THIS DOCUMENT AND ATTACHMENT(S) ARE AVAILABLE FOR DOWNLOAD AT
http://www.bxwa.com/bxwa_toc/pub/1687/toc.html
AN EMAIL NOTIFICATION WAS SENT TO REGISTERED PLANHOLDERS. FAILURE TO ACKNOWLEDGE RECEIPT ON THE BID FORM DOES NOT AFFECT THE BIDDER'S OBLIGATION FOR COMPLIANCE.

ADDENDUM NO. 3

WASHINGTON STATE PARKS AND RECREATION COMMISSION
NISQUALLY STATE PARK
NEW FULL-SERVICE PARK PHASE 2
NW-C1218

DATE: May 13, 2024

ATTENTION TO PLANHOLDERS OF RECORD. The following revisions are hereby made a part of the Contract Documents. Please be sure to acknowledge all Addenda on the Bid Form.

PROJECT MANUAL

1. Delete Appendix B – Earthwork Calculations and replace with attached Appendix B – Earthwork Calculations

2. Add attached Diamond Pier Commercial Installation to the end of Appendix C – Diamond Pier Foundation Installation Manual

3. Add Appendix F – Environmental Transmittal – Nisqually State Park Phase 2

4. Delete SUMMARY OF PAY ITEMS and replace with attached SUMMARY OF PAY ITEMS.

5. Delete Section 033020 – LITHOMOSAIC and replace with Section 033020 – LITHOMOSAIC

6. Delete Section 074113.16 STANDING-SEAM METAL ROOF PANELS and replace with attached Section 074113.16 – STANDING SEAM METAL ROOF PANELS

7. Add Section 074233 – PLASTIC WALL PANELS

8. Delete Section 074646 – FIBER-CEMENT SIDING and replace with attached section 074646 – FIBER-CEMENT SIDING
   Clarification: Header adjustment to add Addendum 3 to differentiate adjusted version of specification issued in Addendum 2 from original specification.

9. Delete Section 096813 - TILE CARPETING and replace with attached section 096813 – TILE CARPETING
   Clarification: Header adjustment to add Addendum 3 to differentiate adjusted version of specification issued in Addendum 2 from original specification.

10. Delete Section 137000 – DIAMOND PIER FOUNDATIONS and replace with attached Section 137000 - DIAMOND PIER FOUNDATIONS.

11. Delete Section 323116 – SECURITY CANTILEVERED SLIDE GATE and replace with Section 323116 – SECURITY CANTILEVERED SLIDE GATE.
    Clarification: Header adjustment to add Addendum 3 to differentiate adjusted version of specification issued in Addendum 2 from original specification.

12. Delete Section 323123 – POST & RAIL FENCE and replace with Section 323123 – POST & RAIL FENCE
    Clarification: Header adjustment to Add Addendum 3 to differentiate adjusted version of specification issued in Addendum 2 from original specification.

13. Delete Section 462010 WATER TREATEMENT EQUIPMENT in its entirety. Clarification: pumphouse plumbing is covered in Specification Section 224010 – PUMPHOUSE PLUMBING

PLANS

1. Delete Sheet 80 A-502 and replace with Sheet 80 A-502

2. Delete Sheet 86 A-601 and replace with Sheet 86 A-601

3. Delete Sheet 120 A-601 and replace with Sheet 120 A-601

4. Delete Sheet 237 B-L1.0 and replace with Sheet 237 B-L1.0

Attachments:

- Appendix B Earthwork Calculations Addendum 3 (8 pages)
- Diamond Pier Commercial Installation Addendum 3 (2 pages)
- Appendix F – Environmental Transmittal – Nisqually State Park Phase 2 Addendum 3 (59 pages)
- SUMMARY OF PAY ITEMS Addendum 3 (3 pages)
- 033020 – LITHOMOSAIC Addendum 3 (7 pages)
- 074113.16 – STANDING SEAM METAL ROOF PANELS Addendum 3 (13 pages)
- 074233 – PLASTIC WALL PANELS Addendum 3 (7 pages)

— 074646 – FIBER-CEMENT SIDING Addendum 3 (9 pages)

— 096813 - TILE CARPETING Addendum 3 (6 pages)

— 137000 - DIAMOND PIER FOUNDATIONS Addendum 3 (4 pages)

— 323116 – SECURITY CANTILEVERED SLIDE GATE Addendum 3 (9 pages)

— 323123 – POST & RAIL FENCE Addendum 3 (4 pages)

— Plans 11” x 17” (4 pages)

Brett Taylor, Procurement Coordinator
Contracts and Grants Program

05/13/24
Date

END OF ADDENDUM NO. 3

EARTHWORK SERVICES, INC.
PO Box 640
1116 1st St.
Cosmopolis, WA 98537
Phone: (360) 533-2007 Fax: (360) 533-1618
Email: earthwork@earthworkservices.com
Web: www.earthworkservices.com

January 19, 2024 Earthwork Services Job# 45433

Jonah Hayes
RWD Landscape Architects
4405 7th Ave. SE, Ste. 203
Lacey, WA 98503

RE: Nisqually State Park PH2 A&B

Dear Jonah,

Enclosed please find grid elevation, cut/fill graphics, and volumes for this project, which was calculated using the average end area method and the following assumptions:

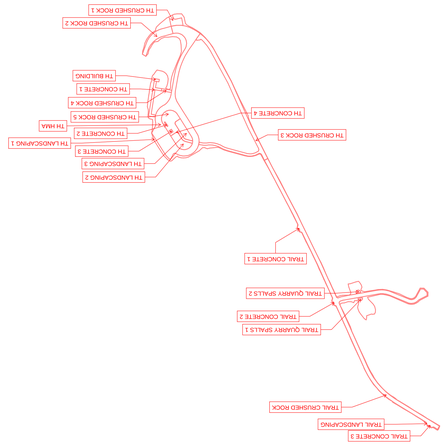
1. **A stripping** depth of **12"** was applied to the **PH2A existing terrain.**
2. **A stripping** depth of **6"** was applied to the **PH2B existing terrain.**
3. A depth of **10"** from design elevations to subgrade in the **PH2A Admin cement paving.**
4. A depth of **8"** from design elevations to subgrade in the **concrete** and **PH2B Trail quarry spalls.**
5. A depth of **12"** from design elevations to subgrade in the **PH2A HMA A.**
6. A depth of **15"** from design elevations to subgrade in the **PH2A Admin HMA B.**
7. A depth of **14"** from design elevations to subgrade in the **PH2B Bus Parking & Trailhead HMA.**
8. A depth of **18"** from design elevations to subgrade in the **crushed rock** and **PH2A Admin gravel.**
9. A depth of **6"** from design elevations to subgrade in the **landscaping.**
10. A depth of **18"** from finish floor elevations to subgrade in the **PH2A Admin & Staff buildings.**
11. A depth of **57"** from finish floor elevations to subgrade in the **PH2B Bus Parking & Trailhead buildings.**

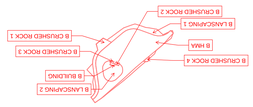
TOTAL RAW VOLUMES IN PLACE
(Volumes are in Cubic Yards)

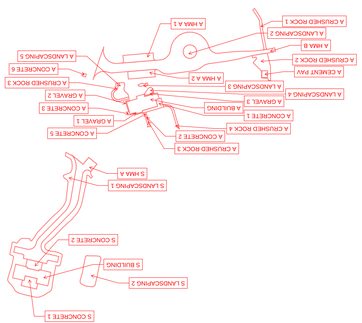
Activity	Area *(ft²)*	Cut Volume	Fill Volume	Strip Volume
Phase 2A Admin	57,243	407	2,314	2,127
Phase 2A Staff	31,436	22	2,756	1,166
Phase 2A Total	**88,679**	**429**	**5,070**	**3,293**
Phase 2B Bus Parking	21,341	375	25	396
Phase 2B Trailhead	34,214	610	380	637
Phase 2B Trail	17,026	481	46	316
Phase 2B Total	**72,581**	**1,466**	**451**	**1,349**
TOTAL SITE	**161,260**	**1,895**	**5,521**	**4,642**

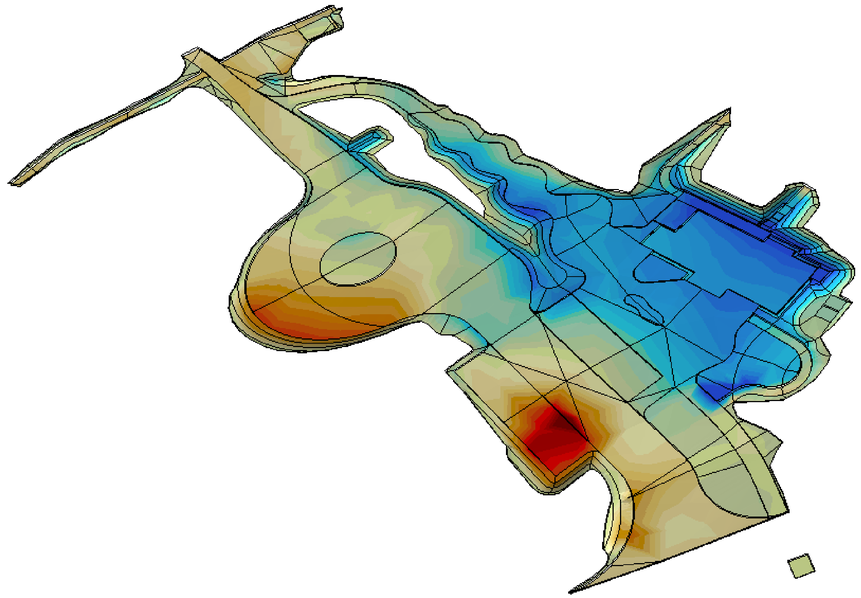
Please call after you have reviewed this information if you have any questions.

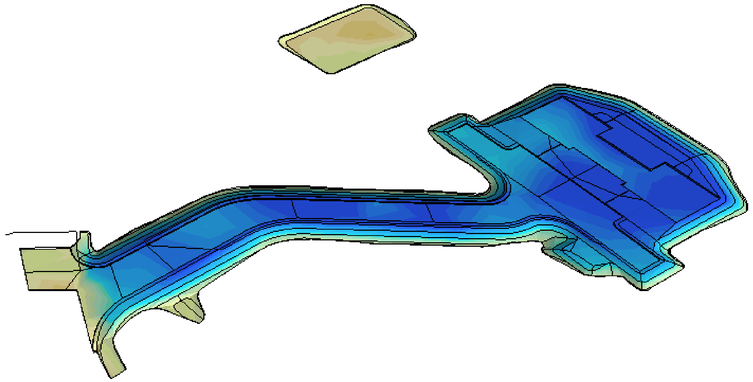
* Raw volumes are calculated after existing terrain has been stripped, thus creating less cut and more fill of suitable material. Raw volumes have not been adjusted to reflect shrink or swell for compaction and expansion and are volumetric areas only.

