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	II 97 MPH B 1.0
SEISMIC CRITERIA SEISMIC RISK CATEGORY SPECTRAL RESPONSE COEFFICIENT, Ss SPECTRAL RESPONSE COEFFICIENT, S1 SEISMIC SITE CLASS	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.

4. 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:

1500 PSF (ASSUMED) FOOTING BEARING PRESSURE:

LATERAL EARTH PRESSURE ON RETAINING WALLS N.A.

SUBGRADE PREPARATION, DRAINAGE PROVISIONS, AND OTHER RELEVANT SOIL 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, 6X DF #2 BEAMS, HEADERS, 4X...... DF #2, WWPA GRADING 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

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.

Y	N	1704.2.5 Inspection of Fabricators Verify fabrication/quality control procedures
Y	N	1705.1.1 Special Cases (work unusual in nature, including but not limited to alternative materials and systems, unusual design applications, materials and systems with special manufacturer's requirements)
V	NI	1705.2 Steel Construction
Y	N	 Fabricator and erector documents (Verify reports and certificates as listed in AISC 360, chapter N, paragraph 3.2 for compliance with construction documents)
Y	N	2. Material verification of structural steel
Y Y	N N	3. Embedments (Verify diameter, grade, type, length, embedment. See 1705.3 for anchors)4. Verify member locations, braces, stiffeners, and application of joint details at each connection comply with construction documents5. Structural steel welding:
Υ	N	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)
Υ	N	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)
Υ	N	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)
		d. Nondestructive testing (NDT) of welded joints: see Commentary
Y	N	1) Complete penetration groove welds 5/16" or greater in risk category III or IV
Y Y	N N	2) Complete penetration groove welds 5/16" or greater in risk category II
Ϋ́	N	 Thermally cut surfaces of access holes when material t > 2" Welded joints subject to fatigue when required by AISC 360, Appendix 3, Table A-3.1
Ϋ́	N	5) Fabricator's NDT reports when fabricator performs NDT
Υ	N	Structural steel bolting:a. Inspection tasks Prior to Bolting (Observe, or perform tasks for each bolted connection, in
Υ	N	accordance with QA tasks listed in AISC 360, Table N5.6-1) b.Inspection tasks During Bolting (Observe the QA tasks listed in AISC 360, Table N5.6-2)
		1) Pre-tensioned and slip-critical joints
Y	N	a) Turn-of-nut with matching markings
Y	N	b) Direct tension indicator
Y	N	c) Twist-off type tension control bolt
Y	N	d) Turn-of-nut without matching markings
Υ	N	e) Calibrated wrench
Υ	N	2) Snug-tight joints
'	IN	 c. Inspection tasks After Bolting (Perform tasks for each bolted connection in accordance with QA tasks listed in AISC 360, Table N5.6-3)
Υ	N	7. Inspection of steel elements of composite construction prior to concrete placement in accordance with QA tasks listed in AISC 360, Table N6.1
Y	N N	 1705.2.2 Steel Construction Other Than Structural Steel 1. Material verification of cold-formed steel deck: a. Identification markings b. Manufacturer's certified test reports 2. Connection of cold-formed steel deck to supporting structure:
Y	N	a. Welding
Y	N	b. Other fasteners (in accordance with AISC 360,Section N6)
Y Y	N N	 Verify fasteners are in conformance with approved submittal Verify fastener installation is in conformance with approved submittal and manufacturer's recommendations Reinforcing steel
Υ	Ν	a. Verification of weldability of steel other than ASTM A706
Υ	N	b. Reinforcing steel resisting flexural and axial forces in intermediate and special moment frames,
Y	N	boundary elements of special concrete structural walls and shear reinforcement c. Shear reinforcement
Υ	N	d. Other reinforcing steel
Υ	N	4. Cold-formed steel trusses spanning 60 feet or greater
'	IN	 a. Verify temporary and permanent restraint/bracing are installed in accordance with the approved truss submittal package
Y	N	1705.3 Concrete Construction
Ϋ́	N	Inspection of reinforcing steel installation (see 1705.2.2 for welding)
Ϋ́	N	 Inspection of prestressing steel installation Inspection of anchors cast in concrete where allowable loads have been increased per section
	14	1908.5 or where strength design is used
(Y)	Ν	4. Inspection of anchors and reinforcing steel post-installed in hardened concrete: Per research
<u> </u>		reports including verification of anchor type, anchor dimensions, hole dimensions, hole cleaning
		procedures, anchor spacing, edge distances, concrete minimum thickness, anchor embedment and
V	N.I	tightening torque
Y Y	N N	5. Verify use of approved design mix
Y	IN	6. Fresh concrete sampling, perform slump and air content tests and determine temperature of
Υ	N	concrete
Ϋ́	N	 Inspection of concrete and shotcrete placement for proper application techniques Inspection for maintenance of specified curing temperature and techniques
-		Inspection of prestressed concrete:
Υ	Ν	a. Application of prestressing force
Υ	Ν	b. Grouting of bonded prestressing tendons in the seismic-force-resisting system
		10. Erection of precast concrete members
Υ	N	a. Inspect in accordance with construction documents
Υ	N	b. Perform inspections of welding and bolting in accordance with Section 1705.2
Υ	N	11. Verification of in-situ concrete strength, prior to stressing of tendons in post tensioned concrete
V	N I	and prior to removal of shores and forms from beams and structural slabs
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
		Notos:

REQUIRED? (Y/N) MATERIAL / ACTIVITY

1704.2.5 Inspection of Fabricators

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 interest must be disclosed to the Building Official prior to commencing work. The qualifications of the Special Inspector(s) and/or testing agencies may be subject to the approval of the Building Official and/or the Design Professional. 2. The list of Special Inspectors may be submitted as a separate document, if noted so above.

3. Special Insepctions as required by Section 1704.2.5 are not required where the fabricator is

approved in accordance with IBC Section 1704.2.5.2 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. 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.

CONCRETE AND REINFORCING

CONCRETE SHALL CONFORM TO THE INDICATED REFERENCE CODES AND STANDARDS **EXCEPT AS MODIFIED BELOW:**

ACI-301 - "STANDARD SPECIFICATIONS FOR STRUCTURAL CONCRETE" ACI-318 - "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE" ACI-305R - "HOT WEATHER CONCRETING"

ACI-306R - "COLD WEATHER CONCRETING" ACI-304 - "GUIDE FOR MEASURING, MIXING, TRANSPORTING AND PLACING CONCRETE"

CONCRETE MIX SPECIFICATIONS

LOCATION	COMP. SRENGTH W/C RATIO AIR CONTENT REMARK
FOOTING	3000 PSI (MIN. OF 5.5 SACKS OF CEMENT PER CUBIC YARD OF CONCRETE)
SLAB ON GRADE	3000 PSI (MIN. OF 5.5 SACKS OF CEMENT PER CUBIC YARD OF CONCRETE)
FOUNDATION WALL	3000 PSI (MIN. OF 5.5 SACKS OF CEMENT PER CUBIC YARD OF CONCRETE)
TOPPING	N.A.

TOTAL AIR CONTENT IS SPECIFIED IN THE TABLE ABOVE. AIR CONTENT TOLERANCE SHALL BE \pm 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

