CODE: INTERNATIONAL BUILDING CODE (IBC)	2018
LOADINGS FLOOR LIVE LOAD DECK LIVE LOAD ROOF SNOW LOAD	40 PSF 60 PSF 25 PSF
WIND CRITERIA BUILDING CLASSIFICATION ULTIMATE WIND SPEED WIND EXPOSURE TOPOGRAPHIC FACTOR, Kzt	ll 97 MPH B 1.0
SEISMIC CRITERIA SEISMIC RISK CATEGORY SPECTRAL RESPONSE COEFFICIENT, Ss SPECTRAL RESPONSE COEFFICIENT, S1 SEISMIC SITE CLASS SEISMIC DESIGN CATEGORY	II 1.40 0.50 D
STRUCTURAL DESCRIPTIONS	

### GENERAL CONDITIONS

THE CONTRACTOR SHALL EXAMINE THE STRUCTURAL DRAWINGS AND SHALL NOTIFY THE STRUCTURAL ENGINEER IN WRITING OF ANY DISCREPANCIES HE MAY FIND BEFORE PROCEEDING WITH THE WORK. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS AND SITE CONDITIONS BEFORE STARTING WORK. ALL OMISSIONS OR CONFLICTS BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND THE STRUCTURAL ENGINEER BEFORE PROCEEDING WITH ANY WORK SO INVOLVED.

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.

IF A SPECIFIC DETAIL IS NOT SHOWN FOR ANY PART OF THE WORK, THE CONSTRUCTION SHALL BE THE SAME AS FOR SIMILAR WORK.

WORKING DIMENSIONS SHALL NOT BE SCALED FROM PLANS, SECTIONS, OR DETAILS ON THESE DRAWINGS.

THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT AND THE STRUCTURAL ENGINEER OF ANY CONDITION THAT, IN HIS OPINION, MIGHT ENDANGER THE STABILITY OF THE STRUCTURE OR CAUSE DISTRESS TO THE STRUCTURE.

THE CONTRACTOR SHALL SUPERVISE AND DIRECT HIS WORK AND HE SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES. PROVIDE ADEQUATE SHORING AND BRACING OF ALL STRUCTURAL MEMBERS DURING CONSTRUCTION. NOTIFY ENGINEER OF ALL FIELD CHANGES PRIOR TO INSTALLATION.

REFER TO THE ARCHITECTURAL DRAWINGS FOR INFORMATION NOT COVERED BY THESE GENERAL NOTES OR THE STRUCTURAL DRAWINGS.

ALL CONSTRUCTION SHALL BE DONE WITH MATERIALS, METHODS, AND WORKMANSHIP ACCEPTED AS GOOD PRACTICE BY THE CONSTRUCTION INDUSTRY AND IN CONFORMANCE WITH THE PROVISIONS OF PREVAILING CODE EDITION OF THE "INTERNATIONAL BUILDING CODE" (IBC) AND STANDARDS REFERENCED THEREIN.

10. PIPES, DUCTS, SLEEVES, OPENINGS, POCKETS, CHASES, BLOCK-OUTS, ETC., SHALL NOT BE PLACED IN SLABS, FOUNDATIONS, ETC., NOR SHALL ANY STRUCTURAL MEMBER BE CUT FOR SUCH ITEMS, UNLESS SPECIFICALLY DETAILED ON THESE STRUCTURAL DRAWINGS.

11. ALTERNATE ASSEMBLIES AND MATERIALS WILL BE CONSIDERED FOR REVIEW. ENGINEER MAY REQUEST PAYMENT FOR REVIEW.

FOUNDATION

1. STRUCTURAL DESIGN COMPLIES WITH SOILS REPORT PRODUCED BY:

	N.A.	
	FOOTING BEARING PRESSURE:	1500 PSF (ASSUMED)
	LATERAL EARTH PRESSURE ON RETAINING WALLS	N.A.
2	SUBGRADE PREPARATION DRAINAGE PROVISIONS	AND OTHER RELEVANT SOIL

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

DIMENSIONAL LUMBER, ANCHOR BOLT AND NAILING SPECIFICATIONS

1. MEET REQUIREMENTS OF PS 20-70 AND NATIONAL GRADING RULES FOR SOFTWOOD DIMENSIONAL LUMBER. BEAR STAMP OF WWPA.

2. MINIMUM DIMENSIONAL LUMBER GRADES TO BE:

WALL STUDS, 2X, 3 X	HF STUD GRADE
WALL PLATES, 2X, 3X	HF STANDARD GRADE U.N.O
JOISTS, 2 X 6:	HF #2
JOISTS, 2 X 8 AND UP	DF #2
BEAMS, HEADERS, 4X	DF #2, WWPA GRADING
POSTS, 4X, 6X	DF #2 U.N.O
LUMBER NOT NOTED HERE	DF #2 U.N.O

3. PROVIDE STANDARD CUT WASHERS FOR BOLT HEADS AND NUTS BEARING AGAINST WOOD.

4. ALL SILLS OR PLATES RESTING ON CONCRETE OR MASONRY THAT IS IN CONTACT WITH OR RESTING ON FOUNDATIONS SHALL BE PRESSURE-TREATED DOUGLAS FIR/ HEMFIR IN ACCORDANCE TO WITH AWPA U1 (PLANT/SHOP TREATMENT) AND M4 (FIELD TREATMENT) STANDARDS. ALL BEARING WALL PLATES SHALL HAVE 5/8" Ø x10" J-BOLTS PLACED AT MAXIMUM OF 9" FROM THE END OF A PLATE AND SPACED AT INTERVALS SHOWN ON THE SHEARWALL SCHEDULE (MAXIMUM 4'-0" OC SPACING). PROVIDE BP PLATE WASHER AT ALL FOUNDATION SILL PLATE ANCHOR BOLTS. PROVIDE TWO ANCHOR BOLTS MINIMUM PER SECTION OF SILL. FOR NON-SHEARWALL, PLACE ANCHORS AT 48".

