
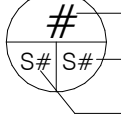
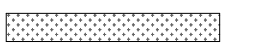
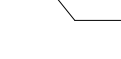
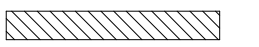
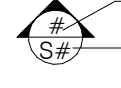



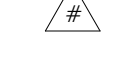

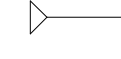






DRAWING LIST			
SHEET	DESCRIPTION	ISSUED DRAWINGS	
		SET	DATE
S-101	INDEX AND STRUCTURAL NOTES	90% PROGRESS SET	2016.08.05
S-102	STRUCTURAL NOTES(CONT.)	90% PROGRESS SET	2016.08.05
S-103	STRUCTURAL NOTES(CONT.)	90% PROGRESS SET	2016.08.05
S-104	SCHEDULE	90% PROGRESS SET	2016.08.05
S-201.1	FOUNDATION PLAN	90% PROGRESS SET	2016.08.05
S-201.2	1ST FLOOR WALL AND COLUMN PLAN	90% PROGRESS SET	2016.08.05
S-202.1	2ND FLOOR STEEL FRAMING PLAN	90% PROGRESS SET	2016.08.05
S-202.2	2ND FLOOR FRAMING PLAN	90% PROGRESS SET	2016.08.05
S-202.3	2ND FLOOR WALL AND COLUMN PLAN	90% PROGRESS SET	2016.08.05
S-203	3RD FLOOR PLAN	90% PROGRESS SET	2016.08.05
S-204	4TH FLOOR PLAN	90% PROGRESS SET	2016.08.05
S-205.1	ROOF FRAMING AND PARAPET PLAN	90% PROGRESS SET	2016.08.05
S-205.2	ROOF COMPONENTS & CLADDING WIND PRESSURES	90% PROGRESS SET	2016.08.05
S-301	WINDOW & DOOR WIND PRESSURES	90% PROGRESS SET	2016.08.05
S-401	BUILDING SECTIONS	90% PROGRESS SET	2016.08.03
S-501	WALL SECTIONS	90% PROGRESS SET	2016.08.03
S-601	DETAILS	90% PROGRESS SET	2016.08.05
S-602	DETAILS	90% PROGRESS SET	2016.08.05
S-603	DETAILS	90% PROGRESS SET	2016.08.05
S-604	DETAILS	90% PROGRESS SET	2016.08.05

LEGEND			
	WOOD SHEAR WALL		DETAIL NUMBER
	WOOD BEARING WALL		SHEET ON WHICH DETAIL IS SHOWN
	WALL OPEN BELOW		SECTION LETTER
	FLOOR OPENING		SHEET ON WHICH SECTION IS SHOWN
	COLUMN THROUGH FLOOR LEVEL		REVISION NUMBER
	COLUMN BELOW FLOOR LEVEL		FIX (MOMENT) CONNECTION
	COLUMN AT OR ABOVE FLOOR LEVEL		PIN (NON-MOMENT) CONNECTION
	FOOTING TYPE		
	ROOF CONNECTOR NUMBER		