	EXTENT	REQUIRED? (Y/N)	MATERIAL / ACTIVITY	EXTENT
	Periodic		1705.4 Masonry Construction (A) Level A, B and C Quality Assurance:	
		Y N	Verify compliance with approved submittals	Periodic
S		Y N	(B) Level B Quality Assurance: 1. Verification of f'm and f'AAC prior to construction	Periodic
		Y N	(C) Level C Quality Assurance: 1. Verification of I'm and I'AAC prior to construction and for every 5,000 SF during construction	Periodic
		Y N	2. Verification of proportions of materials in premixed or preblended mortar, prestressing grout, and grout other than self-consolidating grout, as delivered to the project site	Continuous
er	Each submittal	Y N	3. Verify placement of masonry units (D) Levels B and C Quality Assurance:	Periodic
	Periodic Continuous	Y N	1. Verification of Slump Flow and Visual Stability Index (VSI) of self-consolidating grout as delivered	Continuous
	Continuous Periodic	Y N	to the project 2. Verify compliance with approved submittals	Periodic
		Y N Y N	3. Verify proportions of site-mixed mortar, grout and prestressing grout for bonded tendons4. Verify grade, type, and size of reinforcement and anchor bolts, and prestressing tendons and	Periodic Periodic
QΑ	Observe or Perform as noted (4)	Y N	anchorages 5. Verify construction of mortar joints	Periodic
Α	Observe (4)	Y N	6. Verify placement of reinforcement, connectors, and prestressing tendons and anchorages	Level B - Periodic Level C - Continuous
	Observe or Perform as noted (4)	Y N	7. Verify grout space prior to grouting	Level B - Periodic Level C - Continuous
	Daviadia	Y N Y N	8. Verify placement of grout and prestressing grout for bonded tendons	Continuous
	Periodic Periodic	Y N Y N	 Verify size and location of structural masonry elements Verify type, size, and location of anchors, including details of anchorage of masonry to structural 	Periodic Level B - Periodic
	Periodic Periodic	Y N	members, frames, or other construction. 11. Verify welding of reinforcement (see 1705.2.2)	Level C - Continuous Continuous
	Each submittal (5)	Y N	12. Verify preparation, construction, and protestion of masonry during cold weather (temperature below 40oF) or hot weather (temperature above 90oF)	Periodic
	Observe or Perform as noted (4)	Y N Y N	13. Verify application and measurement of prestressing force 14. Verify placement of AAC masonry units and construction of thin-bed mortar joints (first 5000 SF	Continuous Continuous
	Observe (4)	Y N	of AAC masonry) 15. Verify placement of AAC masonry units and construction of thin-bed mortar joints (after the first	Level B - Periodic
	Periodic		5000 SF of AAC masonry)	Level C - Continuous
	Periodic Periodic	Y N Y N	16. Verify properties of thin-bed mortar for AAC masonry (first 5000 SF of AAC masonry)17. Verify properties of thin-bed mortar for AAC masonry (after the first 5000 SF of AAC masonry)	Continuous Level B - Periodic
	Continuous Continuous	Y N	18. Prepare grout and mortar specimens	Level C - Continuous Level B - Periodic
Α	Periodic Perform (4)	Y N	19. Observe preparation of prisms	Level C - Continuous Level B - Periodic
noo	Observe or Perform as noted (4)		1705.5 Wood Construction	Level C - Continuous
nce	Observe of Perform as noted (4)	Y N	1. Inspection of the fabrication process of wood structural elements and assemblies in accordance	Periodic
		Y N	with Section 1704.2.5 2. For high-load diaphragms, verify grade and thickness of structural panel sheathing agree with	Periodic
	Periodic	Y N	approved building plans 3. For high-load diaphragms, verify nominal size of framing members at adjoining panel edges, nail	Periodic
	Each submittal		or staple diameter and length, number of fastener lines, and that spacing between fasteners in each line and at edge margins agree with approved building plans	
	Periodic	Y N	4. Metal-plate-connected wood trusses spanning 60 feet or greater: verify temporary and permanent restraint/bracing are installed in accordance with the approved truss submittal package	Periodic
	Periodic Periodic			
	Periodic		1705.6 Soils1. Verify materials below shallow foundations are adequate to achieve the design bearing capacity.	5
	Periodic	Y N Y N	 Verify excavations are extended to proper depth and have reached proper material. Perform classification and testing of controlled fill materials. 	Periodic Periodic
3,	Continuous	Y N Y N	 Verify use of proper materials, densities, and lift thicknesses during placement and compaction of controlled fill 	Periodic Continuous
	Continuous Periodic	Y N	5. Prior to placement of controlled fill, observe subgrade and verify that site has been prepared properly	Periodic
ام	Periodic			- Griddio
ea	renouic	Y N	1705.7 Driven Deep Foundations1. Verify element materials, sizes and lengths comply with requirements	Continuous
		Y N Y N	2. Determine capacities of test elements and conduct additional load tests, as required3. Observe driving operations and maintain complete and accurate records for each element	Continuous Continuous
	Periodic. Periodic	Y N	4. Verify placement locations and plumbness, confirm type and size of hammer, record number of blows per foot of penetration, determine required penetrations to achieve design capacity, record tip	Continuous
1	Continuous	Y N	and butt elevations and document any damage to foundation element 5. For steel elements, perform additional inspections per Section 1705.2	See Section 1705.2
	Periodic or as required by the research report issued by an approved source	Y N	6. For concrete elements and concrete-filled elements, perform additional inspections per Section 1705.3	See Section 1705.3
and	GPP-0-00	Y N	7. For specialty elements, perform additional inspections as determined by the registered design professional in responsible charge	In accordance with construction documents
	Periodic	Y N	8. Perform additional inspections and tests in accordance with the construction documents	In accordance with construction documents
	Continuous		1705.8 Cast-in-Place Deep Foundations	
	Continuous Periodic	Y N Y N	 Observe drilling operations and maintain complete and accurate records for each element Verify placement locations and plumbness, confirm element diameters, bell diameters (if 	Continuous Continuous
	Continuous		applicable), lengths, embedment into bedrock (if applicable) and adequate end-bearing strata capacity. Record concrete or grout volumes	
	Continuous	Y N Y N	3. For concrete elements, perform additional inspections in accordance with Section 1705.3 4. Perform additional inspections and tests in accordance with the construction documents	See Section 1705.3 In accordance with construction documents
	In accordance with construction documents In accordance with Section 1705.2	. 14	'	and the second design d
ete	Periodic	Y N	1705.9 Helical Pile Foundations 1. Verify installation equipment, pile dimensions, tip elevations, final depth, final installation torque	Continuous
	Periodic	Y N	and other data as required.2. Perform additional inspections and tests in accordance with the construction documents	In accordance with construction documents
	Periodic		1705.10.1 Structural Wood Special Inspections For Wind Resistance	
		Y N Y N	Inspection of field gluing operations of elements of the main windforce-resisting system Inspection of nailing, bolting, anchoring and other fastening of components within the main	Continuous Periodic
k			windforce-resisting system	
f		Y N	1705.10.2 Cold-formed Steel Special Inspections For Wind Resistance	Periodic
		YN	1.Inspection during welding operations of elements of the main windforce-resisting system2.Inspections for screw attachment, bolting, anchoring and other fastening of components within the	Periodic
			main windforce-resisting system	
		Y N	1705.10.3 Wind-resisting Components 1. Roof cladding	Periodic
		Y N	2. Wall cladding	Periodic
orm		Y N	1705.11.1 Structural Steel Special Inspections for Seismic Resistance	In accordance with AISC 341
			Inspection of structural steel in accordance with AISC 341	
r		Y N	1705.11.2 Structural Wood Special Inspections for Seismic Resistance 1. Inspection of field gluing operations of elements of the seismic-force resisting system	Continuous
		Y N	Inspection of nailing, bolting, anchoring and other fastening of components within the seismic-force-resisting system	Periodic
		Y N	1705.11.3 Cold-formed Steel Light-Frame Construction Special Inspections for Seismic Resistance	Periodic
		Y N	 Inspection during welding operations of elements of the seismic-force-resisting system Inspections for screw attachment, bolting, anchoring and other fastening of components within the 	Periodic
			seismic-force-resisting system	
	STRUCTURAL AND MISCELLAN	FOLIS STEEL		
	STRUCTURAL AND MISCELLAN	LOGO OILLL		DRAWING LIST