5. BOLTS IN WOOD SHALL NOT BE LESS THAN 7 DIAMETERS FROM THE END AND 4 DIAMETERS FROM THE EDGE OF THE MEMBER.

6. NAILS: COMMON WIRE NAILS. NAILING IN ACCORDANCE WITH IBC TABLE 2304.9.1.

7. PRESSURE TREATED WOOD: ALL NAILS INTO PT WOOD SHALL BE HOT DIPPED GALVANIZED PER ASTM A153 OR STAINLESS STEEL. ALL METAL CONNECTORS IN CONTACT WITH PT WOOD SHALL BE HOT DIPPED GALVANIZED AND MEET ASTM A653 CLASS G185 (1.85 OZ OF ZINC PER SQ FT MINIMUM) OR TYPE 304 / 316 STAINLESS STEEL SIMPSON Z-MAX CONNECTORS MEET THIS REQUIREMENT. FASTENERS AND CONNECTORS USED TOGETHER SHALL BE OF THE SAME TYPE (E.G. HOT DIPPED NAILS WITH HOT DIPPED HANGERS)

8. ALL LUMBER WITH A LEAST DIMENSION OF 2" (NOMINAL) SHALL BE STAMPED "SURFACE-DRY" AND SHALL HAVE A MOISTURE CONTENT WHEN SURFACED AND WHEN INSTALLED OF NO MORE THAN 19 PERCENT. LUMBER WITH A LEAST DIMENSION OF 4" (NOMINAL) OR GREATER SHALL BE STAMPED "SURFACE-GREEN" AND AIR-DRIED TO A MOISTURE CONTENT OF NOT MORE THAN 19 PERCENT PRIOR TO ITS USE IN FRAMING THE STRUCTURE.

9. NOTCHING AND BORING OF BEAMS AND JOISTS IS NOT ALLOWED WITHOUT PRIOR APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD.

