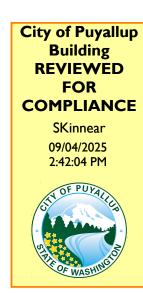
Approval of submitted plans is not an approval of omissions or oversights by this office or non compliance with any applicable regulations of local government. The contractor is responsible for making sure that the building complies with all applicable codes and regulations of the local government.

The approved construction plans, documents, and all engineering must be posted on the job at all inspections in a visible and readily accessible location.

Full sized legible color plans are required to be provided by the permitee on site for inspection.



City of Puyallup evelopment & Permitting Services ISSUED PERMIT				
Building	Planning			
Engineering	Public Works			
Fire	Traffic			

GENERAL STRUCTURAL NOTES

(THE FOLLOWING APPLY UNLESS NOTED OTHERWISE ON THE DRAWINGS.)

CRITERIA

ALL MATERIALS, WORKMANSHIP, DESIGN, AND CONSTRUCTION SHALL CONFORM TO THE DRAWINGS, SPECIFICATIONS, AND THE INTERNATIONAL BUILDING CODE (IBC), 2021 EDITION.

GENERAL CONDITIONS

STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH CIVIL DRAWINGS FOR BIDDING AND CONSTRUCTION. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS WITH CIVIL ENGINEER'S DRAWINGS FOR COMPATIBILITY AND SHALL NOTIFY CIVIL ENGINEER OF ALL DISCREPANCIES PRIOR TO CONSTRUCTION.

IN THE EVENT OF CONFLICTS BETWEEN THE STRUCTURAL DRAWINGS AND THE PROJECT SPECIFICATIONS, THE STRUCTURAL DRAWINGS SHALL CONTROL.

CONTRACTOR SHALL PROVIDE TEMPORARY BRACING FOR THE STRUCTURE AND STRUCTURAL COMPONENTS UNTIL ALL FINAL CONNECTIONS HAVE BEEN COMPLETED IN ACCORDANCE WITH THESE DRAWINGS. THE CONTRACTOR IS RESPONSIBLE FOR ALL SAFETY PRECAUTIONS AND THE METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES REQUIRED TO PERFORM THE WORK

<u>DRAWINGS</u> INDICATE GENERAL AND TYPICAL DETAILS OF CONSTRUCTION.

WHERE CONDITIONS ARE NOT SPECIFICALLY INDICATED BUT ARE OF
SIMILAR CHARACTER TO DETAILS SHOWN, SIMILAR DETAILS OF
CONSTRUCTION SHALL BE USED, SUBJECT TO REVIEW AND APPROVAL BY
THE ARCHITECT AND THE STRUCTURAL ENGINEER.

CONTRACTOR-INITIATED CHANGES SHALL BE SUBMITTED IN WRITING TO THE ARCHITECT AND STRUCTURAL ENGINEER FOR APPROVAL PRIOR TO FABRICATION OR CONSTRUCTION. CHANGES SHOWN ON SHOP DRAWINGS ONLY WILL NOT SATISFY THIS REQUIREMENT.

THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE OSHA REGULATIONS. SHORING AND RESHORING SHALL BE DESIGNED BY A QUALIFIED DESIGNER AND THE ERECTED SHORING SHALL BE INSPECTED BY A REGISTERED STRUCTURAL ENGINEER, EXPERIENCED IN THE DESIGN OF SHORING SYSTEMS, WHO SHALL SUBMIT AN INSPECTION REPORT TO THE ARCHITECT. FORMWORK SHALL NOT BE REMOVED UNTIL THE CONCRETE HAS REACHED ITS DESIGN STRENGTH AS INDICATED IN THE CONCRETE NOTES.