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 SCHEDULE 40, CONFORMING TO ASTM A53, TYPE E OR S, GRADE B (Fy = 35 KSI.) STEEL PIPE: ALL OTHER STEEL: ASTM A36 (Fy = 36 KSI) OR ASTM A992 ASTM A307 (WOOD/STEEL CONN) BOLTS:

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 BE 1/4" CONTINUOUS FILLET MINIMUM. INCREASE WELD SIZE TO AWS MINIMUM SIZES, BASED ON PLATE THICKNESS. USE DRY E70 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 É70 ELECTRODES.

	DRAWING LIST	
SHEET NUMBER	SHEET NAME	ISSUE DATE
S-0	GENERAL NOTES AND SPECIFICATIONS	07-07-23
S-1	FRAMING PLANS	07-07-23
S-2	FRAMING DETAILS	07-07-23
S-3	WSW DETAILS	07-07-23
Grand total:	4	

info@b2engineers.com 425-318-7047 (O) 425-318-0031 (C)



TSO ADDITION

8802 SE 37TH ST

DRAWING INFO

ISSUE DATE 07-07-23

ISSUED FOR REVIEW

PROJECT NO.22126

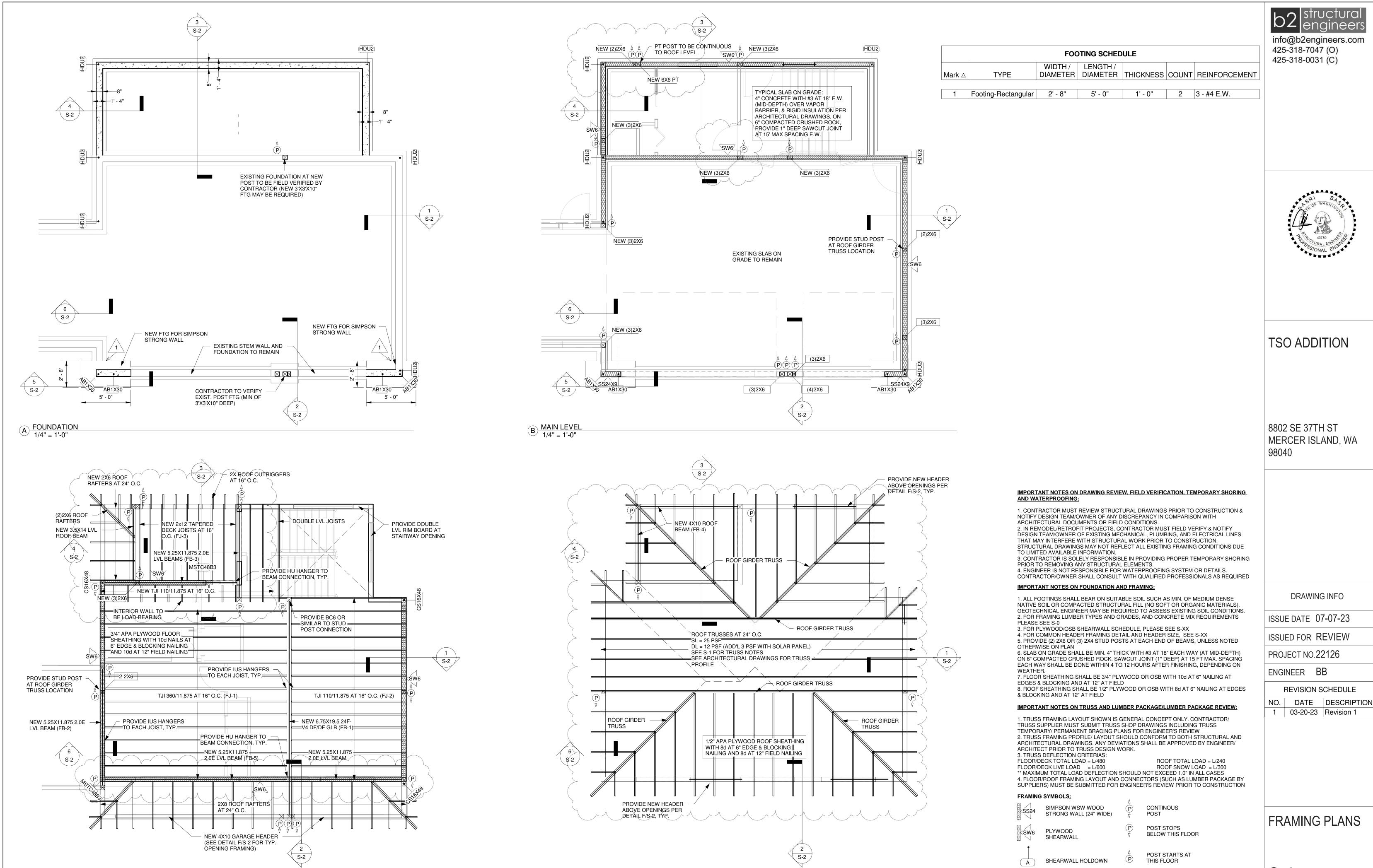
ENGINEER BB

REVISION SCHEDULE

NO. DATE DESCRIPTION

GENERAL NOTES SPECIFICATIONS

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D ROOF PLAN

1/4" = 1'-0"

<u>UPPER LEVEL</u> 1/4" = 1'-0"

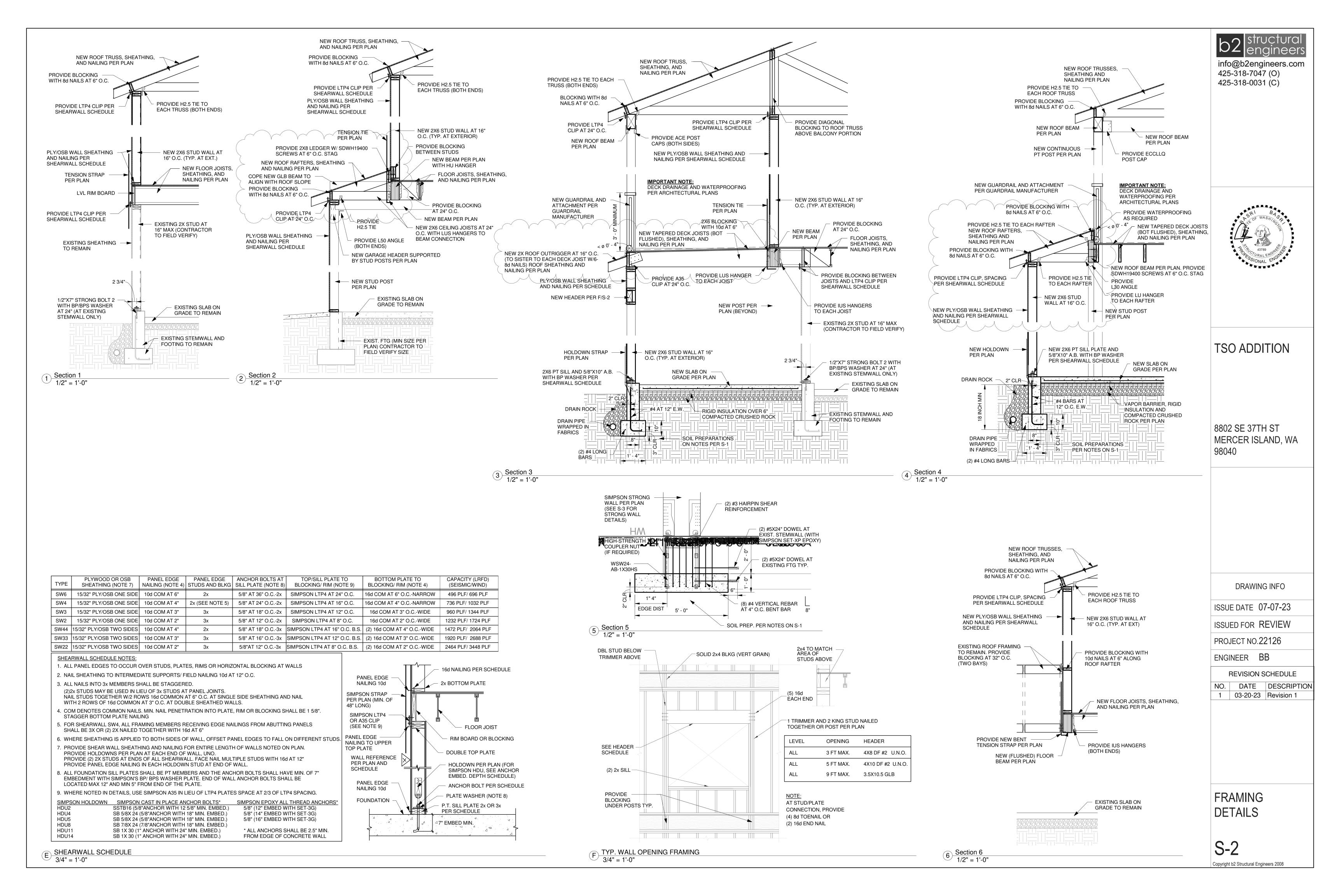
info@b2engineers.com 425-318-7047 (O)