QUIRE	D? (Y/N)	MATERIAL / ACTIVITY	EXTENT	REQUIRE	D? (Y/N)	MATERIAL / ACTIVITY
Y	Ν	1704.2.5 Inspection of Fabricators Verify fabrication/quality control procedures	Periodic			<b>1705.4 Masonry Construction</b> (A) Level A, B and C Quality Assurance:
Y	N	<b>1705.1.1 Special Cases</b> (work unusual in nature, including but not limited to alternative materials		Y	Ν	1. Verify compliance with approved submittals (B) Level B Quality Assurance
-		and systems, unusual design applications, materials and systems with special manufacturer's		Y	Ν	1. Verification of f'm and f'AAC prior to construction
		requirements		Y	N	<ol> <li>Verification of f'm and f'AAC prior to construction and for every 5,000 SF durin</li> <li>Verification of supervision of materials in premived or problement and the supervision of the su</li></ol>
		1705.2 Steel Construction		T	IN	grout other than self-consolidating grout, as delivered to the project site
Y	N	<ol> <li>Fabricator and erector documents (Verify reports and certificates as listed in AISC 360, chapter N, paragraph 3.2 for compliance with construction documents)</li> </ol>	Each submittal	Y	Ν	3. Verify placement of masonry units (D) Levels B and C Quality Assurance:
Y Y	N N	2. Material verification of structural steel 3. Embedments (Verify diameter, grade, type, length, embedment, See 1705.3 for anchors)	Periodic Continuous	Y	Ν	<ol> <li>Verification of Slump Flow and Visual Stability Index (VSI) of self-consolidating to the project</li> </ol>
Y	Ν	4. Verify member locations, braces, stiffeners, and application of joint details at each connection	Periodic	Y	N N	<ol> <li>Verify compliance with approved submittals</li> <li>Verify proportions of site mixed mortar, grout and prestressing grout for bonds</li> </ol>
V	N	5. Structural steel welding:		Ý	N	4. Verify grade, type, and size of reinforcement and anchor bolts, and prestressing
ř	IN	a. Inspection tasks Prior to Welding (Observe, or perform for each welded joint or member, the QA tasks listed in AISC 360, Table N5.4-1)	Observe of Perform as noted (4)	Y	N	5. Verify construction of mortar joints
Y	Ν	b. Inspection tasks During Welding (Observe, or perform for each welded joint or member, the QA tasks listed in AISC 360, Table N5.4-1)	Observe (4)	Y	Ν	6. Verify placement of reinforcement, connectors, and prestressing tendons and
Y	Ν	c. Inspection tasks After Welding (Observe, or perform for each welded joint or member, the QA tasks listed in AISC 360. Table N5 4-3)	Observe or Perform as noted (4)	Y	Ν	7. Verify grout space prior to grouting
V	N	d. Nondestructive testing (NDT) of welde joints: see Commentary	Periodic	Y	N	8. Verify placement of grout and prestressing grout for bonded tendons
Y	N	2) Complete penetration groove welds 5/16" or greater in risk category II of 17 2) Complete penetration groove welds 5/16" or greater in risk category II	Periodic	Ý	N	10. Verify type, size, and location of anchors, including details of anchorage of m
Y Y	N N	<ul> <li>3) Thermally cut surfaces of access holes when material t &gt; 2"</li> <li>4) Welded joints subject to fatigue when required by AISC 360, Appendix 3, Table A-3.1</li> </ul>	Periodic Periodic	Y	Ν	members, frames, or other construction. 11. Verify welding of reinforcement (see 1705.2.2)
Y	Ν	5) Fabricator's NDT reports when fabricator performs NDT 6. Structural steel bolting:	Each submittal (5)	Y	Ν	12. Verify preparation, construction, and protestion of masonry during cold weath below 40oF) or hot weather (temperature above 90oF)
Y	Ν	a. Inspection tasks Prior to Bolting (Observe, or perform tasks for each bolted connection, in	Observe or Perform as noted (4)	Y	N	13. Verify application and measurement of prestressing force
Y	Ν	b.Inspection tasks During Bolting (Observe the QA tasks listed in AISC 360, Table N5.6-2)	Observe (4)	T	IN	of AAC masonry)
Y	Ν	1) Pre-tensioned and slip-critical joints a) Turn-of-nut with matching markings	Periodic	Y	Ν	<ol> <li>Verify placement of AAC masonry units and construction of thin-bed mortar j 5000 SF of AAC masonry)</li> </ol>
Y	N N	b) Direct tension indicator	Periodic Periodic	Y	N N	16. Verify properties of thin-bed mortar for AAC masonry (first 5000 SF of AAC)
Y	N	d) Turn-of-nut without matching markings	Continuous	і 		
Y	Ν	e) Calibrated wrench 2) Snua-tight ioints	Continuous Periodic	Y	Ν	18. Prepare grout and mortar specimens
Y	Ν	c. Inspection tasks After Bolting (Perform tasks for each bolted connection in accordance with QA	Perform (4)	Y	Ν	19. Observe preparation of prisms
Y	Ν	7. Inspection of steel elements of composite construction prior to concrete placement in accordance	Observe or Perform as noted (4)			1705.5 Wood Construction
		with QA tasks listed in AISC 360, Table N6.1		Y	Ν	<ol> <li>Inspection of the fabrication process of wood structural elements and assemb with Section 1704.2.5</li> </ol>
		1705.2.2 Steel Construction Other Than Structural Steel		Y	Ν	2. For high-load diaphragms, verify grade and thickness of structural panel sheat
Y	N	a. Identification markings	Periodic	Y	Ν	3. For high-load diaphragms, verify nominal size of framing members at adjoining
Y	Ν	<ul> <li>b. Manufacturer's certified test reports</li> <li>2. Connection of cold-formed steel deck to supporting structure:</li> </ul>	Each submittal			or staple diameter and length, number of fastener lines, and that spacing betwee line and at edge margins agree with approved building plans
Y	N N	a. Welding	Periodic	Y	Ν	4. Metal-plate-connected wood trusses spanning 60 feet or greater: verify tempo
Y	N	1) Verify fasteners are in conformance with approved submittal	Periodic			restrain/bracing are installed in accordance with the approved truss submittal pa
Y	Ν	<ol><li>Verify fastener installation is in conformance with approved submittal and manufacturer's recommendations</li></ol>	Periodic			<b>1705.6 Soils</b> 1. Verify materials below shallow foundations are adequate to achieve the design
Y	N	3. Reinforcing steel	Periodic	Y Y	N N	2. Verify excavations are extended to proper depth and have reached proper ma
Ý	N	b. Reinforcing steel resisting flexural and axial forces in intermediate and special moment frames,	Continuous	Ý	N	<ol> <li>Verify use of proper materials, densities, and lift thicknesses during placement</li> </ol>
