

**ABBREVIATIONS**

AB	ANCHOR BOLT
ACI	AMERICAN CONCRETE INSTITUTE
AFB	ABOVE FINISHED FLOOR
AISI	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
AWS	AMERICAN WELDING SOCIETY
BFF	BELOW FINISHED FLOOR
BL	BLOCK UNIT
BM	BEAM
BO	BOTTOM OF
BOCM	BOTTOM OF MASONRY
BOS	BOTTOM OF STEEL
BRG	BEARING
CJ	CONSTRUCTION JOINT
CL	CENTER LINE
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
COND	CONDENSER UNIT
CONST	CONSTRUCTION
CONT	CONTINUOUS
DIA	DIAMETER
EF	EXHAUST FAN
EIFS	EXTERIOR INSULATION AND FINISH SYSTEM
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRICAL
EQ	EQUAL
EW	EACH WAY
FDN	FOUNDATION
FF	FINISHED FLOOR
FS	FAR SIDE
FTG	FOOTING
FL	FIELD VERIFY
GA	GENERAL CONTRACTOR
H	HEIGHT
HORIZ	HORIZONTAL
HSA	HEADED STUD ANCHOR
HSS	HOLLOW STRUCTURAL SHAPE
INFO	INFORMATION
ISO	ISOLATION
JSE	JOIST BEARING ELEVATION
JST	JOIST
JT	JOINT
KSI	KIPS PER SQUARE INCH
L	LENGTH
LB	POUNDS
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LONG	LONGITUDINAL
MAX	MAXIMUM
MECH	MECHANICAL
MFR	MANUFACTURER
MN	MINIMUM
MISC	MISCELLANEOUS
MO	MASONRY OPENING
MTL	METAL
NC	NOT IN CONTRACT
NO	NUMBER
NS	NEAR SIDE
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OH	OPPOSITE HAND
PAF	POWER ACTUATED FASTENER
PCF	POUNDS PER CUBIC FOOT
PL	PLATE
PLF	POUNDS PER LINEAR FOOT
PLUMB	PLUMBING
PNEJ	PRESOLDERED EXPANSION JOINT
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
QTY	QUANTITY
RACK	REFRIGERATION RACK
REF	REFER TO
REINF	REINFORCING
REQD	REQUIRED
REV	REVERSE
RO	ROUGH OPENING
RTU	ROOF TOP UNIT
SCHED	SCHEDULE
SII	STEEL INSTITUTE
SM	SIMILAR
SJ	STEEL JOIST INSTITUTE
SPCS	SPACES
SPCS	SPECIFICATIONS
STRUC	STRUCTURAL
T&B	TOP AND BOTTOM
THK	THICKNESS
TO	TOP OF
TOC	TOP OF CONCRETE
TOP	TOP OF FOOTING
TOM	TOP OF MASONRY
TOS	TOP OF STEEL
TOW	TOP OF WALL
TRANS	TRANSVERSE
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VERT	VERTICAL
W	WIDTH
WP	WORK POINT

