

GENERAL NOTES

THESE GENERAL NOTES ARE TO BE USED AS A SUPPLEMENT TO THE SPECIFICATIONS. ANY DISCREPANCIES FOUND AMONG THE DRAWINGS, THE SPECIFICATIONS, THESE GENERAL NOTES AND THE SITE CONDITIONS SHALL BE REPORTED TO THE ARCHITECT, WHO SHALL CORRECT SUCH DISCREPANCY IN WRITING. ANY WORK DONE BY THE GENERAL CONTRACTOR AFTER DISCOVERY OF SUCH DISCREPANCY SHALL BE DONE AT THE GENERAL CONTRACTOR'S RISK. THE GENERAL CONTRACTOR SHALL VERIFY AND COORDINATE DIMENSIONS AMONG ALL DRAWINGS PRIOR TO PROCEEDING WITH ANY WORK OR FABRICATION. THE STRUCTURE HAS BEEN DESIGNED TO RESIST CODE REQUIRED VERTICAL AND LATERAL FORCES AFTER THE CONSTRUCTION OF ALL STRUCTURAL ELEMENTS HAS BEEN COMPLETED. STABILITY OF THE STRUCTURE PRIOR TO COMPLETION IS THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR. THIS RESPONSIBILITY INCLUDES BUT IS NOT LIMITED TO JOB SITE SAFETY; ERECTION MEANS, METHODS, AND SEQUENCES; TEMPORARY SHORING, FORMWORK, AND BRACING; USE OF EQUIPMENT AND CONSTRUCTION PROCEDURES. PROVIDE ADEQUATE RESISTANCE TO LOADS ON THE STRUCTURES DURING CONSTRUCTION PER SEI/ASCE STANDARD NO. 37-02 "DESIGN LOADS ON STRUCTURES DURING CONSTRUCTION."

CONSTRUCTION OBSERVATION BY THE STRUCTURAL ENGINEER IS FOR GENERAL CONFORMANCE WITH DESIGN ASPECTS ONLY AND IS NOT INTENDED IN ANY WAY TO REVIEW THE CONTRACTOR'S CONSTRUCTION PROCEDURES.

STANDARDS  
ALL METHODS, MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE 2006 INTERNATIONAL BUILDING CODE (IBC) AS AMENDED AND ADOPTED BY THE LOCAL BUILDING OFFICIAL OR APPLICABLE JURISDICTION.

CONTRACT DRAWINGS / DIMENSIONS

ARCHITECTURAL DRAWINGS ARE THE PRIME CONTRACT DRAWINGS. CONSULTANT DRAWINGS BY OTHER DISCIPLINES ARE SUPPLEMENTARY TO ARCHITECTURAL DRAWINGS. REPORT DIMENSIONAL OMISSIONS OR DISCREPANCIES BETWEEN ARCHITECTURAL DRAWINGS AND STRUCTURAL, MECHANICAL, ELECTRICAL OR CIVIL DRAWINGS TO ARCHITECT PRIOR TO PROCEEDING WITH WORK.

STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH ARCHITECTURAL DRAWINGS. PRIMARY STRUCTURAL ELEMENTS ARE DIMENSIONED ON STRUCTURAL PLANS AND DETAILS AND OVERALL LAYOUT OF STRUCTURAL PORTION OF WORK. SOME SECONDARY ELEMENTS ARE NOT DIMENSIONED SUCH AS, WALL CONFIGURATIONS, INCLUDING EXACT DOOR AND WINDOW LOCATIONS, ALCOVES, SLAB SLOPES AND DEPRESSIONS, CURBS, ETC. VERTICAL DIMENSIONAL CONTROL IS DEFINED BY ARCHITECTURAL WALL SECTIONS AND BUILDING SECTIONS. STRUCTURAL DETAILS SHOW DIMENSIONAL RELATIONSHIPS TO CONTROL DIMENSIONS DEFINED BY ARCHITECTURAL DRAWINGS. DETAILING AND SHOP DRAWING PRODUCTION FOR STRUCTURAL ELEMENTS WILL REQUIRE DIMENSIONAL INFORMATION CONTAINED IN BOTH ARCHITECTURAL AND STRUCTURAL DRAWINGS.

