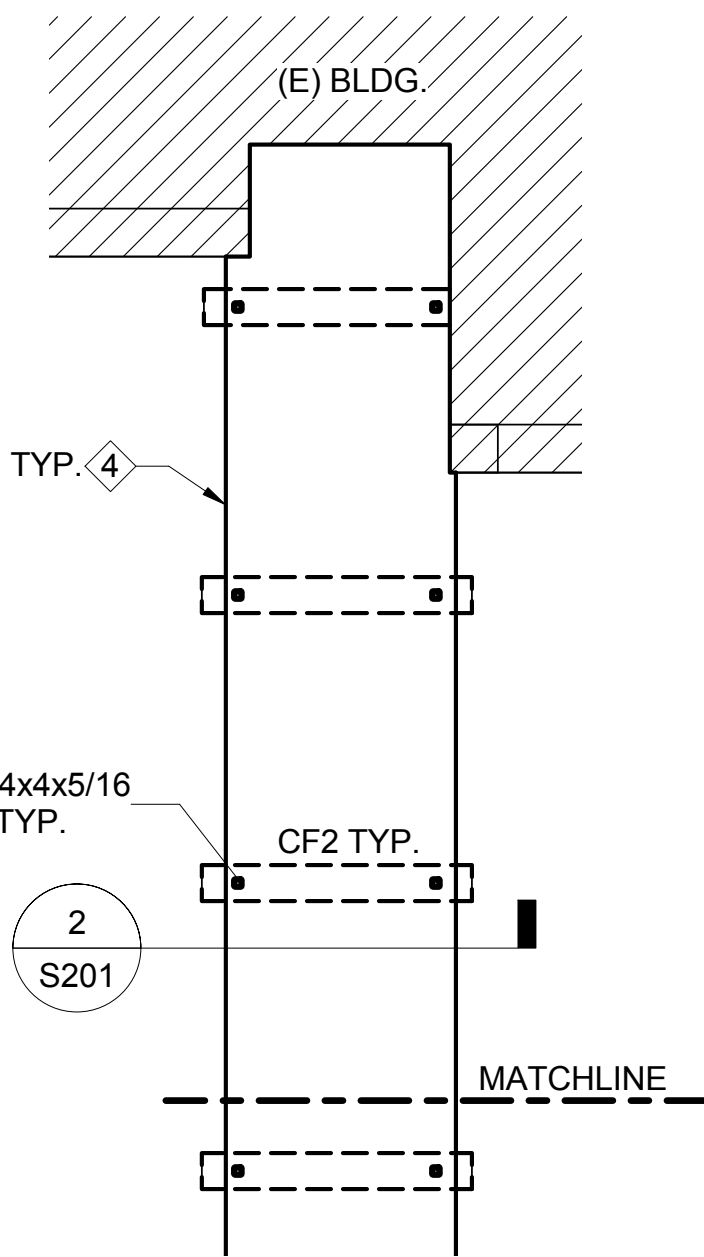
1. FINISHED FLOOR ELEVATION, S.A.D.
2. TOP OF FOUNDATION = -1'-0" U.O.N.
3. FOUNDATION ELEVATION ON PLAN REF. FROM TYP. TOP OF FOUNDATION.

KEY NOTES

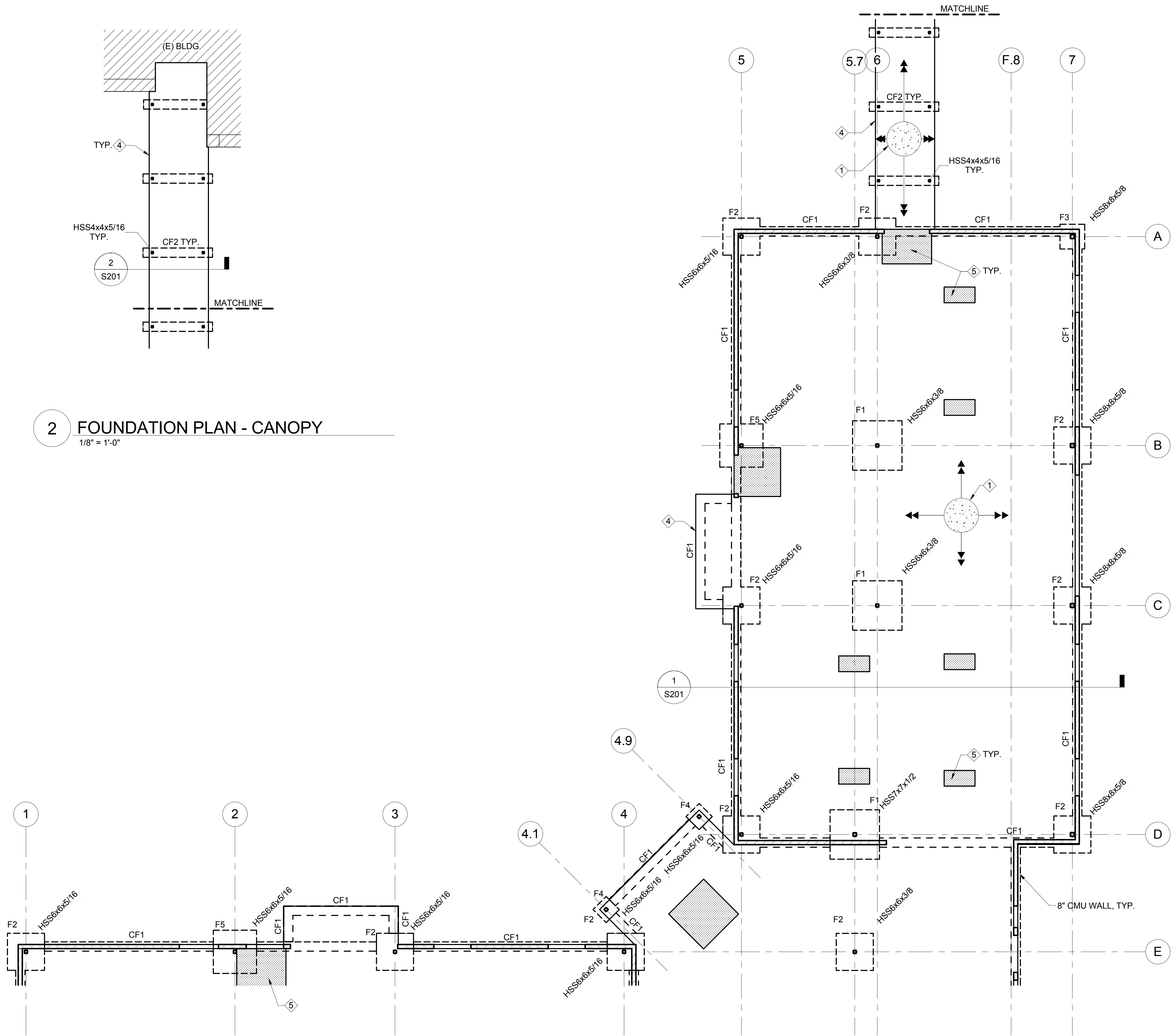
- 1 5" S.O.G. W/ #4 @ 18" O.C.
- 2 HSS 6x6x5/16 COLUMN, TYP. U.O.N.
- 3 HSS 8x8x5/8 COLUMN.
- 4 THICKENED SLAB EDGE PER 4/S401.
- 5 SLAB DEPRESSION, S.A.D.



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NOVEMBER 19, 2015

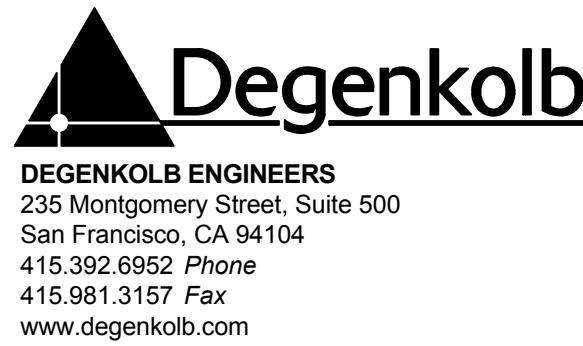


2 FOUNDATION PLAN - CANOPY
1/8" = 1'-0"



1 LEVEL 1 NORTH WING FOUNDATION PLAN
1/8" = 1'-0"

CONSULTANTS:



ARCHITECT



Drawing Title
LEVEL 1 NORTH WING FOUNDATION PLAN

Approved: Project Director

Project Title
EXPAND COMMUNITY LIVING CENTER

Location
2615 EAST CLINTON AVE
FRESNO, CA 93703

Date
09/01/14

Checked
RG

Drawn
JQS

Project Number
570-218

Building Number
31

Drawing Number

SF101

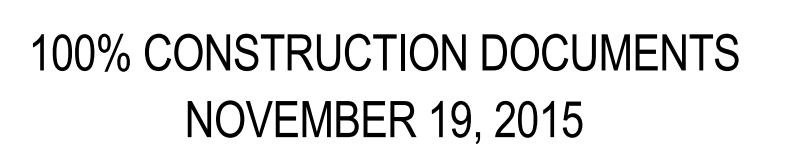
Office of
Construction
and Facilities
Management





1. FINISHED FLOOR ELEVATION, S.A.D.
2. TOP OF FOUNDATION = -1'-0" U.O.N.
3. FOUNDATION ELEVATION ON PLAN REF. FROM TYP. TOP OF FOUNDATION.

- ① 5" S.O.G. W/ #4 @ 18" O.C.
- ② HSS 6x6x5/16 COLUMN, TYP. U.O.N.
- ③ HSS 8x8x5/8 COLUMN.
- ④ THICKENED SLAB EDGE PER 4/S401.
- ⑤ SLAB DEPRESSION, S.A.D.
- ⑥ HOUSEKEEPING PAD S.M.D. AND 2/S401.
- ⑦ 8" CMU BLAST WALL PER 8/S701, S.A.D. FOR LOCATION. TOP OF FND. @ -1'-0" BELOW FINISHED GRADE.



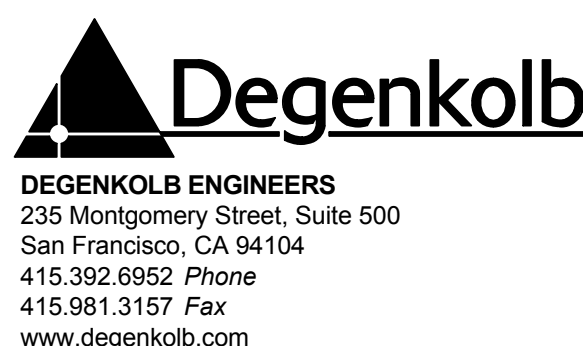
		<p>CONSULTANTS:</p>  <p>DEGENKOLB ENGINEERS 2335 Montgomery Street, Suite 500 San Francisco, CA 94104 415.392.6952 Phone 415.981.3157 Fax www.degenkolb.com</p>				<p>ARCHITECT</p>  <p>POLYTECH ASSOCIATES INC. 235 Pine Street, 17th Floor San Francisco, CA 94104 TEL (415) 397-3117 FAX (415) 397-1517</p>		<p>Drawing Title LEVEL 1 WEST WING FOUNDATION PLAN</p>		<p>Project Title EXPAND COMMUNITY LIVING CENTER</p>		<p>Project Number 570-218</p>		<p>Office of Construction and Facilities Management</p> 	
<p>Revisions:</p>		<p>Date</p>		<p>Approved: Project Director</p>		<p>Drawing Number</p>		<p>Location 2615 EAST CLINTON AVE FRESNO, CA 93703</p>		<p>Building Number 31</p>		<p>Drawing Number SF102</p>			
								<p>Date 09/01/14</p>		<p>Checked RG</p>		<p>Drawn JQS</p>			



1. TOP OF DECK = 12'-6" U.O.N.
2. TOP OF STEEL = 12'-0 1/2" U.O.N

KEY NOTES

- ① STOP HSS 4" CLR. OF FACE OF BLDG.
- ② 4" GAP BETWEEN STRUCTURES.
S.A.D. FOR COVER AT ROOF.
- ③ PROVIDE 4 - 9"Ø BEAM PENETRATIONS
CENTERED IN THE BEAM HT. AND
EQUALLY SPACED ALONG THE LENGTH.
PROVIDE STUDS @ 8" O.C. ALONG BM. LENGTH
COORDINATE W/ MECH. SUB.
- ④ 3- #7 BARS. ALIGN W/ LOW FLUTES OF DECK.
2 MAX. PER FLUTE.
- ⑤ 2- #7 BARS. ALIGN W/ LOW FLUTES OF DECK.
2 MAX. PER FLUTE.
- ⑥ FRAME AROUND OPENING PER 17B/S601, SIM.