**GENERAL NOTES**

**GENERAL**

- FURNISH ALL LABOR, MATERIALS AND EQUIPMENT NECESSARY TO COMPLETE THE WORK SHOWN OR IMPLIED BY THESE DRAWINGS. SHOP DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT AND ENGINEER FOR REVIEW AND APPROVAL PRIOR TO COMMENCING WORK.
- EXISTING CONDITIONS SHOWN MAY NOT REFLECT EXACT "AS-BUILT" CONDITIONS. BIDDERS SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO SUBMITTING FINAL BID. WITHIN ONE WEEK FROM THE START OF CONSTRUCTION DATE GENERAL CONTRACTOR SHALL FIELD VERIFY ALL EXISTING MATERIAL, MEASUREMENTS, AND ELEVATIONS AND SHALL NOTIFY THE ARCHITECT / STRUCTURAL ENGINEER OF RECORD AND THE OWNER'S CONSTRUCTION MANAGER OF ANY DISCREPANCIES OR FORESEEN PROBLEMS. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL FIELD MEASUREMENTS, EXISTING CONDITIONS, AND KNOWN COMPLICATIONS WITH THE MATERIAL SUPPLIERS.
- GENERAL CONTRACTOR SHALL CAREFULLY COORDINATE DEMOLITION AND NEW CONSTRUCTION WITH ALL OTHER DISCIPLINES AND EXISTING CONDITIONS.
- GENERAL CONTRACTOR SHALL PROTECT EXISTING STRUCTURES, UTILITIES, PROPERTY, ETC DURING CONSTRUCTION. RESTORE ALL ITEMS DAMAGED, AS REQUIRED BY OWNER'S REPRESENTATIVE, TO THE OWNER'S SATISFACTION AT NO COST TO OWNER OR WITHOUT EXTENSION OF CONTRACT TIME.
- BUILDING COMPONENTS ABANDONED BY THE SCOPE OF WORK SHALL BE SECURED TO PREVENT FALLING, LOOSENING OR CREATING DAMAGE OF ANY KIND IN THE FUTURE.
- GENERAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING TEMPORARY SUPPORT AND MAINTAINING STABILITY OF EXISTING STRUCTURE DURING ALL PHASES OF CONSTRUCTION.
- BEFORE OR CONCURRENT WITH ANY EXCAVATIONS ADJACENT TO THE EXISTING BUILDING FOUNDATION OR SLAB, GENERAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING TEMPORARY SUPPORT FOR THE BASE AND SUBGRADE OF THE EXISTING SLAB AND FOUNDATIONS TO PREVENT UNDERMINING.
- GENERAL CONTRACTOR SHALL PROVIDE FIRE PROTECTION FOR THE EXISTING STRUCTURE AND BUILDING CONTENTS DURING THE COURSE OF ANY OTHER CONSTRUCTION ACTIVITY THAT GENERATES SPARKS OR INTENSE HEAT.

**CONCRETE SLABS-ON-GRADE**

- SLABS-ON-GRADE ARE UNREINFORCED CONCRETE UNLESS NOTED OTHERWISE.
- PROVIDE SAW CUT JOINTS AT 12'-0" OC MAXIMUM SPACING UNLESS NOTED OTHERWISE ON THE CONTRACT DRAWINGS.
- PROVIDE (2) #4x2'-0" BARS PLACED 1 1/2" BELOW TOP OF SLAB AND LOCATED DIAGONALLY AT RE-ENTRANT CORNERS.
- "CJ" INDICATES SAW CUT CONSTRUCTION JOINT IN SLAB-ON-GRADE. "CONST. JT" INDICATES DOWELED CONSTRUCTION JOINT IN SLAB-ON-GRADE CONCRETE AND REINFORCING STEEL.

**MINIMUM COMPRESSIVE STRENGTH (at the end of 28 days) shall be as follows:**

TYPE	MINIMUM COMPRESSIVE STRENGTH (PSI)
A. INTERIOR CAST-IN-PLACE CONCRETE SLABS	4000 PSI
B. EXTERIOR CAST-IN-PLACE CONCRETE SLABS	5000 PSI

FOR ALL OTHER CONCRETE PROPERTIES REFER TO SPECIFICATIONS.

- CONCRETE FREEZING AND THAWING EXPOSURE CLASS SHALL BE F3 AND SULFATE EXPOSURE CLASS SHALL BE S0.
- REINFORCING STEEL SHALL MEET ASTM SPECIFICATION A 615, DEFORMED BAR, GRADE 60 OR ASTM SPECIFICATION A 706, DEFORMED BAR, GRADE 60.
- REFER TO ACI 315 FOR DETAILING PRACTICES AND FABRICATION, AND ACI 301 FOR STANDARD PRACTICE FOR MIXING AND PLACING CONCRETE AND CONCRETE COVER.