ABBREVIATIONS					
ARCH.	ARCHITECTURAL	FTG.	FOOTING	S.O.G.	SLAB-ON-GRADE
AFF.	ABOVE FINISHED FLOOR	FLR.	FLOOR	STD.	STANDARD
ALUM.	ALUMINUM	FIN.	FINISH	SIM.	SIMILAR
BM	BEAM	GA.	GALVE	SEC.	SECTION
BP	BASE PLATE	GT	GALVANIZED	STRUCT.	STRUCTURAL
BOTT.	BOTTOM	GRD.	GRIDER TRUSS	STL.	STEEL
BRG.	BEARING	HORIZ.	HORIZONTAL	SW	SHEAR WALL
BLK.	BLOCK			T.O.	TOP OF
BFE	BASE FLOOR ELEVATION			TYP.	TYPICAL
CLR.	CLEAR	IN.	INCH	TRANS.	TRANSVERSE
C&C	COMPONENTS AND CLADDING	INSUL.	INSULATION	THK.	THICKNESS
CONC.	CONCRETE	INT.	INTERIOR	T/SLAB	TOP OF SLAB
COL.	COLUMN	LONG.	LONGITUDINAL	U.N.O.	UNLESS NOTED OTHERWISE
CONN.	CONNECTION	L.L.	LIVE LOAD	VERT.	VERTICAL
CMU	CONCRETE MASONRY UNIT	MIN.	MINIMUM		
CONT.	CONTINUOUS	MAX.	MAXIMUM		
C.J.	CONTROL JOINT	MONO.	MONOLITHIC	W.	WITH
		MTL.	METAL	W.W.F.	WELDED WIRE FABRIC
DIA.	DIAMETER	MFR.	MANUFACTURER	WB	WOOD BEAM
DWG.	DRAWING			W.L.	WIND LOAD
DM.	DIMENSION	NO.	NUMBER	1 MIL.	1/1000 INCH
DET.	DETAIL	N.T.S.	NOT TO SCALE		
D.L.	DEAD LOAD	NOM.	NOMINAL		
				O.C.	ON CENTER
ELEV.	ELEVATION			O.H.	OVERHEAD
EA.	EACH			PL.	PLATE
EMBED PL.	EMBED PLATE				
ELEC.	ELECTRICAL			REINF.	REINFORCING
EQ.	EQUAL			REQD.	REQUIRED
EXIST.	EXISTING			REF.	REFERENCE
EXP.	EXPANSION			REV.	REVISED (REVISION)
EXT.	EXTERIOR				
E.I.	EXPANSION JOINT				

STRUCTURAL NOTES AND SPECIFICATIONS

PROJECT INFORMATION

MEAN ROOF HEIGHT
NUMBER OF STORIES (PARTIAL UNDERGROUND)
FOUNDATION TYPE
FLOOR SYSTEM
ROOF SYSTEM

DESIGN LOADS

DEAD LOAD

THE FOLLOWING DEAD LOADS (SELFWEIGHT INCLUDED) HAVE BEEN UTILIZED:
ROOM
CORRIDOR
STAIR
CORRIDORS

LIVE LOAD

THE FOLLOWING LIVE LOADS HAVE BEEN UTILIZED:

ROOM
ROOF
STAIR
CORRIDORS
ELEVATOR LOBBY
LAUNDRY
LOBBY
STORAGE

WIND LOAD

THE FOLLOWING WIND PARAMETERS HAVE BEEN UTILIZED:
ALL STRUCTURAL ELEMENTS, EXPOSED TO WIND, HAVE BEEN DESIGNED PER THE GUIDELINES OF THE ASCE 7-05 BUILDING CODE WITH THE FOLLOWING DESIGN VALUES:

WIND SPEED

EXPOSURE

IMPORTANT FACTOR

K_d

INTERNAL PRESSURE COEFFICIENTS

SEISMIC LOAD

THE FOLLOWING SEISMIC PARAMETERS HAVE BEEN UTILIZED:

OCCUPANCY CATEGORY

SPECTRAL RESPONSE ACCELERATION AT PERIOD OF SHORT PERIODS(S₀)

SPECTRAL RESPONSE ACCELERATION AT PERIOD OF 1-SEC(S₁)

SPECTRAL RESPONSE COEFFICIENT (S_{ds})

SPECTRAL RESPONSE COEFFICIENT (S_{d1})

SITE CLASS

SEISMIC DESIGN CATEGORY

SEISMIC IMPORTANCE FACTOR (I_s)

BASIC SEISMIC-FORCE-RESISTING SYSTEM :

DESIGN BASE SHEAR

ANALYSIS PROCEDURE

RESPONSE MODIFICATION FACTOR

LONG PERIOD TRANSITION PERIOD

SNOW LOAD

THE FOLLOWING SNOW LOADS HAVE BEEN UTILIZED:

GROUND SNOW LOAD (P_g)

FLAT ROOF SNOW LOADS (P_f)

SNOW EXPOSURE FACTOR (C_e)

SNOW IMPORTANCE FACTOR (I_s)

THERMAL FACTOR (C_t)

GOVERNING CODES

INTERNATIONAL BUILDING CODE - 2009 (IBC 2009)