CONSULTANTS:

ARCHITECT

**POLYTECH
ASSOCIATES
INC**

POLYTECH ASSOCIATES INC.
235 Pine Street, 17th Floor
San Francisco, CA 94104
TEL (415) 397-3117
FAX (415) 397-1517

Drawing Title	LOW ROOF NORTH WING FRAMING PLAN
---------------	----------------------------------

Approved: Project Director

Project Title	EXPAND COMMUNITY LIVING CENTER
---------------	--------------------------------

Location	2615 EAST CLINTON AVE FRESNO, CA 93703
----------	-------------------------------------------

Checked
RG

Drawn	IOS
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Project Number	570-218
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Building Number
31

Drawing Number

SF103

Office of
Construction
and Facilities
Management

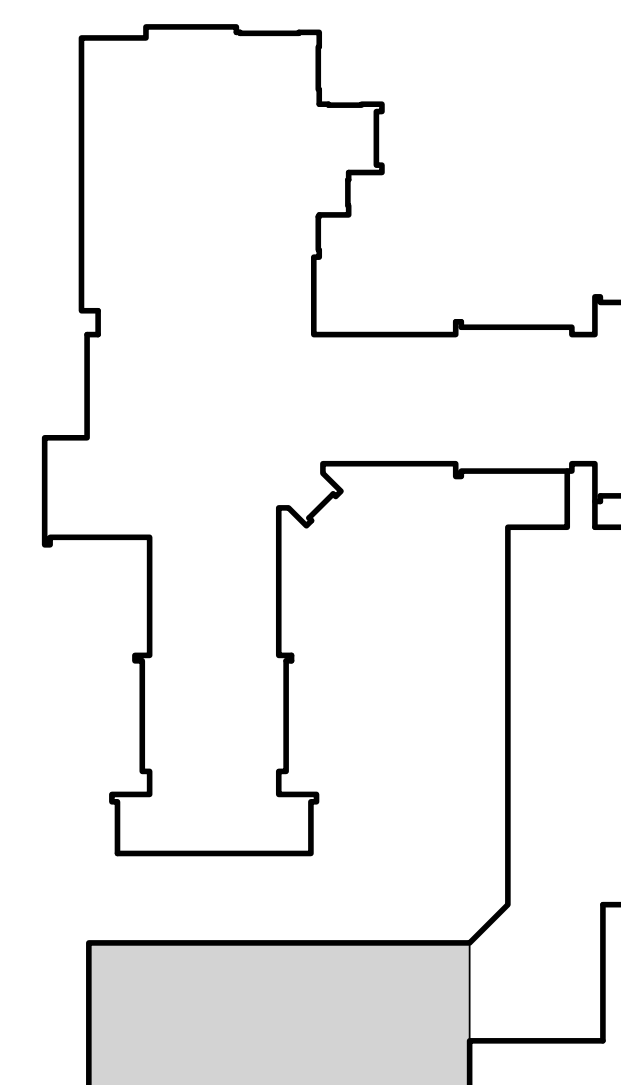




ROOF WEST WING FRAMING PLAN

1. TOP OF DECK = 12'-6" U.O.N.
2. TOP OF STEEL = 12'-0 1/2" U.O.N.

- ① NOT USED.
- ② NOT USED.
- ③ PROVIDE 4 - 9"Ø BEAM PENETRATIONS CENTERED IN THE BEAM HT. AND EQUALLY SPACED ALONG THE LENGTH. PROVIDE STUDS @ 6" O.C. ALONG BM. LENGTH.COORDINATE W/ MECH. SUB.
- ④ 3- #7 BARS. ALIGN W/ LOW FLUTES OF DECK. 2 MAX. PER FLUTE.
- ⑤ 2- #7 BARS. ALIGN W/ LOW FLUTES OF DECK. 2 MAX. PER FLUTE.
- ⑥ FRAME AROUND OPENING PER 17B/S601. SIM.



100% CONSTRUCTION DOCUMENTS
NOVEMBER 19, 2015

		<div>CONSULTANTS:</div> <div><div><div><div></div><div>Degenkolb</div></div><div><div>DEGENKOLB ENGINEERS</div><div>235 Montgomery Street, Suite 500</div><div>San Francisco, CA 94104</div><div>415 392 6962 Phone</div><div>415 981 3157 Fax</div><div>www.degenkolb.com</div></div></div></div> <div><div><div><div></div><div>REGISTERED PROFESSIONAL ENGINEER</div><div>ROBERT M. GTR</div><div>No. 5113</div><div>EXP. 12/31/17</div><div>STRUCTURES</div><div>STATE OF CALIFORNIA</div></div></div></div>		<div>ARCHITECT</div> <div><div><div><div></div><div>POLYTECH ASSOCIATES INC.</div></div><div><div>235 Pine Street, 17th Floor</div><div>San Francisco, CA 94104</div><div>TEL (415) 397-3117</div><div>FAX (415) 397-1517</div></div></div></div>		<div>Drawing Title</div> <div>LOW ROOF WEST WING FRAMING PLAN</div>		<div>Project Title</div> <div>EXPAND COMMUNITY LIVING CENTER</div>		<div>Project Number</div> <div>570-218</div>		<div>Office of Construction and Facilities Management</div> <div><div><div></div><div>Department of Veterans Affairs</div></div></div>	
<div>Revisions:</div>		<div>Date</div>		<div>Approved: Project Director</div>		<div>Location</div> <div>2615 EAST CLINTON AVE FRESNO, CA 93703</div>		<div>Building Number</div> <div>31</div>		<div>Drawing Number</div> <div>SF104</div>			
						<div>Date</div> <div>09/01/14</div>		<div>Checked</div> <div>RG</div>		<div>Drawn</div> <div>JQS</div>			

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three inches = one foot

one and one half inches = one foot

one inch = one foot

three quarters inch = one foot

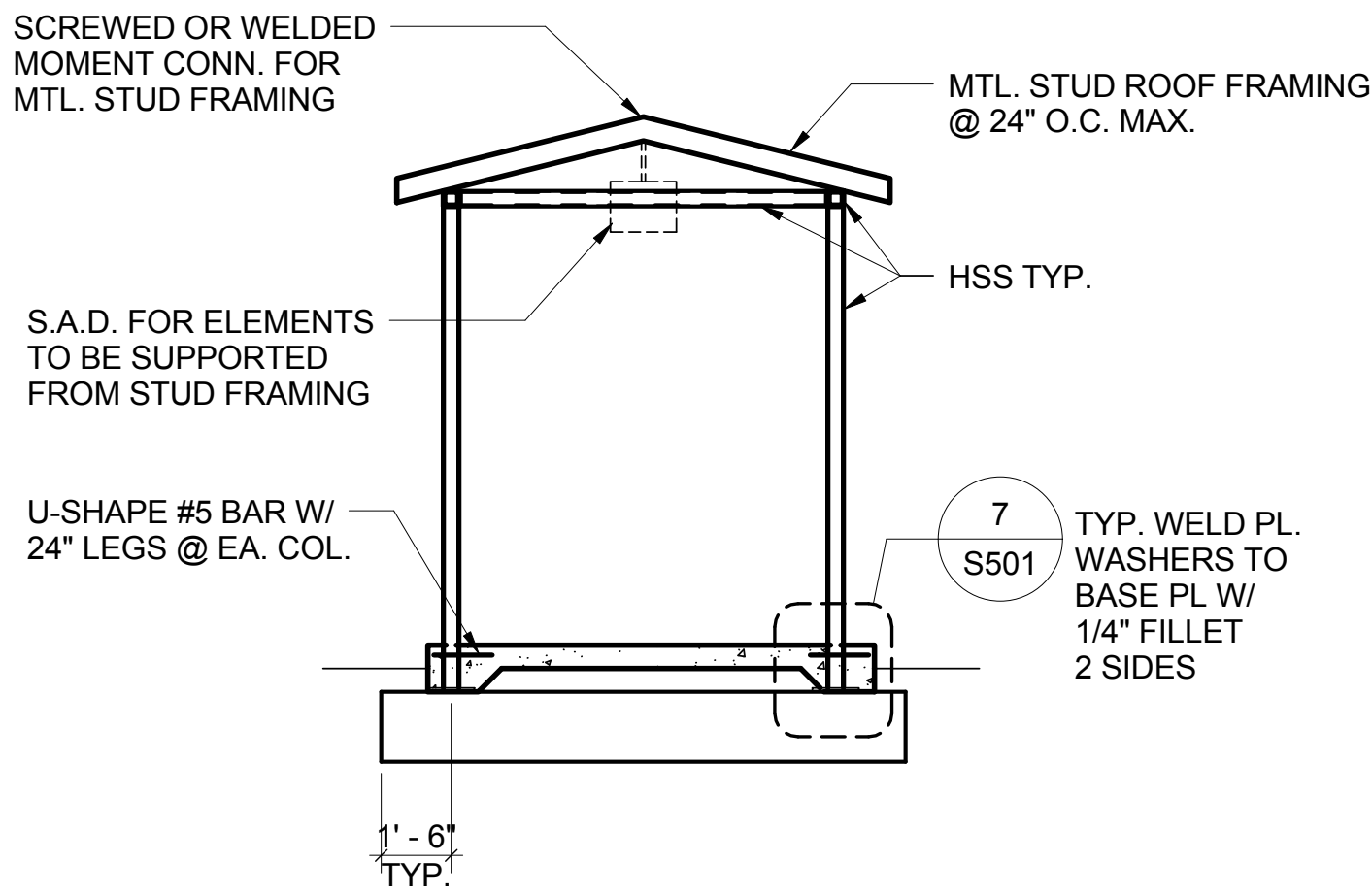
one half inch = one foot

three eighths inch = one foot

one quarter inch = one foot

one eighth inch = one foot

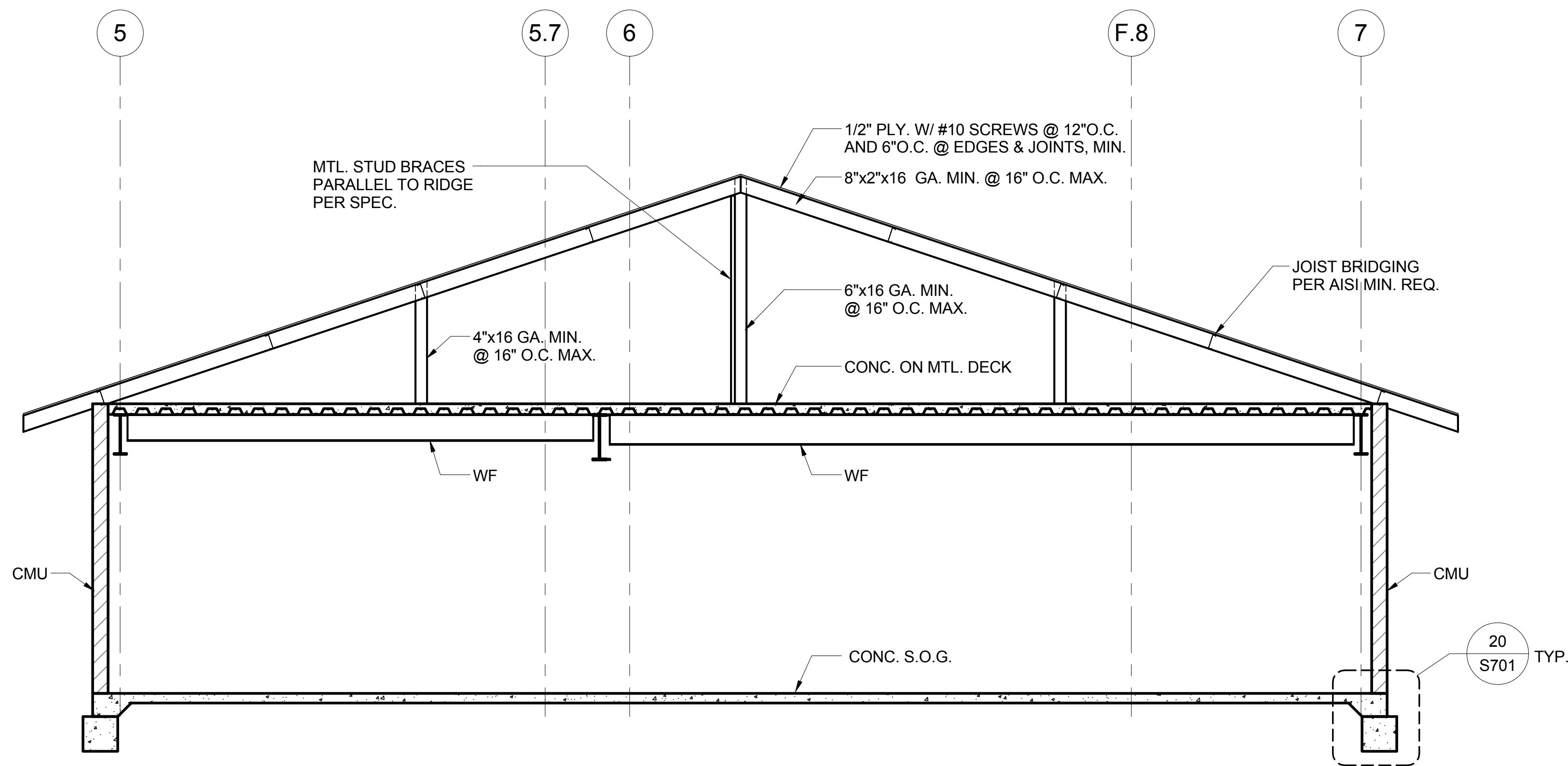
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NOTE:
METAL STUD ROOF FRAMING IS DESIGN BUILD PER SPECIFICATION 54000.