**STRUCTURAL STEEL**

- STRUCTURAL STEEL SHALL MEET THE FOLLOWING MINIMUM YIELD STRENGTH AND SPECIFICATIONS. FABRICATION AND ERECTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "AISC CODE OF STANDARD PRACTICE".

STRUCTURAL STEEL	YIELD	ASTM SPECIFICATION
A. PLATES AND ANCHOR BOLTS:		
1. SQUARE AND RECTANGULAR HOLLOW STRUCTURAL SHAPES:	50 KSI	A 500 GRADE C

- ALL STRUCTURAL STEEL SHALL HAVE ONE SHOP COAT OF RUST INHIBITOR PRIMER PAINT CONFORMING TO THE SPECIFICATIONS, REF SPECS FOR PROTECTIVE FINISH FOR EXTERIOR STEEL. FIELD TOUCH UP ALL UNPAINTED, RACKED AND WELDED AREAS. PAINT ALL STEEL EXPOSED TO VIEW OR GENERAL TO MATCH EXISTING.
- WELDING SHALL MEET ANS/AWS D1.1 STRUCTURAL WELDING CODE. ELECTRODES SHALL BE TO KSI LOW HYDROGEN.
- PROVIDE 1/2" NCH NON-SHRINK GROUT UNDER BASE PLATE AFTER ERECTION. NON-SHRINK GROUT, WHERE INDICATED ON PLANS, SHALL BE NON-METALLIC WITH A MINIMUM COMPRESSIVE STRENGTH OF 5,000 PSI AT 28 DAYS.
- PROVIDE DOUBLE NUTS AND DOUBLE WASHERS FOR STEEL COLUMN ANCHOR BOLTS TO ALLOW FOR ADJUSTMENT IN BASE PLATE ELEVATION.

**POST-INSTALLED ANCHORS**

- POST-INSTALLED ANCHORS SHALL ONLY BE USED WHERE SPECIFIED ON THE DRAWINGS. CONTRACTOR SHALL OBTAIN APPROVAL FROM ENGINEER OF RECORD PRIOR TO USING POST-INSTALLED ANCHORS FOR MISERS OR MISPLACED CAST-IN-PLACE ANCHORS. REFER TO SPECIFICATION 0550 FOR ADDITIONAL INFORMATION.

**SOILS**

- PRIOR TO PLACEMENT OF SLABS IN SLAB REMOVAL AREAS, EXPOSED SUBGRADE SHALL BE COMPACTED TO AT LEAST 99% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY (ASTM D998), WHERE SOILS ARE UNDISTURBED TO A DEPTH GREATER THAN 1'-0". COMPACTION SHALL BE PERFORMED IN A MAXIMUM 8 INCH LOOSE LIFT.
- IN SLAB REMOVAL AREAS WHERE SUBGRADE IS NEEDED TO RAISE PAD TO PROPER ELEVATION, PROVIDE BASE ANCHOR CHOKER MATERIAL AS INDICATED IN SPECS.