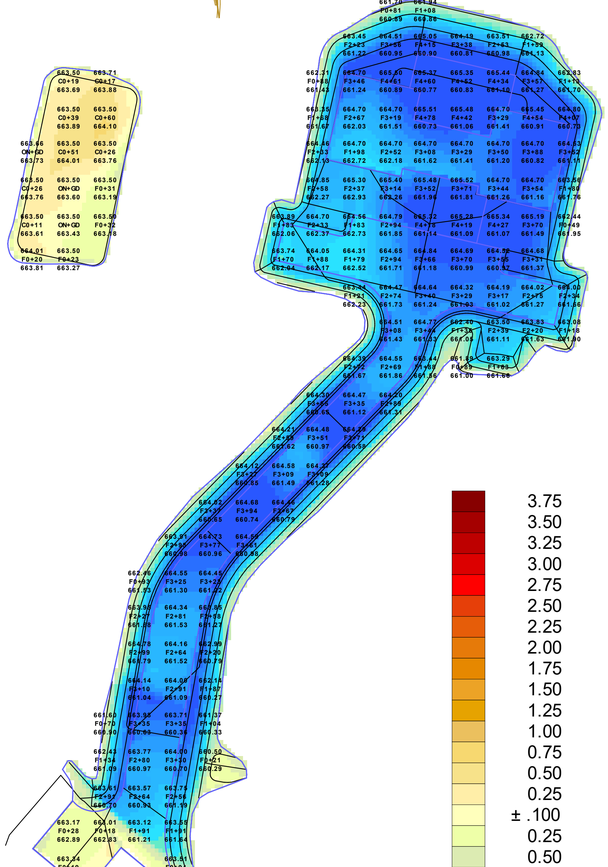

TH CRUSHED ROCK 1
TH CRUSHED ROCK 2
TH BUILDING
TH CONCRETE 1
TH CRUSHED ROCK 4
TH CRUSHED ROCK 5
TH CONCRETE 2
TH HAA
TH LANDSCAPING 1
TH LANDSCAPING 2
TH LANDSCAPING 3
TH CONCRETE 3
TH CONCRETE 4
TH CRUSHED ROCK 3
TRAIL CONCRETE 1
TRAIL QUARRY SPALLS 2
TRAIL CONCRETE 2
TRAIL QUARRY SPALLS 1
TRAIL CRUSHED ROCK
TRAIL LANDSCAPING
TRAIL CONCRETE 3

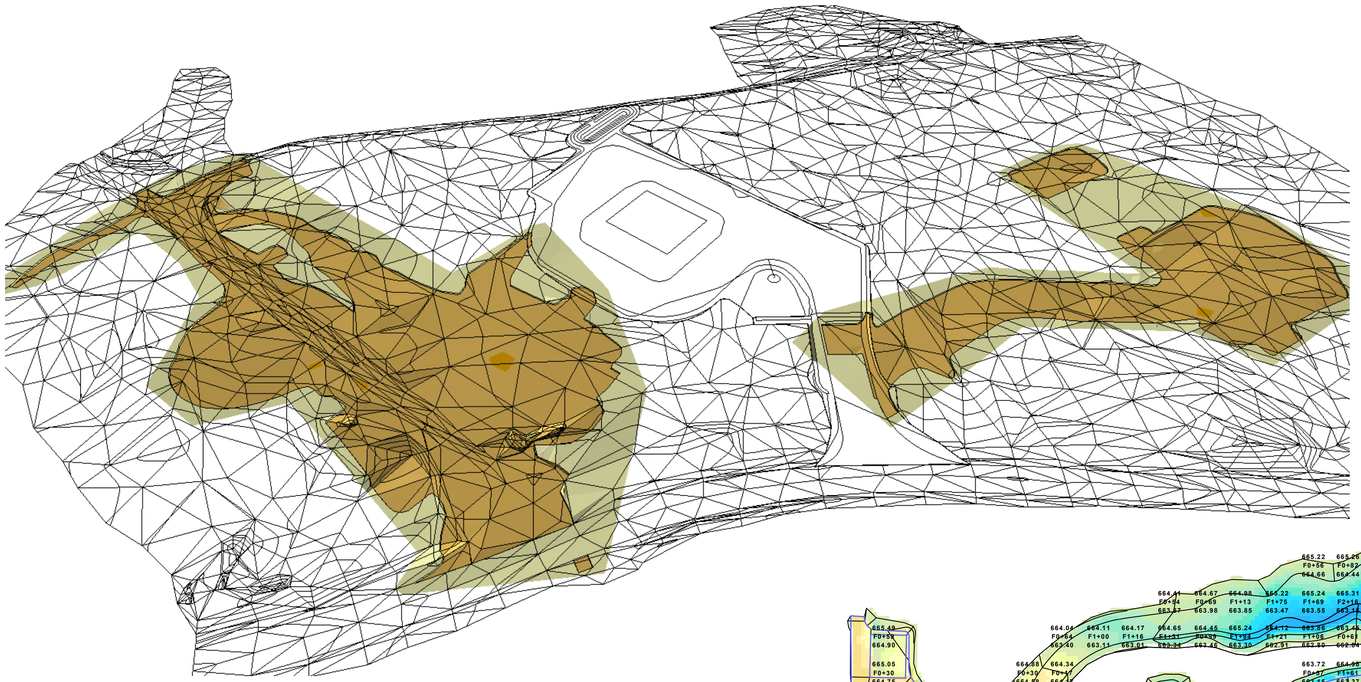

B CRUSHED ROCK 2
B LANDSCAPING 1
B HAA
B CRUSHED ROCK 4
B LANDSCAPING 2
B BUILDING
B CRUSHED ROCK 3
B CRUSHED ROCK 1

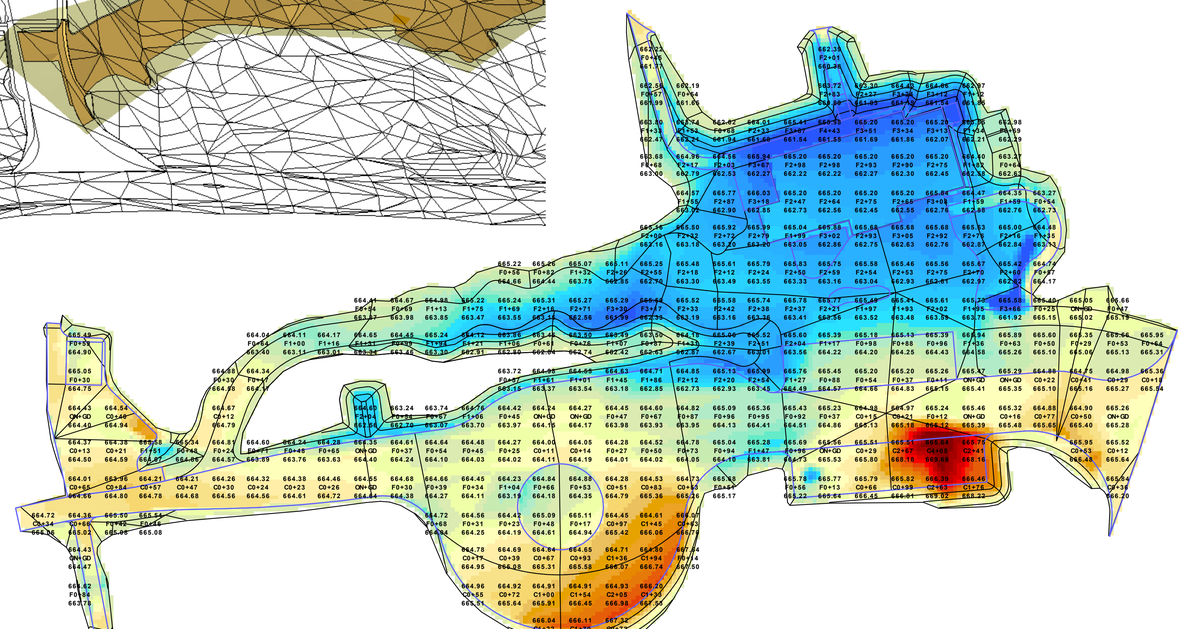

A HAA A 1
A CRUSHED ROCK 1
A LANDSCAPING 2
A HAA B
A CRUSHED ROCK 2
A CEMENT PAV
A HAA A 2
A LANDSCAPING 4
A LANDSCAPING 3
A GRAVEL 3
A BUILDING
A CONCRETE 1
A CRUSHED ROCK 4
A CONCRETE 2
A CRUSHED ROCK 3
A LANDSCAPING 5
A CONCRETE 6
A CRUSHED ROCK 5
A GRAVEL 2
A CONCRETE 3
A GRAVEL 1
A CONCRETE 5
S HAA A
S LANDSCAPING 1
S CONCRETE 2
S BUILDING
S LANDSCAPING 2
S CONCRETE 1











EARTHWORK SERVICES, INC.

Earthwork Take-Off Specialists

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1116 1st St.
Cosmopolis, WA 98537