ASCE 7-05 MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES

ACI 318-08 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE AND COMMENTARY

ACI 530-08 BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES

AISC 14TH EDITION LRFD - MANUAL OF STEEL CONSTRUCTION LOAD & RESISTANCE FACTOR DESIGN

ANSI/AIAAPA NDS 2005 NATION DESIGN SPECIFICATION FOR WOOD CONSTRUCTION ALLOWABLE STRESS DESIGN

STEEL DECK INSTITUTE DESIGN MANUAL, SECOND EDITION

AISI - 2001 NORTH AMERICAN SPECIFICATION FOR THE DESIGN COLD-FORMED STEEL STRUCTURAL MEMBERS

GENERAL NOTES

TO THE BEST OF OUR KNOWLEDGE, THE STRUCTURAL DRAWINGS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE REQUIREMENTS OF THE GOVERNING STATE AND LOCAL BUILDING CODES.

CONSTRUCTION IS TO COMPLY WITH THE REQUIREMENTS OF THE GOVERNING BUILDING CODE AND ALL OTHER APPLICABLE FEDERAL, STATE, AND LOCAL CODES, STANDARDS, ORDINANCES REGULATIONS AND LAWS.

ALL INFORMATION CONTAINED IN THE CAD FILES OR COPIES OF THE STRUCTURAL DRAWINGS ARE INSTRUMENTS OF SERVICE OF THE ARCHITECT/ENGINEER AND SHALL NOT BE USED FOR OTHER PROJECTS, ADDITIONS TO THE PROJECT OR THE COMPLETION OF THIS PROJECT BY OTHERS WITHOUT THE EXPRESSED WRITTEN CONSENT OF THE SEOR.

CAD FILES AND COPIES OF THE STRUCTURAL DRAWINGS REMAIN THE PROPERTY OF THE SEOR AND IN NO CASE SHALL THEIR TRANSFER BE CONSIDERED A SALE.

CAD FILES OR COPIES OF THE STRUCTURAL DRAWINGS ARE NOT CONTRACT DOCUMENTS.

DO NOT SCALE THE DRAWINGS. FOLLOW WRITTEN DIMENSIONS ONLY.

DIMENSIONS IN THE CAD FILES MAY NOT BE ALTERED FOR PRESENTATION PURPOSES.

IN THE EVENT OF A CONFLICT, THE STRUCTURAL DRAWINGS SHALL GOVERN.

ALL DETAILS AND SECTIONS SHOWN ON THE DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL BE CONSTRUED TO APPLY TO ANY SIMILAR SITUATION ELSEWHERE ON THE PROJECT, EXCEPT WHERE A DIFFERENT DETAIL IS SHOWN.

VERIFY ALL DIMENSIONS, ELEVATIONS, SIZE AND LOCATION OF WALL OPENINGS, COLUMNS, AND SLAB FINISHES WITH ARCHITECTURAL DRAWINGS BEFORE COMMENCING CONSTRUCTION.

TO VERIFY DIMENSIONS, LOCATIONS OF DEPRESSED SLABS, SLOPES, DRAINS, OUTLETS, RECESSES, BOLT SETTINGS SLEEVES, ETC. STRUCTURAL DRAWINGS SHALL BE WORKED TOGETHER WITH ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS

ALL STRUCTURAL OPENINGS AROUND OR AFFECTED BY MECHANICAL, ELECTRICAL OR PLUMBING EQUIPMENT SHALL BE VERIFIED WITH EQUIPMENT PURCHASED BEFORE PROCEEDING WITH STRUCTURAL WORK AFFECTED.

PENETRATIONS OF ANY STRUCTURAL MEMBER NOT SHOWN ON THE STRUCTURAL DRAWINGS WILL NOT BE ALLOWED WITHOUT WRITTEN APPROVAL FROM THE STRUCTURAL ENGINEER OF RECORD. CONTRACTOR SHALL SUBMIT TO THE STRUCTURAL ENGINEER FOR APPROVAL A DRAWING DETAILING THE OPENING LOCATIONS AND SIZE PRIOR TO CONSTRUCTION.

CHANGES TO THE SIZE OR LOCATION OF STRUCTURAL MEMBERS WITHOUT WRITTEN INSTRUCTIONS FROM THE STRUCTURAL ENGINEER OF RECORD IS PROHIBITED.

SEE PROJECT SPECIFICATIONS FOR TESTING.