**DESIGN LOADS**

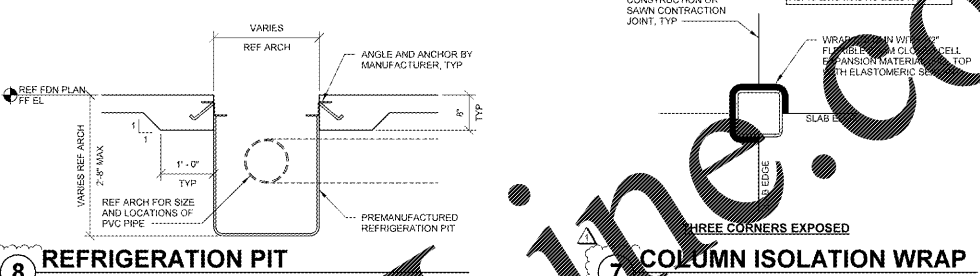
1. BUILDING CODE	2012 IBC
A. BULGING CODE	
2. GRAVITY LOADS	15 PSF
A. ROOF DEAD LOAD	
B. ROOF LIVE LOADS	
1. ROOF	20 PSF (MIN OR SNOW LOAD)
C. ROOF SNOW LOADS	
1. GROUND SNOW LOAD (Pg)	30 PSF
2. IMPORTANCE FACTOR (I)	1.0
3. SNOW DESIGN WIND SPEED (Vw)	115 MPH
4. ROOF THERMAL FACTOR (Ct)	1.2
5. FLAT ROOF SNOW LOAD (Ps)	30 PSF
3. LATERAL LOADS	
A. WIND LOADS	
1. BASIC WIND SPEED (3-SECOND GUST)	115 MPH
- ULTIMATE DESIGN WIND SPEED	90 MPH
2. WIND EXPOSURE CATEGORY	B
3. RISK CATEGORY	0
B. SEISMIC LOADS (SERVICE)	
1. 5% DAMPED MAPPED ACCELERATION PARAMETER (Sa)	0.223
2. 1-SEC PERIOD MAPPED ACCELERATION PARAMETER (S1)	0.069
3. 8% DAMPED SPECTRAL RESPONSE COEFF. (Sds)	0.238
4. 1-SEC PERIOD SPECTRAL RESPONSE COEFF. (Sd1)	0.110
5. SITE CLASS	D
6. RISK CATEGORY	0
7. IMPORTANCE FACTOR (I)	1.0
8. SEISMIC DESIGN CATEGORY	B

**STATEMENT OF SPECIAL INSPECTIONS**

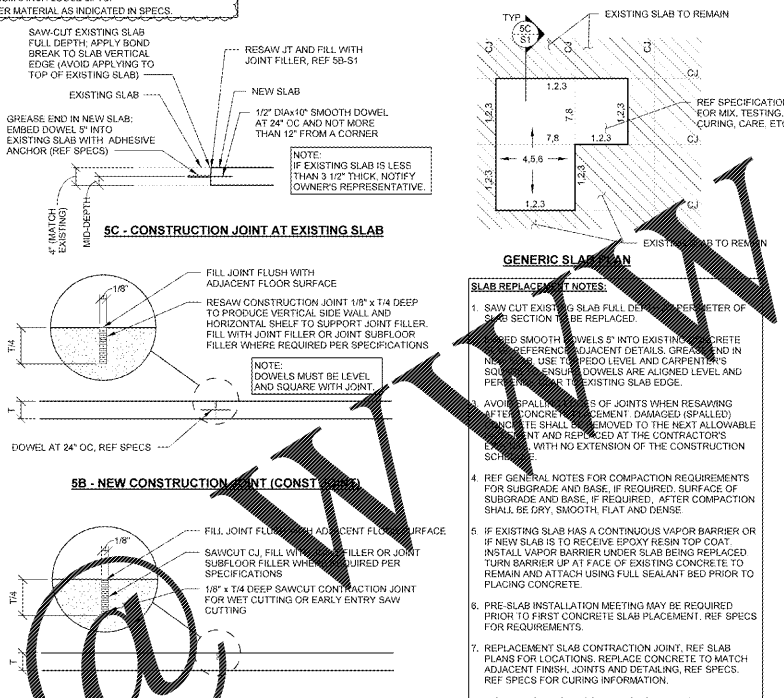
SPECIAL INSPECTIONS ARE REQUIRED. REFER TO APPENDIX B OF THE PROJECT SPECIFICATIONS FOR THE FOLLOWING INFORMATION REGARDING THE REQUIREMENTS OF SPECIAL INSPECTIONS.

- THE MATERIALS, SYSTEMS, COMPONENTS AND WORK REQUIRED TO HAVE SPECIAL INSPECTIONS.
- THE TYPE AND EXTENT OF EACH SPECIAL INSPECTION.
- THE FREQUENCY OF SPECIAL INSPECTIONS FOR WIND OR SEISMIC RESISTANCE (WHEN APPLICABLE).
- THE FREQUENCY OF SPECIAL INSPECTIONS AND TESTING.

