

1. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS AND SITE CONDITIONS BEFORE STARTING WORK. THE ARCHITECT/ENGINEER SHALL IMMEDIATELY BE NOTIFIED IN WRITING OF ANY DISCREPANCIES.
2. IF A SPECIFIC DETAIL IS NOT SHOWN FOR ANY PART OF THE WORK, THE CONSTRUCTION SHALL BE THE SAME AS FOR SIMILAR WORK.
3. WORKING DIMENSIONS SHALL NOT BE SCALED FROM PLANS, SECTIONS, OR DETAILS ON THESE DRAWINGS.
4. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT AND THE ARCHITECT/ENGINEER OF ANY CONDITION WHICH, IN HIS OPINION, MIGHT ENDANGER THE STABILITY OF THE STRUCTURE OR CAUSE DISTRESS TO THE STRUCTURE.
5. THE CONTRACTOR SHALL SUPERVISE AND DIRECT HIS WORK AND SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION METHODS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES. PROVIDE ADEQUATE SHORING AND BRACING OF ALL STRUCTURAL MEMBERS DURING CONSTRUCTION.
6. ALL WORK SHALL CONFORM TO THE MINIMUM STANDARDS OF THE 2000 EDITION OF THE INTERNATIONAL BUILDING CODE, AND ALL OTHER REGULATING AGENCIES EXERCISING AUTHORITY OVER ANY PORTION OF THE WORK.
7. SPECIFIC NOTES AND DETAILS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. WHERE THE NOTES, DRAWINGS, AND/OR SPECIFICATIONS DIFFER, THE MORE STRINGENT REQUIREMENT SHALL APPLY.
8. NOTIFY THE ENGINEER OF ALL FIELD CHANGES PRIOR TO INSTALLATION.
9. DISCREPANCIES FOUND BETWEEN STRUCTURAL DRAWINGS AND OTHER DOCUMENTS ARE TO BE NOTED IN WRITING TO THE ENGINEER PRIOR TO CONSTRUCTION.
10. ALL CONSTRUCTION SHALL BE DONE WITH MATERIALS, METHODS, AND WORKMANSHIP ACCEPTED AND APPROVED BY THE CONSTRUCTION INDUSTRY IN CONFORMANCE TO THE PROVISIONS OF THE "INTERNATIONAL BUILDING CODE" (IBC), AND STANDARDS REFERENCED THEREIN.

1. STRUCTURAL DESIGN COMPLIES WITH SOILS REPORT DATED JANUARY 7, 2009, BY TERRACON, PROJECT NO. 64075094

FOOTING BEARING PRESSURE:
ON STRUCTURAL FILL MATERIAL..... 2,000 PSF*

LATERAL EARTH PRESSURE ON RETAINING WALLS

ACTIVE.....	35 PCF
AT REST.....	55 PCF
PASSIVE.....	300 PCF*

COEFFICIENT OF BASE FRICTION..... 0.40
*ONE-THIRD INCREASE ALLOWED FOR WIND AND SEISMIC LOADS

2. SUBGRADE PREPARATION, DRAINAGE PROVISIONS, AND OTHER RELEVANT SOIL CONSIDERATIONS ARE TO BE IN ACCORDANCE WITH SAID SOILS REPORT.

3. THE GEOTECHNICAL ENGINEER SHALL BE RETAINED TO PROVIDE OBSERVATION AND TESTING SERVICES DURING FOUNDATION SOILS EXCAVATION, BACKFILL, GRADING, COMPACTION AND SUBGRADE PREPARATIONS. THE GEOTECHNICAL ENGINEER SHALL INSPECT, PROVIDE TEST REPORTS, AND PROVIDE A LETTER OF ACCEPTANCE TO THE BUILDING DEPARTMENT AND THE ENGINEER STATING THAT ALL FOUNDATION SOILS PREPARATION, EXCAVATION, BACKFILL, COMPACTION AND SUBGRADE PREPARATION IS IN ACCORDANCE WITH THE REQUIREMENTS OF THE SOILS REPORT PRIOR TO PLACEMENT OF FOUNDATION CONCRETE.