CONTRACTOR RESPONSIBILITIES

CONTRACTOR SHALL OBTAIN LATEST SET OF DRAWINGS INCLUDING ANY REVISIONS BEFORE STARTING CONSTRUCTION.

IT IS ASSUMED THAT THE CONTRACTOR HAS READ AND UNDERSTANDS THE NOTES, SPECIFICATIONS AND DESIGN INTENT CONTAINED HEREIN.

THE CONTRACTOR SHALL REVIEW DRAWINGS IN THEIR ENTIRETY BEFORE STARTING WORK.

THE CONTRACTOR SHALL ACCEPT FULL RESPONSIBILITY FOR ANY ERRORS OR OMISSIONS NOT REPORTED IMMEDIATELY IN WRITING TO THIS ENGINEER.

CONTRACTORS WHO DISCOVER DISCREPANCIES, OMISSIONS OR VARIATIONS IN THE CONTRACT DOCUMENTS DURING BIDDING SHALL IMMEDIATELY NOTIFY THE SEOR. THE SEOR WILL RESOLVE THE CONDITION AND ISSUE A WRITTEN CLARIFICATION.

ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE STRUCTURAL ENGINEER IN WRITING PRIOR TO PROCEEDING WITH THE AFFECTED PART OF THE WORK.

THE GENERAL CONTRACTOR SHALL COORDINATE ALL CONTRACT DOCUMENTS WITH FIELD CONDITIONS/DIMENSIONS AND PROJECT SHOP DRAWINGS PRIOR TO CONSTRUCTION.

THE CONTRACTOR IS SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS AND METHODS, AND JOBSITE SAFETY INCLUDING ALL OSHA REQUIREMENTS.

THE CONTRACTOR SHALL PROTECT ADJACENT PROPERTY, HIS OWN WORK AND THE PUBLIC FROM HARM.

IT IS THE CONTRACTORS RESPONSIBILITY TO DETERMINE ERECTION PROCEDURES AND SEQUENCES TO INSURE SAFETY OF THE BUILDING AND ITS COMPONENTS DURING ERECTION. THIS WORK INCLUDES THE ADDITION OF NECESSARY SHORING, SHEETING, TEMPORARY BRACING, GUYS OR TIEDOWNS. WHEREVER THE CONTRACTOR IS UNSURE OF THESE REQUIREMENTS, THE CONTRACTOR SHALL RETAIN A QUALIFIED STATE LICENSED PROFESSIONAL ENGINEER TO DESIGN AND INSPECT THE TEMPORARY BRACING AND STABILITY OF THE STRUCTURE.

THE STRUCTURE IS DESIGNED TO BE SELF SUPPORTING AND STABLE AFTER THE BUILDING IS COMPLETE. PRIOR TO COMPLETION, THE RESPONSIBILITY FOR STABILITY AND TEMPORARY BRACING IS THE RESPONSIBILITY OF THE CONTRACTOR.

SHOP DRAWINGS AND OTHER SUBMITTALS

THE STRUCTURAL FRAMING SHOWN IS SCHEMATIC IN NATURE. THE SUPPORTING STRUCTURE HAS BEEN DESIGNED UNDER THE ASSUMPTION THE FRAMING SCHEME SHOWN WILL CLOSELY PARALLEL FINAL SUPERSTRUCTURE LAYOUT.

THE CONTRACTOR SHALL PROVIDE SIGNED AND SEALED SHOP DRAWINGS AND CALCULATIONS (PREPARED BY A QUALIFIED STATE LICENSED PROFESSIONAL ENGINEER) FOR APPROVAL PRIOR TO RELEASE FOR FABRICATION.

THE REVIEW OF SHOP DRAWINGS IS REQUIRED AS THE ENGINEER CHECKS BEAM, WALL, COLUMN AND FOOTING CAPACITIES AGAINST KNOWN LOADING. FAILURE TO PROVIDE SHOP DRAWINGS PRIOR TO FABRICATION OR CONSTRUCTION OF SUPPORTING ELEMENTS MAY RESULT IN ADDITIONAL ENGINEERING COSTS DURING CONSTRUCTION.

THE CONTRACTOR SHALL SUPPLY THE ENGINEER WITH DIGITAL COPIES OF THE COMPLETE SHOP DRAWING AND CALCULATION SUBMITTAL WITH THE UNDERSTANDING THAT UP TO (5) BUSINESS DAYS ARE NECESSARY FOR THE REVIEW PERIOD.