360-533-2007
360-533-1618 Fax

earthwork@earthworkservices.com
www.earthworkservices.com

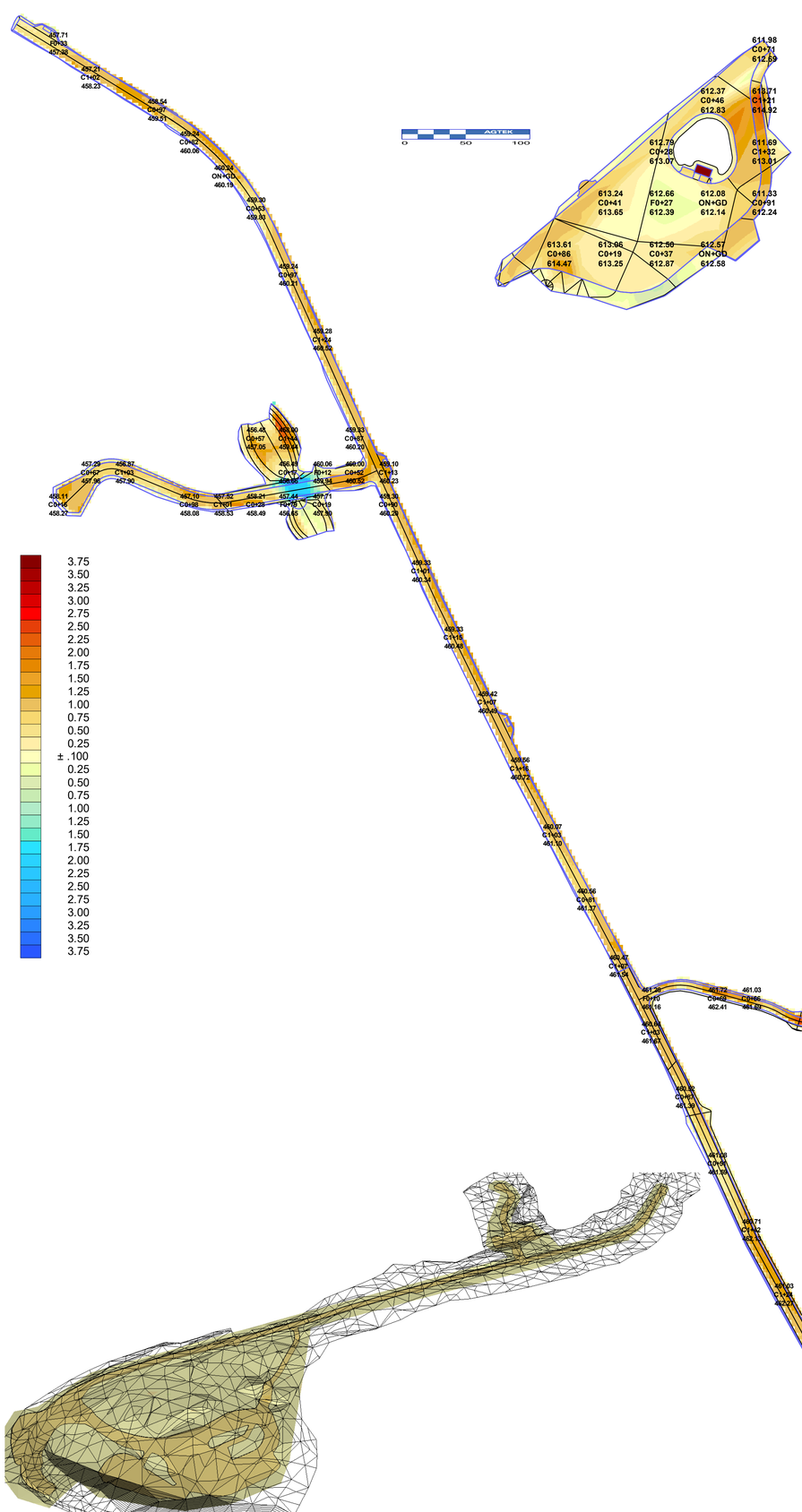
Volume Report
Subgrade vs Stripped

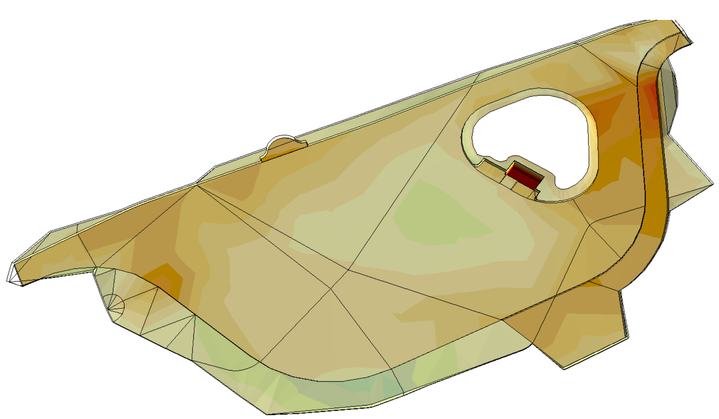
	Total	Cut	Area Fill	OnGrade	Volume Cut	Volume Fill	Comp/Ratio Cut	Comp/Ratio Fill	Compact Cut	Compact Fill	Export -Import	Change Per 0.1 ft
A BUILDING	2,991	0	2,991	0	0	315	1.00	1.00	0	315	-315	**11**
A CEMENT PAV	270	0	214	56	0	3	1.00	1.00	0	3	-3	**1**
A CONCRETE 1	656	0	656	0	0	90	1.00	1.00	0	90	-90	**2**
A CONCRETE 2	25	0	25	0	0	3	1.00	1.00	0	3	-3	**0**
A CONCRETE 3	51	0	51	0	0	8	1.00	1.00	0	8	-8	**0**
A CONCRETE 4	9,126	106	8,832	188	1	649	1.00	1.00	1	649	-648	**34**
A CONCRETE 5	52	0	52	0	0	7	1.00	1.00	0	7	-7	**0**
A CONCRETE 6	66	0	66	0	0	1	1.00	1.00	0	1	-1	**0**
A CRUSHED ROCK 1	695	398	109	188	7	2	1.00	1.00	7	2	5	**3**
A CRUSHED ROCK 2	1,869	1,279	207	383	24	2	1.00	1.00	24	2	22	**7**
A CRUSHED ROCK 3	451	74	334	43	1	15	1.00	1.00	1	15	-14	**2**
A CRUSHED ROCK 3	122	13	103	6	0	7	1.00	1.00	0	7	-7	**0**
A CRUSHED ROCK 4	411	71	311	29	1	12	1.00	1.00	1	12	-11	**2**
A GRAVEL 1	79	0	79	0	0	10	1.00	1.00	0	10	-10	**0**
A GRAVEL 2	78	0	78	0	0	7	1.00	1.00	0	7	-7	**0**
A GRAVEL 3	73	0	73	0	0	6	1.00	1.00	0	6	-6	**0**
A HMA A 1	1,631	1,187	261	183	91	8	1.00	1.00	91	8	83	**6**
A HMA A 2	1,444	0	1,444	0	0	49	1.00	1.00	0	49	-49	**5**
A HMA B	17,452	7,813	7,287	2,352	233	188	1.00	1.00	233	188	45	**65**
A LANDSCAPING 1	17,072	1,481	15,184	407	49	753	1.00	1.00	49	753	-704	**63**
A LANDSCAPING 2	1,017	0	938	79	0	19	1.00	1.00	0	19	-19	**4**
A LANDSCAPING 3	152	0	151	1	0	14	1.00	1.00	0	14	-14	**1**
A LANDSCAPING 4	313	0	313	0	0	34	1.00	1.00	0	34	-34	**1**
A LANDSCAPING 5	1,147	0	1,147	0	0	112	1.00	1.00	0	112	-112	**4**
A Sub:	**57,243**	**12,422**	**40,906**	**3,915**	**407**	**2,314**			**407**	**2,314**	**-1,907**	**211**
S BUILDING	3,060	0	3,060	0	0	362	1.00	1.00	0	362	-362	**11**
S CONCRETE 1	1,045	0	1,045	0	0	175	1.00	1.00	0	175	-175	**4**
S CONCRETE 2	954	0	954	0	0	134	1.00	1.00	0	134	-134	**4**
S HMA A	8,249	16	7,991	242	0	801	1.00	1.00	0	801	-801	**31**
S LANDSCAPING 1	14,818	24	14,733	61	0	1,273	1.00	1.00	0	1,273	-1,273	**55**
S LANDSCAPING 2	3,310	1,728	953	629	22	11	1.00	1.00	22	11	11	**12**
S Sub:	**31,436**	**1,768**	**28,736**	**932**	**22**	**2,756**			**22**	**2,756**	**-2,734**	**117**
Regions Total	**88,679**	**14,190**	**69,642**	**4,847**	**429**	**5,070**			**429**	**5,070**	**-4,641**	**328**

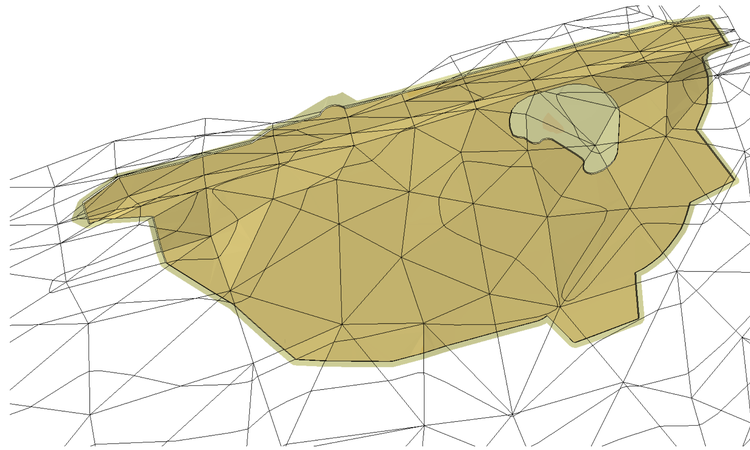
Stripping Qtys	Plane Area	Slope Area	Depth	Volume
ADMIN STRIPPING 1	57,178	57,381	1.000	2,125
ADMIN STRIPPING 2	66	66	1.000	2
ADMIN Sub:	**57,244**	**57,447**	**1.000**	**2,127**
STAFF STRIPPING 1	28,126	28,165	1.000	1,043
STAFF STRIPPING 2	3,310	3,310	1.000	123
STAFF Sub:	**31,436**	**31,475**	**1.000**	**1,166**
Stripping Total	**88,680**	**88,922**		**3,293**

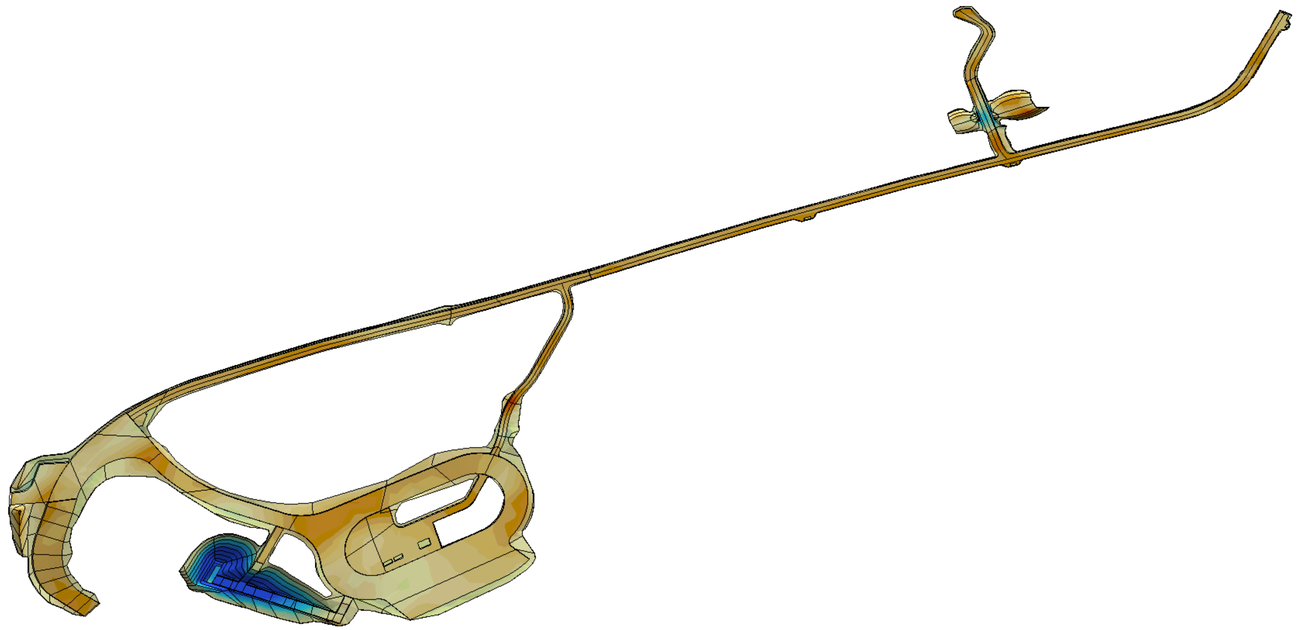
Sectional Qtys	Plane Area	Slope Area	Depth	Volume
A BUILDING	2,991	2,991	1.500	166
A CEMENT PAV	270	271	0.830	8
A CONCRETE 1	656	656	0.670	16
A CONCRETE 2	25	25	0.670	1
A CONCRETE 3	51	51	0.670	1
A CONCRETE 4	9,126	9,126	0.670	226
A CONCRETE 5	53	54	0.670	1
A CONCRETE 6	66	66	0.670	2
A CRUSHED ROCK 1	695	695	1.500	39
A CRUSHED ROCK 2	1,869	1,870	1.500	104
A CRUSHED ROCK 3	451	451	1.500	25
A Sub:	**16,253**	**16,256**		**589**

Sectional Qtys	Plane Area	Slope Area	Depth	Volume
A CRUSHED ROCK 3	122	122	1.500	7
A CRUSHED ROCK 4	411	411	1.500	23
A GRAVEL 1	79	80	1.500	4
A GRAVEL 2	79	80	1.500	4
A GRAVEL 3	73	73	1.500	4
A HMA A 1	1,631	1,631	1.000	60
A HMA A 2	1,444	1,464	1.000	54
A HMA B	17,452	17,465	1.250	809
A LANDSCAPING 1	17,072	17,401	0.500	322
A LANDSCAPING 2	1,017	1,017	0.500	19
A LANDSCAPING 3	151	151	0.500	3
A LANDSCAPING 4	313	313	0.500	6
A LANDSCAPING 5	1,147	1,148	0.500	21
A Sub:	**40,991**	**41,356**		**1,336**
Total A Sub:	**57,244**	**57,612**		**1,925**
S BUILDING	3,060	3,060	1.500	170
S CONCRETE 1	1,045	1,047	0.670	26
S CONCRETE 2	954	954	0.670	24
S HMA A	8,249	8,255	1.000	306
S LANDSCAPING 1	14,818	15,271	0.500	283
S LANDSCAPING 2	3,310	3,321	0.500	62
S Sub:	**31,436**	**31,908**		**871**
Sectional Total	**88,680**	**89,520**		**2,796**









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Volume Report
Subgrade vs Stripped