2 WALKWAY CANOPY

1/4" = 1'-0"



NOTE:
METAL STUD ROOF FRAMING IS DESIGN BUILD PER SPECIFICATION 54000.

1 TYPICAL ROOF SECTION

1/4" = 1'-0"

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NOVEMBER 19, 2015

CONSULTANTS:

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ARCHITECT

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TEL (415) 397-3117
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Drawing Title
BUILDING SECTIONS

Approved: Project Director

Project Title
EXPAND COMMUNITY LIVING CENTER

Location
2615 EAST CLINTON AVE
FRESNO, CA 93703

Date
09/01/14

Checked
RG

Drawn
JQS

Project Number
570-218

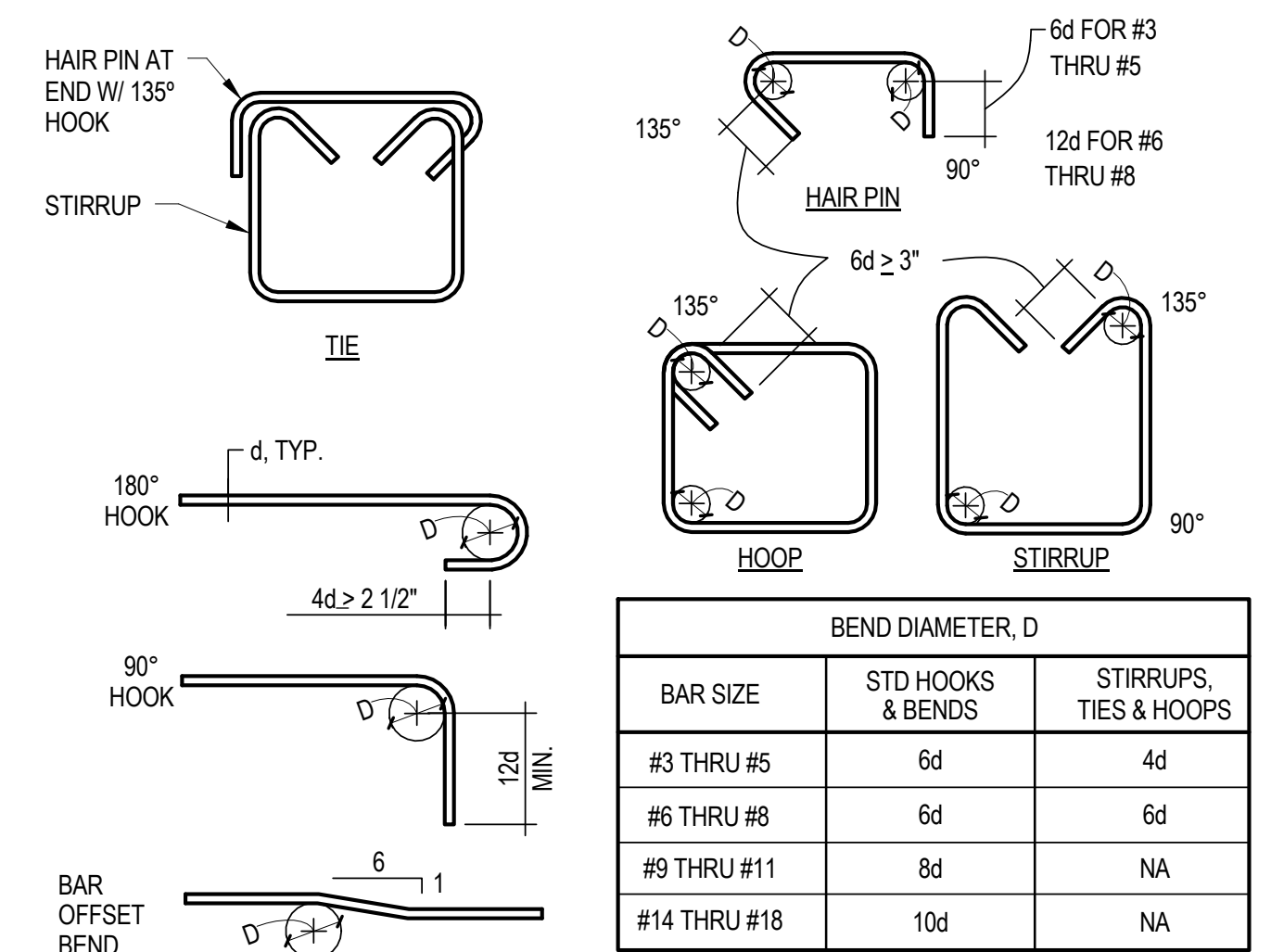
Building Number
31

Drawing Number

S201

Office of
Construction
and Facilities
Management





1 HOOKS & BENDS

CONCRETE REINFORCING DEVELOPMENT & SPLICE LENGTHS																																			
BAR LOCATION		CONCRETE		BAR SIZE																															
				#3		#4		#5		#6		#7		#8		#9		#10		#11		#14		#18											
		TYPE	STRENGTH	f_d	f_s	f_{dh}	f_d	f_s	f_{dh}	f_d	f_s	f_{dh}	f_d	f_s	f_{dh}	f_d	f_s	f_{dh}	f_d	f_s	f_{dh}	f_d	f_s	f_{dh}	f_d	f_s	f_{dh}	f_d	f_s	f_{dh}	f_d	f_s	f_{dh}		
CONC. WALL VERT. REINF. COLUMNS, BEAM BOT. REINF. SLAB ON-GRADE FOOTING BOT. REINF.	NWC	$f_c \geq 3ksi$	17	22	6	22	29	8	28	36	10	33	43	12	48	63	14	55	72	16	62	81	18	70	91	20	78	101	22	93	38	124	50		
	NWC	$f_c \geq 3ksi$	22	28	6	29	38	8	36	47	10	43	56	12	63	81	14	72	93	16	81	105	18	91	118	20	101	131	22	121	38	161	50		
	LWC	$f_c \geq 3ksi$	22	28	9	29	38	11	36	47	14	43	56	17	63	81	20	72	93	22	81	105	25	91	118	28	101	131	31	121	38	161	50		

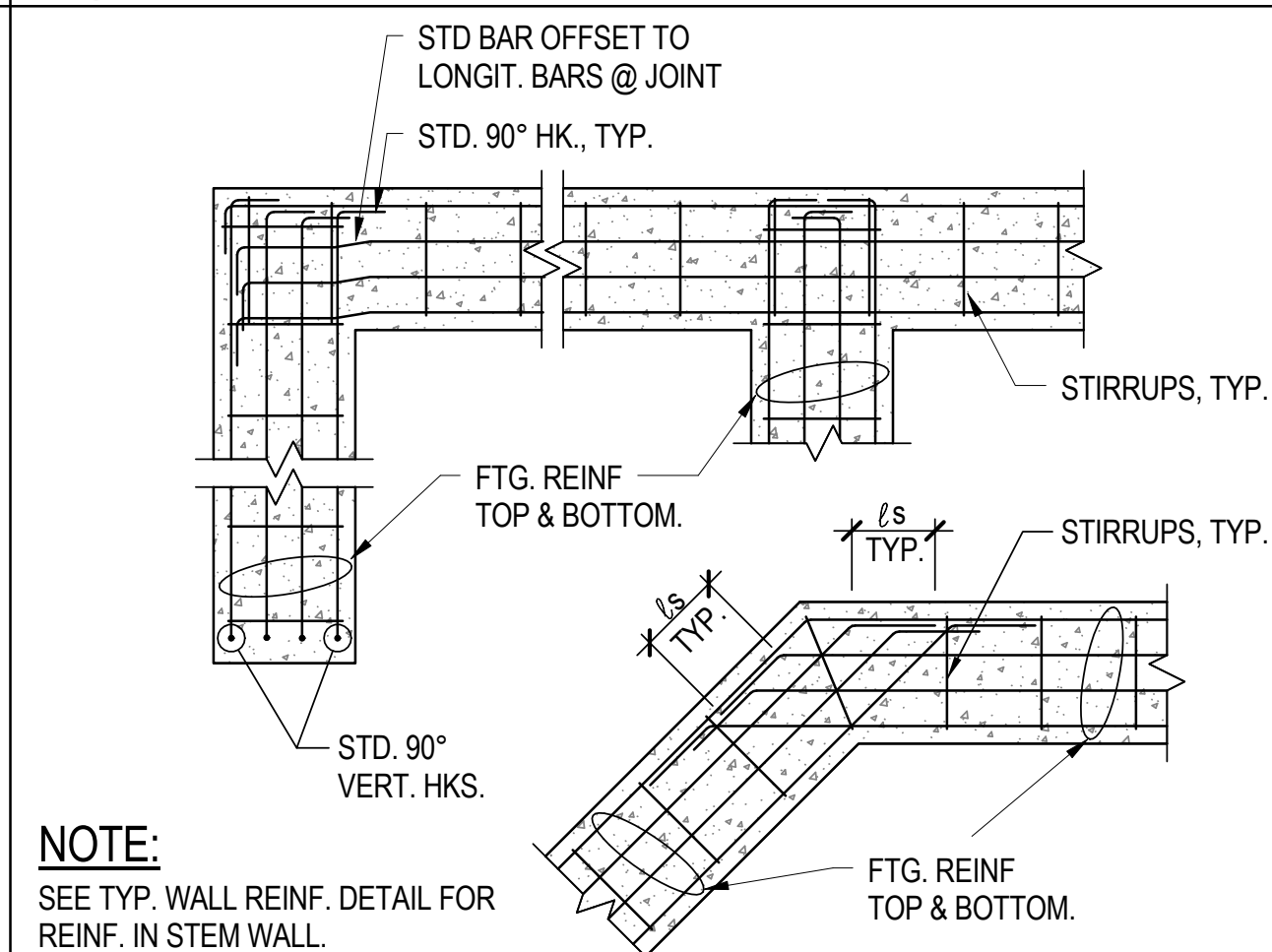
NOTES:

1. ℓ_d = DEVELOPMENT LENGTH

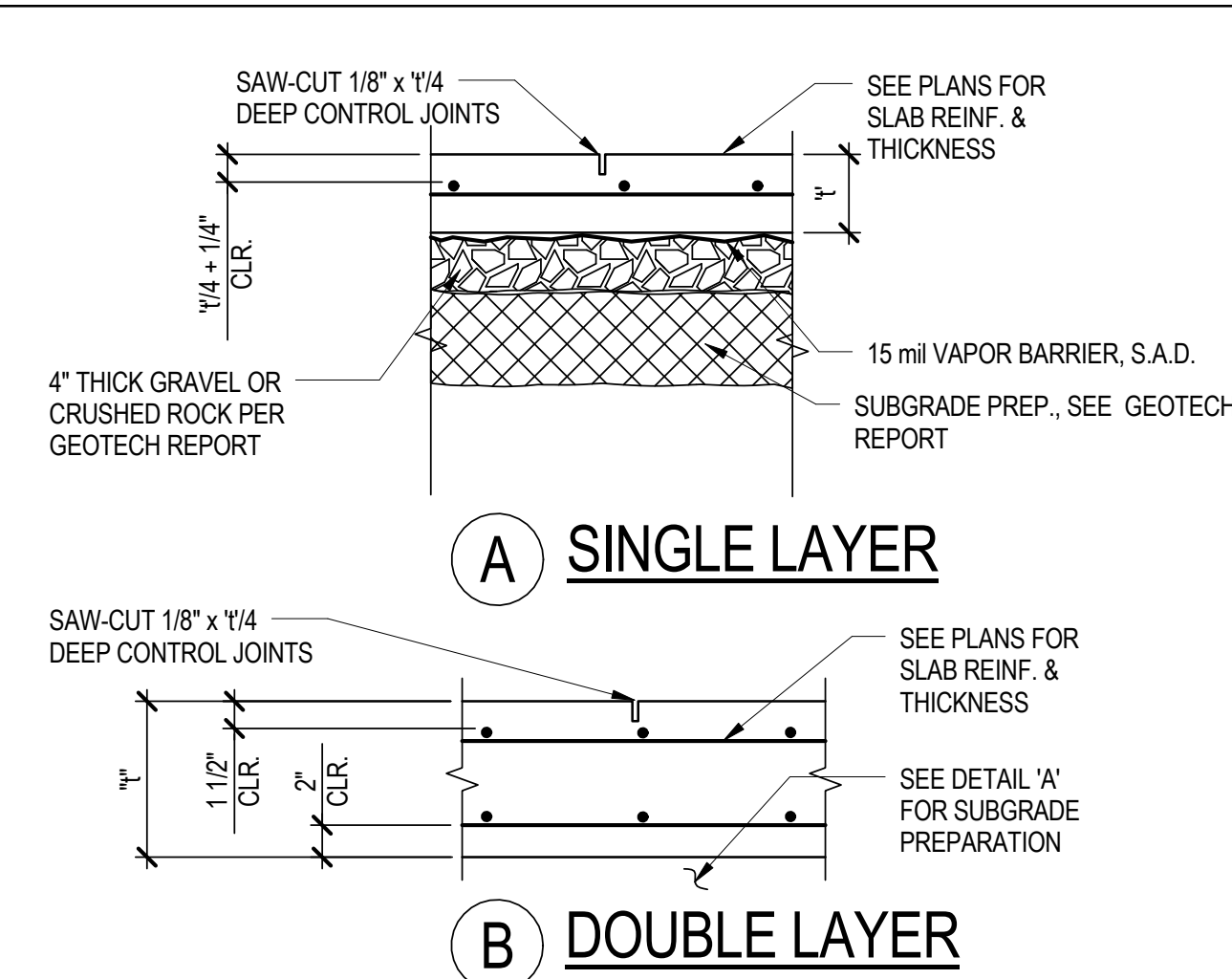
ℓ_s = LAP SPLICE LENGTH

ℓ_{dh} = HOOK DEVELOPMENT LENGTH

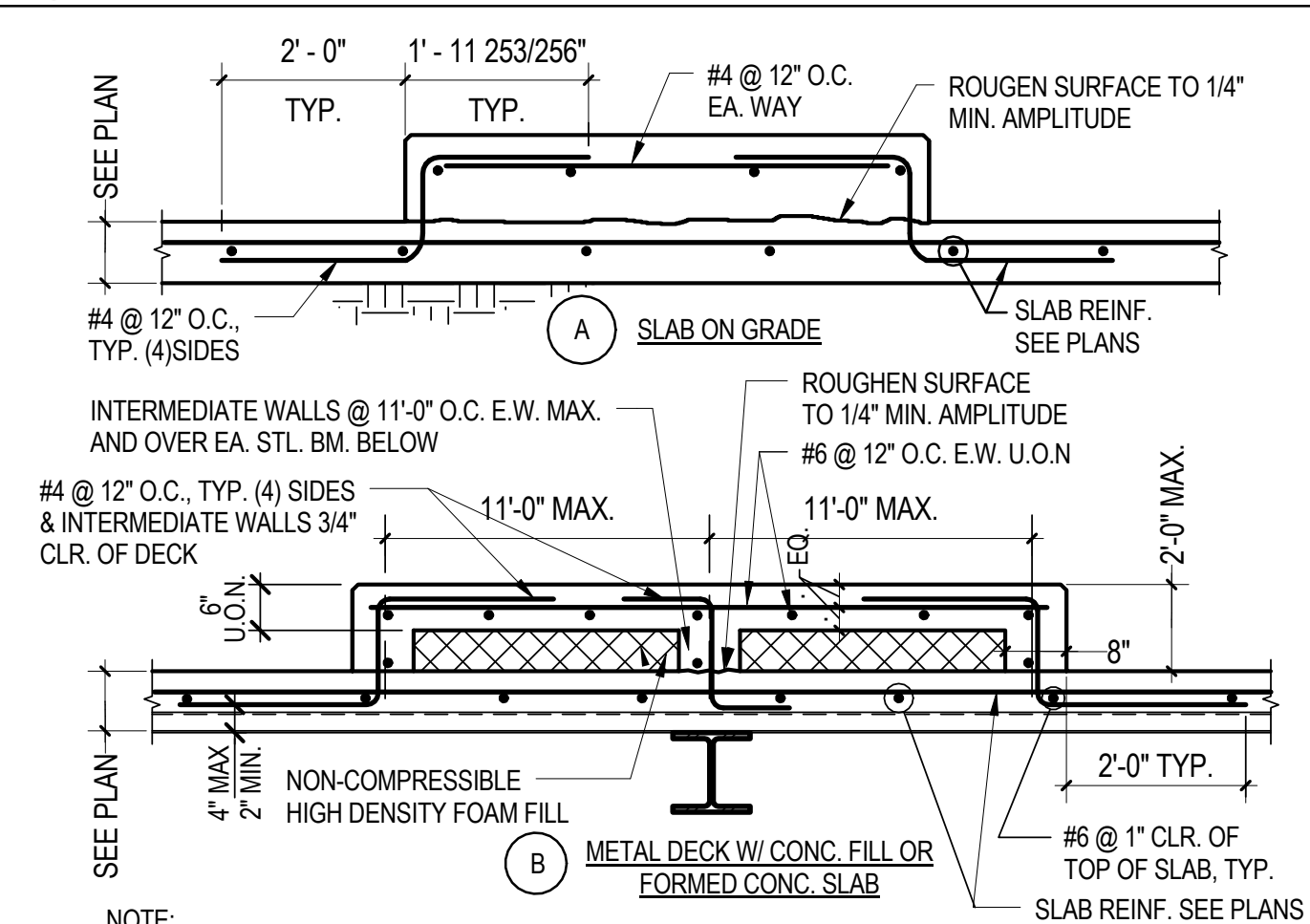
18 REINFORCING DEVELOPMENT & SPLICE LENGTHS



8 FOOTING REINF. CORNERS & INTERSECTIONS



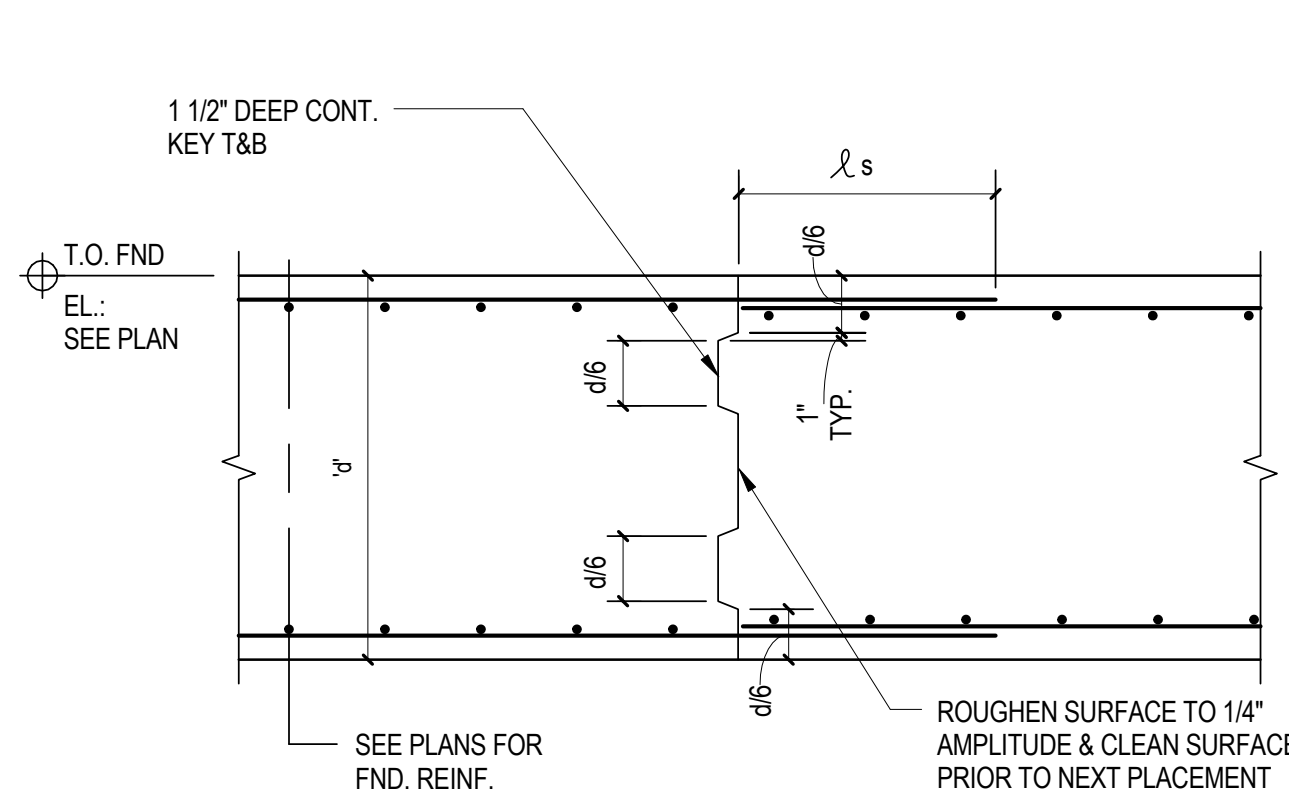
6 SOG CONTROL JT & SUBGRADE PREP
N.T.S.



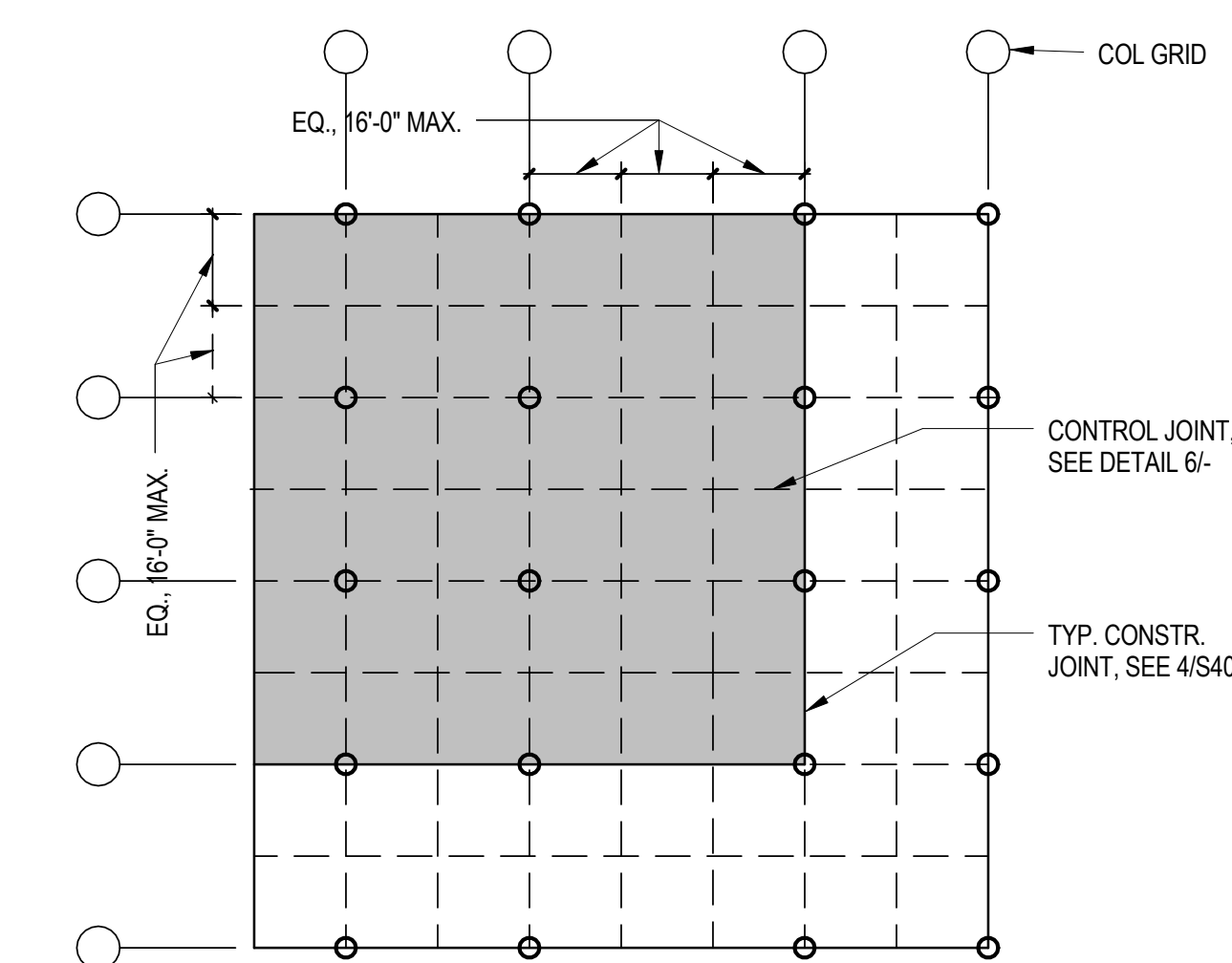
2 HOUSEKEEPING PAD
N.T.S.