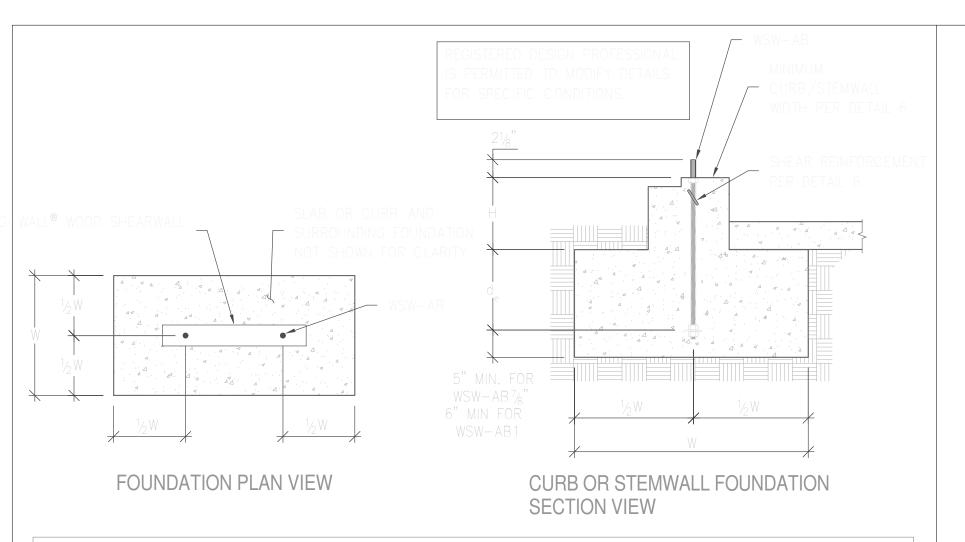


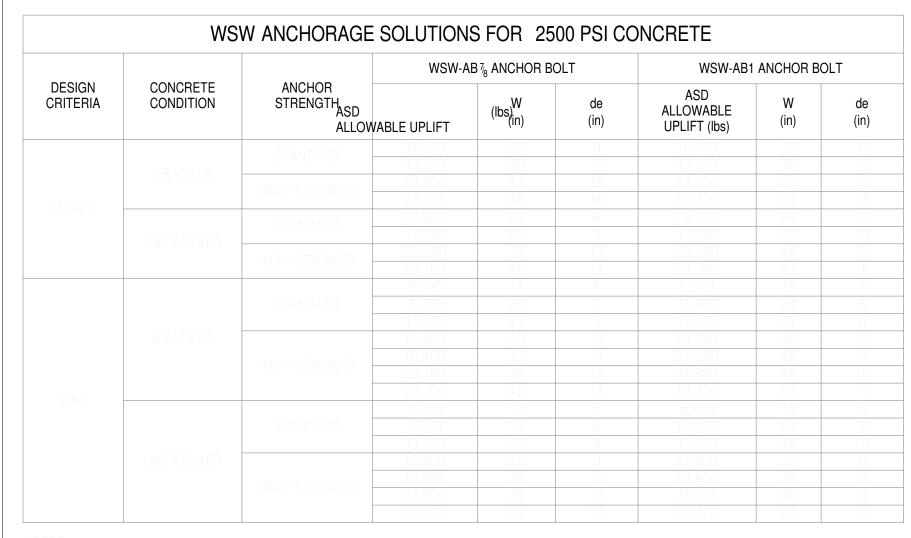
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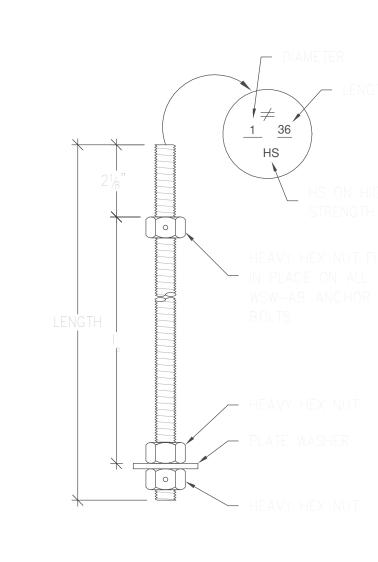
LEGEND AND NOTES