SUBMIT SPECIFIC COMPONENTS, SUCH AS COLUMNS, FOOTINGS, ETC., IN A SINGLE PACKAGE. SUBMIT SIMILAR FLOORS TOGETHER.

ON THE FIRST SUBMITTAL, CLEARLY FLAG AND CLOUD ALL DIFFERENCES FROM THE CONTRACT DOCUMENTS.

ON RESUBMITTALS, FLAG AND CLOUD ALL CHANGES AND ADDITIONS TO PREVIOUS SUBMITTAL; ONLY CLOUDED ITEMS WILL BE REVIEWED.

SUBMITTALS FOR SPECIAL STRUCTURAL LOAD-CARRYING ITEMS THAT ARE REQUIRED BY CODES OR STANDARDS TO RESIST FORCES MUST BE PREPARED BY, OR UNDER THE DIRECT SUPERVISION OF, A DELEGATED QUALIFIED STATE LICENSED PROFESSIONAL ENGINEER. EXAMPLES INCLUDE PRE-ENGINEERED ROOF AND FLOOR TRUSSES, PRECAST CONCRETE, OPEN WEB STEEL JOISTS, EXTERIOR ENCLOSURE SYSTEMS AND SHORING AND RESHORING.

A DELEGATED ENGINEER IS DEFINED AS A QUALIFIED STATE LICENSED PROFESSIONAL ENGINEER WHO SPECIALIZES IN AND UNDERTAKES THE DESIGN OF STRUCTURAL COMPONENTS OR STRUCTURAL SYSTEMS INCLUDED IN A SPECIFIC SUBMITTAL PREPARED FOR THIS PROJECT AND IS AN EMPLOYEE OR OFFICER OF, OR CONSULTANT TO, THE CONTRACTOR OR FABRICATOR RESPONSIBLE FOR THE SUBMITTAL. THE DELEGATED ENGINEER SHALL SIGN, SEAL AND DATE THE SUBMITTAL, INCLUDING CALCULATIONS AND DRAWINGS.

THE TRADE CONTRACTOR IS RESPONSIBLE FOR CONFIRMING AND CORRELATING DIMENSIONS AT THE JOB SITES, FOR TOLERANCES, CLEARANCES, QUANTITIES, FABRICATION PROCESSES AND TECHNIQUES OF CONSTRUCTION, COORDINATION OF THE WORK WITH OTHER TRADES AND FULL COMPLIANCE WITH THE CONTRACT DOCUMENTS.

THE GENERAL CONTRACTOR/CONSTRUCTION MANAGER SHALL REVIEW AND APPROVE SUBMITTALS AND SHALL SIGN AND DATE EACH DRAWING PRIOR TO SUBMITTING TO THE EOR. THIS APPROVAL IS TO CONFIRM THAT THE SUBMITTAL IS COMPLETE, COMPLIES WITH THE SUBMITTAL REQUIREMENTS AND IS COORDINATED WITH FIELD DIMENSIONS, OTHER TRADES, ERECTION SEQUENCING AND CONSTRUCTIBILITY.

THE STRUCTURAL ENGINEER REVIEWS SUBMITTALS TO CONFIRM THAT THE SUBMITTAL IS IN GENERAL CONFORMANCE WITH THE DESIGN CONCEPT PRESENTED IN THE CONTRACT DOCUMENTS. QUANTITIES AND DIMENSIONS ARE NOT CHECKED. NOTATIONS ON SUBMITTALS DO NOT AUTHORIZE CHANGES TO THE CONTRACT SUM. CHECKING OF THE SUBMITTAL BY THE STRUCTURAL ENGINEER SHALL NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR DEVIATIONS FROM THE CONTRACT DOCUMENTS AND FROM ERRORS OR OMISSIONS IN THE SUBMITTAL.