DESIGN CRITERIA

VERTICAL LOADS

AREA	DESIGN DEAD LOAD	LIVE LOAD (1)	PARTITION LOAD	CONCENTRATED LOADS
ROOF		25 PSF		
MECHANICAL ROOM		50 PSF	+EQUIPMENT	2,000#
OFFICE		50 PSF	+15 PSF	2,000#
CORRIDORS (ABOVE 1ST FLR)		80 PSF		2,000#
CORRIDORS (1ST FLR)		100 PSF		2,000#
STAIRS		100 PSF		300#
LOBBY AREA		100 PSF		2,000#
LIGHT STORAGE		125 PSF		2,000#
EMERGENCY ROOM		80 PSF		1,000#
LABORATORIES		60 PSF		1,000#
PATIENT ROOMS		60 PSF	15 PSF	1,000#

(1) LIVE LOADS EXCEPT SNOW LOADS ARE REDUCED PER IBC SECTION 1607.9.

LATERAL FORCES

LATERAL FORCES ARE TRANSMITTED BY DIAPHRAGM ACTION OF ROOF AND FLOORS TO SHEAR WALLS. LOADS ARE THEN TRANSFERRED TO FOUNDATION BY SHEAR WALL ACTION WHERE ULTIMATE DISPLACEMENT IS RESISTED BY PASSIVE PRESSURE OF EARTH AND/OR SLIDING FRICTION. OVERTURNING IS RESISTED BY DEAD LOAD OF THE STRUCTURE.

WIND:

THE BUILDING MEETS THE CRITERIA TO USE THE "METHOD 1 - SIMPLIFIED PROCEDURE" PER ASCE 7-05.

- EXPOSURE CATEGORY = B
- BASIC WIND SPEED, V<sub>50</sub> = 85 MPH
- WIND IMPORTANCE FACTOR, I<sub>w</sub> = 1.15
- BUILDING CATEGORY PER TABLE 1604.5 = I
- TOPOGRAPHIC FACTOR = 1.38
- INTERNAL PRESSURE COEFFICIENT (ENCLOSED) ±0.18
- COMPONENTS AND CLADDING LOADS (BASED ON EFFECTIVE WIND AREA = 10SF)
- FOR WIND UPLIFT MAP SEE SHEET S0.07
- FOR CLADDING PRESSURES SEE SHEETS S0.05 & S0.06

SEISMIC: SEISMIC HAZARD AND GROUND MOTION STUDIES PER "GEOTECHNICAL ENGINEERING SERVICE, SEISMIC DESIGN, MULTICARE EMERGENCY ROOM EXPANSION, TACOMA, WASHINGTON - DATED MAY 23, 2007" BY GEOENGINEERS INC.

A NON-LINEAR RESPONSE HISTORY ANALYSIS WAS PERFORMED BASED UPON THE REQUIREMENTS OF ASCE 7-05 SECTION 16.2.

SEISMIC IMPORTANCE FACTOR, I<sub>e</sub> = 1.5  
SPECTRAL RESPONSE ACCELERATIONS S<sub>s</sub> = 1.22 & S<sub>1</sub> = 0.42  
SITE CLASS PER TABLE 1613.5.3 = C  
SPECTRAL RESPONSE COEFFICIENTS S<sub>0.1</sub> = 0.813 & S<sub>0.1</sub> = 0.386  
SEISMIC DESIGN CATEGORY PER TABLE 1613.5.6 = D  
ANALYSIS PROCEDURE USED = NON-LINEAR RESPONSE HISTORY  
RESPONSE MODIFICATION FACTOR PER TABLE ASCE 7-05, TABLE 12.2-1, R = 6

PIPES, DUCTS AND MECHANICAL EQUIPMENT SUPPORTED OR BRACED FROM STRUCTURE. CONFORM TO SHEET METAL AND AIR CONDITIONING CONTRACTORS' NATIONAL ASSOCIATION, INC. PUBLICATION "SEISMIC RESTRAINT MANUAL: GUIDELINES FOR MECHANICAL SYSTEMS". SPRINKLER LINE ATTACHMENTS SHALL CONFORM TO NFPA PAMPHLET 13.