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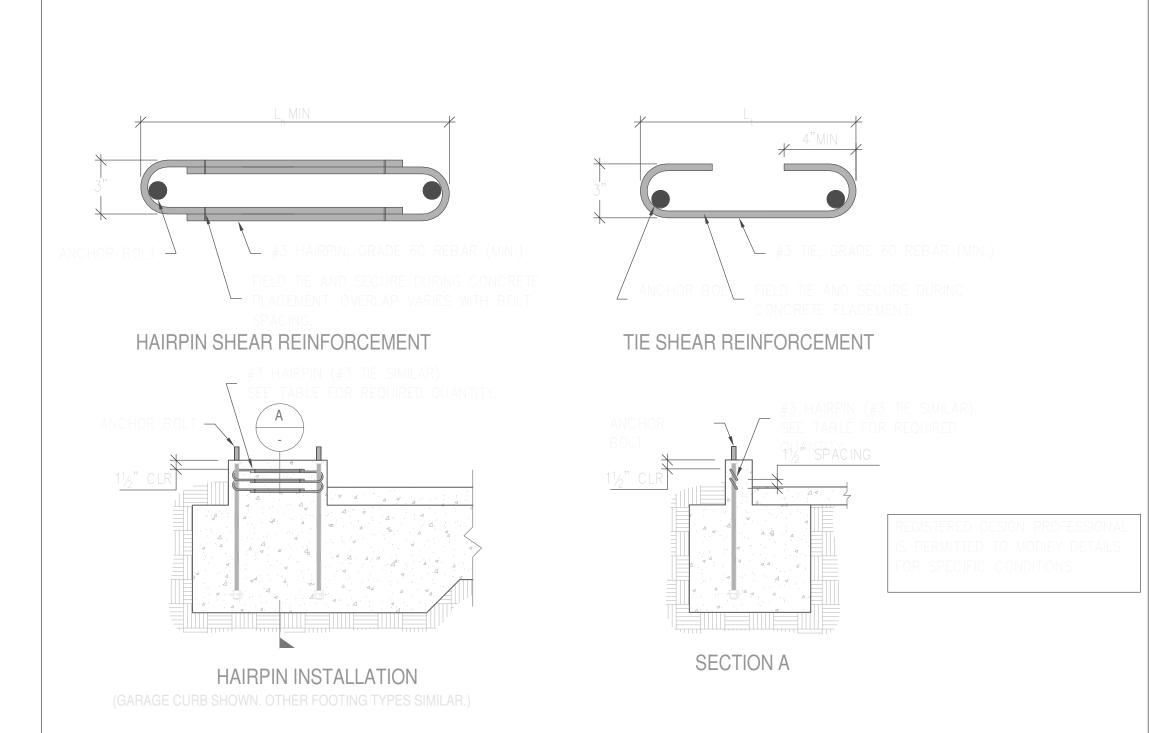








WSW PANEL MODEL	MODEL NO.	DIAMETER	LENGTH	l _e
	WSW-AB7/6×24	7/8"	24"	20"
WCWA O	WSW-AB7/8×24HS	7/8"	24"	20"
WSW12	WSW-AB7 ₈ x30	7/8"	30"	26"
AND WSW18	WSW-AB7/8×30HS	7/8"	30"	26"
	WSW-AB7/8×36HS	7/8"	36"	32"
	WSW-AB1x24	1"	24"	20"
	WSW-AB1x24HS	1"	24"	20"
WSW24	WSW-AB1x30	1"	30"	26"
	WSW-AB1x30HS	1"	30"	26"
	WSW-AB1x36HS	1"	36"	32"

