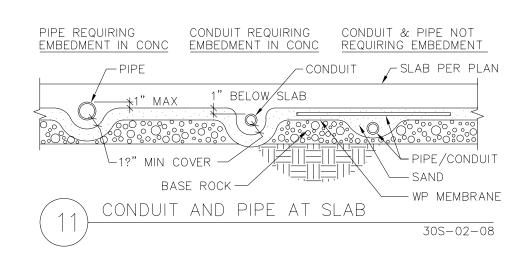
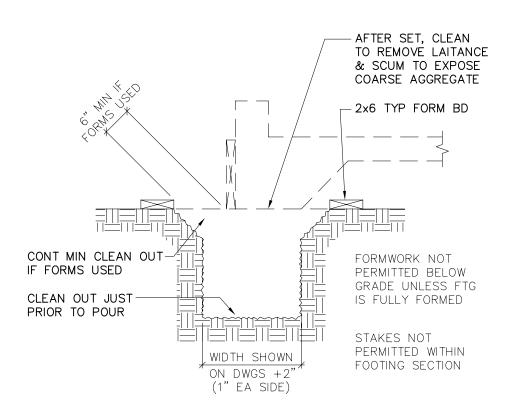
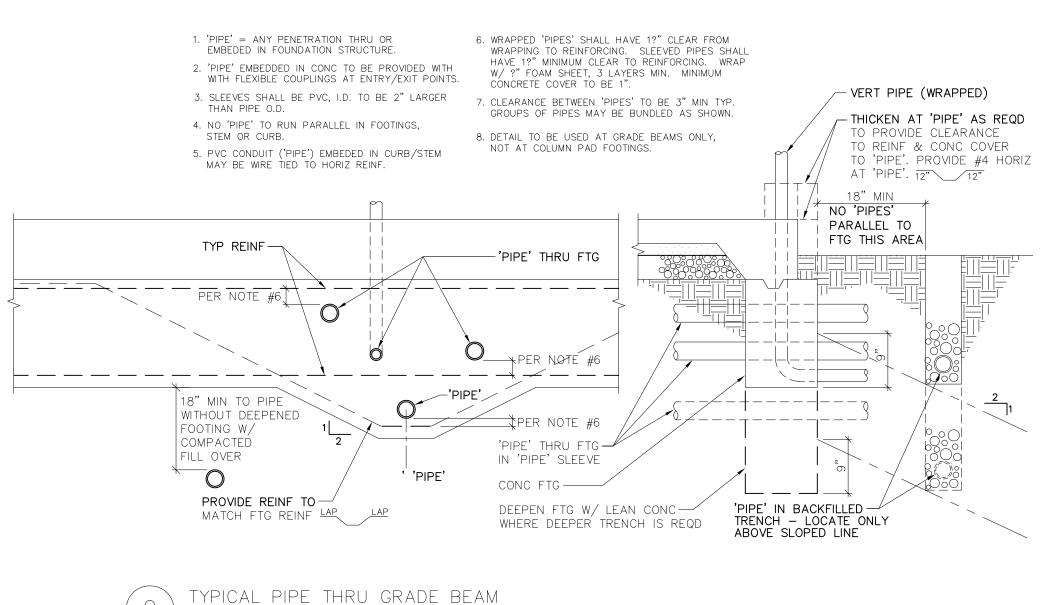