	Total	Cut	Area Fill	OnGrade	Volume Cut	Volume Fill	Comp/Ratio Cut	Comp/Ratio Fill	Compact Cut	Compact Fill	Export -Import	Change Per 0.1 ft
B BUILDING	84	84	0	0	12	0	1.00	1.00	12	0	12	**0**
B CRUSHED ROCK 1	1,821	1,802	0	19	73	0	1.00	1.00	73	0	73	**7**
B CRUSHED ROCK 2	64	64	0	0	2	0	1.00	1.00	2	0	2	**0**
B CRUSHED ROCK 3	45	45	0	0	1	0	1.00	1.00	1	0	1	**0**
B CRUSHED ROCK 4	98	98	0	0	4	0	1.00	1.00	4	0	4	**0**
B HMA	15,405	12,161	971	2,273	266	9	1.00	1.00	266	9	257	**57**
B LANSCAPING 1	3,172	829	1,204	1,139	14	15	1.00	1.00	14	15	-1	**12**
B LANSCAPING 2	652	191	117	344	3	1	1.00	1.00	3	1	2	**2**
B Sub:	**21,341**	**15,274**	**2,292**	**3,775**	**375**	**25**			**375**	**25**	**350**	**78**
TH BUILDING	82	0	82	0	0	8	1.00	1.00	0	8	-8	**0**
TH CONCRETE 1	742	63	605	74	1	78	1.00	1.00	1	78	-77	**3**
TH CONCRETE 2	15	0	15	0	0	0	1.00	1.00	0	0	0	**0**
TH CONCRETE 3	15	0	15	0	0	0	1.00	1.00	0	0	0	**0**
TH CONCRETE 4	40	0	38	2	0	0	1.00	1.00	0	0	0	**0**
TH CRUSHED ROCK 1	678	525	39	114	13	0	1.00	1.00	13	0	13	**3**
TH CRUSHED ROCK 2	1,732	1,732	0	0	65	0	1.00	1.00	65	0	65	**6**
TH CRUSHED ROCK 3	4,900	4,855	5	40	172	0	1.00	1.00	172	0	172	**18**
TH CRUSHED ROCK 4	162	162	0	0	5	0	1.00	1.00	5	0	5	**1**
TH CRUSHED ROCK 5	2,414	2,411	0	3	55	1	1.00	1.00	55	1	54	**9**
TH HMA	11,791	9,755	523	1,513	252	4	1.00	1.00	252	4	248	**44**
TH LANDSCAPING 1	11,194	2,889	4,946	3,359	46	289	1.00	1.00	46	289	-243	**41**
TH LANDSCAPING 2	69	24	16	29	0	0	1.00	1.00	0	0	0	**0**
TH LANDSCAPING 3	380	109	50	221	1	0	1.00	1.00	1	0	1	**1**
TH Sub:	**34,214**	**22,525**	**6,334**	**5,355**	**610**	**380**			**610**	**380**	**230**	**126**
TRAIL CONCRETE 1	16	16	0	0	0	0	1.00	1.00	0	0	0	**0**
TRAIL CONCRETE 2	16	16	0	0	0	0	1.00	1.00	0	0	0	**0**
TRAIL CONCRETE 3	16	0	16	0	0	0	1.00	1.00	0	0	0	**0**
TRAIL CRUSHED ROCK	11,690	11,323	343	24	412	18	1.00	1.00	412	18	394	**43**
TRAIL LANDSCAPING	5,149	2,720	1,112	1,317	69	27	1.00	1.00	69	27	42	**19**
TRAIL QUARRY SPALLS 1	64	20	19	25	0	0	1.00	1.00	0	0	0	**0**
TRAIL QUARRY SPALLS 2	75	0	73	2	0	1	1.00	1.00	0	1	-1	**0**
TRAIL Sub:	**17,026**	**14,095**	**1,563**	**1,368**	**481**	**46**			**481**	**46**	**435**	**62**
Regions Total	**72,581**	**51,894**	**10,189**	**10,498**	**1,466**	**451**			**1,466**	**451**	**1,015**	**266**

Stripping Qtys	Plane Area	Slope Area	Depth	Volume
BUS STRIPPING	21,342	21,377	0.500	396
TH STRIPPING	34,213	34,421	0.500	637
TRAIL STRIPPING	17,026	17,086	0.500	316
Stripping Total	**72,581**	**72,884**		**1,349**

Sectional Qtys	Plane Area	Slope Area	Depth	Volume
B BUILDING	84	85	4.750	15
B CRUSHED ROCK 1	1,821	1,821	1.500	101
B CRUSHED ROCK 2	64	64	1.500	4
B CRUSHED ROCK 3	45	45	1.500	2
B CRUSHED ROCK 4	98	101	1.500	6
B HMA	15,405	15,408	1.167	666
B LANSCAPING 1	3,172	3,207	0.500	59
B LANSCAPING 2	653	658	0.500	12
B Sub:	**21,342**	**21,389**		**865**
TH BUILDING	82	82	4.750	14
TH CONCRETE 1	741	751	0.670	19
TH Sub:	**823**	**833**		**33**

Sectional Qtys	Plane Area	Slope Area	Depth	Volume
TH CONCRETE 2	15	15	0.670	0
TH CONCRETE 3	15	15	0.670	0
TH CONCRETE 4	40	40	0.670	1
TH CRUSHED ROCK 1	678	679	1.500	38
TH CRUSHED ROCK 2	1,732	1,742	1.500	97
TH CRUSHED ROCK 3	4,900	4,908	1.500	273
TH CRUSHED ROCK 4	162	162	1.500	9
TH CRUSHED ROCK 5	2,414	2,415	1.500	134
TH HMA	11,791	11,791	1.167	510
TH LANDSCAPING 1	11,194	11,416	0.500	211
TH LANDSCAPING 2	69	73	0.500	1
TH LANDSCAPING 3	380	382	0.500	7
TH Sub:	**33,390**	**33,638**		**1,281**
Total TH Sub:	**34,213**	**34,471**		**1,314**
TRAIL CONCRETE 1	16	16	0.670	0
TRAIL CONCRETE 2	16	20	0.670	0
TRAIL CONCRETE 3	16	16	0.670	0
TRAIL CRUSHED ROCK	11,690	11,695	1.500	650
TRAIL LANDSCAPING	5,149	5,295	0.500	98
TRAIL QUARRY SPALLS 1	64	66	0.670	2
TRAIL QUARRY SPALLS 2	75	77	0.670	2
TRAIL Sub:	**17,026**	**17,185**		**752**
Sectional Total	**72,581**	**73,045**		**2,931**

DiamondPier®
FOUNDATION SYSTEM

COMMERCIAL INSTALLATION INSTRUCTIONS
For Foundations Requiring Site-Specific or Project-Specific Review

These instructions are only for installations that have been reviewed by Pin Foundations, Inc. They are intended to be generic, but may require revision for specific projects or unique applications.

Installation Instructions

You will need: A two or three person crew for installation, the Diamond Pier foundations, each with a concrete head and the corresponding number of bearing pins and pin caps, a square-edge shovel, an automatic driving hammer with driving bit, a sledge hammer or sliding post driver, a small level, a tamping plate, and a steel cutting saw. (Note: *Most applications will not require a saw or tamping plate.*) Check all concrete piers for cracks or structural damage and for pin fit before installing. Surface chips or spalls are not typically considered structural damage. A cracked pier or one in which pins do not slide easily through the holes must be replaced, and the supplier or manufacturer notified.

Note: Check for buried utilities before beginning to dig or driving pins. Wear safety goggles, ear protection, steel toe work boots, and rubber-insulated work gloves.

Step 1: Dig a conical hole that is approximately the shape of the bottom half of the concrete pier and slightly deeper than the lower half of the pier itself, leaving loose soils directly below it. *(On sloping terrain, dig the hole deeper on the uphill side so that the concrete pier sits level.)*

Step 2: Following safe lifting procedures, position the concrete pier in the hole to its approximate midpoint, level and centered on its alignment. Replace some of the removed soils back around the sides of the pier at grade, just enough, without packing too hard, to maintain level and alignment during pin driving. See Notes below. (*The piers may also be fully buried for aesthetic considerations if preferred, as long as access to the concrete head and capped pin ends is maintained.*)

Step 3: Slide opposing pins through the driving cavities in the concrete pier, and, making sure to support them in the center of the driving cavities, set the pins a foot or two into the soil with the sledge hammer or sliding post driver while checking and adjusting for level and alignment. Then drive each pin alternately in increments with the automatic hammer, continuing to monitor level and alignment. Do not hit the concrete pier with the automatic hammer. Do not attempt to drive the pins all the way down just with the sledge hammer, or allow the weight of the auto-hammer to force the pin against the lower half of the driving cavity. The concrete piers may crack if subjected to continued impact blows with the pin in this orientation. A cracked pier must be replaced.

Step 4: Finish driving the pin with the automatic hammer, leaving 1 inch protruding from the top of the cavity and being careful not to damage the precast pier or upper ends of the pin. If the soils are very soft, or the piers will be supporting vehicle loads, affix the tamping plate to the top of the pier, and, using the automatic hammer and plumb, downward pressure, vibrate the pier to seat it fully on the interlocking pins. Once the dead loads of the structure have been applied, verify the length of the protruding pin, adjust as necessary by tapping with the sledge hammer, and cover the exposed end of the pin with the cap, sealing it against the concrete. A 50-year, siliconized adhesive caulk, or equivalent, may be used between the cap and concrete to enhance this seal if necessary.

Repeat steps 1 through 4 for the remaining Diamond Pier foundations.

4810 Pt Fosdick Dr NW, PMB 60
Gig Harbor, Washington 98335
www.pinfoundations.com

PIN FOUNDATIONS INC

Toll Free: 866-255-9478
Main Office: 253-858-8809
General Email: info@diamondpiers.com

DiamondPier®
FOUNDATION SYSTEM

COMMERCIAL INSTALLATION INSTRUCTIONS
For Foundations Requiring Site-Specific or Project-Specific Review (Continued)

Installation Instructions (continued)

Notes

Note 1: Do not drive a pin all the way down at once if this causes the pier to be pulled to one side. (The piers should not be installed more than 5 degrees out of level.) If this begins to occur, stop driving that pin and continue to rotate around the pier, driving the pins in increments, until the growing strength in the pile group is sufficient to allow final driving. If loss of level is not a problem, the pins may be driven all the way one at a time. Do not continue to hammer away at a pin that is bouncing or rattling against an impassable object if it causes the pier to ride up the pin, pushes the pier to one side, or risks cracking the pier. Ensure that the pier will remain in place when encountering difficulties in the soil, and when following the steps in Note 2.

Note 2: If a pin meets substantial resistance in the soil before it has been driven its full length, it may be left in this partially driven position and cut off, provided it has been driven at least 60% of its length* *and* (1) using caution to avoid cracking the pier, the pin will not drive more than half an inch during a full 30 seconds of uninterrupted automatic hammering, (2) using caution to avoid cracking the pier, attempts to drive the pin with single sudden sledge hammer blows have been made, and (3) after a reasonable period, attempts to redrive the pin using both methods have been made without success.

*In frost zones, the pin must be driven to at least 85% of its length if it is to be cut off. If this is not possible, the obstruction may be close enough to the surface that it may be dug up and removed, the soils recompacted, the pier reset and the pins redriven. The pins may also be removed, and, provided your bracket bearing requirements will still be met, the pier may be turned or relocated within the parameters of your superstructure design to avoid underground obstacles. See “Pin Removal” video on our website www.diamondpiers.com. Length and location of cut pins should be recorded, mapped, and forwarded to the project engineer or design professional.

Temporary Product Storage

To avoid the bulky white deposit known as “wet-storage stain,” all galvanized products shipped in bundles, stacks, or cardboard cartons should be protected from moisture until they are separated and put to use in exposed environments. If products are shipped wet, they must be separated and thoroughly dried before restacking or rebundling. If indoor storage of the products is not possible, they must be kept off the ground, covered with an opaque plastic or canvas tarpaulin covering, and the bundles or stacks slanted slightly to allow condensation to drain. (Reference: American Society for Metals, Metals Handbook Ninth Edition, Vol. I [USA, 1978], p. 169.)

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PIN FOUNDATIONS INC

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General Email: info@diamondpiers.com

Diana Dupuis
Director

STATE OF WASHINGTON
WASHINGTON STATE PARKS AND RECREATION COMMISSION
1111 Israel Rd S.W. • P.O. Box 42650 • Olympia, WA 98504-2650 • (360) 902-8500
TDD (Telecommunications Device for the Deaf): (360) 664-3133
www.parks.wa.gov

May 9, 2024

To: Brian Yearout, Project Manager

Cc: Jessica Logan, Region Superintendent
Steph Simek, Region Manager
Janet Halstead, Area Manager
Sayre Creighton, SW Capital Program Coordinator
Sean Stcherbinine, Archeology
Dave Cass, Agency Forester

Central Files

From: Hannah Ross, Environmental Planner

Subject: ENVIRONMENTAL TRANSMITTAL – Nisqually State Park Phase 2: Administrative Plaza, Nisqually and Ohop trail improvements and overlooks.