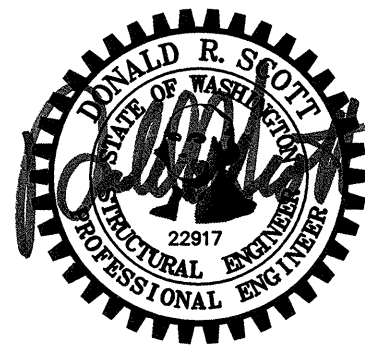
FOUNDATION DESIGN CRITERIA "GEOTECHNICAL ENGINEERING SERVICE, SEISMIC DESIGN, MULTICARE EMERGENCY ROOM EXPANSION, TACOMA, WASHINGTON - DATED MAY 23, 2007" BY GEOENGINEERS, INC.

SOIL BEARING PRESSURE: 4500 PSF ABOVE ELEVATION 320, 8000 PSF BELOW ELEVATION 320  
DRILLED PIERS: 22.5 KSF (SERVICE), 55 KSF (STRENGTH & LIMIT STATUS)  
1.0 KSF SHAFT FRICTION (CASED)\*  
3.0 KSF SHAFT FRICTION (UNCASED)\*  
MODULUS OF SUBGRADE REACTION = 300 pci  
ACTIVE PRESSURE - RESTRAINED: 55 PCF +5H SEISMIC SURCHARGE  
ACTIVE PRESSURE - UNRESTRAINED: 35 PCF +5H SEISMIC SURCHARGE  
PASSIVE RESISTANCE: 300 PCF (INCLUDES F.O.S. ≥ 1.5)  
COEFFICIENT OF FRICTION: .40 (INCLUDES F.O.S. ≥ 1.5)  
\*1/3 INCREASE ALLOWED FOR SEISMIC OR WIND LOADING



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TACOMA, WASHINGTON

ALL FOOTINGS SHALL BEAR ON FIRM, UNDISTURBED EARTH OR "STRUCTURAL BACKFILL". NATIVE EARTH BEARING SHALL BE SURFACE COMPACTED. AREAS OVER-EXCAVATED SHALL BE BACKFILLED "STRUCTURAL BACKFILL AT ELEVATION ABOVE 320' AND WITH LEAN CONCRETE (F'<sub>c</sub>=2000 PSI) OR "CRUSHED ROCK BASE COURSE (WSDOT9-03.9) BELOW ELEV. 320' ". AREAS DESIGNATED "STRUCTURAL BACKFILL" SHALL BE FILLED WITH APPROVED WELL-GRADED BANKRUN MATERIAL. MAXIMUM SIZE OF ROCK 4". FROZEN SOIL, ORGANIC MATERIAL AND DELETERIOUS MATTER NOT ALLOWED. COMPACT TO AT LEAST 95% OF ITS MAXIMUM DENSITY AS DETERMINED BY ASTM D-1557. CONTRACTOR SHALL EXERCISE EXTREME CARE DURING EXCAVATION TO AVOID DAMAGE TO BURIED LINES, TANKS, AND OTHER CONCEALED ITEMS. UPON DISCOVERY, DO NOT PROCEED WITH WORK UNTIL RECEIVING WRITTEN INSTRUCTIONS FROM ARCHITECT. A COMPETENT REPRESENTATIVE OF THE OWNER SHALL INSPECT ALL FOOTING EXCAVATIONS FOR SUITABILITY OF BEARING SURFACES PRIOR TO PLACEMENT OF REINFORCING STEEL. PROVIDE DRAINAGE AND DEWATERING AROUND ALL WORK TO AVOID WATER-SOFTENED FOOTINGS.

FREE DRAINING BACKFILL MATERIAL FOR RETAINING & BASEMENT WALLS

A CLEAN, FREE DRAINING, WELL GRADED GRANULAR MATERIAL CONFORMING TO ASTM D2487 GW OR SW WHOSE MAXIMUM PARTICLE SIZE DOES NOT EXCEED 3/4" AND WHOSE FINES CONTENT (MATERIAL PASSING THE NO. 200 SIEVE) DOES NOT EXCEED 5%.

WITH A MAXIMUM DUST RATIO  $\frac{\% \text{ PASSING U.S. NO. 200 SIEVE}}{\% \text{ PASSING U.S. NO. 40 SIEVE}} = 2/3 \text{ MAX.}$

DRILLED PIERS:

DRILLED PIERS SHALL BE FOUNDED IN THE GLACIAL TILL SOILS. THE PIERS MAY BE DRILLED OPEN OR CASED. PIERS SHALL CONFORM TO THE REQUIREMENTS OF IBC SECTIONS 1808 & 1810.