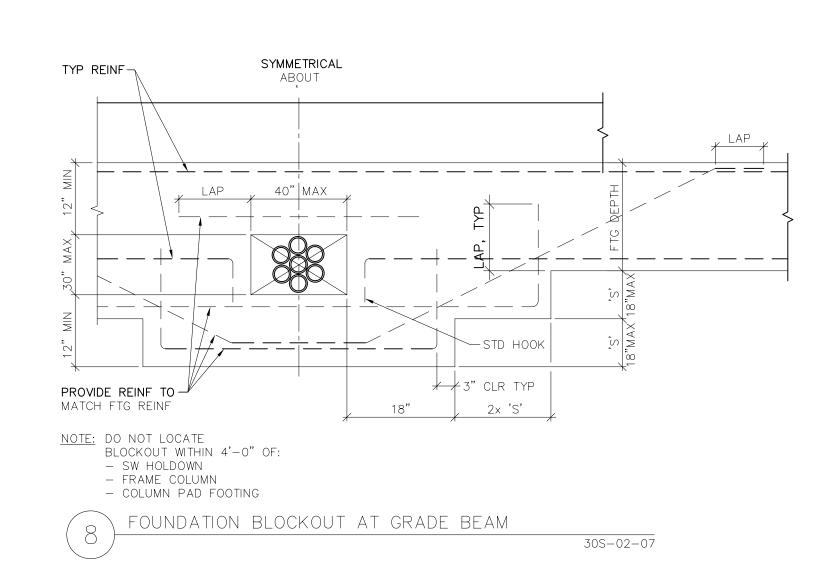
TYP NEW CONCRETE CURB AT (E) CONC SLAB

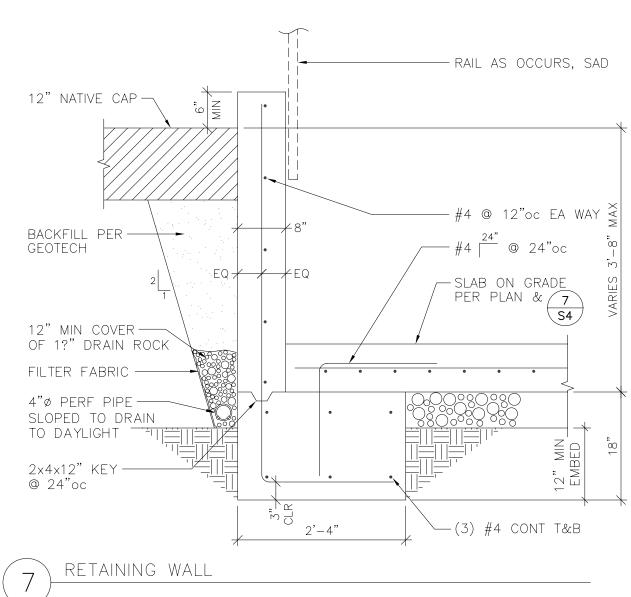




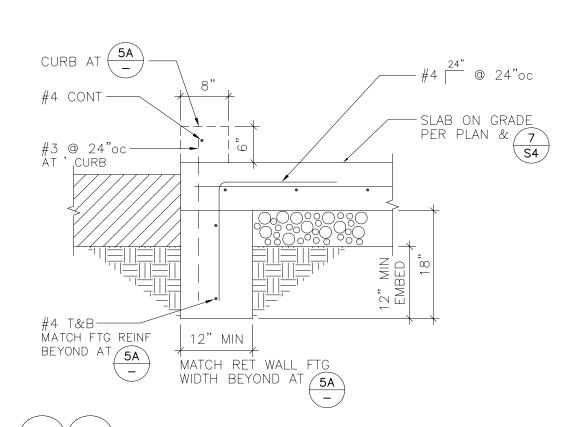
NOTE: FOUNDATION CONCRETE MAY BE PLACED DIRECTLY INTO NEAT EXCAVATIONS PROVIDED THE FOUNDATION TRENCH WALLS ARE STABLE AS DETERMINED BY THE GEOTECHNICAL ENGINEER SUBJECT TO THE APPROVAL OF THE OFFICE OF THE REGULATORY SERVICES (STATE ARCHITECT). Typical mandatory formwork 30S-02-10