[illegible]

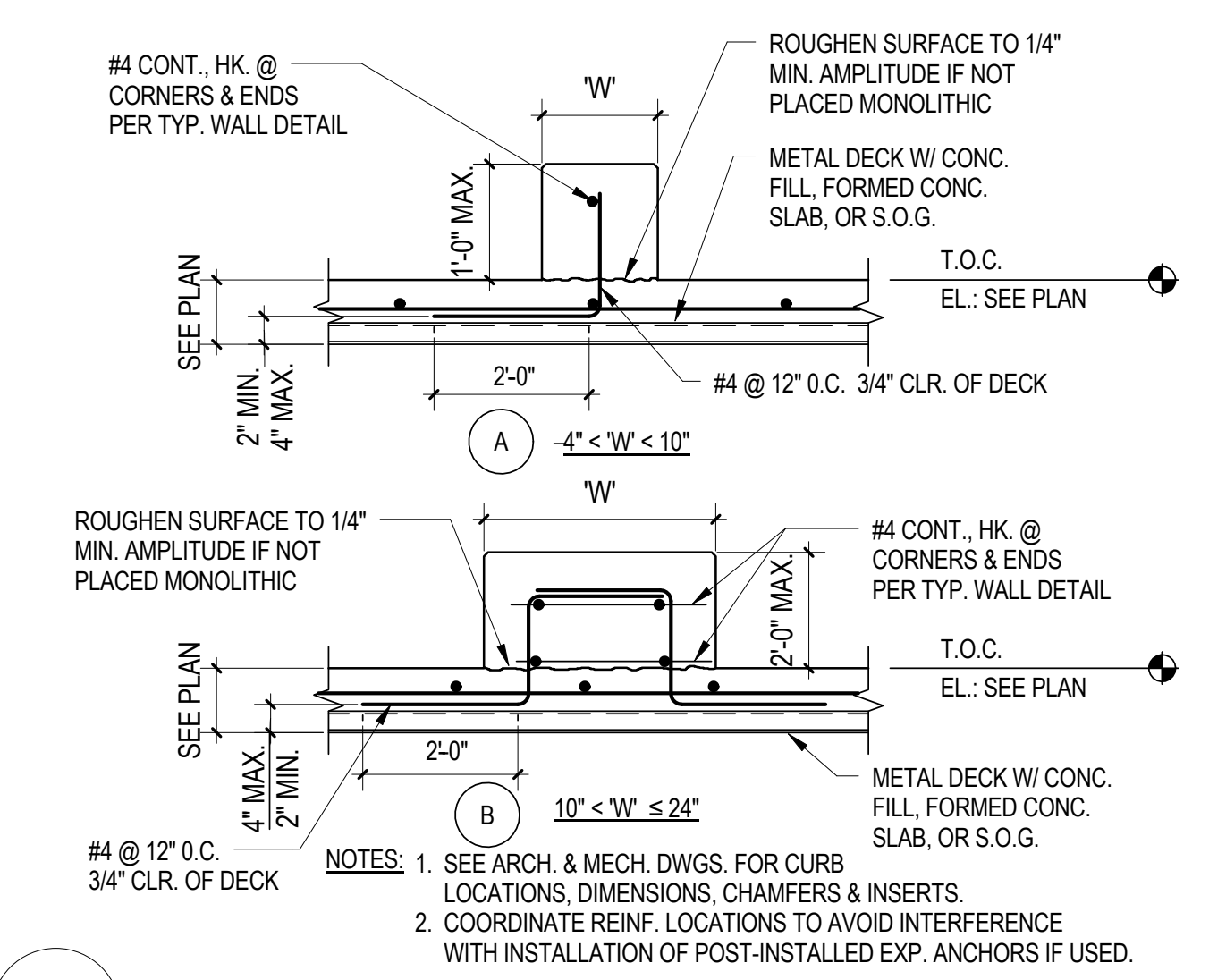
19 FOOTING SCHEDULE
N.T.S.



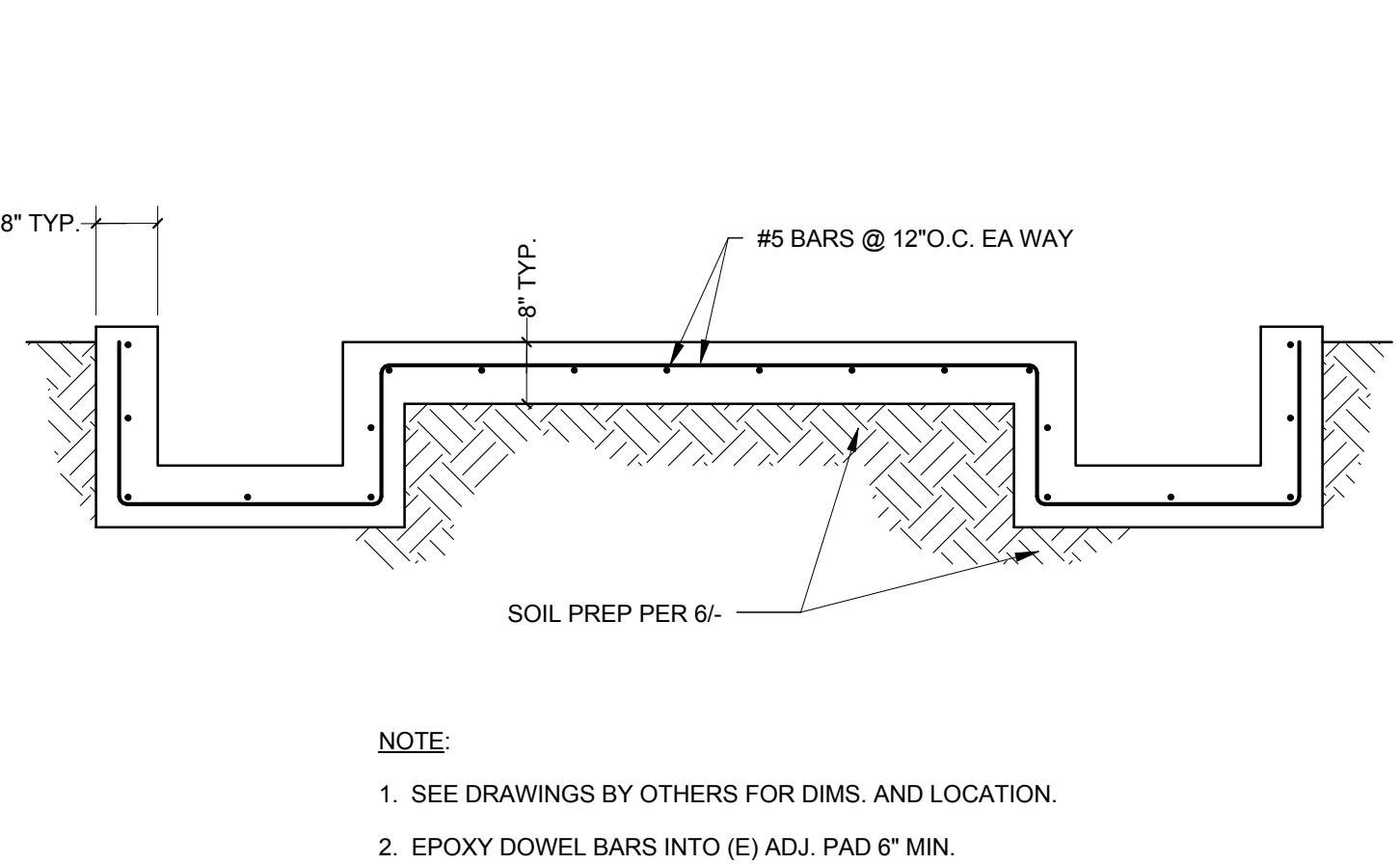
11 FOUNDATION CONSTRUCTION JOINT
N.T.S.



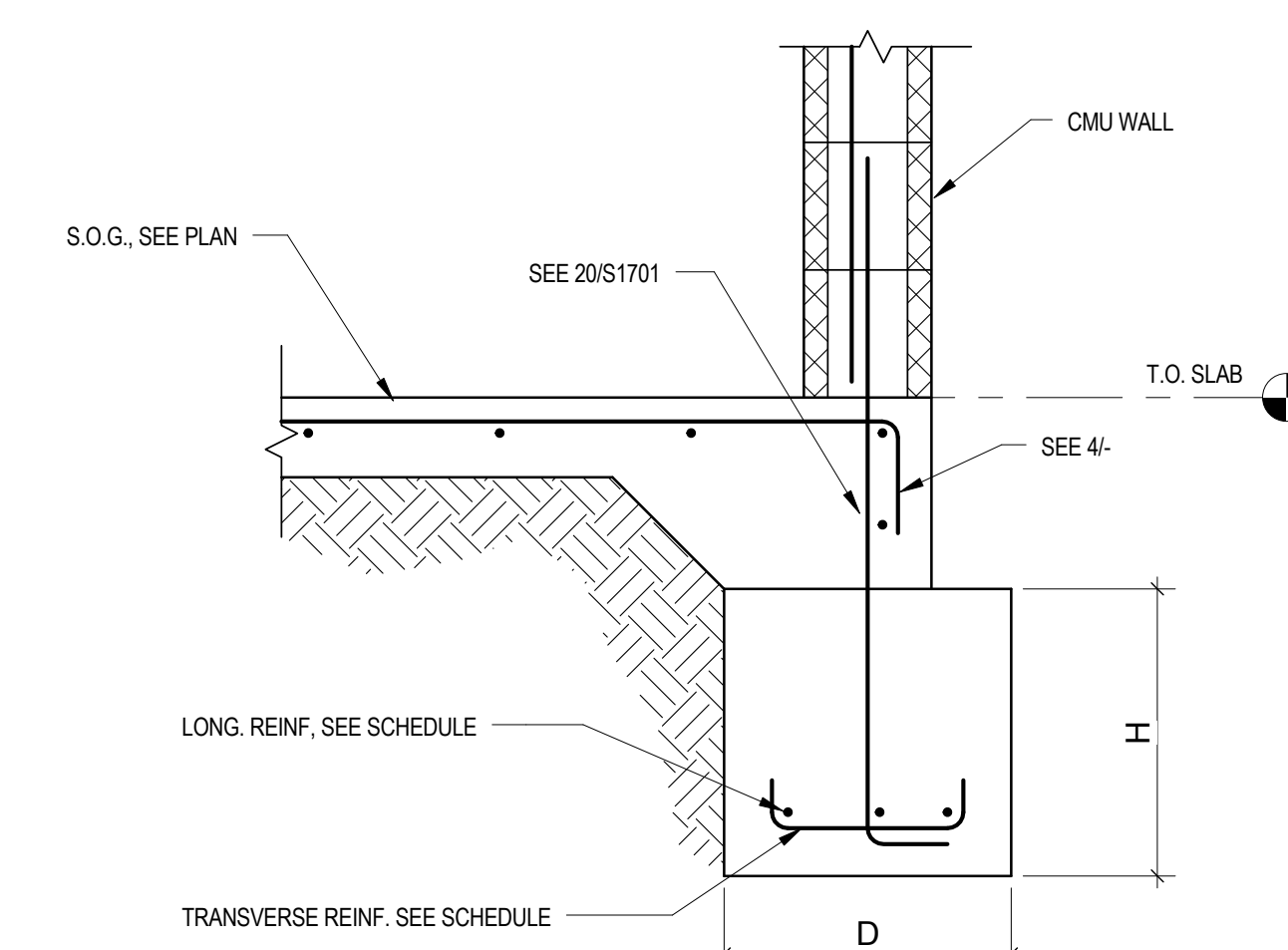
7 CONTROL JTS. IN SOG
N.T.S.