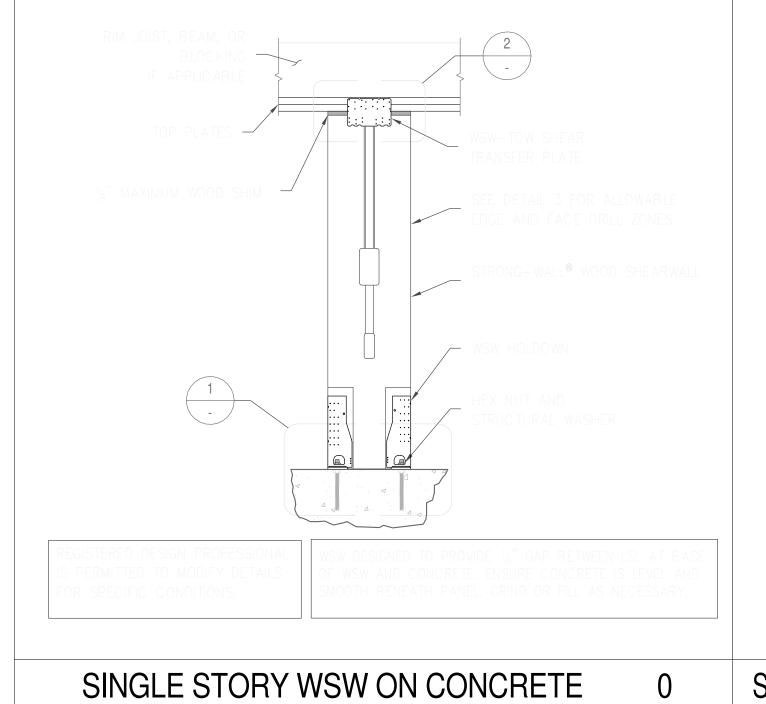


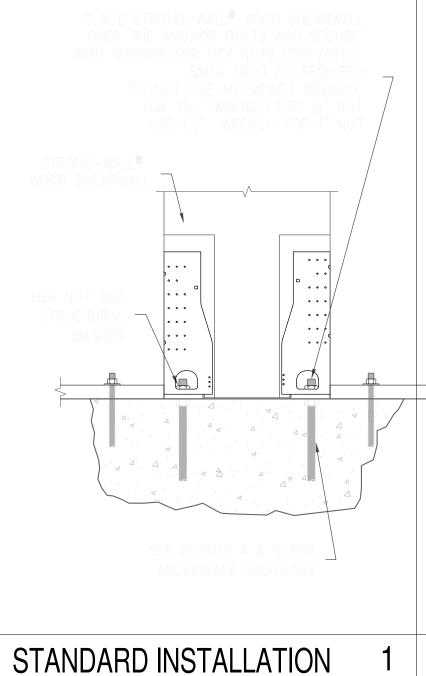
MODEL	SEISMIC ³			WIND ⁴											
					MIN. CURB/		MIN. CURB/	ASD ALLOWABLE SH	EAR LOAD V (lbs.) 6						
WODEL	L _t OR L _b (in.)	SHEAR REINFORCEMENT	STEMWALL	STEMWALL	STEMWALL	STEMWALL	STEMWALL	STEMWALL		STEMWALL	WALL SHEAR STEMWAL		STEMWALL WIDTH (in.)	6" MIN CURB/STEMWALL	
	m		WIDTH (III.)		WIDITI (III.)	UNCRACKED	CRACKED								
WSW12	101/4"	(1) #3 TIE	8 ⁵	SEE NOTE 6	6	1,035	740								
WSW18	15	(1) #3 HAIRPIN	8 ⁵	(1) #3 HAIRPIN	6	HAIRPIN REINFORCEMENT ACHIEVES MAXIMUM ALLOWABLE SHEAR LOAD OF THE WSW									
WSW24	19	(2) #3 HAIRPIN	8 ⁵	(1) #3 HAIRPIN	6										

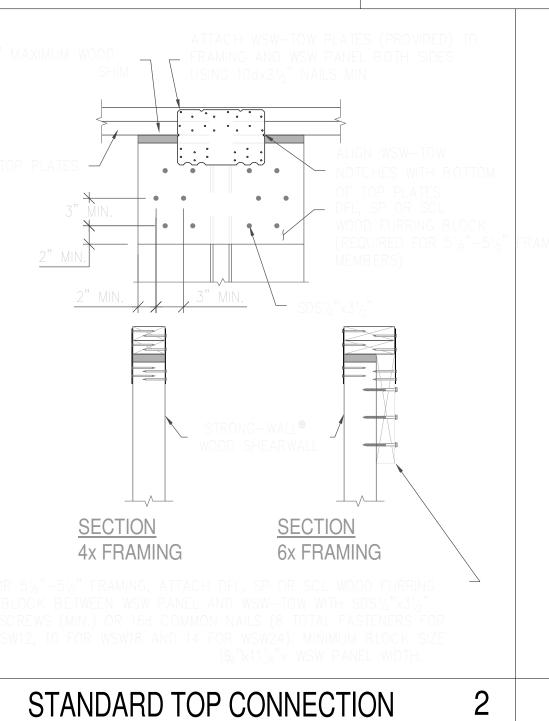
2500 PSI CONCRETE ANCHORAGE SOLUTIONS 4

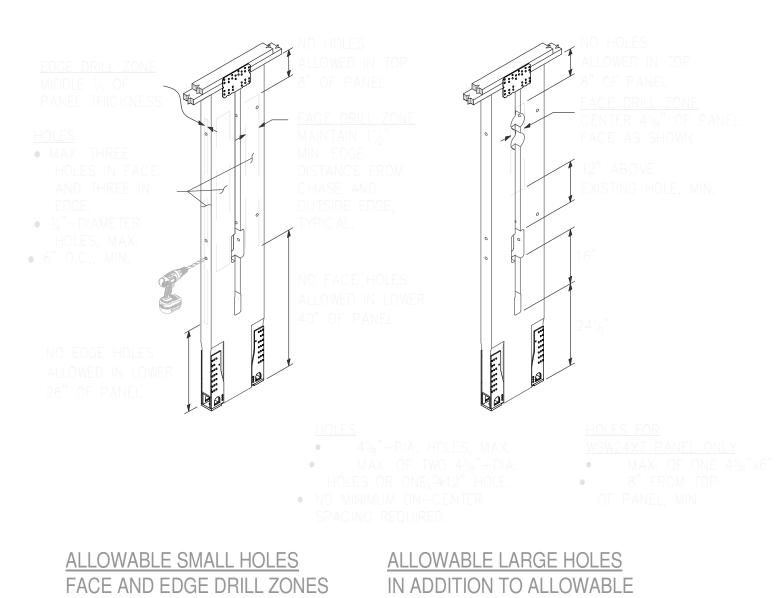
WSW ANCHOR BOLTS

STRONG-WALL® WSW SHEAR ANCHORAGE SCHEDULE AND DETAILS 6









IN ADDITION TO ALLOWABLE SMALL HOLES

3

TRIM ZONE AND ALLOWABLE HOLES

S-3

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TSO ADDITION

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DRAWING INFO

ISSUE DATE 07-07-23

ISSUED FOR REVIEW

PROJECT NO.22126

ENGINEER BB

REVISION SCHEDULE NO. DATE DESCRIPTION

WSW DETAILS