REQUIRED SUBMITTALS

SHOP DRAWINGS FOR THE FOLLOWING ITEMS SHALL BE SUBMITTED TO THE ARCHITECT AND STRUCTURAL ENGINEER FOR REVIEW TWO WEEKS PRIOR TO FABRICATION:

SUBMITTAL	SUBMITTAL REQUIRED	STAMPED BY REGISTERED ENGINEER	ENGINEERING CALCULATIONS
CONCRETE REINFORCING	YES	NOT REQUIRED	NOT REQUIRED

SHOP DRAWING REVIEW: DIMENSIONS AND QUANTITIES ARE NOT REVIEWED BY THE ENGINEER OF RECORD AND THEREFORE MUST BE VERIFIED BY THE CONTRACTOR. THE CONTRACTOR SHALL REVIEW AND STAMP DRAWINGS PRIOR TO REVIEW BY ENGINEER OF RECORD. SUBMITTALS SHALL INCLUDE A REPRODUCIBLE AND ONE COPY. THE REPRODUCIBLE WILL BE MARKED AND RETURNED.

IN THE EVENT OF DEVIATIONS, DISCREPANCIES, OR CONFLICTS BETWEEN APPROVED SHOP DRAWING SUBMITTALS AND THE CONTRACT DOCUMENTS, THE DESIGN DRAWINGS AND SPECIFICATIONS SHALL CONTROL.

GEOTECHNICAL

<u>FOUNDATION NOTES</u>: SUBGRADE PREPARATION INCLUDING DRAINAGE, EXCAVATION, COMPACTION, AND FILLING REQUIREMENTS, SHALL CONFORM STRICTLY WITH RECOMMENDATIONS GIVEN IN THE SOILS REPORT OR AS DIRECTED BY THE GEOTECHNICAL ENGINEER.

FOOTINGS SHALL BEAR ON FIRM, UNDISTURBED EARTH OR CONTROLLED, COMPACTED STRUCTURAL FILL, AT LEAST 18" BELOW LOWEST ADJACENT FINISHED GRADE. FOOTING DEPTHS/ELEVATIONS SHOWN ON THE DRAWINGS ARE MINIMUM AND FOR GUIDANCE ONLY; THE ACTUAL ELEVATIONS OF FOOTINGS SHALL BE ESTABLISHED BY THE CONTRACTOR IN THE FIELD WORKING WITH THE TESTING LAB AND GEOTECHNICAL ENGINEER.

BACKFILL BEHIND ALL RETAINING WALLS WITH FREE DRAINING, GRANULAR FILL AND PROVIDE FOR SUBSURFACE DRAINAGE AS NOTED IN THE SOILS REPORT.

ALLOWABLE SOIL PRESSURE	2000 PSF
ACTIVE EARTH PRESSURE	.40 PCF (LEVEL BACKFILL)
AT-REST EARTH PRESSURE	.60 PSF (LEVEL BACKFILL)
PASSIVE EARTH PRESSURE	240 PCF (LEVEL TOE)
PASSIVE EARTH PRESSURE	165 PCF (SLOPED TOE - 3H: IV)
SEISMIC SURCHARGE	8*H (H = HEIGHT OF WALL)
LIVE LOAD SURCHARGE	100 PSF
COEFFICIENT OF FRICTION	0.38 (INCLUDES FoS)

<u>GEOTECHNICAL REPORT REFERENCE</u>: EARTH SOLUTIONS NW, LLC. REPORT NUMBER ES-6481 DATED FEBRUARY 12, 2019 AND THE EMAIL CORRESPONDENCE DATED 7/31/25.

THE DESIGN SHOWN IN THESE DRAWINGS SHALL BE REVIEWED BY THE GEOTECHNICAL ENGINEER FOR COMPLIANCE WITH THE ABOVE REFERENCED SOILS REPORTS. THE GEOTECHNICAL ENGINEER SHALL SUBMIT A "LETTER OF COMPLIANCE" TO THE PERMITTING JURISDICTION PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. IN THE EVENT OF CONFLICTS BETWEEN THESE DRAWINGS AND THE RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER, THE GEOTECHNICAL ENGINEER'S RECOMMENDATIONS SHALL CONTROL. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE STRUCTURAL ENGINEER AND THE PERMITTING JURISDICTION FOR POSSIBLE REDESIGN.