Y	Ν	boundary elements of special concrete structural walls and shear reinforcement c. Shear reinforcement	Continuous	Y	N	controlled till 5. Prior to placement of controlled fill, observe subgrade and verify that site has
Y	Ν	d. Other reinforcing steel 4. Cold-formed steel trusses spanning 60 feet or greater	Periodic	Y	Ν	properly
Y	Ν	a. Verify temporary and permanent restraint/bracing are installed in accordance with the approved	Periodic	V	NI	1705.7 Driven Deep Foundations
		truss submittal package		Y Y	N	<ol> <li>Verify element materials, sizes and lengths comply with requirements</li> <li>Determine capacities of test elements and conduct additional load tests, as re</li> </ol>
Y	N	<b>1705.3 Concrete Construction</b>	Periodic.	Y Y	N N	<ol> <li>Observe driving operations and maintain complete and accurate records for e</li> <li>Verify placement locations and plumbness, confirm type and size of hammer</li> </ol>
Y V	N N	<ol> <li>Inspection of prestressing steel installation</li> <li>Inspection of prestressing steel installation</li> </ol>	Periodic			blows per foot of penetration, determine required penetrations to achieve design
- -		1908.5 or where strength design is used		Y	N	5. For steel elements, perform additional inspections per Section 1705.2
$\checkmark$	Ν	4. Inspection of anchors and reinforcing steel post-installed in hardened concrete: Per research reports including verification of anchor type, anchor dimensions, hole dimensions, hole cleaning	Periodic or as required by the research report issued by an approved source	Y	Ν	<ol><li>For concrete elements and concrete-filled elements, perform additional inspec 1705.3</li></ol>
		procedures, anchor spacing, edge distances, concrete minimum thickness, anchor embedment and		Y	Ν	7. For specialty elements, perform additional inspections as determined by the re
Y	N	5. Verify use of approved design mix	Periodic	Y	Ν	8. Perform additional inspections and tests in accordance with the construction c
Y	IN	<ol><li>Fresh concrete sampling, perform slump and air content tests and determine temperature of concrete</li></ol>	Continuous			1705.8 Cast-in-Place Deep Foundations
Y Y	N N	7. Inspection of concrete and shotcrete placement for proper application techniques	Continuous Periodic	Y Y	N N	1. Observe drilling operations and maintain complete and accurate records for ea
V	N	9. Inspection of prestressed concrete:		·		applicable), lengths, embedment into bedrock (if applicable) and adequate end-b
ř Y	N N	<ul> <li>Application of prestressing force</li> <li>B. Grouting of bonded prestressing tendons in the seismic-force-resisting system</li> </ul>	Continuous Continuous	Y	Ν	capacity. Record concrete or grout volumes 3. For concrete elements, perform additional inspections in accordance with Sec
Y	N	10. Erection of precast concrete members	In accordance with construction documents	Y	Ν	4. Perform additional inspections and tests in accordance with the construction of
Y	N	<ul> <li>b. Perform inspections of welding and bolting in accordance with Section 1705.2</li> </ul>	In accordance with Section 1705.2	V	N	1705.9 Helical Pile Foundations
T	IN	and prior to removal of shores and forms from beams and structural slabs		T	IN	1. Verify installation equipment, pile dimensions, tip elevations, final depth, final i and other data as required.
Y Y	N N	12. Inspection of formwork for shape, lines, location and dimensions 13. Concrete strength testing and verification of compliance with construction documents	Periodic Periodic	Y	Ν	2. Perform additional inspections and tests in accordance with the construction of
				V	N	1705.10.1 Structural Wood Special Inspections For Wind Resistance
		Notes:		Ŷ	N	<ol> <li>Inspection of field gluing operations of elements of the main windforce-resistin</li> <li>Inspection of nailing, bolting, anchoring and other fastening of components with</li> </ol>
		1. The inspection and testing agent(s) shall be engaged by the Owner or the Owner's Agent, and not by the Contractor or Subcontractor whose work is to be inspected or tested. Any conflict of				windforce-resisting system
		interest must be disclosed to the Building Official prior to commencing work. The qualifications of		v	N	1705.10.2 Cold-formed Steel Special Inspections For Wind Resistance
		Official and/or the Design Professional.		Ý	N	2.Inspection during weiding operations of elements of the main windforce-resistin 2.Inspections for screw attachment, bolting, anchoring and other fastening of cor
		2. The list of Special Inspectors may be submitted as a separate document, if noted so above.				main windforce-resisting system
		3. Special Insenctions as required by Section 1704.2.5 are not required where, the fabricator is		Y	N	1705.10.3 Wind-resisting Components
		approved in accordance with IBC Section 1704.2.5.2		Ý	N	1. Roof cladding 2. Wall cladding
		4. Observe on a random basis, operations need not be delayed pending these inspections. Perform		Y	Ν	1705.11.1 Structural Steel Special Inspections for Seismic Resistance
		these tasks for each welded joint, bolted connection, or steel element.				Inspection of structural steel in accordance with AISC 341
		5. NDT of welds completed in an approved fabricator's shop may be performed by that fabricator		V	N	1705.11.2 Structural Wood Special Inspections for Seismic Resistance
		when approved by the AHJ. Refer to AISC 360, N7.		r Y	N	<ol> <li>Inspection of field gluing operations of elements of the seismic-force resisting</li> <li>Inspection of nailing, bolting, anchoring and other fastening of components with</li> </ol>
						force-resisting system
NCRE	TE AND RE	EINFORCING				1705.11.3 Cold-formed Steel Light-Frame Construction Special Inspections
C		SHALL CONFORM TO THE INDICATED REFERENCE CODES AND STANDARDS		Y	N	<b>Resistance</b> 1. Inspection during welding operations of elements of the seismic-force-resisting
E	AUEPI AS			Y	N	2. Inspections for screw attachment, bolting, anchoring and other fastening of co
A A	CI-301 - "S CI-318 - "F	STANDARD SPECIFICATIONS FOR STRUCTURAL CONCRETE" BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRFTF"				รอเราแน-เบเนอ-เอเรแแญ รั้งรเซเน
A	CI-305R - "	HOT WEATHER CONCRETING"				