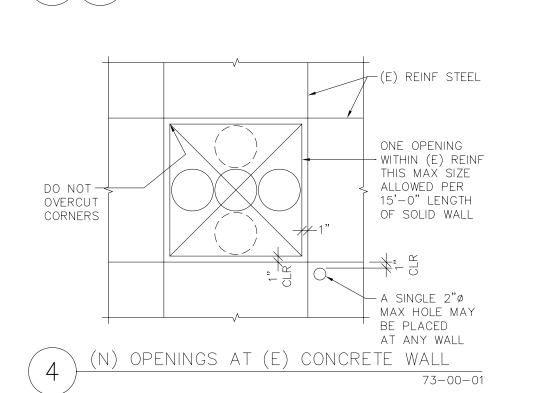




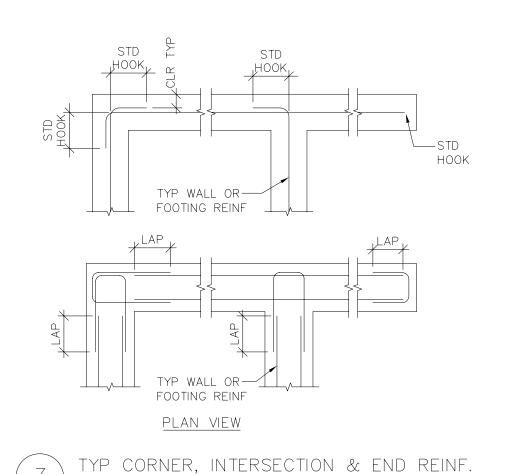


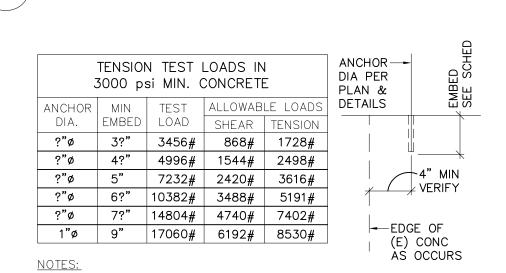
MINIMUM BAR LAPS FOR REINFORCING STEEL CONCRETE STRENGTH: 3000 PSI OR GREATER — (STAGGER SPLICES)					180° HOOK ⊕			
SIZE	LAP LENGTH	SIZE	LAP LENGTH	SIZE	LAP LENGTH	R=3 db FOR #3 TO #7		
#3	19"	#6	56"	#9	105"	R=4 db FOR #8 TO #11		
#4	25"	#7	81"	#10	116"	90° HOOK		
#5	47"	#8	93"	#11	128"			
CONCRE	TE COVER F					AT EACH END		
CONCRE	ITE COVER F					AT LACIT LIND		
AST AGA	AINST FARTH OR							
	AINST EARTH OR TO EARTH (FOR					COL. BAR & STRUCT. OFFSET SPLICE		
EXPOSED #5	TO EARTH (FOR & SMALLER	MED) OR	WEATHER		1?"	COL. BAR & STRUCT. OFFSET SPLICE **Gdb**, 3" MIN **F6db** **Gdb**, 3		
EXPOSED #5 #6 NOT EXPO	TO EARTH (FOR	MED) OR	WEATHER THER					
XPOSED #5 #6 NOT EXPO #5 #6	TO EARTH (FOR & SMALLER & LARGER OSED TO EARTH & SMALLER	MED) OR OR WEA ALL BM	WEATHER THER STIRRUPS, COL	TIES, & S		6db, 3" MIN 6db		





30S-02-02





INSTALL ADHESIVE ANCHORS PER MFR's & ICBO INSTRUCTIONS. TESTING LAB TO TEST PER TITLE 24, SECTION 1923A.3.5 AND IR 19-1.

- WHEN INSTALLING ADHESIVE ANCHORS IN EXISTING REINFORCED CONCRETE, USE CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE EXISTING REINFORCING BARS. MAINTAIN A MINIMUM CLEARANCE OF ONE INCH BETWEEN REINFORCMENT AND THE ANCHOR
- 3. ACCEPTABLE ADHESIVE FOR ABOVE VALUES ARE: SIMPSON SET, ICBO# ER-5279; AND HILTI HIT HY-150, ICBO# ER-5193. 4. TORQUE TESTING IS NOT APPLICABLE. TENSION TESTING IS REQUIRED.