DIVISION 3: CONCRETE

CONCRETE SHALL BE MIXED, PROPORTIONED, CONVEYED AND PLACED IN ACCORDANCE WITH IBC SECTION 1905 AND ACI 301. STRENGTHS AT 28 DAYS AND MIX CRITERIA SHALL BE 4500 PSI WITH A MAXIMUM W/C RATIO OF 0.48 AND MINIMUM CEMENT CONTENT PER YARD OF 61/2 SACKS.

THE MINIMUM AMOUNTS OF CEMENTITIOUS MATERIAL MAY BE CHANGED IF A CONCRETE MIX DESIGN IS SUBMITTED TO THE STRUCTURAL ENGINEER AND THE BUILDING OFFICIAL FOR APPROVAL TWO WEEKS PRIOR TO PLACING ANY CONCRETE. THE MIX DESIGN SHALL INCLUDE THE AMOUNTS OF CEMENT, FINE AND COARSE AGGREGATE, WATER AND ADMIXTURES, AS WELL AS THE WATER-CEMENT RATIO, SLUMP, CONCRETE YIELD AND SUBSTANTIATING STRENGTH DATA IN ACCORDANCE WITH THE LATEST EDITION OF ACI 318, CHAPTER 5. THE REVIEW OF MIX DESIGN SUBMITTALS BY THE ENGINEER OF RECORD INDICATES ONLY THE INFORMATION PRESENTED CONFORMS GENERALLY WITH CONTRACT DOCUMENTS. CONTRACTOR MAINTAINS FULL RESPONSIBILITY FOR SPECIFIED PERFORMANCE.

ALL CONCRETE WITH SURFACES EXPOSED TO STANDING WATER SHALL BE AIR-ENTRAINED WITH AN AIR-CONTENT PER ACI.

REINFORCING STEEL SHALL CONFORM TO ASTM A615 (INCLUDING SUPPLEMENT SI), GRADE 60,

ALL REINFORCING STEEL SHALL BE ACCURATELY PLACED AND ADEQUATELY SUPPORTED BEFORE CONCRETE IS PLACED. "WET-SETTING" BARS IS NOT PERMITTED

CONCRETE PROTECTION (COVER) FOR REINFORCING STEEL SHALL BE AS FOLLOWS:

CONDITION	BAR SIZES	CLEAR COVER
UNFORMED SURFACES CAST AGAINST EARTH	ALL	3 INCHES
FORMED AND FINISHED SURFACES EXPOSED TO EARTH OR WEATHER	#5 OR SMALLER #6 OR LARGER	1½ INCHES 2 INCHES
COLUMN AND BEAM REINFORCEMENT INCLUDING TIES AND STIRRUPS	ALL	1/2 INCHES
INTERIOR SURFACES OF WALLS AND SLABS	#II OR SMALLER	34 INCHES

STATEMENT OF SPECIAL INSPECTIONS

<u>SPECIAL INSPECTIONS</u> SHALL BE PERFORMED BY AN APPROVED AGENCY FOR THE FOLLOWING WORK ITEMS:

	CONCRETE - ME	R IBC	2021 ⁻	TABLE 1705.3	
	VERIFCATION AND INSPECTION	CONTINUOUS	PERIODIC	REFERENCE STANDARD	IBC REFERENCE
l.	INSPECTION OF REINFORCING STEEL, INCLUDING PRESTRESSING TENDONS AND PLACEMENT		×	ACI 318: 3.5, 7.1-7.7	1910.4
2.	INSPECTION OF ANCHORS CAST IN CONCRETE WHERE ALLOWABLE LOADS HAVE BEEN INCREASED OR WHERE STRENGTH DESIGN IS USED		X	ACI 318: 8.1.3, 21.1.8	1908.5 1909.1
3.	INSPECTION OF ANCHORS POST INSTALLED IN HARDENED CONCRETE MEMBERS ^b		×	ACI 318: 3.8.6, 8.1.3, 21.1.8	1909.1
4.	VERIFYING USE OF REQUIRED MIX DESIGN		×	ACI 318: CH. 4, 5.2-5.4	1904.2, 1910.2. 1910.3
5.	AT THE TIME FRESH CONCRETE IS SAMPLED TO FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE	×		ASTM C 172 ASTM C 31 ACI 318: 5.6, 5.8	1910.10
6.	INSPECTION OF CONCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUE	x		ACI 318: 5.9, 5.10	1910.6, 1910.7, 1910.8
٦.	INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES		×	ACI 318: 5.11-5.13	1910.9
8.	INSPECTION OF PRESTESSED CONCRETE: C a. APPLICATION OF PRESTRESSING FORCES b. GROUTING OF BONDED PRESTRESSING TENDONS IN THE SEISMIC FORCE RESISTING SYSTEM	×		ACI 318: 18.20 ACI 318: 18.18.4	
٩.	ERECTION OF PRECAST CONCRETE MEMBERS		×	ACI 318: CH. 16	
10.	VERIFCATION OF IN-SITU CONCRETE STRENGTH PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS		×	ACI 318: 6.2	
II.	INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED		х	ACI 318: 6.1.1	