All the required environmental approvals have been obtained for the following PARK proposal:

The staff of the Washington State Parks and Recreation Commission proposes to continue the development of Nisqually State Park. The development will connect visitors to cultural, education and recreational experiences while preserving and protecting the Park's natural and cultural resources. This phase of the development includes the administrative plaza, staff residence, and improvements to the access of the Nisqually River and Ohop Creek. This phase also includes the overlooks and trails along the Nisqually River and Ohop Creek.

Some attached documentation includes permit approvals for future phases of the Nisqually State Park Development. This transmittal approves **ONLY** Phase 2 of the development including aspects listed in the above proposal. This transmittal **DOES NOT** approve Phase 3 activities. Future transmittals will be provided for future phases of the Nisqually State Park Development.

This letter transmits the following environmental approvals to you for project implementation:

1. **State Environmental Policy Act (SEPA) Compliance:** A Determination of Nonsignificance was issued on December 22, 2021, with the comment period ending January 12, 2022. See attachment 1.

2. **Cultural Resources**: This project was reviewed by Sean Stcherbinine, State Park Archeologist. No additional surveying or monitoring is required. See attachment 2 for the Inadvertent Discovery Plan and Cultural Resources Checklist.

3. **Shoreline Management Act:** Pierce County Planning and Public Works issued a Substantial Shoreline Development (Permit Number: 977696) and Ecology Permit Number: 2023-SWRO-6937. See attachment 3.

4. **Pierce County Critical Areas:** Pierce County Issued a Conditional Use Permit on June 14, 2023. The application number is 977691. Please see attachment 4 for permit conditions of the Conditional Use Permit and Wetland Approval.

5. **Forest Practices Application:** Pierce County Planning and Public Works issued a Type IV Forest Practices permit on March 21, 2024. The application number is 1007040. The application expires 360 days from the issuance date. Please see attachment 5 for the Pierce County Forest Practices Permit.

6. **State Parks Tree Removal:** State Parks internal process required a director signed letter for approval of the tree removal. Please see attachment 6 for director signed letter.

Please remember that it is your responsibility to understand all conditions of the various permits and approvals. Violation of regulatory compliance may result in civil and criminal penalties being assessed to the contractor and/or the agency.

Permit and environmental approval provisions should be reviewed at the pre-construction conference with the contractor and subsequently, with any subcontractors. Permits should be read and understood by all responsible parties prior to undertaking construction activities. A copy of the permits should be located on site with the contractor and any subcontractors during construction activities.

Attachment 1
SEPA Documentation

Don Hoch
Interim Director

STATE OF WASHINGTON
WASHINGTON STATE PARKS AND RECREATION COMMISSION
1111 Israel Road S.W. • P.O. Box 42650 • Olympia, WA 98504-2650 • (360) 902-8500
TDD Telecommunications Device for the Deaf: 800-833-6388
www.parks.state.wa.us

STATE ENVIRONMENTAL POLICY ACT
DETERMINATION OF NON-SIGNIFICANCE

Date of Issuance: December 22, 2021

Project Name: Nisqually State Park Phase 2 & 3 Full Service Park Development

Proponent: Washington State Parks and Recreation Commission

Lead agency: Washington State Parks and Recreation Commission

Description of proposal: The Washington State Parks and Recreation Commission (State Parks) proposes the continued development of Nisqually State Park. The development will connect visitors to cultural, education, and recreational experiences while preserving and protecting the Park's natural and cultural resources through park entry improvements, a campground with 53 campsites, welcome center, RV dump station, picnic shelters, comfort stations, staff housing, trails and overlooks, and parking.

Location of Proposal: Nisqually State Park is located at 43640 Mashel Prairie Rd, Eatonville, WA 98328 in Pierce County. The project site is situated within Township 16N, Range 4E, Sections 17, 19, 20, 21, 29 and 30.

Phased Review: This SEPA checklist analyzes potential project impacts associated with actions related to the planned development of a campground, welcome center, RV dump station, picnic shelters, trails, overlooks, staff housing, comfort stations, and parking at Nisqually State Park. These actions are all elements of a larger sequenced planned development proposal at Nisqually State Park. Phased review under SEPA allows the agency to identify alternatives and impacts at a time when they can be meaningfully evaluated. Future actions associated with this same project will likely be developed but are not yet planned and therefore not included in this SEPA analysis. Any future proposal that requires additional SEPA review will be conducted at the earliest possible opportunity during the planning process pursuant to WAC 197-11-055. Depending upon the nature of the proposal, some future projects may be considered categorically exempt from additional review under SEPA (WAC 197-11-305). Categorically exempt projects do not require preparation of an environmental checklist or threshold determination.

Threshold Determination: After a review of the completed environmental checklist, the lead agency for this proposal has determined that it does not have a probable significant adverse impact to the environment, nor does it need mitigation to avoid significant adverse

environmental impacts. The bulk of the park development will occur on forested lands that have been clear cut within the last 40 years. No high-quality habitats or species of concern will be impacted by this proposal. Development has been sited to avoid and minimize impacts to earth, water, vegetation, and recreation. The nature of the improvements, as described in the checklist, will not result in any lasting impacts to waterways, native habitat, or species. Best management practices (BMPs) have been incorporated into the design to provide protection from incidental or unanticipated impacts such as sediment run-off. Lastly, the completed proposal would not pose a threat to public health or safety and there will be no impacts to cultural or historic resources.

The lead agency for this proposal has determined that it does not have a probable significant adverse impact on the environment. An environmental impact statement (EIS) is not required under RCW 43.21C.030(2)(c). This decision was made after review of a completed environmental checklist and other information on file with the lead agency. This information is available to the public on request.

☒ This DNS is issued under 197-11-340(2); the lead agency will not act on this proposal for 14 days from the date below. Comments must be submitted by **January 12, 2022** or they may not be considered.

Responsible Official: Chelsea Hamer
Position/Title: SW Region Environmental Planner
Phone: (360) 725-9764
Address: 1111 Israel Rd SW, PO Box 42650
Olympia, WA 98504-2650

Date: 12/22/2021 Signature: 

"All Washington State Parks are developed and maintained for the enjoyment of all persons regardless of age, sex, creed, ethnic origin, or physical limitations."

There is no agency SEPA appeal; however, all comments are welcome and will be thoroughly considered.

Attachment 2
Cultural Resources

CULTURAL RESOURCES REVIEW CHECKLIST

Fill out each field as appropriate for your project.
Fields or sections marked with an asterisk require a response.

This form is for public disclosure and should not contain any sensitive information.

PROJECT INFORMATION		☐Additional Info Attached
1) *CR Project Number	On going project from 2019;2020; can't find job sheet	
2) *Park/Property Name	83003 - Nisqually Mashel	
3) *Project Name	Full Service Development Park – Phase II	
4) *Cost Code(s)	Click or tap here to enter text.	
5) Grant Number	Click or tap here to enter text.	☒ N/A
6) *Regulatory Context	☒ EO 21-02 ☐ Section 106 ☐ Best Practices, RCW 27.53 ☐ Other:	Click or tap here to enter text.
7) Archaeology Permit Needed for Review:	☒ Not Required ☐ ARPA ☐ AA ☐ Arch Site Alteration/Excavation Permit (DAHP) ☐ Other:	Click or tap here to enter text.
8) *Landowner/Parcel Numbers:	WSPRC ☐ List of Additional Parcel Numbers Attached	
9) If Section 106, lead federal agency:	Click or tap here to enter text.	☒ N/A
10) If this is a USACE Project, list Corps Permit number	Click or tap here to enter text.	☒ N/A
11) Project is being done in partnership with:	Click or tap here to enter text.	☒ N/A
12) *Agency Responsible for Consultation:	☒ WSPRC is Responsible for All Consultation Tasks ☐ WSPRC Conducted Consultation on Behalf of: Click or tap here to enter text. ☐ Another Agency is Responsible for Consultation: Click or tap here to enter text.	

STATE PARKS POINTS OF CONTACT	☐ Additional Info Attached
13) Project Manager	*Brian Yearout*
14) Job Sheet Contact	*Hannah Ross*
15) *Archaeologist	*Sean Stcherbinine; Sean.Stcherbinine@parks.wa.gov*
16) Historic Preservation Planner	*Alex McMurry; Alex.McMurry@parks.wa.gov*; Jim Jenks James.Jenks@parks.wa.gov
17) Statewide Curator of Collections & NAGPRA Specialist	*Alicia Woods; Alicia.Woods@parks.wa.gov*

DAHP PROJECT NUMBER & DESKTOP REVIEW- HISTORIC PRESERVATION & ARCHAEOLOGY			☐ Additional Info Attached
18) *DAHP Project Number	*2019-12-09588*	Obtained by:	*Sean Stcherbinine*
19) Historic Preservation Review?	☐No ☐ Yes	Date:	4/18/2024

CULTURAL RESOURCES REVIEW CHECKLIST, cont.

This form is for public disclosure and should not contain any sensitive information.

DAHP PROJECT NUMBER & DESKTOP REVIEW- HISTORIC PRESERVATION & ARCHAEOLOGY				☐ **Additional Info Attached**
	☐ Not Required			
20) Notes Regarding Historic Preservation Review:	*No historic preservation concerns, HPIs submitted to DAHP in 2020.*			
21) Archy Desktop Review	Date/Year	Click or tap here to enter text.	By:	Choose an item.
22) Notes Regarding Archy Desktop Review:	Click or tap here to enter text.			

23) *STATE PARKS CONSULTATION ON PROJECT (INTRO), FIELD METHODS, & AREA OF IMPACT/AREA/FOOTPRINT

☐State Parks Did Not Consult
☐ Additional Info Attached

	Date	**By**	**Sent To**	**Recipient Response**	**Date**	**Notes**	**N/A**
DAHP Consultation-Archaeology	3/25/2024	*Sean Stcherbinine*	*Rob Whitlam*	☒Concur ☐ Does not concur ☐ No response	3/25/2024	Click or tap here to enter text.	☐
DAHP Consultation-HP	Click or tap to enter a date.	Choose an item.	Choose an item.	☐ Concur ☐ Does not concur ☐ No response	Click or tap to enter a date.	Click or tap here to enter text.	☐
Muckleshoot	3/25/2024	*Sean Stcherbinine*	Larua Murphy	☐ Concur ☐ Does not concur ☒ No response	Click or tap to enter a date.	Click or tap here to enter text.	☐
Nisqually	3/25/2024	*Sean Stcherbinine*	Brad Beach	☒ Concur ☐ Does not concur ☐ No response	3/25/2024	phone call; email response by Sean	☐
Puyallup	3/25/2024	*Sean Stcherbinine*	Brandon Reyon	☐ Concur ☐ Does not concur ☒ No response	Click or tap to enter a date.	Click or tap here to enter text.	☐
Squaxin Island	3/25/2024	*Sean Stcherbinine*	Shaun Diablo	☒ Concur ☐ Does not concur ☐ No response	4/4/2024	Click or tap here to enter text.	☐
Yakama Tribes	3/25/2024	*Sean Stcherbinine*	Casey Barney	☐ Concur ☐ Does not concur ☒ No response	Click or tap to enter a date.	Click or tap here to enter text.	☐

CULTURAL RESOURCE SURVEY, INVENTORY & REPORT					☐**Additional Info Attached**
24) *Cultural Resource Work Conducted:	☒ Archaeology Survey	☐ Historic Property Inventory	☐ Monitoring	☐ Archaeology Site Testing:	☐Other: Click or tap here to enter text.

25) Date Survey conducted (if applicable)	3/28/2024	By:	☒ State Parks: Click or tap here to enter text. ☐ Consultant: Click or tap here to enter text. ☐ Another Agency:Click or tap here to enter text.

A completed and signed checklist may be submitted as proof that cultural resource review is complete for a project

Form version 04/20/2023

CULTURAL RESOURCES REVIEW CHECKLIST, cont.

This form is for public disclosure and should not contain any sensitive information.