THE DESIGN EXCAVATION DEPTHS, AND BEARING SURFACES SHALL BE VERIFIED IN THE FIELD BY THE SOIL TESTING AGENCY WHO WILL EVALUATE THE CONTRACTOR'S OPERATION AND COLLECT, INTERPRET, AND RECORD INSTALLATION DATA. CONCRETE PLACEMENT AND PIER REINFORCING SHALL BE VERIFIED BY THE SPECIAL INSPECTOR.

CONCRETE

CAST-IN-PLACE CONCRETE

CODES, SPECIFICATIONS, AND STANDARDS. CONCRETE WORK SHALL CONFORM TO THE FOLLOWING CODES, SPECIFICATIONS, AND STANDARDS, AND THE STANDARDS AND SPECIFICATIONS THEY REFERENCE. THE CONTRACTOR SHALL OBTAIN AND HAVE READILY AVAILABLE ON SITE THE LATEST VERSION OF THE "ACI MANUAL OF CONCRETE PRACTICE".

ACI:

1. ACI-116 'CEMENT AND CONCRETE TERMINOLOGY'.
2. ACI-301 'STANDARD SPECIFICATIONS FOR STRUCTURAL CONCRETE'.
3. ACI-302 'GUIDE TO CONCRETE FLOOR AND SLAB CONSTRUCTION'.
4. ACI-304 'GUIDE FOR MEASURING, MIXING, TRANSPORTING, AND PLACING CONCRETE'.
5. ACI-305 'HOT WEATHER CONCRETING'.
6. ACI-306 'COLD WEATHER CONCRETING'.
7. ACI-308 'STANDARD SPECIFICATION FOR CURING CONCRETE'.
8. ACI-309 'STANDARD PRACTICE FOR CONSOLIDATION OF CONCRETE'.
9. ACI-311 'GUIDE FOR CONCRETE INSPECTION'.
10. ACI-315 'DETAILS AND DETAILING OF CONCRETE REINFORCEMENT'.
11. ACI-318 'BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE'.
12. ACI-506 'GUIDE FOR SHOTCRETING'.
13. ACI-117 'STANDARD SPECIFICATIONS FOR TOLERANCES'.
14. ACI-347 'GUIDE TO FORMWORK OF CONCRETE'

ASTM:

1. ASTM C33 'STANDARD SPECIFICATION FOR CONCRETE AGGREGATES'.
2. ASTM C94 'STANDARD SPECIFICATION FOR READY-MIX CONCRETE'.
3. ASTM C150 'STANDARD SPECIFICATION FOR PORTLAND CEMENT'.
4. ASTM C260 'STANDARD SPECIFICATION FOR AIR-ENTRAINED ADMIXTURES FOR CONCRETE'.
5. ASTM C309 'STANDARD SPECIFICATION FOR LIQUID MEMBRANE-FORMING COMPOUNDS FOR CURING CONCRETE'.
6. ASTM C494 'STANDARD SPECIFICATION FOR CHEMICAL ADMIXTURES FOR CONCRETE'.
7. ASTM C595 'STANDARD SPECIFICATION FOR BLENDED HYDRAULIC CEMENTS'.
8. ASTM C618 'STANDARD SPECIFICATION FOR ... FLY-ASH...'
9. ASTM C1017 'STANDARD SPECIFICATION FOR CHEMICAL ADMIXTURES FOR USE IN PRODUCING FLOWING CONCRETE'.
10. ASTM C-1116 'SYNTHETIC FIBER REINFORCED CONCRETE AND SHOTCRETE'.
11. ASTM C-1218 'STANDARD TEST METHOD FOR WATER-SOLUBLE CHLORIDE IN MORTAR AND CONCRETE'.

MIX DESIGNS: THE CONTRACTOR SHALL DESIGN CONCRETE MIXES THAT, MEET OR EXCEED THE REQUIREMENTS OF THE CONCRETE MIX TABLE. THE MIX DESIGNS SHALL FACILITATE ANTICIPATED PLACEMENT METHODS, WEATHER, REBAR CONGESTION, ARCHITECTURAL FINISHES, CONSTRUCTION SEQUENCING, STRUCTURAL DETAILS, AND ALL OTHER FACTORS REQUIRED TO PROVIDE A STRUCTURALLY SOUND, AESTHETICALLY ACCEPTABLE FINISHED PRODUCT. WATER REDUCING ADMIXTURES WILL LIKELY BE REQUIRED TO MEET THESE REQUIREMENTS. CONCRETE MIX DESIGNS SHALL CLEARLY INDICATE THE TARGET SLUMP. SLUMP TOLERANCE SHALL BE ± 1-1/2 INCHES.