IN ADDITION TO THE ABOVE, THE STRUCTURAL ENGINEERS REVIEW OF THE DELEGATED ENGINEER SUBMITTALS IS LIMITED TO VERIFYING THAT THE SPECIFIED STRUCTURAL SUBMITTAL HAS BEEN FURNISHED, SIGNED AND SEALED BY THE DELEGATED ENGINEER AND THAT THE DELEGATED ENGINEER HAS UNDERSTOOD THE DESIGN INTENT AND USED THE SPECIFIED STRUCTURAL CRITERIA AND SOUND ENGINEERING JUDGEMENT IN PREPARATION OF THE SUBMITTAL. NO DETAILED CHECK OF CALCULATIONS WILL BE MADE. THE DELEGATED ENGINEER IS SOLELY RESPONSIBLE FOR HIS/HER DESIGN, INCLUDING BUT NOT LIMITED TO THE ACCURACY OF HIS/HER CALCULATIONS AND COMPLIANCE WITH THE APPLICABLE CODES AND STANDARDS.

THE USE OF CAD FILES OR COPIES OF THE STRUCTURAL DRAWINGS SHALL NOT IN ANY WAY RELIEVE THE CONTRACTORS RESPONSIBILITY FOR PROPER CHECKING AND COORDINATION OF DIMENSIONS, DETAILS, SIZES AND QUANTITIES OF MATERIALS AS REQUIRED FOR THE PREPARATION OF COMPLETE AND ACCURATE SHOP DRAWINGS.

THE CONTRACTOR SHALL REVISE REFERENCES TO CONTRACT DOCUMENT SHEET NUMBERS AND SECTION MARKS AND SHALL REMOVE INFORMATION THAT IS NOT REQUIRED FOR THEIR WORK FROM THE CAD FILES OR COPIES OF THE STRUCTURAL DRAWINGS, INCLUDING THE TITLE BLOCK.

EXCAVATION AND BACKFILL

THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ALL EXCAVATION PROCEDURES INCLUDING LAGGING, SHORING, AND PROTECTION OF ADJACENT PROPERTY, STRUCTURES, STREETS AND UTILITIES IN ACCORDANCE WITH THE REQUIREMENTS OF THE LOCAL BUILDING DEPARTMENT AND OSHA REGULATIONS.

DO NOT EXCAVATE WITHIN ONE FOOT OF THE ANGLE OF REPOSE OF ANY SOIL BEARING FOUNDATION UNLESS THE FOUNDATION IS PROPERLY PROTECTED AGAINST SETTLEMENT.

DO NOT BACKFILL AGAINST ANY FOUNDATION WALL UNTIL 7 DAYS AFTER THE WALLS ARE BRACED BY THE STRUCTURE OR ARE TEMPORARILY BRACED.

DO NOT BACKFILL CANTILEVERED RETAINING WALLS UNTIL CONCRETE REACHES 70% OF THE SPECIFIED 28 DAY STRENGTH

DO NOT BACKFILL UNTIL AFTER COMPLETION AND INSPECTION OF ANY WATERPROOFING.

VAPOR BARRIER

WATERPROOF MEMBRANES (OVERLAPPED 6" AT JOINTS) WITH A PERMEANCE OF LESS THAN 0.3 PERMS IN ACCORDANCE WITH ASTM E-96 SHALL BE PROVIDED UNDER INTERIOR SLABS.

NO FREE WATER STANDING ON EITHER THE SUBGRADE OR ANY MUDDY OR SOFT SPOT IS ALLOWED.

ANY STRUCTURAL MEMBER PENETRATING SLAB ON FILL IS TO BE ISOLATED WITH 1/2" THICK PRE-MOLDED JOINT FILLER COMPLYING WITH ASTM D-1752, TYPE 1.

FOR INTERIOR SLABS PLACE 10 MIL POLYETHYLENE SHEETING BETWEEN SOIL AND BOTTOM OF SLAB. SHEETING IS NOT REQUIRED BELOW EXTERIOR CONCRETE SLABS

SLABS ON GRADE

REFER TO GEOTECHNICAL REPORT FOR SUBGRADE PREPARATION MORE THAN 12" BELOW THE BOTTOM OF THE SLAB.

ABOVE SUBGRADE, USE FILL CONTAINING NOT MORE THAN 10% PASSING 200 SIEVE AND MAXIMUM 1 INCH DIAMETER. COMPACT TO 95% OF MAXIMUM DRY DENSITY AS DETERMINED BY MODIFIED PROCTOR ASTM D-1557.