REQUIRE	:D? (Y/N)	MATERIAL / ACTIVITY	EXTENT	REQUIRE	ED? (Y/N)	MATERIAL / ACTIVITY
Y	Ν	<b>1704.2.5 Inspection of Fabricators</b> Verify fabrication/guality control procedures	Periodic			<b>1705.4 Masonry Construction</b> (A) Level A. B and C Quality Assurance:
Y	N	<b>1705.1.1 Special Cases</b> (work unusual in nature, including but not limited to alternative materials		Y	Ν	1. Verify compliance with approved submittals (B) Level B Quality Assurance:
		and systems, unusual design applications, materials and systems with special manufacturer's requirements)		Y	Ν	<ol> <li>Verification of f<sup>i</sup>m and fAAC prior to construction</li> <li>(C) Level C Quality Assurance:</li> </ol>
				Y Y	N N	<ol> <li>Verification of f'm and f'AAC prior to construction and for every 5,0</li> <li>Verification of proportions of materials in premixed or preblended r</li> </ol>
Y	N	1705.2 Steel Construction	Fach submittal	Y	N	grout other than self-consolidating grout, as delivered to the project s
v	N	N, paragraph 3.2 for compliance with construction documents)	Periodic	v	N	(D) Levels B and C Quality Assurance:
Y	N	3. Embedments (Verify diameter, grade, type, length, embedment. See 1705.3 for anchors)	Continuous	ı V		to the project
Y	N	<ol><li>Verify member locations, braces, stiffeners, and application of joint details at each connection comply with construction documents</li></ol>	Periodic	Y Y	N N	<ol> <li>Verify compliance with approved submittals</li> <li>Verify proportions of site-mixed mortar, grout and prestressing gro</li> </ol>
Y	N	5. Structural steel welding: a. Inspection tasks Prior to Welding (Observe, or perform for each welded joint or member, the QA	Observe or Perform as noted (4)	Y	N	<ol><li>Verify grade, type, and size of reinforcement and anchor bolts, and anchorages</li></ol>
Y	N	tasks listed in AISC 360, Table N5.4-1) b. Inspection tasks During Welding (Observe, or perform for each welded joint or member, the QA	Observe (4)	Y Y	N N	<ol> <li>Verify construction of mortar joints</li> <li>Verify placement of reinforcement, connectors, and prestressing to</li> </ol>
Y	N	tasks listed in AISC 360, Table N5.4-1)	Observe or Perform as noted (4)	Y	N	7 Verify grout space prior to grouting
· ·		tasks listed in AISC 360, Table N5.4-3)		ı V	N	
Y	N	<ul> <li>a. Nondestructive testing (NDT) of welded joints: see Commentary</li> <li>b. Complete penetration groove welds 5/16" or greater in risk category III or IV</li> </ul>	Periodic	Y	N	<ol> <li>Verify size and location of structural masonry elements</li> </ol>
Y Y	N N	<ul> <li>2) Complete penetration groove welds 5/16" or greater in risk category II</li> <li>3) Thermally cut surfaces of access holes when material t &gt; 2"</li> </ul>	Periodic Periodic	Ŷ	Ν	10. Verify type, size, and location of anchors, including details of anc members, frames, or other construction.
Y Y	N N	<ol> <li>Welded joints subject to fatigue when required by AISC 360, Appendix 3, Table A-3.1</li> <li>Fabricator's NDT reports when fabricator performs NDT</li> </ol>	Periodic Each submittal (5)	Y Y	N N	<ol> <li>Verify welding of reinforcement (see 1705.2.2)</li> <li>Verify preparation, construction, and protestion of masonry during</li> </ol>
Y	N	6. Structural steel bolting:	Observe or Perform as noted (4)	Y	N	below 40oF) or hot weather (temperature above 90oF) 13. Verify application and measurement of prestressing force
· V	N	accordance with QA tasks listed in AISC 360, Table N56-1)		Ý	N	14. Verify placement of AAC masonry units and construction of thin-t
ř	IN	<ul> <li>D.Inspection tasks During Bolting (Observe the QA tasks listed in AISC 360, Table N5.6-2)</li> <li>Pre-tensioned and slip-critical joints</li> </ul>		Y	Ν	15. Verify placement of AAC masonry units and construction of thin-
Y Y	N N	a) Turn-of-nut with matching markings b) Direct tension indicator	Periodic Periodic	Y	N	5000 SF of AAC masonry) 16. Verify properties of thin-bed mortar for AAC masonry (first 5000
Y Y	N N	c) Twist-off type tension control bolt d) Turn-of-nut without matching markings	Periodic Continuous	Y	Ν	17. Verify properties of thin-bed mortar forAAC masonry (after the first
Y	Ν	e) Calibrated wrench 2) Spug tight joints	Continuous Periodic	Y	Ν	18. Prepare grout and mortar specimens
Y	Ν	c. Inspection tasks After Bolting (Perform tasks for each bolted connection in accordance with QA	Perform (4)	Y	Ν	19. Observe preparation of prisms
Y	N	tasks listed in AISC 360, Table N5.6-3) 7. Inspection of steel elements of composite construction prior to concrete placement in accordance	Observe or Perform as noted (4)			1705.5 Wood Construction
		with QA tasks listed in AISC 360, Table N6.1		Y	Ν	<ol> <li>Inspection of the fabrication process of wood structural elements a with Section 1704.2.5</li> </ol>
		1705.2.2 Steel Construction Other Than Structural Steel		Y	Ν	<ol><li>For high-load diaphragms, verify grade and thickness of structural approved building plans</li></ol>
Y	N	a. Identification markings	Periodic	Y	Ν	<ol> <li>For high-load diaphragms, verify nominal size of framing members</li> <li>For high-load diaphragms, verify nominal size of framing members</li> </ol>
I V	IN N	<ul> <li>Manufacturer's certified test reports</li> <li>Connection of cold-formed steel deck to supporting structure:</li> </ul>				line and at edge margins agree with approved building plans
Y Y	N N	a. Welding b. Other fasteners (in accordance with AISC 360,Section N6)	Periodic	Ŷ	Ν	4. Metal-plate-connected wood trusses spanning 60 feet or greater: v restraint/bracing are installed in accordance with the approved truss
Y Y	N N	1) Verify fasteners are in conformance with approved submittal 2) Verify fastener installation is in conformance with approved submittal and manufacturer's	Periodic Periodic			1705.6 Soils
		recommendations		v	N	1. Verify materials below shallow foundations are adequate to achiev
Y	N	a. Verification of weldability of steel other than ASTM A706	Periodic	Ŷ	N	<ol> <li>Verify exclavations are excluded to proper depth and have reached</li> <li>Perform classification and testing of controlled fill materials.</li> </ol>
ı V		b. Reinforcing steel resisting flexural and axial forces in intermediate and special moment frames, boundary elements of special concrete structural walls and shear reinforcement		Y	N	controlled fill
Y Y	N N	c. Shear reinforcement d. Other reinforcing steel	Continuous Periodic	Y	N	<ol><li>Prior to placement of controlled fill, observe subgrade and verify th properly</li></ol>
Y	N	4. Cold-formed steel trusses spanning 60 feet or greater a. Verify temporary and permanent restraint/bracing are installed in accordance with the approved	Periodic			1705.7 Driven Deep Foundations
		truss submittal package		Y	N N	1. Verify element materials, sizes and lengths comply with requireme
V	N	1705.3 Concrete Construction	Poriodio	Ŷ	N	<ol> <li>Betermine capacities of test clements and conduct additional load</li> <li>Observe driving operations and maintain complete and accurate rule</li> </ol>
Y	N	<ol> <li>Inspection of reinforcing steel installation (see 1705.2.2 for weiding)</li> <li>Inspection of prestressing steel installation</li> </ol>	Periodic	I	IN	blows per foot of penetration, determine required penetrations to ach
ř	IN	<ol> <li>Inspection of anchors cast in concrete where allowable loads have been increased per section 1908.5 or where strength design is used</li> </ol>	Continuous	Y	Ν	and butt elevations and document any damage to foundation element 5. For steel elements, perform additional inspections per Section 170
Ŷ	N	4. Inspection of anchors and reinforcing steel post-installed in hardened concrete: Per research reports including verification of anchor type, anchor dimensions, hole dimensions, hole cleaning	Periodic or as required by the research report issued by an approved source	Y	N	<ol><li>For concrete elements and concrete-filled elements, perform addit 1705.3</li></ol>
		procedures, anchor spacing, edge distances, concrete minimum thickness, anchor embedment and tightening torque		Y	Ν	<ol><li>For specialty elements, perform additional inspections as determin professional in responsible charge</li></ol>
Y	N N	5. Verify use of approved design mix	Periodic	Y	Ν	8. Perform additional inspections and tests in accordance with the co
ı V		concrete		N/	N	1705.8 Cast-in-Place Deep Foundations
Y Y	N N	<ol> <li>Inspection of concrete and shotcrete placement for proper application techniques</li> <li>Inspection for maintenance of specified curing temperature and techniques</li> </ol>	Periodic	Y Y	N N	<ol> <li>Observe drilling operations and maintain complete and accurate re</li> <li>Verify placement locations and plumbness, confirm element diameter</li> </ol>
Y	N	9. Inspection of prestressed concrete: a. Application of prestressing force	Continuous			applicable), lengths, embedment into bedrock (if applicable) and ade capacity. Record concrete or grout volumes
Y	Ν	<ul> <li>b. Grouting of bonded prestressing tendons in the seismic-force-resisting system</li> <li>10. Erection of precast concrete members</li> </ul>	Continuous	Y Y	N N	3. For concrete elements, perform additional inspections in accordance
Y Y	N N	a. Inspect in accordance with construction documents	In accordance with construction documents			1705 0 Helicel Bile Foundations
Ý	N	11. Verification of in-situ concrete strength, prior to stressing of tendons in post tensioned concrete	Periodic	Y	Ν	1. Verify installation equipment, pile dimensions, tip elevations, final of
Y	N	and prior to removal of shores and forms from beams and structural slabs	Periodic	Y	Ν	and other data as required. 2. Perform additional inspections and tests in accordance with the co
Y	N	13. Concrete strength testing and verification of compliance with construction documents	Periodic			1705.10.1 Structural Wood Special Inspections For Wind Resista
		Notes:		Y Y	N N	1. Inspection of field gluing operations of elements of the main windfor 2. Inspection of nailing bolting, anchoring and other fastening of com
		1. The inspection and testing agent(s) shall be engaged by the Owner or the Owner's Agent, and not by the Contractor or Subcontractor whose work is to be inspected or tested. Any conflict of				windforce-resisting system
		interest must be disclosed to the Building Official prior to commencing work. The qualifications of		v	N	1705.10.2 Cold-formed Steel Special Inspections For Wind Resis
		Official and/or the Design Professional.		Ý	N	2.Inspection during weiging operations of elements of the main windi 2.Inspections for screw attachment, bolting, anchoring and other fast
		2. The list of Special Inspectors may be submitted as a separate document, if noted so above.				main windforce-resisting system
		3. Special Insepctions as required by Section 1704.2.5 are not required where the fabricator is		Y	N	1705.10.3 Wind-resisting Components 1. Roof cladding
		approved in accordance with IBC Section 1704.2.5.2		Y	Ν	2. Wall cladding
		4. Observe on a random basis, operations need not be delayed pending these inspections. Perform these tasks for each welded joint, bolted connection, or steel element		Y	Ν	1705.11.1 Structural Steel Special Inspections for Seismic Resis
		Liese tasks for each weided joint, bolled connection, or steel element.				inspection of structural steel in accordance with AISC 341
		5. NDT of welds completed in an approved fabricator's shop may be performed by that fabricator when approved by the AHJ. Refer to AISC 360, N7.		Y	N	1705.11.2 Structural Wood Special Inspections for Seismic Resist 1. Inspection of field gluing operations of elements of the seismic-ford
				Y	IN	2. Inspection of nailing, bolting, anchoring and other fastening of com force-resisting system
CONCRE	TE AND RE	EINFORCING				1705 11 3 Cold formed Steel Light Eneme Construction Oracial
1. C	ONCRETE	SHALL CONFORM TO THE INDICATED REFERENCE CODES AND STANDARDS		Y	N	Resistance
E	XCEPT AS	MODIFIED BELOW:		Ý	N	<ol> <li>Inspection during weiding operations of elements of the seismic-fo</li> <li>Inspections for screw attachment, bolting, anchoring and other fas</li> </ol>
A	CI-301 - "S	STANDARD SPECIFICATIONS FOR STRUCTURAL CONCRETE"				seismic-force-resisting system
A	CI-305R - "	HOT WEATHER CONCRETING"				