AGGREGATE: COARSE AND FINE AGGREGATE SHALL CONFORM TO ASTM C-33

CEMENT: CEMENT SHALL CONFORM TO ASTM-150, TYPE II PORTLAND CEMENT, UNLESS NOTED OTHERWISE.

FLYASH: SHALL CONFORM TO ASTM C618 CLASS C OR F, MAXIMUM LOSS OF IGNITION SHALL BE 1.0%.

ALTERNATE MIX DESIGNS: VARIATIONS TO THE MIX DESIGN PROPORTIONS MAY BE ACCEPTED IF SUBSTANTIATED IN ACCORDANCE WITH ACI-318, CHAPTER 5. PROVIDE SUBMITTALS A MINIMUM OF TWO WEEKS PRIOR TO BID FOR DETERMINATION OF ACCEPTABILITY.

ADMIXTURES: ADMIXTURES SHALL BE BY BASF (MASTERBUILDERS), W.R. GRACE, OR PRE-APPROVED EQUAL. ALL MANUFACTURERS RECOMMENDATIONS SHALL BE FOLLOWED.

WATER: SHALL BE CLEAN AND POTABLE.

MAXIMUM CHLORIDE CONTENT: THE MAXIMUM WATER SOLUBLE CHLORIDE CONTENT SHALL NOT EXCEED 0.15% BY WEIGHT OF CEMENTITIOUS MATERIAL UNLESS NOTED OTHERWISE.

CONCRETE EXPOSED TO WEATHER: PROVIDE 5.0% TOTAL AIR CONTENT FOR ALL CONCRETE EXPOSED TO WEATHER. TOTAL AIR CONTENT IS THE SUM OF ENTRAINED AIR PROVIDED BY ADMIXTURES AND NATURALLY OCCURRING ENTRAPPED AIR. AIR CONTENT SHALL BE TESTED PRIOR TO BEING PLACED IN THE PUMP HOPPER OR BUCKET; IT IS NOT REQUIRED TO BE TESTED AT THE DISCHARGE END OF THE PUMP HOSE. THE TOLERANCE ON ENTRAPPED AIR SHALL BE +2.0% AND -1.5% WITH THE AVERAGE OF ALL TESTS NOT LESS THAN THE SPECIFIED AMOUNT.

SHOTCRETE: SHALL CONFORM TO IBC SECTION 1914.

ITEM	DESIGN f'c (PSI)	MAX. W/C RATIO	MIN. FLYASH (PCY)	MAX. AGGREGATE SIZE (IN)	NOTES	MIN. CEMENTITIOUS (1) MATERIAL (SACKS/YARD) <sup>(2)</sup>
SLAB ON GRADE	4000 @ 28 DAYS	0.45	100	3/4		5-1/2
FOOTINGS	3000 @ 28 DAYS	0.50	--	3/4		5
MAT FOUNDATIONS	5000 @ 56 DAYS	0.50	100	3/4		5-1/2
DRILLED CAISSONS	4000 @ 28 DAYS	0.45	--	3/4		5-1/2
BASEMENT, RETAINING, AND STEM WALLS	4000 @ 28 DAYS	0.45	100	3/4		5-1/2
SHOTCRETE WALLS	5000 @ 28 DAYS	0.45	100	3/8		5-1/2
SLAB ON METAL DECK	4000 @ 28 DAYS	0.45	--	3/4		5-1/2
ELEVATED BEAMS AND SLABS	4000 @ 28 DAYS	0.45	100	3/4		5-1/2
ELEVATED PT BEAMS AND SLABS	3000 @ 3 DAYS 5000 @ 56 DAYS	0.40	100	3/4	3,4	5-1/2
COLUMNS AND SHEAR WALLS U.N.O.	4000 @ 28 DAYS	0.50	--	3/8		5-1/2
SHEAR WALLS WHERE NOTED	7000 @ 28 DAYS	.50	--	3/8		5-1/2
ALL OTHER CONCRETE	4000 @ 28 DAYS	0.50	--	3/4		5-1/2
CLOSURE STRIPS	5000 @ 56 DAYS	0.40	100	3/4	3,4	5-1/2

CONCRETE MIX NOTES:

1. TOTAL CEMENTITIOUS MATERIAL IS THE SUM OF ALL CEMENT PLUS FLYASH.

2. AT THE CONTRACTORS OPTION FLYASH MAY BE SUBSTITUTED FOR CEMENT BUT SHALL NOT EXCEED 25% BY WEIGHT OF TOTAL CEMENTITIOUS MATERIAL, EXCEPT AS NOTED ABOVE.