a. WHERE APPLICABLE, SEE ALSO SECTION 1705.11, SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE.

b. SPECIFIC REQUIREMENTS FOR SPECIAL INSPECTION SHALL BE INCLUDED IN THE RESEARCH REPORT FOR THE ANCHOR ISSUED BY AN APPROVED SOURCE IN ACCORDANCE WITH ACI 355.2 OR OTHER QUALIFIED PROCEDURES. WHERE SPECIFIC REQUIREMENTS ARE NOT PROVIDED, SPECIAL INSPECTION REQUIREMENTS SHALL BE SPECIFIED BY THE REGISTERED DESIGN PROFESSIONAL AND SHALL BE APPROVED BY THE BUILDING OFFICIAL PRIOR TO THE COMMENCEMENT OF THE WORK.

c. PER IBC SECTION 1704.2.5.2, SPECIAL INSPECTION OF PRESTRESSED HOLLOWCORE CONCRETE PLANK IS NOT REQUIRED WHERE THE WORK IS DONE ON THE PREMISES OF A FABRICATOR REGISTERED AND APPROVED TO PERFORM SUCH WORK WITHOUT SPECIAL INSPECTION. AT THE COMPLETION OF FABRICATION, THE CONTRACTOR SHALL SUBMIT TO THE BUILDING OFFICIAL A CERTIFICATE OF COMPLIANCE FROM THE APPROVED FABRICATOR STATING THAT THE WORK WAS PERFORMED IN ACCORDANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS.

SOILS - PER IBC 2021 TABLE 1705.6						
VERIFCATION AND INSPECTION TASK	CONTINUOUS DURING TASK	PERIODIC DURING TASK				
I. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY		X				
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL		Х				
3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS		Х				
4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL	×					
5. PRIOR TO PLACEMENT OF COMPACTED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY		Х				

PRRWF20250845

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SUITE 251
FEDERAL WAY, WA. 98003
VOICE: (253) 835-0810
FAX: (253) 835-0813



KEVION			?- <u>/</u> l-90
			CIVIL BACKGROUNDS DATED:
UAIE			BACKGROU
j Z			CIVIL

429 29TH STREET NE SUITE D PUYALLUP, WA 98372

2412 INTER AVENUE STORMING MATER POND RETAINING MALLS
2412 INTER AVENUE PLYALLUP WA 48372

STRUCTURAL
NOTES

25-039
VEC PROJECT NO.:
ADD
DRAWN:
ADD

SHEET TITLE

GENERAL

VEC PROJECT NO.:

ADD

DRAWN:

ADD

DESIGNED:

MDV

CHECKED:

08-II-25

ISSUE DATE:

CSI

SHEET NUMBER:

PRRWF20250845

REVISION			16 77 9B
31VO			
NO.			
_			

429 29TH 9 SUITE D PUYALLUP, I

SHEET TITLE POND RETAINING WALL PLAN

25-039 VEC PROJECT NO.: DRAWN:
ADD
DESIGNED:
MDV
CHECKED:
O8-II-25
ISSUE DATE:

SHEET NUMBER:

POND RETAINING WALL PLAN 1/8" = 1'-0"