4. FOOTINGS:

- PROVIDE 2X4 BEVELED KEYWAYS IN ALL WALL FOOTINGS.
- CENTER ALL FOOTINGS BELOW THE WALL AND/OR COLUMN ABOVE, TYPICAL UNLESS NOTED OTHERWISE.
- ALL REINFORCING IN CONTINUOUS FOOTINGS SHALL BE CONTINUOUS AT CORNERS AND/OR INTERSECTIONS BY PROVIDING PROPER LAP LENGTHS AND/OR CORNER BARS.
- ALL CONTINUOUS FOOTINGS WITHOUT CONCRETE FOUNDATION WALLS ABOVE SHALL BE REINFORCED WITH A MINIMUM OF 2-#6 LONGITUDINAL TOP BARS IN ADDITION TO REINFORCING SPECIFIED IN THE FOOTING SCHEDULE.
- NO PENETRATIONS SHALL BE ALLOWED THROUGH ANY CONCRETE FOOTING. WHEN CONFLICTS ARE ENCOUNTERED DURING PLUMBING, UTILITIES, ETC., THE FOOTING SHALL BE STEPPED DOWN BELOW THE CONFLICT AND A CONCRETE WALL, PIER, COLUMN ETC. SHALL BE EXTENDED TO THE FOOTING AS REQUIRED. COORDINATE WITH THE ARCHITECT AND/OR STRUCTURAL ENGINEER.
- ALL BEARING SURFACES FOR FOOTINGS WHICH ARE, OR BECOME, UNDERMINED DURING CONSTRUCTION SHALL BE BACKFILLED WITH A LEAN-MIX CONCRETE.

1. REFERENCE STANDARDS: ACI-301, ACI-318, 2008 IBC.
MINIMUM CONCRETE STRENGTH (28 DAYS):
4,500 psi
ALL CONCRETE SHALL BE TYPE V CEMENT.
2. MIXING: COMPLY WITH ACI-301. DO NOT EXCEED THE AMOUNT OF WATER SPECIFIED IN THE APPROVED MIX. PROPORTIONS OF AGGREGATE TO CEMENT SHALL BE SUCH AS TO PRODUCE A DENSE WORKABLE MIX WHICH CAN BE PLACED WITHOUT SEGREGATION OR EXCESS FREE SURFACE WATER.
3. PLACING: COMPLY WITH ACI-301. PROVIDE A 3/4 INCH CHAMFER FOR ALL EXPOSED CONCRETE EDGES, UNLESS INDICATED OTHERWISE ON DRAWINGS.
4. SLUMP: 4" PLUS OR MINUS ONE INCH. DO NOT ADD WATER TO MIX TO INCREASE SLUMP. GREATER SLUMP, ACCELERATED SET, OR HIGH EARLY STRENGTH MAY BE ACHIEVED BY USING APPROVED ADMIXTURES.
5. CURING: COMPLY WITH ACI-301. KEEP CONCRETE MOIST FOR SEVEN DAYS MINIMUM.
6. JOINTING: PROVIDE ADEQUATE JOINTING TO MINIMIZE EFFECTS OF VOLUME CHANGE. JOINTS SHOWN MAY BE ADJUSTED AT CONTRACTOR'S OPTION, WITH PRIOR APPROVAL FROM ENGINEER.
7. WEATHER EXTREMES: COMPLY WITH ACI 308R FOR HOT WEATHER. COMPLY WITH ACI 308R FOR COLD WEATHER.
8. WATER/CEMENT RATIO SHALL NOT EXCEED 0.45 (BY WEIGHT), TYPICAL.

1. REFERENCE STANDARDS: ACI "DETAILING MANUAL" (SP-66); CRSI MANUAL OF STANDARD PRACTICE (MSP-1)
2. MATERIALS:
REINFORCING STEEL: ASTM A615, GRADE 60
3. SPICES:
LAP CONTINUOUS REINFORCING BARS 48 BAR DIAMETERS, UNLESS OTHERWISE NOTED. PROVIDE CORNER BARS FOR ALL HORIZONTAL REINFORCEMENT.
4. COVER:
FOOTINGS.....3 INCHES, UNLESS NOTED OTHERWISE ON PLANS.
SLABS.....3 INCHES, UNLESS NOTED OTHERWISE ON PLANS.
5. FORMED SURFACES:
WEATHER FACE ... 1-1/2 INCHES, #5 BARS AND SMALLER
2 INCHES, # 6 BARS AND LARGER
INTERIOR FACE ... 3/4 INCH FOR SLABS AND WALLS
1-1/2 INCHES FOR BEAMS AND COLUMNS