ACI-301 - "STANDARD SPECIFICATIONS FOR STRUCTU
ACI-318 - "BUILDING CODE REQUIREMENTS FOR STRU
ACI-305R - "HOT WEATHER CONCRETING"
ACI-306R - "COLD WEATHER CONCRETING"
ACI-304 - "GUIDE FOR MEASURING, MIXING, TRANSPOR

CONCRETE MIX SPECIFICATIONS 2.

LOCATION	COMP. SRENGTH	W/C RATIO
FOOTING	3000 PSI (MIN. OF 5.	5 SACKS OF C
SLAB ON GRADE	3000 PSI (MIN. OF 5.	5 SACKS OF C
FOUNDATION WALL	3000 PSI (MIN. OF 5.	5 SACKS OF C
TOPPING	N.A.	

TOTAL AIR CONTENT IS SPECIFIED IN THE TABLE ABOVE. AIR CONTENT TOLERANCE SHALL BE ± 1% AND SHALL BE MEASURED AT THE POINT OF PLACEMENT. (AFTER PUMPING IF APPLICABLE). ALL CONCRETE EXPOSED TO THE WEATHER SHALL HAVE AN APPROVED ADMIXTURE TO ENTRAIN AIR - 5% TOTAL AIR REQUIRED. CONCRETE THAT CAN BE SUBJECTED TO FREEZING AND THAWING DURING CONSTRUCTION SHALL BE AIR ENTRAINED.

3. PROVIDE GRADE 60 KSI (A615) FOR CONCRETE STEEL REINFORCING

ORTING AND PLACING CONCRETE"

AIR CONTENT REMARK

CEMENT PER CUBIC YARD OF CONCRETE)

CEMENT PER CUBIC YARD OF CONCRETE)

CEMENT PER CUBIC YARD OF CONCRETE)

STRUCTURAL AND MISCELLANEOUS STEEL

STEEL MEMBERS, HARDWARE, FASTENERS SHALL BE HOT DIPPED GALVANIZED OR EPOXY PAINTED PER ARCHITECT REQUIREMENTS. ALL CUT, REPAIRED AND EXPOSED SURFACE SHALL BE PAINTED WITH (2) COAT OF 95% ZINC RICH PAINT PER ASTM A780. COLOR TO MATCH EXISTING.

STEEL SHALL CONFORM TO THE FOLLOWING STANDARDS: TUBE COLUMNS: ASTM A500, GRADE B (Fy = 46 KSI)

WIDE FLANGE COLUMNS / BEAMS:	ASTM 572 GR50
STEEL PIPE:	SCHEDULE 40, CONFORMING TO ASTM A53, TYPE E OR S, GRADE B (Fy = 35 KSI.)
ALL OTHER STEEL:	ASTM A36 (Fy = 36 KSI) OR ASTM A992
BOLTS:	ASTM A307 (WOOD/STEEL CONN)
BOLTS:	ASTM A325/A490 WITH LOCK WASHERS (STEEL/STEEL AND STEEL/CONC CONN)
ANCHOR BOLTS:	ASTM A307 (WOOD FRAMING)
ANCHOR BOLTS:	ASTM A325 (STEEL FRAMING)

ALL SLIP CRITICAL CONNECTIONS SHALL BE ASTM A325 BOLTS AND SHALL BE ENGINEER-APPROVED, SELF-LOAD INDICATING TYPES, AND SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

STRUCTURAL STEEL WELDING CONFORM TO THE AWS CODES D1.1 AND D1.3, AND USE ONLY CERTIFIED WELDERS. WELDS NOT SPECIFIED ARE TO B 1/4" CONTINUOUS FILLET MINIMUM. INCREASE WELD SIZE TO AWS MINIMUM SIZES, BASED ON PLATE THICKNESS. USE DRY ET ELECTRODES. ALL WELDING SHALL CONFORM TO THE AWS CODES, AND SHALL BE BY CERTIFIED WELDERS. WELDS NOT SPECIFIED SHALL BE 1/4" CONTINUOUS FILLET MINIMUM. USE DRY E70 ELECTRODES.