EACH LAYER OF FILL SHALL NOT EXCEED 6" LOOSE THICKNESS. COMPACT PRIOR TO PLACEMENT OF THE NEXT LAYER.

FILL PLACEMENT AND COMPACTION SHALL BE MONITORED AND ACCEPTED BY THE TESTING AGENCY.

TAKE A MIN. OF ONE FIELD DENSITY TEST (ASTM D-1556 OR D-2922) FOR EACH 2,500 SQUARE FEET OF EACH LAYER.

THE TESTING AGENCY SHALL RANDOMLY SELECT TEST LOCATIONS.

FOR INTERIOR SLABS PLACE 10 MIL POLYETHYLENE SHEETING BETWEEN SOIL AND BOTTOM OF SLAB. DO NOT USE ANY SHEETING BELOW EXTERIOR CONCRETE SLABS.

USE 4" THICK SLABS ON GRADE REINFORCED WITH 6 X 6 / 10 X 10 WELDED WIRE REINFORCEMENT SUPPLIED IN FLAT SHEETS ONLY. USE CHAIRS TO SUPPORT WIRE FABRIC IN THE CENTER OF SLAB.

PLACE CONCRETE IN LONG-STRIP CONSTRUCTION METHOD. PROVIDE CRACK CONTROL JOINTS AT 10 FEET MAXIMUM TO LIMIT AREAS BETWEEN JOINTS TO 100 SQ. FT. IN ALL FLOATING SLABS ON GRADE. LOCATE TO CONFORM TO BAY SPACING WHENEVER POSSIBLE. ADD CRACK CONTROL JOINTS AT RE-ENTRANT CORNERS WHICH TEND TO INVITE CRACKS.

IN SIDEWALKS AND WALKWAYS, LOCATE ISOLATION JOINTS AT 20 FT. O.C. MAXIMUM SCORE AND TOOL BETWEEN ISOLATION JOINTS IN EQUAL BAYS OF 5 FT. OR LESS.

SEE THE ARCHITECTURAL DRAWINGS FOR SLAB ON GRADE DEPRESSIONS AND OTHER REQUIREMENTS.

CONTRACTION, EXPANSION AND CONSTRUCTION JOINTS

ALL JOINT PLANS ARE CONSIDERED MEANS AND METHODS AND THE CONTRACTOR SHALL SUBMIT JOINT PLANS TO THE SEOR FOR APPROVAL.

CONTRACTION JOINTS (ALSO KNOWN AS CONTROL JOINTS) ARE INTENDED TO CREATE WEAKENED PLANES IN THE CONCRETE AND REGULATE THE LOCATION OF CRACKS.

THE MAXIMUM JOINT SPACING SHOULD BE 24 TO 36 TIMES THE THICKNESS OF THE SLAB NOT EXCEEDING 15 FEET.

ALL PANELS SHOULD BE SQUARE OR NEARLY SQUARE. THE LENGTH SHOULD NOT EXCEED 1.5 TIMES THE WIDTH. AVOID L-SHAPED PANELS.

FOR CONTRACTION JOINTS, THE JOINT GROOVE SHOULD HAVE A MINIMUM DEPTH OF 1/4 THE THICKNESS OF THE SLAB, BUT NOT LESS THAN 1 INCH.

CONVENTIONAL SAW-CUT JOINTS SHOULD BE RUN WITHIN 4 TO 12 HOURS AFTER THE CONCRETE HAS BEEN FINISHED.

EXPANSION JOINTS (ALSO KNOWN AS ISOLATION JOINTS) SEPARATE SLABS FROM OTHER PARTS OF THE STRUCTURE.

USE PREMOLDED JOINT FILLER FOR ISOLATION JOINTS TO SEPARATE SLABS FROM BUILDING WALLS OR FOOTINGS.

TO ISOLATE COLUMNS FROM SLABS, FORM CIRCULAR OR SQUARE RECESS. DO NOT FILL RECESSES UNTIL AFTER THE FLOOR HAS HARDENED.

CONSTRUCTION JOINTS (ALSO KNOWN AS COLD JOINTS) ARE SURFACES WHERE TWO SUCCESSIVE PLACEMENTS OF CONCRETE MEET.

CONSTRUCTION JOINTS ARE NOT PERMITTED UNLESS THE DETAIL HAS BEEN APPROVED BY THE SEOR.



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