1. GENERAL: STANDARD INSPECTIONS ARE TO BE PERFORMED BY THE BUILDING OFFICIAL AS REQUIRED PER SECTION 109 OF THE IBC. STANDARD INSPECTIONS REQUIRED ARE AS FOLLOWS:
2. SOIL: VERIFY SUBGRADE IS DRY, DENSE AND DOES NOT HAVE STANDING WATER PRIOR TO POURING FOOTINGS.
3. CONCRETE: INSPECTIONS REQUIRED ONLY FOR DESIGN MIXES SPECIFIED GREATER THAN 2,500 PSI. TAKE CONCRETE CYLINDERS AS REQUIRED. VERIFY SLUMP AND STRENGTH.
4. REINFORCING: VERIFY ALL REINFORCING STEEL IS PLACED IN ACCORDANCE WITH APPROVED PLANS. CHECK FOR REQUIRED COVER, SIZE AND GRADE.
5. BOLTS: BOLTS OR STUDDED EMBEDMENT PLATES INSTALLED INTO CONCRETE.
6. SPECIAL INSPECTION (QUALITY ASSURANCE):
 - REFERENCE IBC SECTIONS 1705 AND 1707.
 - SPECIAL INSPECTIONS REQUIRED BY CODE ARE TO BE PERFORMED BY OTHERS AND PAID FOR UNDER SEPARATE CONTRACT. THE SPECIAL INSPECTOR MUST INSPECT FOR CONFORMANCE WITH THE APPROVED CONTRACT DRAWINGS AND MUST FURNISH SIGNED INSPECTION REPORTS TO THE BUILDING OFFICIAL, THE ENGINEER OF RECORD, AND OTHER DESIGNATED PERSONS. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION, THEN, IF UNCORRECTED, TO THE ENGINEER AND THE BUILDING OFFICIAL. THE SPECIAL INSPECTOR SHALL SUBMIT A FINAL SIGNED REPORT STATING WHETHER THE WORK REQUIRING SPECIAL INSPECTION WAS, TO THE BEST OF THE INSPECTOR'S KNOWLEDGE, IN CONFORMANCE WITH THE APPROVED PLANS AND APPLICABLE CODE PROVISIONS.

SPECIAL INSPECTIONS (INSP'N) REQUIRED ARE:

- A. BOLTS OR STUDDED EMBEDMENT PLATES INSTALLED IN CONCRETE (PERIODIC SPECIAL INSP'N)
- B. SPECIAL GRADING, EXCAVATION AND FILLING
- C. EPOXY ANCHORS/EXPANSION ANCHORS
- D. STRUCTURAL WELDING (PERIODIC SPECIAL INSP'N)

1. REFERENCE STANDARDS: DESIGN, FABRICATION AND ERECTION ARE TO BE IN ACCORDANCE WITH THE LATEST EDITION OF THE AISC "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES".
2. CHAIN LINK FENCE PIPE SHALL CONFORM WITH ASTM F1083-04
REGULAR GRADE PIPE ($F_y = 30,000$ psi) UNLESS DRAWINGS INDICATE
HIGH STRENGTH GRADE PIPE ($F_y = 50,000$ psi).
3. MATERIALS:
BOLTS - ASTM A307, UNLESS OTHERWISE NOTED
HSS (SQUARE OR RECTANGULAR) - ASTM A500, GRADE B ($F_y = 46,000$ psi)
HSS (ROUND) - ASTM A500, GRADE B ($F_y = 42,000$ psi)
WF BEAMS - ASTM A992 - 50 ($F_y = 50,000$ psi) OR A36 ($F_y = 36,000$ psi)
ALL OTHER STEEL - ASTM A36 ($F_y = 36,000$ psi)
4. ALL EXPANSION ANCHORS OR EPOXY BOLTS SHALL HAVE A CURRENT I.C.B.O. REPORT FOR THE MATERIAL INTO WHICH INSTALLATION OCCURS. HEADED STUDS SHALL CONFORM TO ALL REQUIREMENTS OF THE "RECOMMENDED PRACTICES FOR STEEL WELDING" AND THE "STRUCTURAL WELDING" AND THE "STRUCTURAL WELDING CODE" PUBLISHED BY A.I.W.S. LATEST EDITIONS. ALL BOLTS ANCHOR BOLTS, EXPANSION BOLTS, ECT. SHALL BE INSTALLED WITH STEEL WASHERS.
5. GROUT BENEATH COLUMN BASES OR BEARING PLATES SHALL BE 5000 PSI. (MIN.) NON-SHRINK FLOWABLE GROUT OR DRYPACK. INSTALL GROUT UNDER BEARING PLATES BEFORE FRAMING MEMBER IS INSTALLED. AT COLUMNS, INSTALL GROUT UNDER BASEPLATES AFTER COLUMN HAS BEEN BLUMBED BUT PRIOR TO FLOOR OR ROOF INSTALLATION. GROUT DEPTH SHALL BE SUFFICIENT TO ALLOW GROUT OR DRYPACK TO BE PLACED BENEATH PLATE WITHOUT VOIDS.