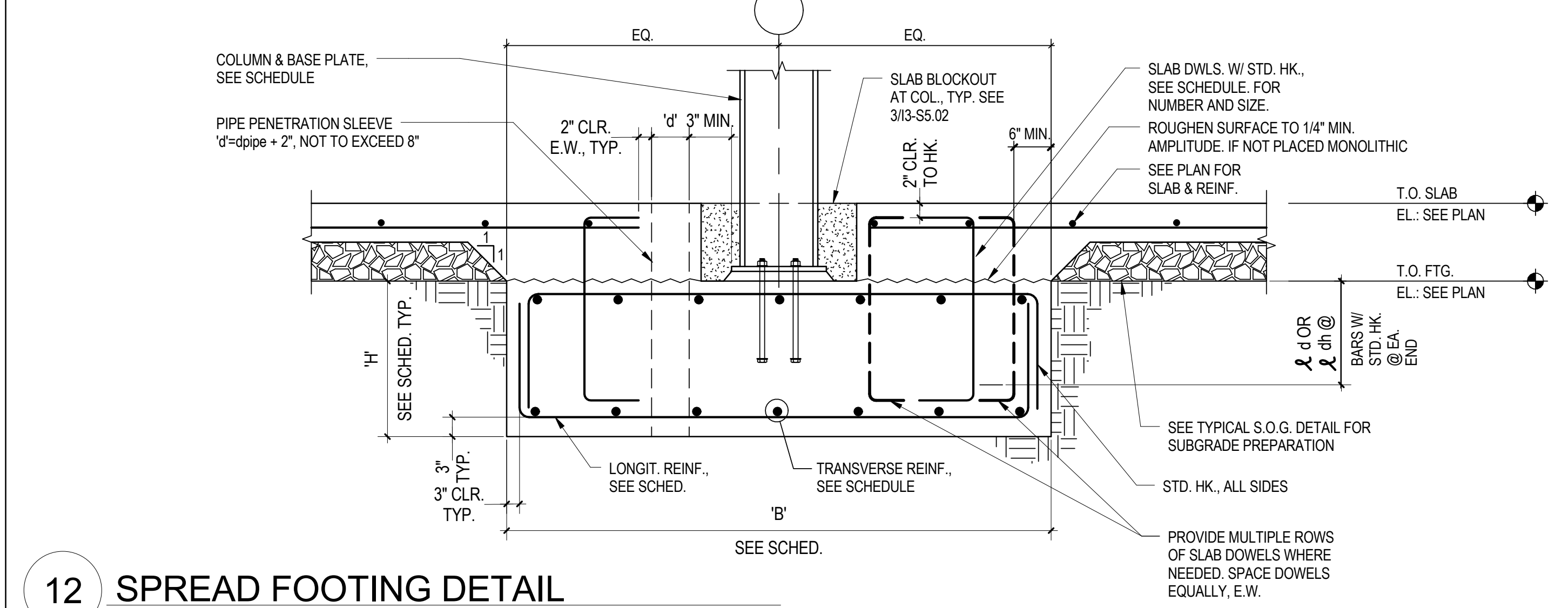
3 CONCRETE CURB



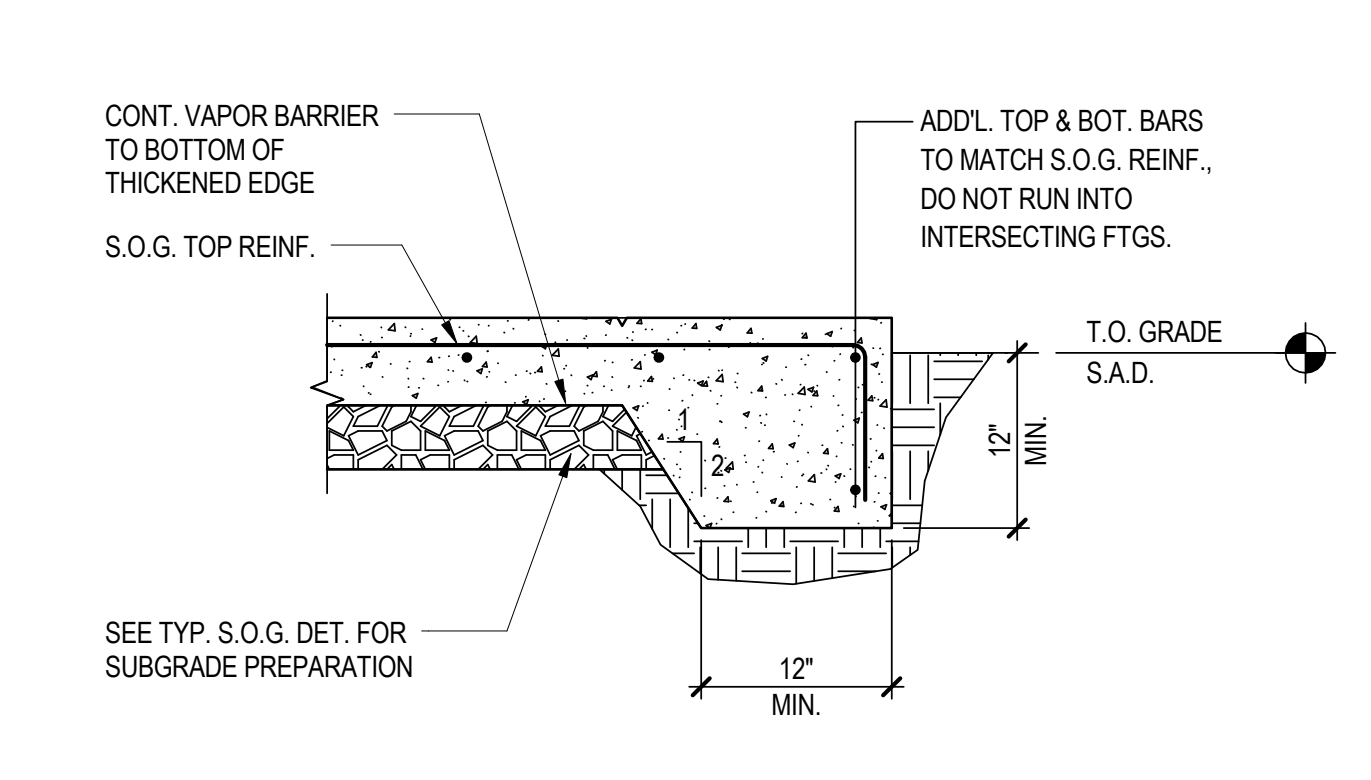
20 TRANSFORMER PAD
1/2" = 1'-0"



16 CONTINUOUS FOOTING DETAIL



12 SPREAD FOOTING DETAIL
N.T.S.

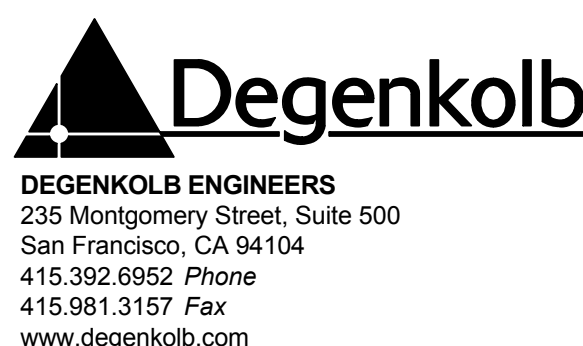


4 SOG FREE EDGE
N.T.S.

100% CONSTRUCTION DOCUMENTS
NOVEMBER 19, 2015

[illegible]

CONSULTANTS:



ARCHITECT

POLYTECH ASSOCIATES INC.
235 Pine Street, 17th Floor
San Francisco, CA 94104
TEL (415) 397-3117
FAX (415) 397-1517

Drawing Title
TYPICAL CONCRETE DETAILS

Approved: Project Director

Project Title	EXPAND COMMUNITY LIVING CENTER
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Location
2615 EAST CLINTON AVE
FRESNO, CA 93703

Project Number	570-218
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Building Number

Drawing Number:

S401

Office of
Construction
and Facilities
Management



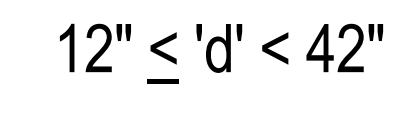
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5

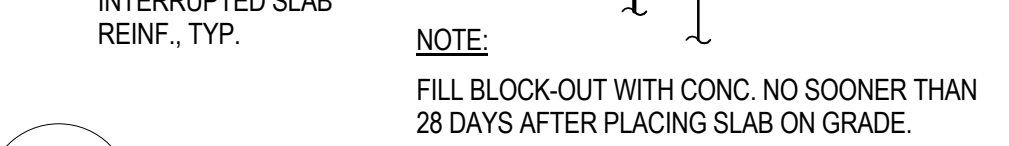


6



NOTE:

2



3




NOTE:

4

Office of
Construction
and Facilities
Management



CONSULTANTS:

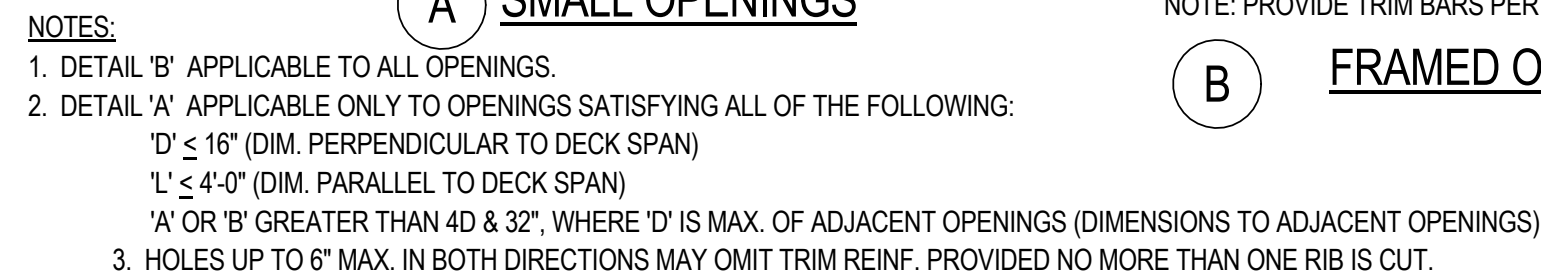
 **Degenkolb**

DEGENKOLB ENGINEERS
235 Montgomery Street, Suite 500
San Francisco, CA 94104
415.392.6952 Phone
415.981.3157 Fax
www.degenkolb.com



Project Title EXPAND COMMUNITY LIVING CENTER		
Location 2615 EAST CLINTON AVE FRESNO, CA 93703		
Date 09/01/14	Checked RG	Drawn JQS

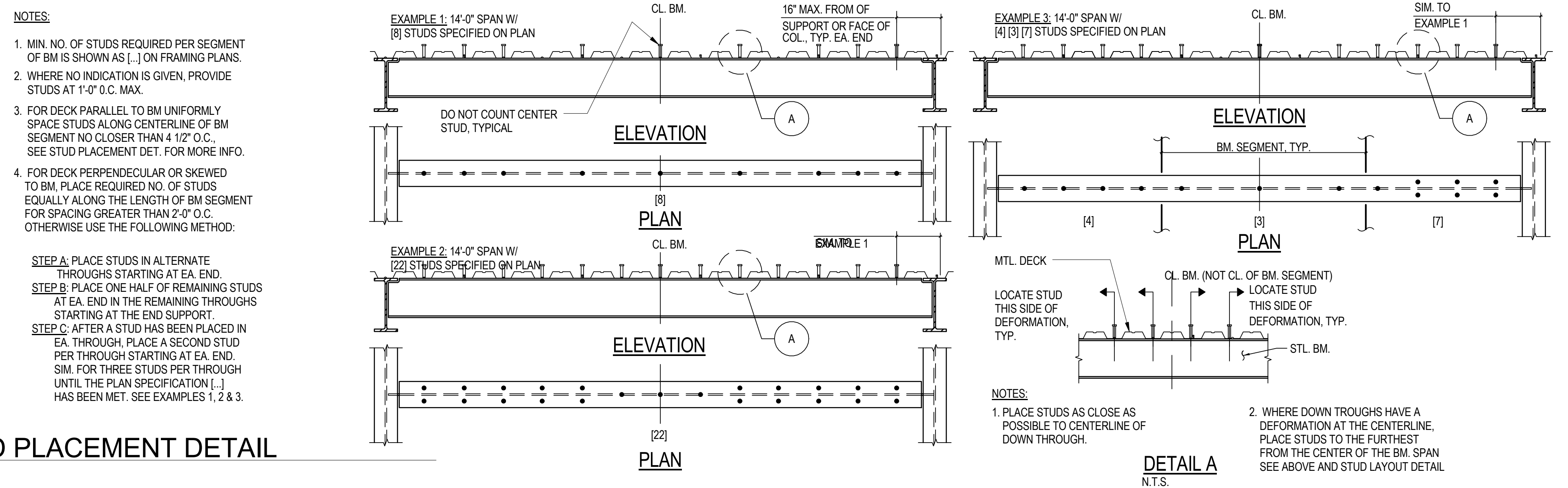
Project Number 570-218	<div>Office of Construction and Facilities Management</div> <div>  Department of Veterans Affairs </div>
Building Number 31	
Drawing Number S402	