CULTURAL RESOURCE SURVEY, INVENTORY & REPORT						☐Additional Info Attached
26) *Archaeological Sites Identified?	☒ Yes ☐ No	Notes:	No new sites or resources; but previously recorded resources are in the project AI; their impacts are discussed in the report and DAHP concurs with Parks' recommendation of no further work needed			
27) *Historic Structures Recorded?	☐ Yes ☒ No	Notes:	Click or tap here to enter text.			
28) Site/HPI forms reviewed by State Parks (if applicable)	Date	Click or tap to enter a date.	By	Choose an item.		
29) Smithsonian Trinomials Requested (if applicable)	Date	Click or tap to enter a date.	By	Choose an item.		
30) Report(s) Associated with Project (if applicable)	Author	Sean Stcherbinine	Agency/ Consultant Firm	WSPRC		
31) Report(s) Title (Year) (if applicable)	Supplemental Cultural Resources Survey For the Nisqually State Park -Full Service Park - Phase II, Pierce County (2024)					
32) Artifacts Collected?	☒No ☐ Yes	If yes, date Alicia Woods was consulted regarding curation:	Click or tap to enter a date.	Curation Notes:	Click or tap here to enter text.	

33) *STATE PARKS CONSULTATION ON RECOMMENDATIONS & FINDINGS						☒State Parks Did Not Consult ☐Additional Info Attached	
	Date	**By**	**Sent To**	**Recipient Response**	**Date**	**Notes**	**N/A**
DAHP Consultation-Archaeology	4/17/2024	*Sean Stcherbinine*	*Rob Whitlam*	☒Concur ☐ Does not concur ☐ No response	4/17/2024	Click or tap here to enter text.	☐
DAHP Consultation-HP	4/16/2024	*Sean Stcherbinine*	Choose an item.	☐Concur ☐ Does not concur ☐ No response	Click or tap to enter a date.	Click or tap here to enter text.	☒
Muckleshoot	4/16/2024	*Sean Stcherbinine*	Laura Murphy	☐Concur ☐ Does not concur ☒ No response	Click or tap to enter a date.	Click or tap here to enter text.	☐
Nisqually	4/16/2024	*Sean Stcherbinine*	Brad Beach	☒Concur ☐ Does not concur ☐ No response	4/17/2024	Click or tap here to enter text.	☐
Puyallup	4/16/2024	*Sean Stcherbinine*	Brandon Reynon	☐Concur ☐ Does not concur ☒ No response	Click or tap to enter a date.	Click or tap here to enter text.	☐
Squaxin Island	4/16/2024	*Sean Stcherbinine*	Shaun Diablo	☐Concur ☐ Does not concur ☒ No response	Click or tap to enter a date.	Click or tap here to enter text.	☐
Yakama Tribes	4/16/2024	*Sean Stcherbinine*	Casey Barney	☐Concur ☐ Does not concur ☒ No response	Click or tap to enter a date.	Click or tap here to enter text.	☐

A completed and signed checklist may be submitted as proof that cultural resource review is complete for a project

Form version 04/20/2023

CULTURAL RESOURCES REVIEW CHECKLIST, cont.

This form is for public disclosure and should not contain any sensitive information.

34) *For Section 106 Projects ONLY, Describe Consultation Results Below	☐Additional Info Attached ☒ Not Applicable
Click or tap here to enter text.	
Source of Section 106 Consultation Info:	Click or tap here to enter text.

35) ***CONDITIONS**			☐Additional Info Attached
☐	**As planned, the project may not proceed because:**		*Check all that apply*
	☐ Additional CR survey/testing is needed	☐ Additional project information is needed	☐ Other:Click or tap here to enter text.
Notes:	Click or tap here to enter text.		
☒	**As planned, the project may proceed based on the following conditions:** *Check all that apply*		
			☒ Inadvertent Discovery Plan Required
	Whose IDP should be used for this project?	☒ State Parks Standard IDP ☐ Lead Fed Agency's IDP ☐ A Project Specifc IDP will be developed ☐ Other:	
			☐ Monitoring by a Professional Archaeologist (SOI Qualifications) Required
	Explain specific activities and locations that require monitoring: Click or tap here to enter text. ☐ Graphic of monitoring areas is attached (can be a report figure)		
			☐ Archaeology Permit Required for Construction/Ground Disturbing Activities:
☐Archaeological Site Alteration and Excavation Permit (from DAHP)	☐ARPA	☐Other:Click or tap here to enter text.	
			☐The Following Tribes Requested Notification of Construction Dates:
Click or tap here to enter text.			
			☐Other Requirements:
Click or tap here to enter text.			
Notes About Conditions:	Click or tap here to enter text.		

36) Additional Cultural Resource Review is Warranted if… (check all that apply):

A completed and signed checklist may be submitted as proof that cultural resource review is complete for a project

Form version 04/20/2023

CULTURAL RESOURCES REVIEW CHECKLIST, cont.

This form is for public disclosure and should not contain any sensitive information.

35) ***CONDITIONS**		☐**Additional Info Attached**
☒Change in horizontal limits of excavation/ground disturbance and/or increase in the vertical (depth) disturbance limits	☒Additional ground disturbing elements are added to the project	☐Machinery is now being used for ground disturbing activity instead of hand tools
☐Other: Click or tap here to enter text.		

	4/18/2024
Signature of State Parks Historic Preservation Planner	
Sean Stcherbinine	4/18/2024
Signature of State Parks Archaeologist	*Date*

A completed and signed checklist may be submitted as proof that cultural resource review is complete for a project

Form version 04/20/2023

Inadvertent Discoveries of Cultural Resources and Human Skeletal Remains Protocol

Nisqually State Park, Pierce County

Many of Washington's most important heritage sites reside on lands owned or managed by the Washington State Parks and Recreation Commission (WSPRC). Nearly all Washington State Parks contain one or more important historic buildings, structures, or archaeological sites. For this reason, archaeological surveys and historic building inventories are ordinarily commissioned as a part of background analysis and information gathering for park developments and undertakings. Results of these surveys are used during project planning to ensure every effort is made to avoid impacts to cultural resources. Yet, despite these efforts, there **always** remains some potential for unanticipated discoveries while working in Washington State Parks.

All unanticipated discoveries, both cultural resources and human skeletal remains, are subject to all applicable federal and state statues, regulations, and executive orders. For these reasons, the Inadvertent Discovery Plan (IDP) provides useful guidance and instructions for circumstances when cultural resources or human skeletal remains are found. Please carefully read these instructions. If you have any questions, please contact the appropriate WSPRC Area Manager or the WSPRC archaeologist assigned to the undertaking. It is also strongly recommended that anyone conducting ground-disturbing activities watch the training video produced by Washington State Dept of Ecology: Inadvertent Discovery of Cultural Resources or Human Remains: Training for Field Staff. This IDP for cultural resources and human skeletal remains is based on RCW 27.44, RCW 27.53, RCW 68.50.645, RCW 27.44.055, and RCW 68.60.055 and recommended language from the Department of Archaeology and Historic Preservation (DAHP).

INADVERDENT DISCOVERY PLAN FOR CULTURAL RESOURCES

If cultural resources are found during a project, activity in the immediate area of the find should be discontinued (**stop**), the area secured (**protect**), and the WSPRC archaeologists notified to assess the find (**notify**). ***When in doubt, assume the material is a cultural resource and implement the IDP outlined below.***

Recognizing Cultural Resources-*Types of Historic/Precontact Artifacts and/or Activity Areas That May Be Found*

- Artifacts- Both historic and precontact artifacts may be found exposed in backhoe trenches or back dirt piles.
    - Precontact artifacts may range from finished tools such as stone pestles, arrowheads/projectile points, shell beads, or polished bone tools to small pieces or "flakes" or "chips" of exotic stone such as chert, jasper, or obsidian.
    - Historic artifacts may include older (more than 50 years) nails, plates/ceramics, bottles, cans, coins, glass insulators, or bricks.
    - Old abandoned industrial materials from farming, logging, railways, lighthouses, and military installations.
- Activity Area/Cultural Features- While excavating trench lines look for evidence of buried activity areas/cultural features such as old campfire hearths or buried artifacts.

  - An area of charcoal or very dark stained soil with artifacts or burned rocks may be a fire hearth.
  - A concentration of shell with or without artifacts may be shell midden deposits.
  - Modified or stripped trees, often cedar or aspen, or other modified natural features, such as rock drawings or carvings
- Historic building foundation/structural remains- During excavation, buried historic structures (e.g., privies, building foundations) that are more than 50 years old may be found.
- Bone- Complete or broken pieces of bone may be discovered exposed in trench walls or in back dirt piles. Bone can come from either animal remains or human remains and requires a trained professional to identify. If you find bone, notify the WSPRC archaeologist immediately and follow their directions.

Steps to Take If a Cultural Resource Is Found During Construction

1. **Stop** if a cultural resource(s) is observed or suspected, all work within the immediate area of the discovery must stop.
2. **Protect** the area from further disturbance. Do not touch, move, or further disturb the exposed materials/artifacts. Create a protected area with temporary fencing, flagging, stakes, or other clear markings that is large enough (30 feet or larger) to protect the discovery location area. The WSPRC archaeologist can help determine the size of the protected area. Do not permit vehicles, equipment, or unauthorized personnel to traverse the discovery site.
3. **Notify** the WSPRC archaeologist. If the area needs to be secured, notify the Park Ranger or Park staff as well.
4. If requested by the WSPRC archaeologist, take photographs with a scale (e.g., pen, coin, etc.) and collect geospatial information of the discovery site to document the initial finds.

What Not to Do If a Cultural Resource Is Found During Construction

- Do not remove any artifacts from the site of the discovery.
- Do not dig out objects protruding from any trench walls as this may cause further damage to artifacts and/or destroy important contextual information.
- Do not share any information about the find, including on social media, except as necessary to implement the IDP.

What Happens Next?

1. The find will be assessed by a professional archaeologist (may be a WSPRC archaeologist or an archaeology consultant).
   a. If the find is not a cultural resource, construction work may resume.
   b. If the find is a cultural resource, the WSPRC archaeologist will contact the DAHP and affected Tribes, as appropriate, to develop a suitable treatment plan for the resource.
2. Construction work may resume in the protected area after the WSPRC archaeologist assigned to the undertaking has determined that the find has been adequately investigated and, if necessary, a treatment plan and monitor are in place to protect any remaining archaeological deposits.

INADVERDENT DISCOVERY PLAN FOR HUMAN SKELETAL REMAINS

Native American burials and historic grave sites are common features on Washington State Park lands. These remains, as well as any associated artifacts or funerary objects, are protected under state law and, if the park is a federal lease, applicable federal law. If you discover human remains (or bones that you believe may be human remains) during construction, please follow these important instructions**.** It is imperative that reporting and treatment of any human remains found during construction or any ground-disturbing activities are treated with utmost dignity and respect.

Steps to Take If Human Skeletal Remains are Found During Construction

1. **Stop** if human skeletal remains observed or suspected, all work within the immediate area of the discovery must stop.
2. **Protect** the area from further disturbance. Do not touch, move, or further disturb the remains. Cover the remains with a tarp or other materials (not soil or rocks) for temporary protection in place and shield them from being photographed. Create a protected area with temporary fencing, flagging, stakes, or other clear markings that is large enough (30 feet or larger) to protect the discovery location area. The WSPRC archaeologist can help determine the size of the protected area. Do not permit vehicles, equipment, or unauthorized personnel to traverse the discovery site.
3. **Notify** local law enforcement (Park Ranger) and the appropriate county medical examiner/coroner as soon as possible. If you are unsure if the remains are human, the physical anthropologist at DAHP may be called. Also notify the Area Manager, the WSPRC archaeologist, and the WSPRC Curator of Collections/NAGRPA Specialist of the discovery of the remains.
4. If requested by the local law enforcement, the county coroner/examiner, the DAHP physical anthropologist, or the WSPRC archaeologist, take photographs with a scale (e.g., pen, coin, etc.) and geospatial information of the discovery site to document the initial finds.

What Not to Do If Human Skeletal Remains are Found During Construction

- Do not pick up or remove anything.
- Do not take any photographs of the remains unless instructed to do so by local law enforcement, the county coroner/examiner, the DAHP physical anthropologist, or the WSPRC archaeologist. If pictures are requested, be prepared to photograph them with a scale (e.g., pen, coin, etc.) and collect geospatial information of the remains.
- Do not call 911 unless you cannot reach local law enforcement or the coroner/examiner by other means.
- Do not share any information about the find, including on social media, except as necessary to implement the IDP.