1. THE ENGINEER AND/OR ARCHITECT HAVE NOT BEEN RETAINED OR COMPENSATED TO PROVIDE DESIGN AND/OR CONSTRUCTION REVIEW SERVICES RELATED TO THE CONTRACTOR'S SAFETY PRECAUTIONS OR TO MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES FOR THE CONTRACTOR TO PERFORM HIS WORK. THE UNDERTAKING OF PERIODIC SITE VISITS BY THE ENGINEER AND/OR ARCHITECT SHALL NOT BE CONSIDERED AS SUPERVISION OF ACTUAL CONSTRUCTION NOR MAKE HIM RESPONSIBLE FOR PROVIDING A SAFE PLACE FOR THE PERFORMANCE OF WORK BY THE CONTRACTOR, SUBCONTRACTORS, SUPPLIERS OR THEIR EMPLOYEES, OR FOR ACCESS, VISITS, USE, WORK, TRAVEL, OR OCCUPANCY BY ANY PERSON.

1. WELDING MUST BE PERFORMED BY WELDERS HOLDING VALID CERTIFICATES AND HAVING CURRENT EXPERIENCE IN THE TYPE OF WELD SHOWN ON THE DRAWINGS. ALL WELDING MUST USE E70 SERIES, LOW-HYDROGEN ELECTRODES UNLESS NOTED OTHERWISE. ALL WELDING MUST CONFORM WITH THE LATEST AMERICAN WELDING SOCIETY STANDARDS.
2. WELD SIZES NOT SPECIFIED ON THE DRAWINGS ARE TO BE 1/4" CONTINUOUS FILLETS MINIMUM, OR ARE NOT TO EXCEED THE THICKNESS OF THE THINNEST MEMBER BEING WELDED.

AB	ANCHOR BOLT	JT	JOINT
ALT	ALTERNATE	L	LENGTH
APPROX.	APPROXIMATE	LL	LIVE LOAD
BM	BEAM	LOC	LOCATION
BTM	BOTTOM	MAX	MAXIMUM
BOT	BOTTOM	MB	MACHINE BOLT
BRG	BEARING	MECH	MECHANICAL
BTW	BETWEEN	MFR	MANUFACTURER
CJ	CONTROL JOINT	MIN	MINIMUM
CLR	CLEAR	MISC	MISCELLANEOUS
CMU	CONCRETE MASONRY UNIT	NO	NUMBER
COL	COLUMN	NS	NEAR SIDE
CONC	CONCRETE	NTS	NOT TO SCALE
COND	CONDITION	O.C.	ON CENTER
CONN	CONNECTION	OH	OPPOSITE HAND
CONST	CONSTRUCTION	OPNG	OPENING
CONT	CONTINUOUS	OPT'S	OPTIONS
CONTR	CONTRACTOR	OSF	OUTSIDE FACE
CTR	CENTER	PRE-FAB	PRE-FABRICATED
DET	DETAIL	PSF	POUNDS PER SQUARE FOOT
DIA	DIAMETER	PSI	POUNDS PER SQUARE INCH
DIAG	DIAGONAL	PT	PRESSURE TREATED
DIM	DIMENSION	R	RADIUS
DL	DEAD LOAD	REF	REFERENCE
E	EMBEDMENT INTO CONCRETE	REINF	REINFORCING
EA	EACH	REQ'D	REQUIRED
EF	EACH FACE	S	SLOPE
ELEV	ELEVATION	SCHD	SCHEDULE
EQ	EQUAL	SEC	SECTION
EQUIP	EQUIPMENT	SF	SQUARE FOOT
ES	EACH SIDE	SHT	SHEET
EW	EACH WAY	SM	SIMILAR
EXIST	EXISTING	SPCS	SPACES
FDN	FOUNDATION	SPEC	SPECIFICATIONS
FG	FINISH GRADE	STD	STANDARD
FLR	FLUSH FRAME	STL	STEEL
FLG	FLANGE	STRUCT	STRUCTURAL
FLR	FLOOR	T	TOP
FP	FULL PENETRATION	THK	THICK
FT	FOOT	TOT	TOP OF CONCRETE
FTG	FOOTING	TOT	TOP OF STEEL
FS	FAR SIDE	TOW	TOP OF WALL
GA	GAUGE	TS	TUBE STEEL
GALV	GALVANIZED	TYP	TYPICAL
GLB	GLUE LAMINATED BEAM	UNO	UNLESS NOTED OTHERWISE
GR	GRADE	VERT	VERTICAL
GSN	GENERAL STRUCTURAL NOTES	W	WITH
GT	GIRDER TRUSS	WHS	WELDED HEADED STUD
HOR	HORIZONTAL	WTS	WELDED THREADED STUD
HT	HEIGHT	WT	WEIGHT
IBC	INTERNATIONAL BUILDING CODE	WWF	WELDED WIRE FABRIC
IN	INCH		

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