	ADHESIVE	ANCHOR	IN	3000	PSI	CONCRETE	
$\setminus \angle \int$							Ī

BOLT	MIN	INSTALL TO	TEST	ALLOWABLE VALUES			
DIA.	EMBED	#3631	#1372	#4627	LOAD	SHEAR	TENSION
?"	2"	8	8	7	732#	184#	366#
?"	3"	30	25	25	1518#	688#	759#
?"	4"	60	55	45	2558#	1282#	1279#
?"	5"	90	90	95	3566#	1685#	1783#
?"	6"	150	175	225	4545#	2930#	2272#

BOLT DIA-PER PLAN | S

DISTANCE

7¢ MIN SPACING

30-00-01A

- INSTALL DRILLED EXPANSION ANCHORS PER MFR's & ICBO INSTRUCTIONS. TESTING LAB TO TEST PER TITLE 24, SECTION 1923A.3.5 AND IR 19-1.
- 2. WHEN INSTALLING DRILLED-IN ANCHORS IN EXISTING REINFORCED CONCRETE, USE CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE EXISTING REINFORCING BARS. MAINTAIN A MINIMUM CLEARANCE OF ONE INCH BETWEEN F.O. (E)—— REINFORCEMENT AND THE DRILLED-IN ANCHOR CONC AS 3. ACCEPTABLE EXPANSION ANCHORS FOR ABOVE VALUES ARE: OCCURS SIMPSON WEDGE-ALL ICBO# 3631; ITW RAMSET TRUBOLT,
- ICBO# 1372; AND HILTI KWIK BOLT II, ICBO# 4627 4. INSPECTOR VERIFIED INSTALLATION TORQUE OF ALL ANCHORS PER IR 19-1 IS AN ACCEPTABLE ALTERNATE TO TENSION
- TESTING PER NOTE 1. 5. VALUES FOR SHEAR AND TENSION SHOWN ARE FULL MAXIMUM VALUES BASED ON 14 DIAMETERS EDGE DISTANCE EACH WAY AND 12 DIAMETERS SPACING EACH WAY MINIMUM. SEE STANDARD CALCULATION FOR INTERPOLATION OF VALUES DOWN FOR A MINIMUM EDGE DISTANCE AND SPACING

EXPANSION ANCHOR IN 3000 PSI CONCRETE



1. Design Criteria: 2001 California Building Code 70 mph, Exposure C (enclosed), I = 1.15, Seismic Zone 4, I = 1.5, Soil Profile Type = S_B , Seismic Source Type = A, Distance to Seismic Source < 2 km. Ca = 0.60, Cv = 0.80

2. In preparing the plans, the source of information was based on existing drawings prepared by John Blume & Associates, dated 2/20/67. Actual field dimensions may differ. Contractor to verify field conditions prior to bid and construction.

3. Building dimensions shown are for general reference only. Any discrepancies are to be brought to the attention of the Engineer so clarification can be made prior to commencing work. All dimensions related to existing conditions shall be verified by the contractor and submitted in writing to the Engineer for review prior to construction.

4. Drawings shall NOT be scaled. All dimensions and fit shall be determined and verified by the contractor prior to commencing work.

5. Details not fully or specifically shown shall be of same nature as other similar conditions.

6. (E) denotes existing construction. (N) denotes new construction. 7. Elevations on plans and details "——" are to heights above finished floor elevation

8. Coordination of Mechanical, plumbing, electrical, and site utility systems with the structural system is the responsibility of the General Contractor. At conditions where field modifications of mechanical, plumbing, electrical or site utilities affect structural systems, notify Structural Engineer prior to installation.

9. Verify weights and locations of mechanical units with Mechanical Engineer prior to placement. Units varying over 10% in weight shall be reviewed by the Structural Engineer prior to installation (mechanical weights shown are maximum). Contractor to verify mechanical unit sizes and weights as installed prior to installation of special framing to ensure correct placement directly under curbs, etc.

10. Shoring and bracing design, materials and installation shall be provided by the General Contractor, and shall be adequate for all loads. Leave in place as long as may be required for safety and until final structural construction is completed.

11. Special Inspections for the following items are required per California Building Code, Section 1701A, the Specifications and the T&I List (if it applies).

B. Expansion Anchors Adhesive Anchors Concrete Reinforcing

E. CMU Rebar & Grouting

reference 0'-0".