What Happens Next?

1. The county medical examiner/coroner will assume jurisdiction over the human skeletal remains and decide whether those remains are forensic (crime-related) or non-forensic.
    a. If forensic, the county medical examiner/coroner will retain jurisdiction over the remains.

b. If non-forensic, the county medical examiner/coroner will report that finding to the DAHP who will then take jurisdiction over the remains. The DAHP will notify any appropriate cemeteries and all affected Tribes of the remains. The State Physical Anthropologist will decide whether the remains are Indian or Non-Indian and report that finding to any appropriate cemeteries and the affected Tribes. The DAHP will then handle all consultation with the affected parties as to the future preservation, excavation, and disposition of the remains.
   Note: The WSPRC archaeologist assigned to the undertaking will be coordinating and consulting with the DAHP, affected Tribes, and other groups as necessary. Additionally, WSPRC's Curator of Collections/NAGPRA Specialist should be included on all written and/or verbal correspondence until the remains have been officially transferred from WSPRC's possession to an outside authority. Until the remains are transferred off of WSPRC's property, it is the responsibility of the Curator of Collections/NAGPRA Specialist to document and track the information regarding all human remains and associated funerary objects (including all material from excavation areas/units from which the human remains were removed).

2. Construction work may resume in the protected area after the WSPRC archaeologist assigned to the undertaking has determined that the find has been adequately investigated and, if necessary, a treatment plan and monitor are in place.

EMERGENCY CONTACTS

WSPRC Region Archaeologists

Sean Stcherbinine, NW Region Archaeologist	(360) 770-1419 (cell)
Email: sean.stcherbinine@parks.wa.gov	
Shari Silverman, SW Region Archaeologist	(435) 260-9894 (cell)
Email: shari.silverman@parks.wa.gov	(360) 902- 8640 (office)
Kayley Bass, SW Region Archaeologist	(360) 701-1277 (cell)

Alternative WSPRC Archaeologist Contacts

Jennifer Wilson, Cultural Resources Program Manager	(360) 787-6511 (cell)
Email: jennifer.wilson@parks.wa.gov	(360) 902-8637 (office)
Statewide:	
Maurice Major, Stewardship Archaeologist	(360) 701-6218 (cell)
Email: maurice.major@parks.wa.gov	(360) 902-8503 (office)
Eastern Region:	
Ayla Aymond, Eastern Region Archaeologist	(509) 743-8251 (cell)
Email: ayla.aymond@parks.wa.gov	
Sarah DuBois, Eastern Region Archaeologist	(509) 972-5884 (cell)
Email: sarah.dubois@parks.wa.gov	(509) 665-4336 (office)
NW Region:	
Laura Syvertson, NW Region Archaeologist	(360) 770-0444 (cell)
Email: laura.syvertson@parks.wa.gov	

WSPRC Curator of Collections/NAGPRA Specialist	
Alicia L. Woods, Statewide Curator of Collections & NAGPRA Specialist	
Email: alicia.woods@parks.wa.gov	(360) 586-0206 (office)
State Physical Anthropologist	
Guy Tasa, DAHP	(360) 790-1633 (cell)
Assistant State Physical Anthropologist	
Jackie Berger, DAHP	(360) 890-2633 (cell)
County Coroner/Examiner	
Karen Cline-Parhamovich, DO	(253) 798-6494
Local Law Enforcement	
Alicia Feist, Park Ranger 3	(360) 902-8642
	(360) 787-6514 (cell)
If the above cannot be reached, call Sherriff at:	(253) 798-4668
Area Manager	
Janet Halstead	(360) 956-4834
	(360) 628-0529 (cell)

Attachment 3
Substantial Shoreline Development

Pierce County
Planning & Public Works

Jen Tetatzin, PE, PMP — Director

2401 South 35th Street, Room 2
Tacoma, Washington 98409-7460
piercecountywa.gov/ppw

May 25, 2023

Sent via email only

State Department of Ecology
Southwest Regional Office
Shoreline Permit Processing
PO Box 47775
Olympia, WA 98504-7775
smp@ecy.wa.gov

Attn: Shoreline Management Permit Reviewer

Dear Permit Reviewer:

Enclosed herewith for your review, pursuant to the Shoreline Management Act of 1971, is the following Shoreline Substantial Development Permit.

Case No.:	SD App. No. 977696
Owner:	State of Washington Parks & Recreation Commission
Applicant:	Ann Dinthongsai & Bob Droll, RWD Landscape Architects

The action taken by the Pierce County Senior Planner on May 10, 2023, and all related documents may be seen under:
https://pals.piercecountywa.gov/palsonline/#/permitSearch/permit/documents?applPermitId=977696

Please notify the Pierce County Planning Department, 2401 South 35th Street, Tacoma, WA 98409, at the end of the thirty (30) day review period, or if the case should go before the Shoreline Review Board.

If you have any questions, please call me at (253) 798-2789 or email tony.kantas@piercecountywa.gov.

Sincerely,

Tony Kantas
Senior Planner

TK:jk
SD977696-ECY

Enclosures

ec: U.S. Army Corps of Engineers, NWS-Compliance@usace.army.mil
Brian Yearout, Washington State Parks & Recreation, Brian.Yearout@parks.wa.gov
Hannah Ross, Washington State Parks & Recreation, Hannah.Ross@parks.wa.gov
Ann Dinthongsai, RWD Landscape Architects, ann@rwdroll.com
Bob Droll, RWD Landscape Architects, bob@rwdroll.com

Pierce County
Planning & Public Works

Jen Tetatzin, PE, PMP — Director

2401 South 35th Street, Room 2
Tacoma, Washington 98409-7460
piercecountywa.gov/ppw

May 25, 2023

Sent via email only

U.S. Army Corps of Engineers, Seattle District
Regulatory Branch
4735 E Marginal Way S, Bldg 1202
Seattle, WA 98134-2388
NWS-Compliance@usace.army.mil

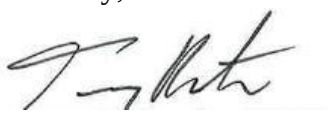
Subject: SD App. No. 977696

To Whom It May Concern:

Enclosed please find your copy of the approved Shoreline Substantial Development Permit. Appropriate copies have also been forwarded to the Department of Ecology and the Attorney General's Office.

If you have any questions, please call me at (253) 798-2789 or email tony.kantas@piercecountywa.gov.

Sincerely,



Tony Kantas
Senior Planner

TK:jk
SD977696-ECY

Enclosures

ec: Washington State Department of Ecology, smp@ecy.wa.gov
Brian Yearout, Washington State Parks & Recreation, Brian.Yearout@parks.wa.gov
Hannah Ross, Washington State Parks & Recreation, Hannah.Ross@parks.wa.gov
Ann Dinthongsai, RWD Landscape Architects, ann@rwdroll.com
Bob Droll, RWD Landscape Architects, bob@rwdroll.com

Pierce County
Planning & Public Works

Jen Tetatzin, PE, PMP — Director

2401 South 35th Street, Room 2
Tacoma, Washington 98409-7460
piercecountywa.gov/ppw

May 25, 2023

Sent via email only

Washington State Parks & Recreation Commission
Attn: Brian Yearout
1111 Israel Road SW
Olympia, WA 98504
Brian.Yearout@parks.wa.gov

Subject: SD App. No. 977696

Dear Mr. Yearout:

Enclosed is a copy of the Shoreline Substantial Development Permit that was transmitted to the Department of Ecology and the State Attorney General's Office for review. You will be notified by the Department of Ecology of the expiration date of the review period. You may begin development upon the finalization of Department of Ecology approval.

Sincerely,

Tony Kantas
Senior Planner

BB:jk
SD999782-ECY

Enclosures

ec: Washington State Department of Ecology, smp@ecy.wa.gov
U.S. Army Corps of Engineers, NWS-Compliance@usace.army.mil
Hannah Ross, Washington State Parks & Recreation, Hannah.Ross@parks.wa.gov
Ann Dinthongsai, RWD Landscape Architects, ann@rwdroll.com
Bob Droll, RWD Landscape Architects, bob@rwdroll.com

INDEX

Case No.:	SD App. No. 977696
Owner/Applicant:	State of Washington Parks & Recreation Commission Ann Dinthongsai & Bob Droll, RWD Landscape Architects

Date attached in PALS+	Development
5-10-23	Written Order
4-29-23	Nisqually SEPA DNS
1-27-23	Site Plan
1-10-22	Washington State SEPA
12-30-21	Master Application
12-30-21	JARPA
Various	Site Photos
Various	Correspondence
Various	Public Comments

WAC 173-27 [27]
Ecology Edition
WAC 173-27-990 Appendix A

Shoreline Management Act
Permit Data Sheet and Transmittal Letter

From: Pierce County
Planning and Public Works
2401 South 35th Street
Tacoma, WA 98409

To: Shoreline Permit Review
Department of Ecology
PO Box 47775
Olympia, WA 98504-7775

Date of Transmittal: May 25, 2023

Date of Receipt: _____

Type of Permit: (Indicate all that apply)
Substantial Development _X_; Conditional Use __; Variance ____; Revision ___; Other ___

Local Government Decision: Approval ___; Conditional Approval _X_; Denial ___

Owner Information:

State of Washington Parks & Recreation
Attn: Brian Yearout
1111 Israel Road SW
Olympia, WA 98504
Brian.Yearout@parks.wa.gov

Applicant Information:

RWD Landscape Architects
Attn: Ann Dinthongsai & Bob Droll
4405 – 7th Avenue SE, Suite 203
Lacey, WA 98503
ann@rwdroll.com
bob@rwdroll.com

Is the applicant the property owner? Yes __ No_X__

Location of the Property: 43371 Mashel Prairie Road East, Eatonville, WA 98328, within Section 25, Township 16N, R3E, W.M.

Water Body Names: Nisqually River, Ohop Creek

Shoreline of Statewide Significance: Yes __ No _X__

Environmental Designation: Natural Shoreline

Description of the Project: (Summary of the intended use of project purpose)

The proposed improvements requiring SD approval includes a trail system that comprises approximately 2,100 lineal feet of gravel and 350 lineal feet of boardwalk. A wood rail fence will be constructed along the Nisqually River to deter visitors from going off trail into habitat under mitigation enhancement. There are a total of three overlooks, each approximately 460 square feet in size.

The first encountered overlook is along the Nisqually River and is a crushed surface pad. The next two overlooks are along Ohop Creek and are a part of the boardwalk system. Approximately 623,700 square feet of the shoreline area between the trail/boardwalk and the Nisqually River will be mitigated with vegetation enhancement including invasive species removal and native plant restoration.

The proposed overall improvements associated with the park, but outside shoreline jurisdiction and requiring Zoning CUP approval includes a roundabout/park entry, a welcome center, a 61-site campground, Mashel River Trail & Overlook, RV dump station, maintenance building expansion, wastewater treatment plant, administration building, trail system, parking, a vault restroom, staff duplex, and utility improvements.

The site is in the Parks & Recreation (PR) zone classification and Natural Shoreline Environment, not within a Community Plan area, located at 43371 Mashel Prairie Road East, Eatonville, WA 98328, within Section 25, Township 16N, R3E, W.M., in Council District #3.

Notice of Application Date: January 13, 2022 **Final Decision Date**: May 10, 2023

By: Tony Kantas **Phone**: 253-798-2789
(Local government primary contact on this application)

[Statutory Authority: RCW 90.58.140(3) and [90.58].200. 96-20-075 (order 95-17), § 173-27-990, filed 9/30/96, effective 10/31/96.]

The following master program provisions are applicable to this development:

Shoreline Master Program
Natural Shoreline Environment
General Regulations and Policies

Development pursuant to this permit shall be undertaken pursuant to the following terms and conditions:

Planning:

1. Prior to construction and commencement of the use, the Applicant shall receive approval of the CUP (977691).

2. The applicant shall adhere to all conditions imposed by the CUP (977691).

3. The owners/applicants shall submit for building permits, where required, for construction of the boardwalk and lookouts. Additional requirements and conditions may be imposed through the County building permit review process.