3. MAXIMUM WATER CONTENT 240 PCY.

4. MAXIMUM WATER SOLUBLE CHLORIDE ION CONCENTRATION 0.06 PERCENT BY WEIGHT OF CEMENTITIOUS MATERIAL.

CONCRETE PLACEMENT

PLACE CONCRETE FOLLOWING ALL APPLICABLE ACI RECOMMENDATIONS. CONCRETE SHALL BE PROPERLY CONSOLIDATED PER ACI 309 USING INTERIOR MECHANICAL VIBRATORS, DO NOT OVER-VIBRATE. CONCRETE SHALL BE POURED MONOLITHICALLY BETWEEN CONSTRUCTION OR EXPANSION JOINTS. IF CONCRETE IS PLACED BY THE PUMP METHOD, HORSES SHALL BE PROVIDED TO SUPPORT THE HOSE. THE HOSE SHALL NOT BE ALLOWED TO RIDE ON THE REINFORCING. WEATHER FORECASTS SHALL BE MONITORED AND ACI RECOMMENDATIONS FOR HOT AND COLD WEATHER CONCRETING SHALL BE FOLLOWED AS REQUIRED. CONCRETE SHALL NOT FREE FALL MORE THAN 5 FEET DURING PLACEMENT WITHOUT WRITTEN APPROVAL OF STRUCTURAL ENGINEER.

FORMED SURFACES:

FORMWORK CLASS OF SURFACE PER ACI 347 TABLE 3.1	
ITEM	CLASS OF FINISH
ALL SURFACES EXPOSED TO PUBLIC VIEW, U.N.O.	A
ALL SURFACES RECEIVING A COURSE TEXTURED COATING SUCH AS PLASTER OR STUCCO, UNLESS NOTED OTHERWISE	B
ALL OTHER SURFACES, UNLESS NOTED OTHERWISE	C

FORMWORK STRIPPING

COLUMNS & WALLS: COLUMNS AND WALLS NOT SUPPORTING FRAMING WEIGHT MAY BE STRIPPED AS SOON AS FORMS CAN BE REMOVED WITHOUT DAMAGING THE CONCRETE AND THE CONCRETE HAS REACHED A MINIMUM COMPRESSIVE STRENGTH OF 500 PSI.

BEAMS & SLABS: BEAMS AND SLABS MAY BE STRIPPED AND BECOME SELF SUPPORTING AS SOON AS THEIR COMPRESSIVE STRENGTH REACHES 75% OF THE SPECIFIED DESIGN STRENGTH. RESHORING SHALL BE PROVIDED FOR ALL CONSTRUCTION LOADS THEREAFTER PER THE GENERAL CONTRACTOR.

COLD WEATHER PLACEMENT

1. COLD WEATHER IS DEFINED BY ACI 306 AS "A PERIOD WHEN FOR MORE THAN 3 SUCCESSIVE DAYS THE MEAN DAILY TEMPERATURE DROPS BELOW 40° F."
2. NO CONCRETE SHALL BE PLACED ON FROZEN OR PARTIALLY FROZEN GROUND. THAWING THE GROUND WITH HEATERS IS PERMISSIBLE.
3. CONCRETE MIX TEMPERATURES SHALL BE AS SHOWN BELOW. HEATING OF WATER AND/OR AGGREGATES MAY BE REQUIRED TO ATTAIN THESE TEMPERATURES.
4. THE CONCRETE MAY REQUIRE PROTECTION FOR 4-7 DAYS AFTER POURING. IF TEMPERATURES REMAIN BELOW FREEZING, INSULATING BLANKET COVERAGE IS REQUIRED. IF TEMPERATURES ARE SLIGHTLY BELOW FREEZING (30° F MIN.) AT NIGHT AND ABOVE FREEZING DURING THE DAY, KRAFT PAPER WITH COMPLETE COVERAGE MAY BE USED IN LIEU OF INSULATED BLANKETS.
5. NO ADDITIVES CONTAINING CHLORIDES SHALL BE USED. USE "POZZUTEC 20+" BY MASTER BUILDERS OR "POLARSET" BY W.R. GRACE OR PRE-APPROVED EQUAL.