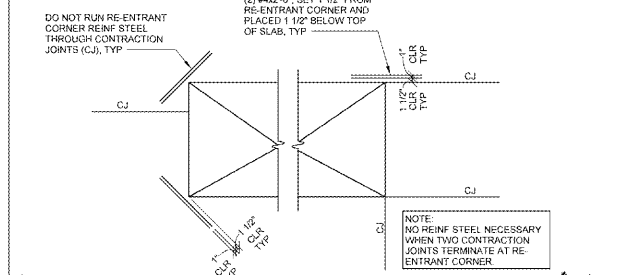
THE SPECIAL INSPECTION REQUIREMENTS ARE BASED ON CHAPTER 17 OF THE IBC. THE EXEMPTIONS ALLOWED FOR CONCRETE CONSTRUCTION HAVE BEEN UTILIZED WHERE APPLICABLE.



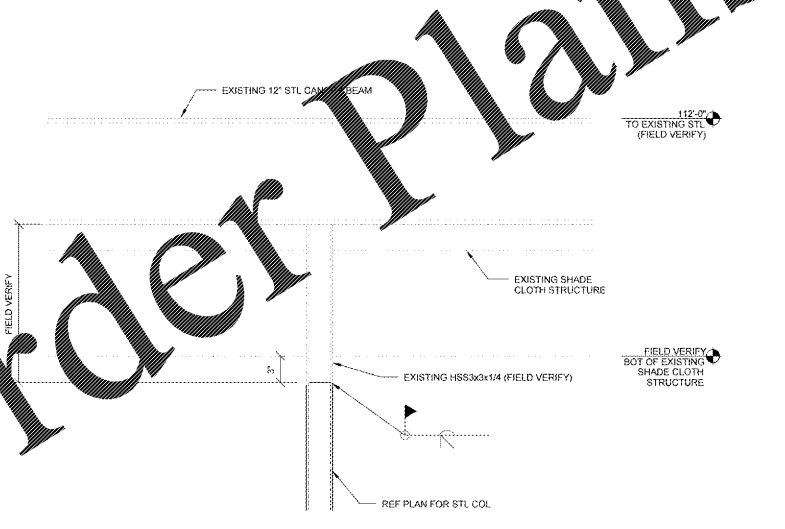
**8 REFRIGERATION PIT** 3'-4" x 1'-0" and **7 COLUMN ISOLATION WRAP** 3'-6" x 5'-5"



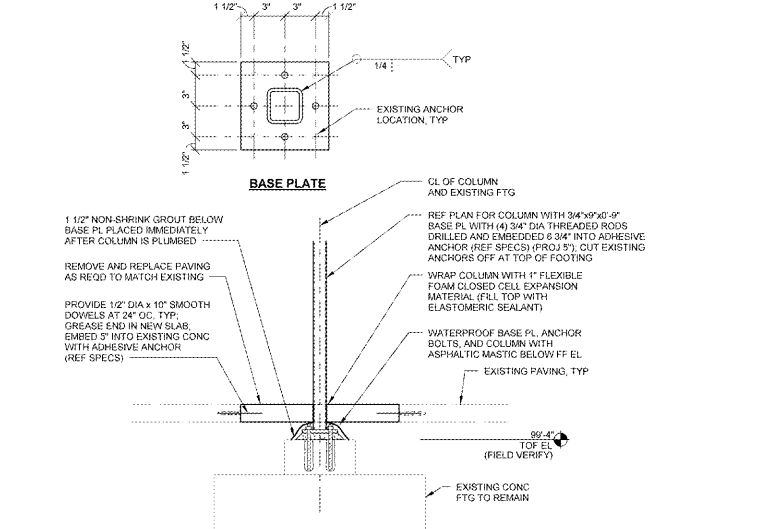
**5 SLAB REPLACEMENT DETAILS** 3'-4" x 1'-0" and **4 SLAB REPLACEMENT PLAN** 1'-0" x 1'-0"