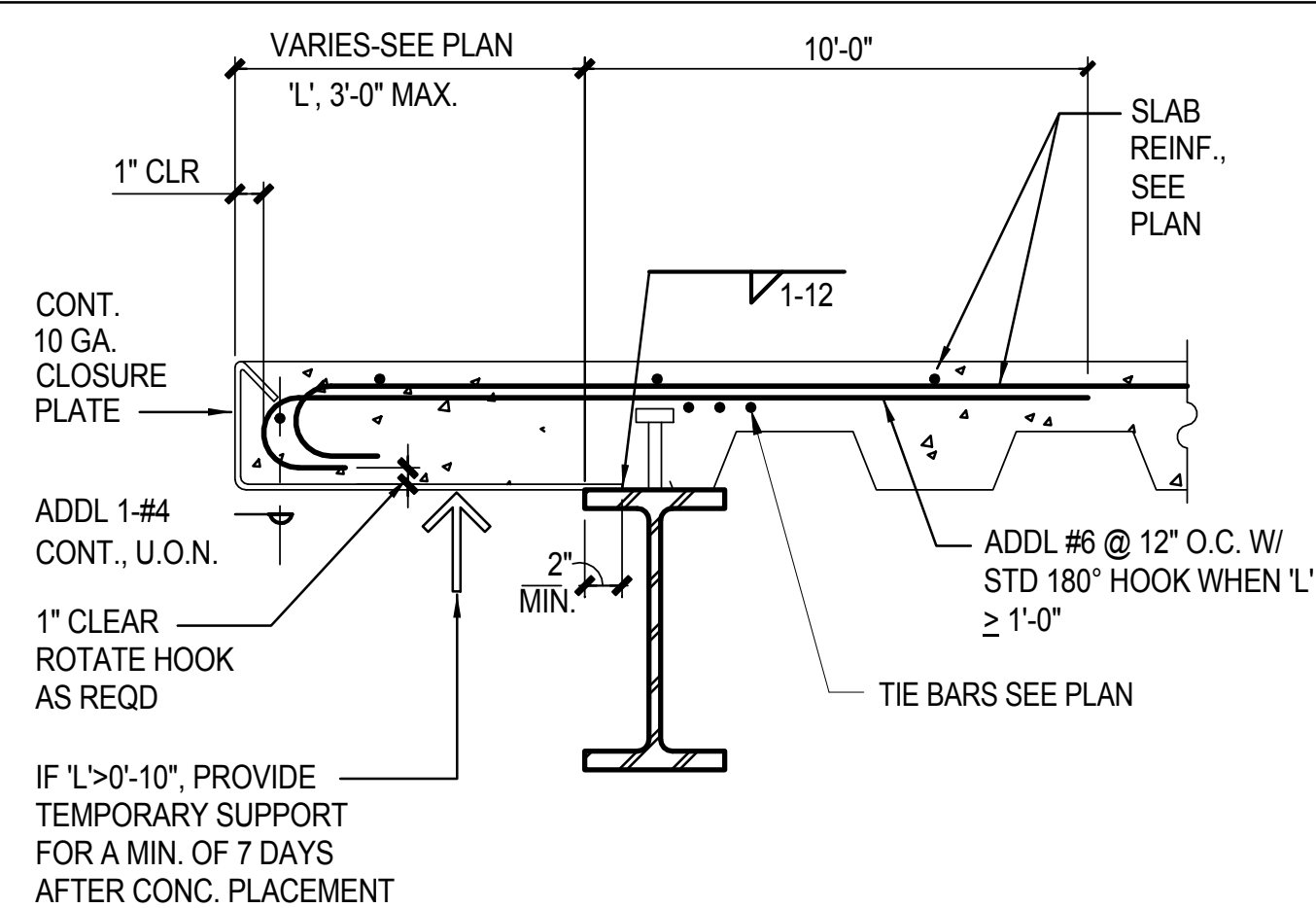
17 REINFORCING
N.T.S.

[illegible]

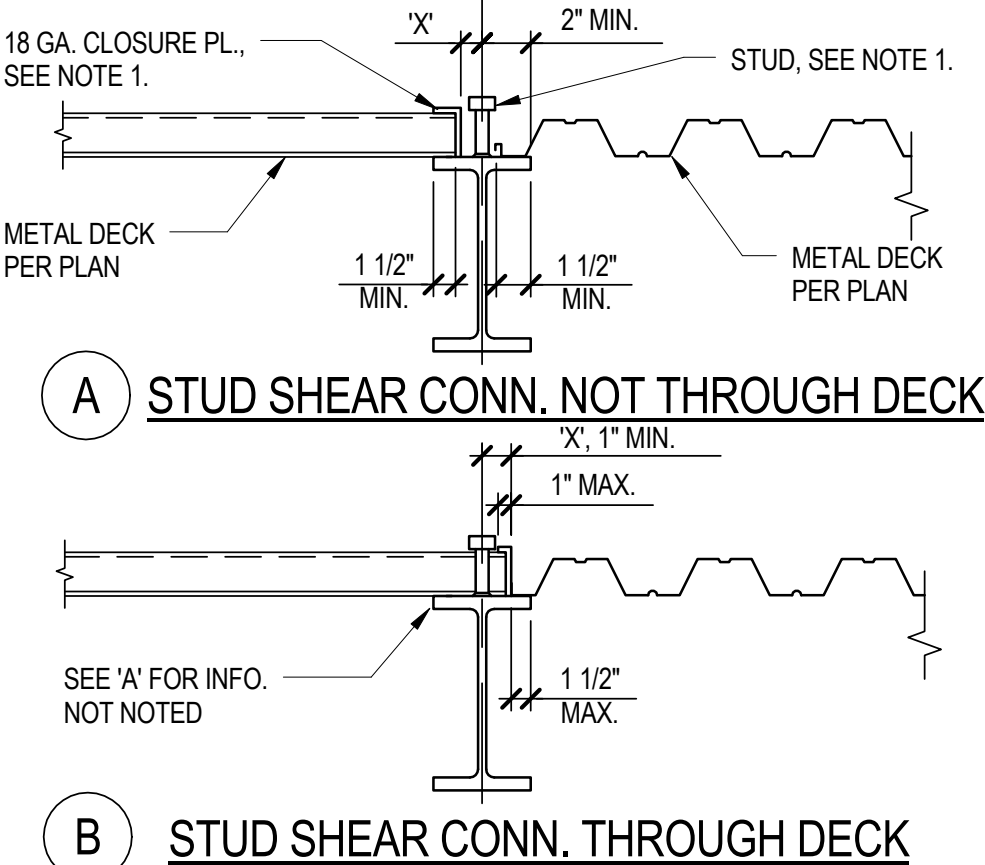
10 METAL DECK SCHEDULE
N.T.S.



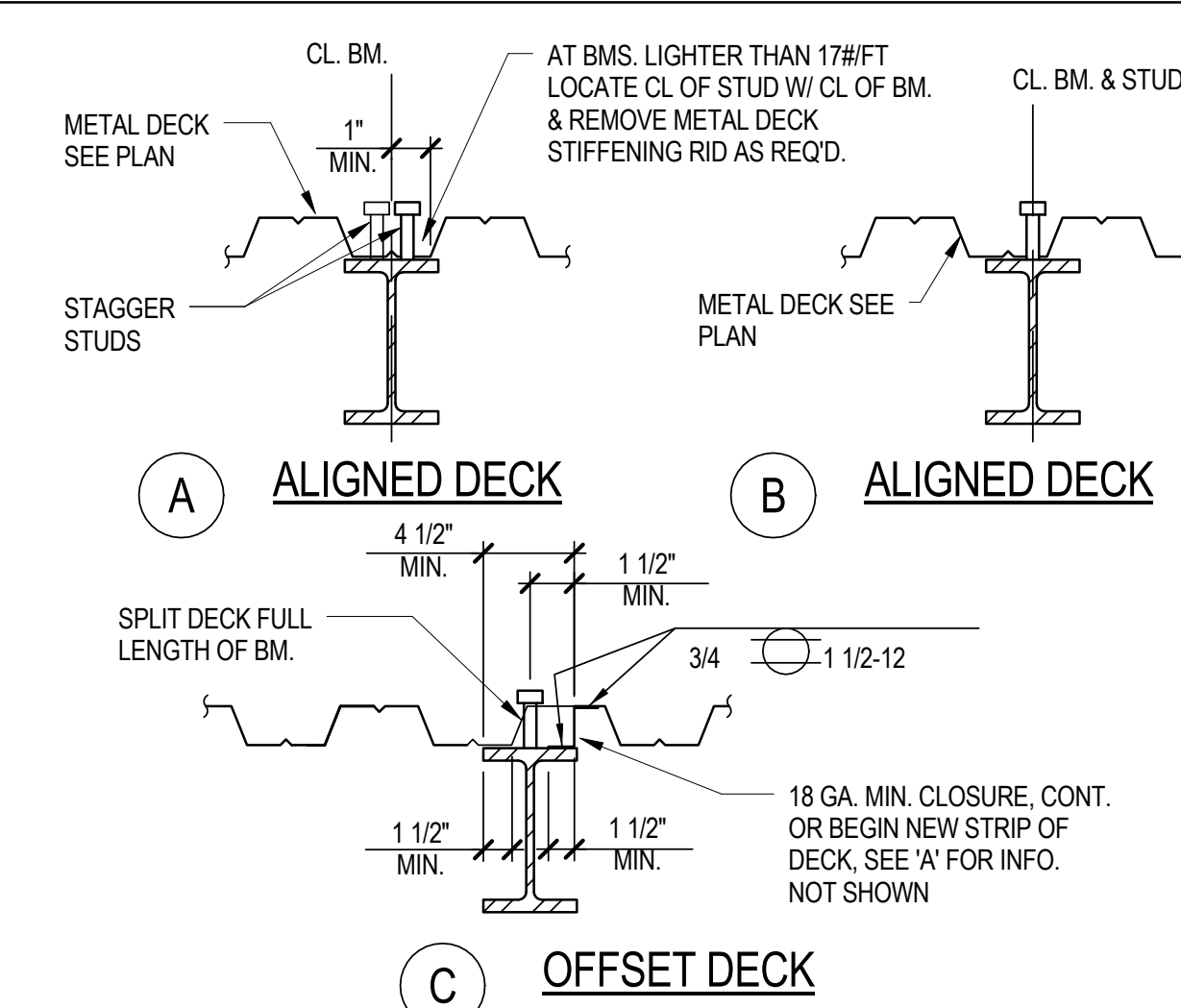
11 STUD PLACEMENT DETAIL
N.T.S.



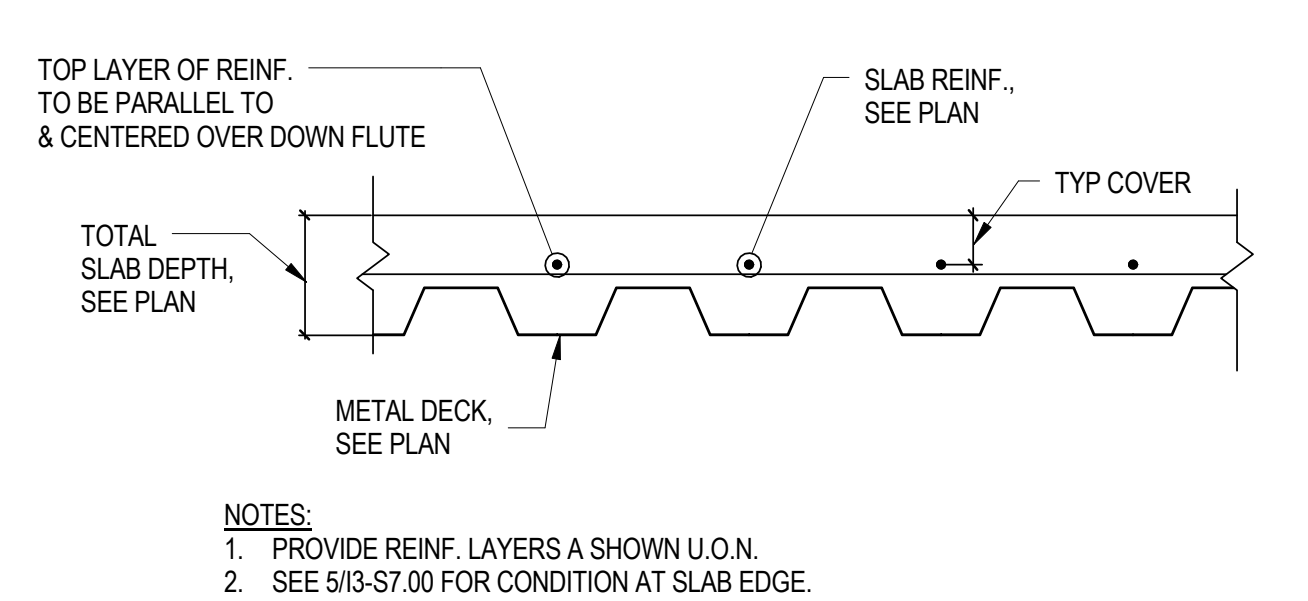
16 SLAB EDGE NOT @ CMU WALL
N.T.S.