CONDITION OF PLACEMENT AND CURING		WALLS & SLABS	FOOTINGS
MIN. TEMP. FRESH CONCRETE AS MIXED FOR WEATHER INDICATED.	ABOVE 30° F.	60	55
	0 TO 30° F.	65	60
	BELOW 0° F.	70	65
SLAB ON GRADE	4000 @ 28 DAYS	3	5-1/2
MIN. TEMP. FRESH CONCRETE AS PLACED AND MAINTAINED, DEGREES F.		55	50
	MAX. ALLOWABLE GRADUAL DROP IN TEMP. THROUGHOUT FIRST 24 HOURS AFTER END OF PROTECTION, DEGREES F.	50	40

DRAWING INDEX		
1	S0.01	GENERAL NOTES
2	S0.02	GENERAL NOTES
3	S0.03	GENERAL NOTES
4	S0.04	GENERAL NOTES
5	S0.05	CLADDING WIND PRESSURES
6	S0.06	CLADDING WIND PRESSURES
7	S0.07	ROOF WIND PRESSURE MAP
8	S2.01B	FOUNDATION BOTTOM REINFORCING PLAN – SOUTH
9	S2.01T	FOUNDATION TOP REINFORCING PLAN – SOUTH
10	S2.11B	FOUNDATION BOTTOM REINFORCING PLAN – NORTH
11	S2.11T	FOUNDATION TOP REINFORCING PLAN – NORTH
12	S2.02	SECOND FLOOR FRAMING PLAN – SOUTH
13	S2.02s	SECOND FLOOR SLAB PLAN – SOUTH
14	S2.12	SECOND FLOOR FRAMING PLAN – NORTH
15	S2.12s	SECOND FLOOR SLAB PLAN – NORTH
16	S2.03	THIRD FLOOR FRAMING PLAN – SOUTH
17	S2.03s	THIRD FLOOR SLAB PLAN – SOUTH
18	S2.13	THIRD FLOOR FRAMING PLAN – NORTH
19	S2.13s	THIRD FLOOR SLAB PLAN – NORTH
20	S2.04	FOURTH FLOOR FRAMING PLAN – SOUTH
21	S2.04s	FOURTH FLOOR SLAB PLAN – SOUTH
22	S2.14	FOURTH FLOOR FRAMING PLAN – NORTH
23	S2.14s	FOURTH FLOOR SLAB PLAN – NORTH
24	S2.05	FIFTH FLOOR FRAMING PLAN – SOUTH
25	S2.05s	FIFTH FLOOR SLAB PLAN – SOUTH
26	S2.15	FIFTH FLOOR FRAMING PLAN – NORTH
27	S2.15s	FIFTH FLOOR SLAB PLAN – NORTH
28	S2.06	SIXTH FLOOR FRAMING PLAN – SOUTH
29	S2.06s	SIXTH FLOOR SLAB PLAN SOUTH
30	S2.16	SIXTH FLOOR FRAMING PLAN – NORTH
31	S2.16s	SIXTH FLOOR SLAB PLAN – NORTH
	S2.07	REMOVED FROM SET
	S2.07s	REMOVED FROM SET
32	S2.17	SEVENTH FLOOR FRAMING PLAN – NORTH
33	S2.17s	SEVENTH FLOOR SLAB PLAN – NORTH
	S2.08	REMOVED FROM SET
34	S2.18	EIGHTH FLOOR FRAMING PLAN – NORTH
35	S2.18s	EIGHTH FLOOR SLAB PLAN – NORTH
36	S2.19	NINTH FLOOR FRAMING PLAN – NORTH
37	S2.19s	NINTH FLOOR SLAB PLAN – NORTH
38	S2.20	TENTH FLOOR FRAMING PLAN – SOUTH
39	S2.22	SECOND FLOOR FRAMING PLAN – K-WING REMODEL
40	S2.32	L-WING PLAZA SECOND FLOOR FRAMING PLAN
41	S2.33	L-WING PLAZA CANOPY FRAMING PLAN
42	S2.37	ROOF FRAMING PLAN L-WING REMODEL
43	S3.00	SOUTH CORE ELEVATIONS
44	S3.01	SOUTH CORE ELEVATIONS
45	S3.02	SOUTH CORE WALL SECTION