STRUCTURAL SPECIFICATIONS

Concrete Construction

1. Concrete shall be hard rock concrete (5 sack cement per cu yd min.) and meet the following minimum ultimate compressive strengths at 28 days:

	Min. Strength 28 Days PSI	Aggregate Size-Inches	Slump, Inches	Tolerance	
	7.000	1"	3?"	+?"	
Foundations	3,000	1"×#4			
Slab on Grade	3,000	1"×#4	3?"	+?"	
Slab cast above Grou	nd 4,000	1"×#4	3?"	+?"	
Columns, Walls	4,000	1"×#4	3?"	+?"	
Miscellaneous	4,000	1"×#4	3?"	+?"	

2. Concrete mix design and testing shall meet the requirements of Section 1903A, 1905A and 1/01A of the 2001 CBC, and these specifications. Cement to be in accordance with ASIM 150 type II.

3. Reinforcing steel shall conform to ASTM A-615, Grade 60 for #5 and larger bars and Grade 40 for #4 and all dowels and ties. Steel shall be kept clean and free of rust. Submit shop drawings for review prior to installation.

4. Welded wire fabric shall conform with ASTM A-185, and shall be lapped 12" minimum. 5. Slabs, beams, walls and other concrete shall be kept continuously wet for 48 hours, after placement, and shall be kept damp for 7 days after placement. Slabs shall have cure/sealer applied immediately after finishing if other finishes are not affected. When cure sealer can not be applied, slab shall be kept continuously wet or covered with curing paper. Cure shall be of a type that will not be detrimental to sealers to be applied later.

<u>Structural Steel</u>

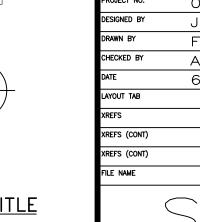
- 1. Steel Grades: ASTM A-572 Gr 50 w/ req. per AISC Technical WF Shapes & Plates . Bulletin #3 dated March 1997 (A-992 for WF) ASTM A-36 C and L Shapes ASTM A-53 Grade B fy=35ksi (36ksi effective) Round HHS .. ASTM A-500 Grade B fy=42ksi . ASTM A-500 Grade B fy=46ksi Square and Rectangular HHS . Machine Bolts . ASTM A-307 (MB)ASTM A-325 (HSB) High Strength Bolts ..
- 2. Workmanship and details shall conform to the AISC specifications and the UBC unless noted otherwise.
- 3. Bolt holes shall be 1/16" larger in diameter than the bolt.
- 4. Welding electrodes shall meet AWS requirements and electrodes shall be E70XX for shielded metal arc, F7XX—EXXX for submerged arc (shop welds only), ER70S—X for gas metal arc and E7XT—XX for flux core (unless noted otherwise).
- 5. All structural welds shall be inspected and certified by a qualified testing agency. Certification shall be submitted to the Architect and the Building Department.
- 6. Temporary shoring and bracing shall be used and shall be adequate for all loads to which it may be subjected. Leave temporary bracing and shoring in place as long as may be required for safety, AND until final framing construction is completed.
- 7. Drilled expansion concrete bolts are Simpson Wedge All, Hilti Kwik Bolt II, or ITW/Ramset Trubolt.

Concrete Masonry Construction

- 1. Concrete masonry units shall be Grade N. Units to be double open end where possible and single open end otherwise. All cells to be grouted solid.
- 2. Grout shall be 2,000 PSI minimum in 28 days and shall have 7 sacks of cement per cu yd minimum. Add one Ib. Sika Grout Aid per sack of cement up to 6lbs. Maximum per cubic yard.
- 3. Mortar shall be Type M or S proportioned per the 2001 CBC, Chapter 21.
- 4. Reinforcing steel shall be bent and lapped at all corners and intersections. The minimum lap splice shall be 18" UNO. All steel shall be positioned and tied prior to grouting.
- 5. Grout shall be placed in 32" lifts maximum without clean outs. Maximum lift is 8'-0" with clean outs. Grout for each pour shall be stopped 1-1/2" below the top of the last course of block. All grout to be thoroughly consolidated by vibrating immediately after placing.

6. F'm = 1,500 psi minimum





ChevronTexa

KEY NOTES



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GENERAL NOTES AND TYP DETAILS

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