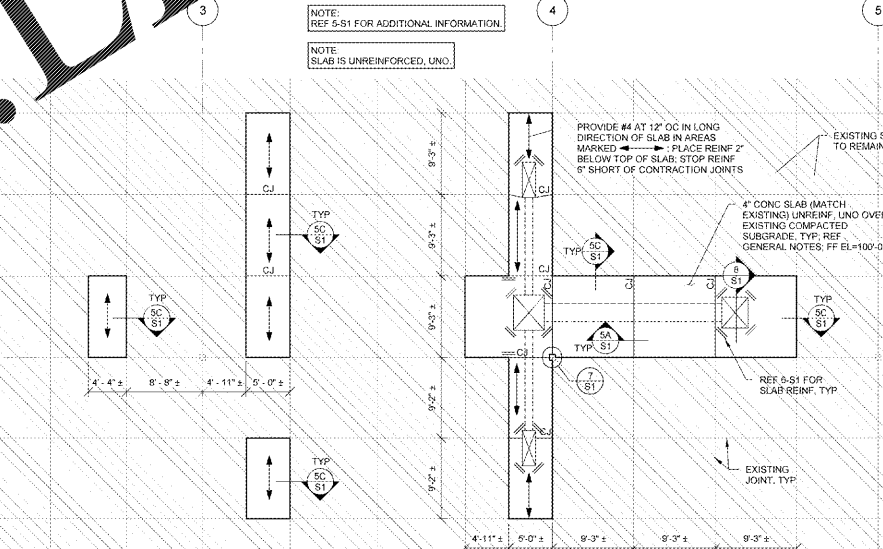
**6 RE-ENTRANT CORNER REINFORCING** 3'-0" x 3'-0"



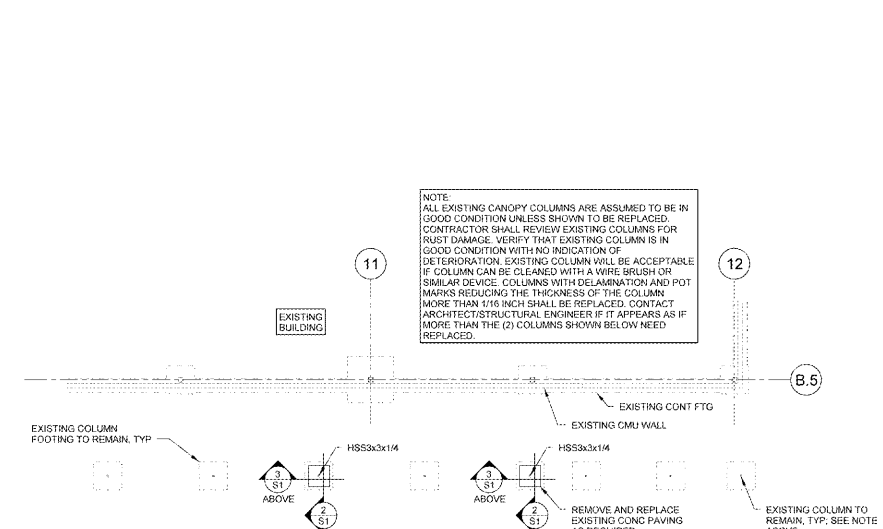
**3 CANOPY COLUMN SPLICE** 1'-0" x 1'-0"



**2 CANOPY COLUMN FOOTING** 3'-4" x 1'-0" and **1 CANOPY FOUNDATION PLAN** 1'-0" x 1'-0"



**4 SLAB REPLACEMENT PLAN** 1'-0" x 1'-0"



**1 CANOPY FOUNDATION PLAN** 1'-0" x 1'-0"



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**ISSUE BLOCK**

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**CANOPY FOUNDATION PLAN AND DETAILS**