12 DECK TRANSITION
N.T.S.



8 STUD DETAIL
N.T.S.

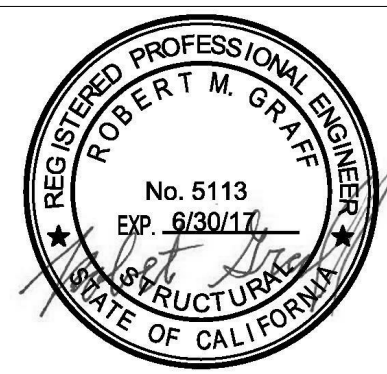


4 METAL DECK CONC. FILL
NTS

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[illegible]

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FAX (415) 397-1517

Drawing Title
TYPICAL METAL DECK DETAILS

Approved: Project Director

Project Title	EXPAND COMMUNITY LIVING CENTER
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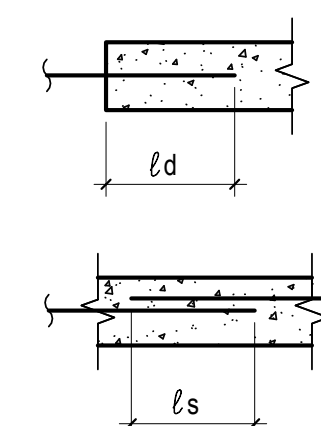
Location	2615 EAST CLINTON AVE FRESNO, CA 93703
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Checked RG	Drawn JQS
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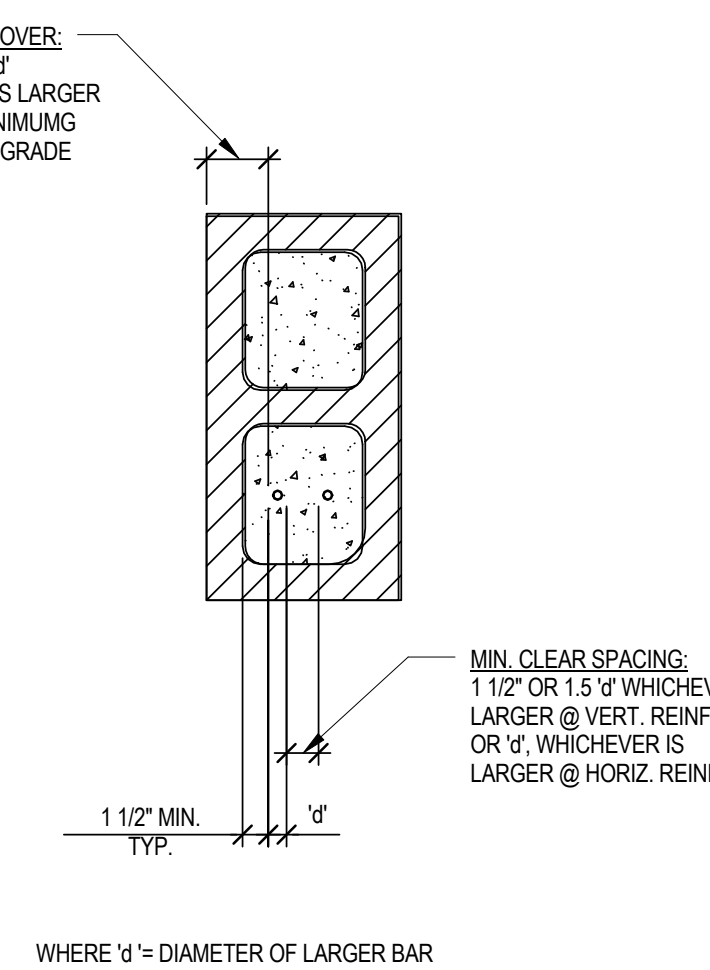
Project Number	570-218
Building Number	31
Drawing Number	S60

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MIN. CLEAR COVER: —



N.T.S.

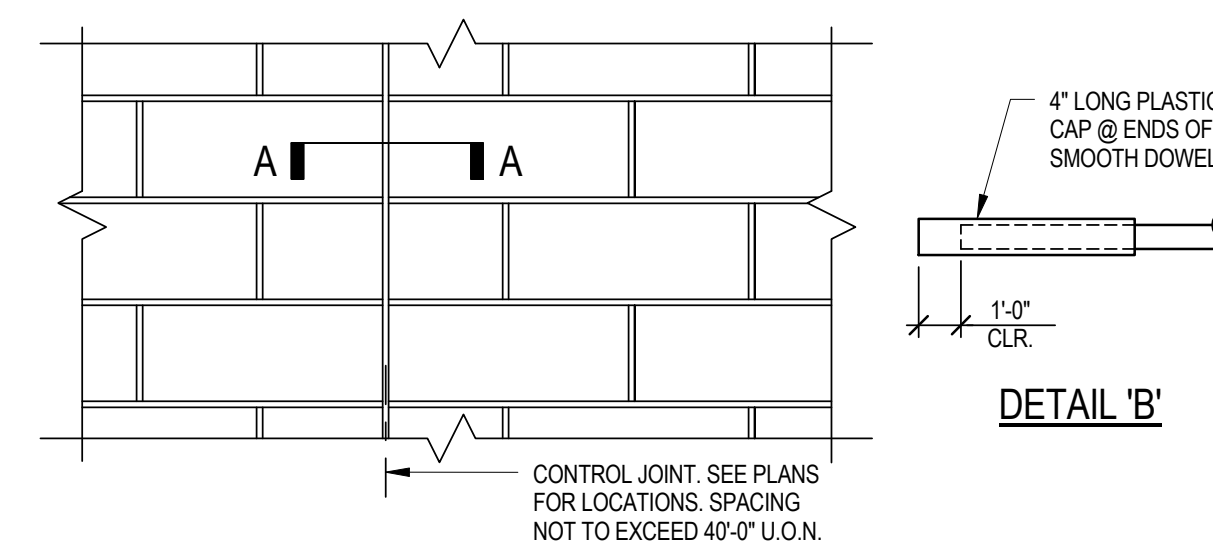


Diagram illustrating the placement of vertical reinforcement (VERT. REINF.) in a brick wall construction, showing two views of the wall structure.

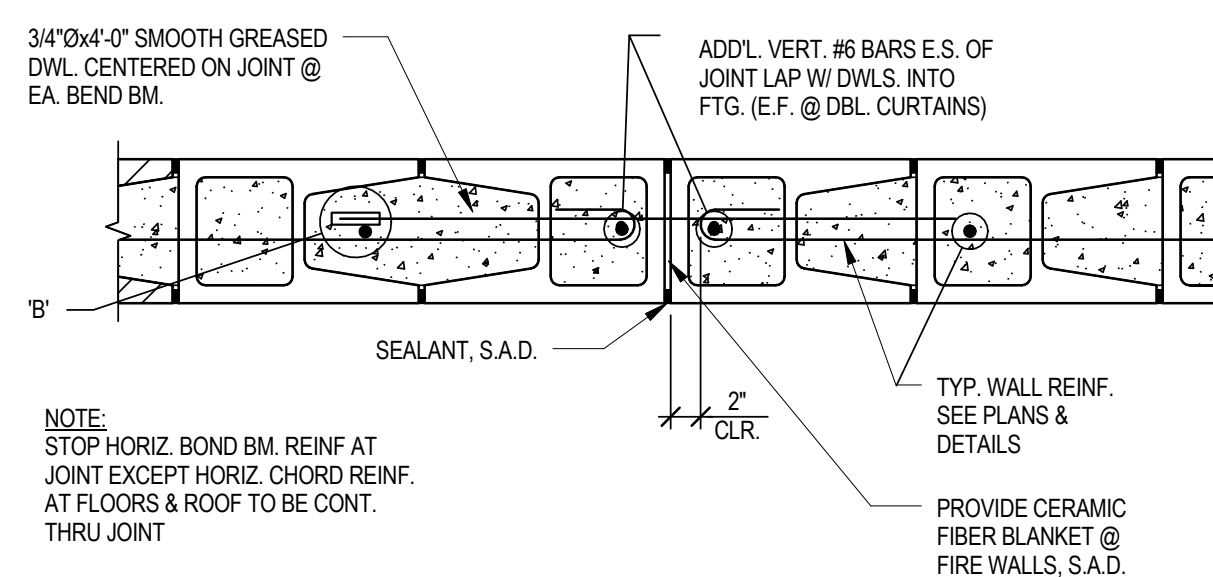
Left View (Corner Joint):

- VERT. REINF. TO BE PLACED IN OPEN END OF UNITS**: Vertical reinforcement bars are placed in the open ends of the units.
- CLEAN OUT @ EA. REINF. CELL @ BOT. OF POUR FOR HIGH LIFT GROUTING**: The bottom of the reinforcement cell is cleaned out for high lift grouting.
- RUNNING BOND, U.O.N. TYP.**: The wall is constructed in running bond, U.O.N. TYP.
- 16" LONG UNITS W/ VERT. REINF. @ 16" O.C. (32" O.C. & 40" O.C. SIM.)**: 16" long units with vertical reinforcement at 16" O.C. (32" O.C. & 40" O.C. SIM.).
- 24" LONG UNITS W/ VERT. REINF. @ 32" O.C. (40" O.C. SIM.)**: 24" long units with vertical reinforcement at 32" O.C. (40" O.C. SIM.).

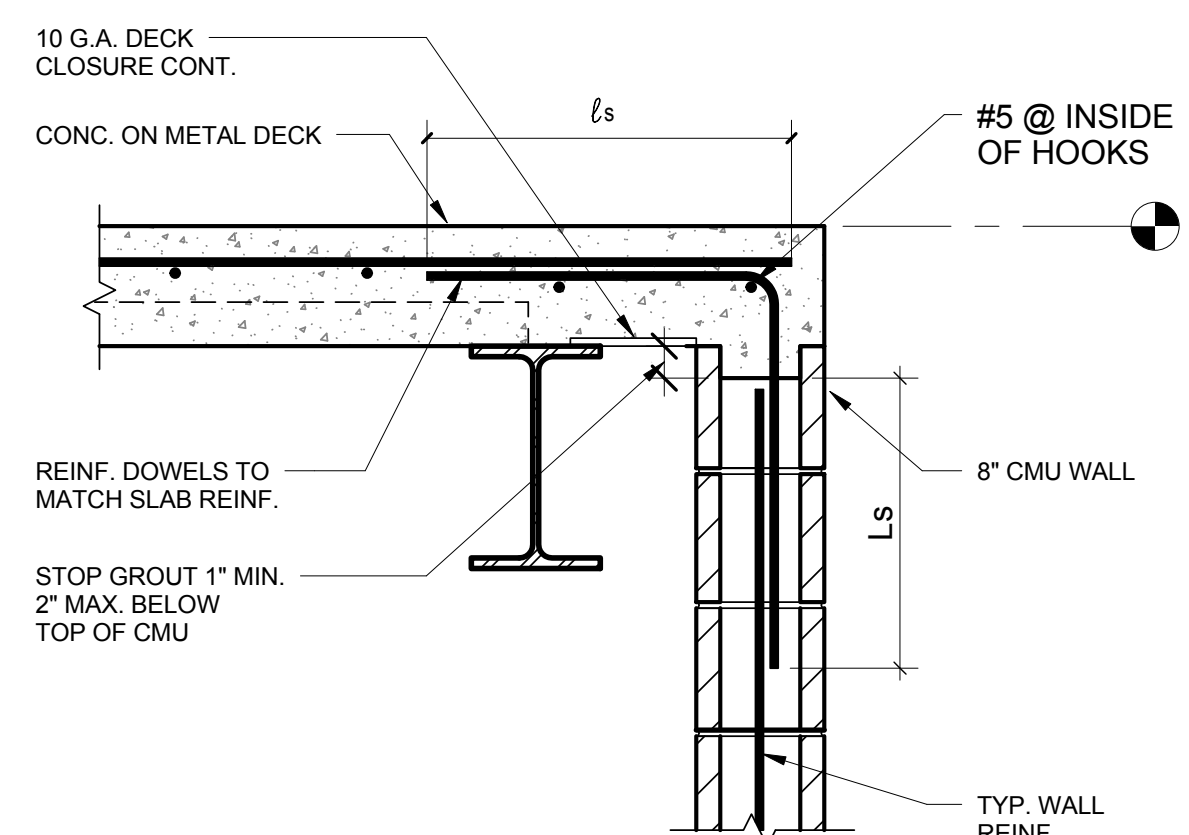
Right View (Vertical Joint):

- VERT. REINF. PLACED IN OPEN END OF UNITS**: Vertical reinforcement bars are placed in the open ends of the units.
- SEE TYP. DET. FOR CORNERS, INTERSECTIONS, & ENDS**: Refer to typical details for corners, intersections, and ends.
- 16" LONG UNITS W/ VERT. REINF. @ 24" O.C. (40" O.C. SIM.) 24" UNITS W/ VERT. REINF. @ 32" O.C.**: 16" long units with vertical reinforcement at 24" O.C. (40" O.C. SIM.) and 24" units with vertical reinforcement at 32" O.C.
- FILL HEAD JOINTS W/ MORTAR MATCH SHELL THICKNESS**: Fill head joints with mortar matching shell thickness.

ELEVATION _____




NTS



<u>ISOMETRIC (DBL. CURTAIN SIM.)</u>			
WALL REINFORCING SCHEDULE			
NOM. WALL THICKNESS "I"	VERT. REINF.	HORIZ. REINF.	REMARKS
8"	#5 @ 16" O.C.	#4 @ 24" O.C.	

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