	EXTENT		b2 structural engineers
	Periodic		info@b2engineers.com 425-318-7047 (O)
	Periodic		425-318-0031 (C)
000 SF during construction mortar, prestressing grout, a site	and Periodic Continuous		
consolidating grout as delive	ered Continuous		
out for bonded tendons d prestressing tendons and	Periodic Periodic Periodic		
endons and anchorages	Periodic Level B - Periodic Level C - Continuous		
ons	Level B - Periodic Level C - Continuous Continuous Periodic		
horage of masonry to struct	ural Level B - Periodic Level C - Continuous Continuous		
bod mortor icinto (first 5000	Continuous		
bed mortar joints (inst 5000			
SF of AAC masonry) st 5000 SF of AAC masonry	Level C - Continuous Continuous () Level B - Periodic Level C - Continuous Level B - Periodic Level C - Continuous Level B - Periodic Level B - Periodic Level C - Continuous		
and assemblies in accordan	ce Periodic		
panel sheathing agree with	Periodic		
s at adjoining panel edges, r cing between fasteners in e	nail Periodic ach		
verify temporary and perma submittal package	nent Periodic		
ve the design bearing capac d proper material	ity. Periodic		150 ADDITION
g placement and compactio	n of Periodic		
nat site has been prepared	Continuous Periodic		
ents	Continuous Continuous		
ecords for each element of hammer, record number ieve design capacity, record	Continuous of Continuous d tip		8802 SE 37TH ST
nt 05.2 tional increations nor Soctio	See Section 1705.2		MERCER ISLAND, WA
ned by the registered design	In accordance with construction documents		98040
onstruction documents	In accordance with construction documents		
cords for each element eters, bell diameters (if quate end-bearing strata	Continuous Continuous		
nce with Section 1705.3 Instruction documents	See Section 1705.3 In accordance with construction documents		
depth, final installation torqu	e Continuous		
onstruction documents	In accordance with construction documents		
I <b>nce</b> prce-resisting system aponents within the main	Continuous Periodic		
stance force-resisting system	Periodic		DRAWING INFO
ening of components within	the Periodic		ISSUE DATE 06-09-22
	Periodic Periodic		
tance	In accordance with AISC 341		PROJECT NO 22126
stance ce resisting system	Continuous Periodic		ENGINEER BB
nspections for Seismic			REVISION SCHEDULE
prce-resisting system	Periodic Periodic		NO. DATE DESCRIPTION
ст	DRAWING LIST		
	SHEET NUMBER SHEET NAME	ISSUE DATE	
	S-0 GENERAL NOTES AND	06-09-22	
/ = 35 KSI.)	S-1 FRAMING PLANS	06-09-22	
	S-2 FRAMING DETAILS	06-09-22	
	Grand total: 4	00-09-22	<b>GENERAL NOTES</b>
LOAD			AND
NO.			SPECIFICATIONS
) ARE TO BE JSE DRY E70			
SNOT			S-0
			Copyright b2 Structural Engineers 2008



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	info@b2engineers.com 425-318-7047 (O)
FOOTING SCHEDULEWIDTH /LENGTH /TYPEDIAMETERDIAMETERTHICKNESSCOUNTREINFORCEMENT	425-318-0031 (C)
Footing-Rectangular         2' - 8"         4' - 4"         1' - 0"         2         3 - #4 E.W.	
	TSO ADDITION
	8802 SE 37TH ST MERCER ISLAND, WA 98040
<ul> <li>IMPORTANT NOTES ON DRAWING REVIEW. FIELD VERIFICATION, TEMPORARY SHORING AND WATERPROOFING:</li> <li>I. CONTRACTOR MUST REVIEW STRUCTURAL DRAWINGS PRIOR TO CONSTRUCTION &amp; NOTIFY DESIGN TEAM/OWNER OF ANY DISCREPANCY IN COMPARISON WITH ARCHITECTURAL DOCUMENTS OR FIELD CONDITIONS.</li> <li>I. IN REMODEL/RETROFIT PROJECTS, CONTRACTOR MUST FIELD VERIFY &amp; NOTIFY DESIGN TEAM/OWNER OF EXISTING MECHANICAL, PLUMBING, AND ELECTRICAL LINES THAT MAY INTERFERE WITH STRUCTURAL WORK PRIOR TO CONSTRUCTION. STRUCTURAL DRAWINGS MAY NOT REFLECT ALL EXISTING FRAMING CONDITIONS DUE TO LIMITED AVAILABLE INFORMATION.</li> <li>CONTRACTOR IS SOLELY RESPONSIBLE IN PROVIDING PROPER TEMPORARY SHORING PRIOR TO REMOVING ANY STRUCTURAL ELEMENTS.</li> <li>ENGINEER IS NOT RESPONSIBLE FOR WATERPROOFING SYSTEM OR DETAILS. CONTRACTOR/OWNER SHALL CONSULT WITH QUALIFIED PROFESSIONALS AS REQUIRED</li> <li>MPORTANT NOTES ON FOUNDATION AND FRAMING.</li> <li>ALL FOOTINGS SHALL BEAR ON SUITABLE SOIL SUCH AS MIN. OF MEDIUM DENSE NATIVE SOIL OR COMPACTED STRUCTURAL FILL (NO SOFT OR ORGANIC MATERIALS). GEOTECHNICAL ENGINEER MAY BE REQUIRED TO ASSESS EXISTING SOIL CONDITIONS.</li> <li>FOR FRAMING LUMBER TYPES AND GRADES, AND CONCRET MIX REQUIREMENTS PLEASE SEE 5.0</li> <li>FOR PLYWOOD/OSB SHEARWALL SCHEDULE, PLEASE SEE S-XX</li> <li>PROVIDE (2) 2X8 OR (3) 2X4 STUD POSTS AT EACH END OF BEAMS, UNLESS NOTED OTHERWISE ON PLAN</li> <li>SLAB ON GRADE SHALL BE MIN. 4" THICK WITH #3 AT 18" EACH WAY (AT MID-DEPTH) ON 6" COMPACTED CRUSHED ROCK. SAWCUT JOINT (1" DEEP) AT 15 FT MAX. SPACING EACH WAY SHALL BE DONE WITHIN 4 TO 12 HOURS AFTER FINISHING, DEPENDING ON WEATHER.</li> <li>ROOR SHEATHING SHALL BE 3/4" PLYWOOD OR OSB WITH 10d AT 6" NAILING AT EDGES &amp; BLOCKING AND AT 12" AT FIELD</li> <li>ROOR SHEATHING SHALL BE 12" PLYWOOD OR OSB WITH 10d AT 6" NAILING AT EDGES &amp; BLOCKING AND AT 12" AT FIELD</li> </ul>	DRAWING INFO ISSUE DATE 06-09-22 ISSUE FOR PERMIT ISSUED FOR PERMIT ISSUED FOR PERMIT ISSUED FOR BB REVISION SCHEDULE NO. DATE DESCRIPTION
1. TRUSS FRAMING LAYOUT SHOWN IS GENERAL CONCEPT ONLY. CONTRACTOR/ TRUSS SUPPLIER MUST SUBMIT TRUSS SHOP DRAWINGS INCLUDING TRUSS TEMPORARY/ PERMANENT BRACING PLANS FOR ENGINEER'S REVIEW 2. TRUSS FRAMING PROFILE/ LAYOUT SHOULD CONFORM TO BOTH STRUCTURAL AND ARCHITECT URAL DRAWINGS. ANY DEVIATIONS SHALL BE APPROVED BY ENGINEER/ ARCHITECT PRIOR TO TRUSS DESIGN WORK. 3. TRUSS DEFLECTION CRITERIAS: FLOOR/DECK TOTAL LOAD = L/480 ROOF TOTAL LOAD = L/240 FLOOR/DECK TOTAL LOAD = L/600 ROOF SNOW LOAD = L/300 ** MAXIMUM TOTAL LOAD DEFLECTION SHOULD NOT EXCEED 1.0" IN ALL CASES 4. FLOOR/ROOF FRAMING LAYOUT AND CONNECTORS (SUCH AS LUMBER PACKAGE BY SUPPLIERS) MUST BE SUBMITTED FOR ENGINEER'S REVIEW PRIOR TO CONSTRUCTION FRAMING SYMBOLS: SS24 SIMPSON WSW WOOD SS24 SIMPSON WSW WOOD STRONG WALL (24" WIDE) SW6 PLYWOOD SHEARWALL P POST STOPS BELOW THIS FLOOR POST STOPS BELOW THIS FLOOR POST STARTS AT THIS FLOOR	FRAMING PLANS
1/4" = 1'-0"	Copyright b2 Structural Engineers 2008