46	S3.03	SOUTH CORE WALL SECTION
47	S3.04	SOUTH CORE WALL SECTION
48	S3.10	NORTH CORE ELEVATIONS
49	S3.11	NORTH CORE ELEVATIONS
50	S3.12	NORTH CORE ELEVATIONS
51	S3.13	NORTH CORE WALL SECTION
52	S3.14	NORTH CORE WALL SECTION
53	S3.15	NORTH CORE WALL SECTION
54	S3.16	NORTH CORE WALL SECTION
55	S3.17	NORTH CORE WALL SECTION
56	S3.18	NORTH CORE WALL SECTION
57	S3.19	NORTH CORE WALL SECTION
58	S3.20	SHEAR WALL ELEVATIONS
59	S3.21	SHEAR WALL ELEVATIONS
60	S3.30	WALL ELEVATIONS
61	S3.31	WALL ELEVATIONS
62	S3.32	WALL ELEVATIONS L-WING
63	S3.33	WALL ELEVATIONS K-WING
64	S3.50	COLUMN SCHEDULE
65	S3.51	TYPICAL COLUMN DETAILS
66	S4.00	FOUNDATION DETAILS
67	S4.01	FOUNDATION DETAILS
68	S4.02	GRADE BEAM ELEVATIONS
69	S4.03	FOUNDATION DETAILS
70	S4.04	FOUNDATION DETAILS
71	S4.05	FOUNDATION DETAILS
72	S4.06	FOUNDATION DETAILS
73	S4.07	FOUNDATION DETAILS
74	S4.08	FOUNDATION DETAILS
75	S4.09	FOUNDATION DETAILS
76	S4.10	TYPICAL CONCRETE POST-TENSIONED GIRDER SCHEDULES
77	S4.11	TYPICAL CONCRETE POST-TENSIONED GIRDER SCHEDULES
78	S4.11A	TYPICAL CONCRETE POST-TENSIONED GIRDER SCHEDULES
79	S4.12	TYPICAL CONCRETE POST-TENSIONED GIRDER SCHEDULES
80	S4.13	TYPICAL ONE WAY POST-TENSIONED DETAILS
81	S4.14	POST-TENSIONED DETAILS
82	S4.15	CONCRETE BEAM DETAILS
83	S4.16	CONCRETE BEAM DETAILS
84	S4.17	CONCRETE BEAM DETAILS
85	S4.18	CONCRETE BEAM DETAILS
86	S4.20	TYPICAL CONCRETE JOIST AND BEAM DETAILS
87	S4.21	TYPICAL CONCRETE DETAILS
88	S4.22	CONCRETE DETAILS
89	S4.23	CONCRETE DETAILS
90	S4.24	CONCRETE DETAILS
91	S4.25	CONCRETE DETAILS
92	S4.30	CONCRETE COUPLING BEAM DETAILS
93	S4.31	CONCRETE COUPLING BEAM DETAILS
94	S4.40	TYPICAL COMPOSITE DECK DETAILS
95	S4.41	TYPICAL METAL DECK DETAILS
96	S4.50	TYPICAL STEEL DETAILS
97	S4.51	STEEL DETAILS
98	S4.52	STEEL DETAILS
99	S4.53	STEEL DETAILS
100	S4.54	STEEL DETAILS
101	S4.55	STEEL DETAILS
102	S4.56	STEEL DETAILS
103	S4.57	STEEL DETAILS
104	S4.58	STEEL DETAILS
105	S4.59	STEEL DETAILS
106	S4.60	CANOPY DETAILS
107	S4.61	CANOPY DETAILS
108	S5.00	MISCELLANEOUS DETAILS
109	S5.10	SKYBRIDGE DETAILS
110	S5.20	K-WING RETROFIT CONCRETE DETAILS
111	S5.30	PLAZA RETROFIT DETAILS
112	S5.40	L WING COOLING TOWER DETAILS
113	S5.41	SCREEN WALL DETAILS
114	S5.50	MASONRY DETAILS
115	S5.60	LIGHT GAUGE DETAILS
116	S5.61	LIGHT GAUGE DETAILS