<u>└</u> 3/4" = 1'-0"

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	TSO ADDITION
CONCRETE STEMWALL NGTH UT D) 1"4" EDGE DIST 4"-4" (8) #4 VERTICAL REBAR AT 40 C DENT RAP	8802 SE 37TH ST MERCER ISLAND, WA 98040
	DRAWING INFO ISSUE DATE 06-09-22 ISSUED FOR PERMIT PROJECT NO.22126 ENGINEER BB REVISION SCHEDULE
I.O. N.O.	NO. DATE DESCRIPTION
	DETAILS S-2 Copyright b2 Structural Engineers 2008





WSW PANEL MODEL	MODEL NO.	DIAMETER	LENGTH	l e
	WSW-AB $\frac{7}{8}$ x24	7/8"	24"	20"
	WSW-AB7/8x24HS	7/8"	24"	20"
WSWIZ	WSW-AB7/ax30	7/8"	30"	26"
AND WSWIG	WSW-AB7/8×30HS	7/ "	30"	26"
	WSW-AB7/ <sub>8</sub> x36HS	7/8"	36"	32"
	WSW-AB1x24	1 33	24"	20"
_	WSW-AB1x24HS	1 33	24"	20"
WSW24	WSW-AB1x30	1 33	30"	26"
	WSW-AB1x30HS	1 32	30"	26"
	WSW-AB1x36HS	1 33	36"	32"

W MODEL	MODEL NO.	DIAMETER	LENGTH	l <sub>e</sub>
	WSW-AB <sup>7</sup> / <sub>8</sub> x24	7/8"	24"	20"
	WSW-AB <sup>7</sup> / <sub>8</sub> x24HS	7/8"	24"	20"
/12 ICM4 0	WSW-AB 7/2×30	7/8"	30"	26"
/SW18 -	WSW-AB ½ x30HS	7/8"	30"	26"
	WSW-AB <sup>7</sup> / <sub>8</sub> x36HS	7/8"	36"	32"
	WSW-AB1x24	1"	24"	20"
	WSW-AB1x24HS	1 37	24"	20"
/24	WSW-AB1x30	1 22	30"	26"
		1		



HAIRPIN SHEAR REINFORCEMENT

HAIRPIN INSTALLATION

### TIE SHEAR



# STRONG-WALL<sup>®</sup> WOOD SHEARWALL SHEAR

		SEISMIC <sup>3</sup>			
MODEL	L <sub>t</sub> OR L <sub>h</sub> (in.)	SHEAR REINFORCEMENT	MIN. CURB/ STEMWALL WIDTH (in.)	SHEAR REINFORCEMENT	N S
WSW12	101/4"	(1) #3 TIE	85	SEE NOTE 6	
	15	(1) #3 HAIRPIN	8 <sup>5</sup>	(1) #3 HAIRPIN	
WSW24	19	(2) #3 HAIRPIN	8 <sup>5</sup>	(1) #3 HAIRPIN	

## STRONG-WALL<sup>®</sup> WSW SHEAR ANCHORAGE SCH

L	<del>/</del>
¥ 4."	<sup>*</sup> MIN
FIELD TIE	
CONCRET	te placement. EMENT
SEE PH/AN	TABLE FOR REQUIRED
	REGISTERED DESIGN PROFESSIONAL
	IS PERMITTED TO MODIFY DETAILS FOR SPECIFIC CONDITIONS.
TION A	
	ог
	JE IND <sup>4</sup>
N. CURB/ EMWALL	ASD ALLOWABLE SHEAR LOAD V (lbs.) <sup>6</sup> 6" MIN CURB/STEMWALL
DTH (in.)	UNCRACKED CRACKED
6	HAIRPIN REINFORCEMENT ACHIEVES MAXIMUM Allowable shear load of the wsw
UM 2,500 PS	SI CONCRETE.
OLUTIONS.	
EDULE	E AND DETAILS 6
	NO HOLES ALLOWED IN TOP
	PACE DRILL ZONE CENTER 45%" OF PANEL
	12" ABOVE EXISTING HOLE MIN
0 0	
	16"
	241%"
	Holes for <u>WSW24X7 Panel only</u> • Max. of one 45%"x6" hole
	• 8" FROM TOP OF PANEL, MIN.
	<u>RGE HOLES</u> ALLOWABI F
HOLES	
	ES 3