4. The applicant shall follow all recommended conditions of the Cultural Resources Survey that was completed.

5. Pursuant to WAC 173-27-100, any substantial change to the design, terms, or conditions of the project shall be subject to approval of the Planning Department and may require further and additional review.

6. The applicant shall comply with to the Pierce County Inadvertent Archaeological and Historic Resources Discovery Plan (included as an appendix to this Written Order), in the event that any ground-disturbing or other project related activities associated with this development, or any future development of this site, uncover protected cultural materials (e.g., bones, shell, antler, horn or stone tools). The Pierce County Inadvertent Archaeological and Historic Resources Discovery Plan may also be found at https://www.co.pierce.wa.us/907/Master-Document-List.

Biologist Section:

7. The applicant shall record the Wetland App. No. 977698, Fish & Wildlife App. No. 977699.

8. Mitigation: The applicant proposes approximately 623,700 square feet of the shoreline restoration and mitigation enhancement. This area is located between the trail/boardwalk and the Nisqually River and includes invasive species removal and native plant restoration/enhancement.

9. The mitigation work will begin in December 2024 with an As-Built to be submitted to Pierce County within 30 days of completion. A minimum of three years of monitoring shall take place with monitoring reports submitted to Pierce County within 30 days of completion.

STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY
Southwest Region Office
PO Box 47775, Olympia, WA 98504-7775 • 360-407-6300

May 26, 2023

WA ST Parks & Recreation Commission
Brian Yearout
PO Box 42650
Olympia, WA 98504

Re: Pierce County Substantial Development Permit No. 977696
Ecology Permit No. 2023-SWRO-6937

Dear Brian Yearout:

On May 25, 2023, the Department of Ecology (Ecology) received notice that Pierce County (County) has approved with conditions your application for a Substantial Development Permit (SDP) to construct a trail system that comprises approximately 2,100 lineal feet of gravel and 350 lineal feet of boardwalk. A wood rail fence will be constructed along the Nisqually River to deter visitors from going off trail into habitat under mitigation enhancement. There are a total of three overlooks, each approximately 460 square feet in size. The project is located near 43371 Mashel Prairie Road E within a natural shoreline environment designation along the Nisqually River.

By law, local governments must review all SDPs for compliance with:

- The Shoreline Management Act (Chapter 90.58 RCW),
- The SDP approval criteria (WAC 173-27-150), and
- The Pierce County Shoreline Master Program.

Local governments, after reviewing SDPs for compliance, are required to submit them to Ecology. We have received your SDP.

What Happens Next?
Before you begin activities authorized by this permit, the law requires you wait at least 21 days from May 25, 2023, the "date of filing." This appeal period allows anyone (including you) who disagrees with any aspect of this permit to appeal the decision to the state Shorelines Hearings Board (SHB). You must wait for the conclusion of an appeal before you can begin the activities authorized by this permit.

The SHB will notify you if they receive an appeal. We recommend that you contact the SHB before you begin permit activities to ensure they have not received an appeal. You may reach them at 360-664-9160, eluho@eluho.wa.gov, or https://eluho.wa.gov/content/12.

If you want to appeal this decision, you can find appeal instructions at the SHB website above or on the website of the Washington State Legislature at: http://apps.leg.wa.gov/wac (Chapter 461-08 WAC).

Please note, other federal, state, and local permits may be required in addition to this shoreline permit.

If you have any questions about this letter, please contact Zach Meyer at 360-481-9885 or zachary.meyer@ecy.wa.gov.

Sincerely,

Donna Joblonski

Donna Joblonski
Administrative Assistant
Shorelands and Environmental Assistance Program

ec: Bob Droll, RWD Landscape Architects
Tony Kantas, Pierce Co. Planning & Public Works
Zach Meyer, Ecology

Attachment 4
Pierce County Critical Areas Approval

Pierce County

Office of the Pierce County Hearing Examiner

2401 South 35th Street, Room 2
Tacoma, Washington 98409-7460
(253) 798-7113

STEPHEN K. CAUSSEAUX, JR.
Pierce County Hearing Examiner

June 14, 2023

Washington State Parks and Recreation Commission
Attn: Brian Yearout
P.O. Box 42650
Olympia, WA 98504 -2650

RE: CONDITIONAL USE PERMIT: NISQUALLY STATE PARK
Application Number: 977691

Dear Applicant:

Transmitted herewith is the Report and Decision of the Pierce County Hearing Examiner regarding your request for the above-entitled matter.

Very truly yours,

STEPHEN K. CAUSSEAUX, JR.
Hearing Examiner

SKC/jjp
cc: Parties of Record

OFFICE OF THE HEARING EXAMINER

PIERCE COUNTY

REPORT AND DECISION

CASE NO.: **CONDITIONAL USE PERMIT: NISQUALLY STATE PARK**
Application Number: 977691

OWNER/APPLICANT: Washington State Parks and Recreation Commission
Attn: Brian Yearout
P.O. Box 42650
Olympia, WA 98504 -2650

AGENT: RWD Landscape Architects
Attn: Bob Droll
4405-7th Avenue S.E., Suite 203
Lacey, WA 98503

COUNTY CONTACT: Tony Kantas, Senior Planner

SUMMARY OF REQUEST:

Conditional Use Permit approval to allow Phases 2 and 3 of the Nisqually Park. The proposed application refers to three different phases of the park. Phase 1 has been completed. Phase 2 includes: Nisqually/Ohop Access (Trailhead, Single Vault Restroom, Trails, Boardwalk, & Overlooks @ Nisqually River & Ohop Creek), an Administration Building, Staff Duplex, and utilities. The trail includes approximately 2,100 LF of gravel and 350 LF will be boardwalk. Wood rail fence will be constructed along the Nisqually River to deter visitors from going off trail into habitat under mitigation enhancement. There are a total of three overlooks, each approximately 460 square feet. The first encountered overlook is along the Nisqually River and is a crushed surfacing pad. The next two overlooks are along Ohop Creek and are a part of the boardwalk system. Approximately 623,700 square feet of the shoreline area around the improvements will be mitigated with vegetation enhancement including invasive species removal and plant restoration. Phase 3 includes: a roundabout/park entry, a welcome center, a 61-site campground, Mashel River Trail & Overlook, RV dump station, maintenance building expansion, wastewater treatment plant, and utility improvements. The project site is within a Natural Shoreline Environment, Parks & Recreation (PR) zone classification, outside of a Community Plan area, located at 43371 Mashel Prairie Road East, Eatonville, within Section 25, T 1 6N, R 3E, W.M., in Council District #3.

SUMMARY OF DECISION: Request granted, subject to conditions.

DATE OF DECISION: June 14, 2023

PUBLIC HEARING:

After reviewing the Planning and Public Works Staff Report and examining available information on file with the application, the Examiner conducted a public hearing on the request as follows:

The hearing convened on June 7, 2023, at 1:00 p.m.

Parties wishing to testify were sworn in by the Examiner.

The following exhibits were submitted and made a part of the record as follows:

EXHIBIT 1 - Planning and Public Works Staff Report
EXHIBIT 2 - Application
EXHIBIT 3 - State Environmental Policy Act (SEPA)
EXHIBIT 4 - Agency Comments
EXHIBIT 5 - Public Comments/Party of Record
EXHIBIT 6 - Notice and Routing Documents
EXHIBIT 7 - Reports and Studies
EXHIBIT 8 - Site Information
EXHIBIT 9 - Site Plans
EXHIBIT 10 - Power Point Presentation
EXHIBIT 11 - Letter from Nisqually Indian Tribe dated June 5, 2023

The Minutes of the Public Hearing set forth below are not the official record and are provided for the convenience of the parties. The official record is the recording of the hearing that can be transcribed for purposes of appeal.

TONY KANTAS appeared, presented the Planning Division Staff Report and a power point presentation. He testified that Phase 1 of the park is complete, and then proceeded to describe the project. The park site consists of seven parcels that cover 1,300 acres and is located approximately three miles east of Eatonville. The horse trails and other amenities that are there now will continue. The trails are located within old logging road areas. The boardwalk will include a Nisqually Tribal history and will provide viewing areas of salmon spawning. The beach is an area where people can launch kayaks and tubes. The applicant submitted a complete application on December 20, 2021, and the State Park Commission served as lead agency for SEPA review. He has received phone calls from people wanting to ensure that the horse trails would remain and from one party that wanted to assure no properties would be condemned.

BOB DROLL appeared on behalf of the request and testified that since 2007 the State has partnered with the Nisqually Tribe for the purpose of allowing the park to reflect both the history of the Tribe and the achievement of the Tribes' goals for the river as well as providing recreation. Both parties provided extensive public outreach and as a result no members of the public commented on either SEPA review or the conditional use permit application. He then read Exhibit 11 into the record, a letter from the Nisqually Tribe fully supporting the permit and encouraging Pierce County to approve it as submitted. Phase 2 will improve salmon habitat along the river shoreline. He encourages approval subject to conditions. The State will submit Phase 3 in July, 2023, and hopes to complete it shortly thereafter. The alternative fire suppression methods were agreed to between the applicant and the Fire Prevention Bureau as they will provide sprinklers within the buildings. They propose 61 campsites, but even if the number changes, the improved area will not expand. They also provide seven campsites for equestrian use. They have also reached agreement and received a road deviation to allow the offroad trails as opposed to sidewalks. They have limited the proposed improvements within the river migration area on Overlook 1 to a path and overlook. Destruction of the improvement by river migration will not hurt the river. Overlooks 2 and 3 are next to Ohop Creek, much farther away from the migration area. Furthermore, it is doubtful if the river will have a catastrophic migration, so they will have time to react.

LISA BRECKENRIDGE, Nisqually Indian Tribe, appeared and testified that the Tribe is the lead entity for salmon recovery along the river. They have worked with staff over a long time period and the park plan is in accordance with their desires. The plan will improve salmon habitat along the river.

No one spoke further in this matter and the Hearing Examiner took the matter under advisement. The hearing was concluded at 1:30 p.m.

NOTE: A complete record of this hearing is available in the office of the Pierce County Planning and Public Works.

FINDINGS, CONCLUSIONS, AND DECISION:

FINDINGS:

1. The Hearing Examiner has admitted documentary evidence into the record, heard testimony, and taken this matter under advisement.

2. State Environmental Policy Act (SEPA): The Washington State Parks and Recreation Commission (State Parks) served as lead agency for SEPA review. Pursuant to the State Environmental Policy Act and the Pierce County Environmental Regulations, Title 18E, State Parks issued a threshold Determination of Nonsignificance (DNS) on December 22, 2021, with a comment deadline of January 12, 2022. No appeals were filed by the appeal deadline.

3. Legal and Public Notice:
   - January 13, 2022: Notice of Application (NOA) was sent to property owners within a radius of 300 feet, but not less than two parcels deep, around the exterior boundaries of the subject property.
   - January 24, 2022: Public Notice sign was posted on-site, confirmed with a Declaration of Posting.
   - May 22, 2023: Public Notice of the Examiner's Hearing was sent to property owners within a radius of 300 feet, but not less than two parcels deep, around the exterior boundaries of the site.
   - May 24, 2023: Legal notice was published in the official County newspaper (Tacoma News Tribune) advertising the hearing to be held by the Pierce County Hearing Examiner.

4. The applicant, Washington State Parks and Recreation Commission (State), has secured ownership of seven, contiguous parcels of property containing approximately 1,300 acres of mostly forested land situated generally on the north side of the Nisqually River between Ohop Creek and the Mashel River. State and the Nisqually Indian Tribe (Tribe) have worked together since 2007 to design and develop the Nisqually State Park on the site. State also involved the Eatonville community by soliciting public input at a series of four public meetings in the Eatonville area as well as at meetings sponsored by the Eatonville Chamber of Commerce and the Tribe. As a result of its work with the community and the Tribe, no one spoke in opposition to or commented on either the SEPA review of the entire project or the conditional use permit application.

5. State adopted a "Master Plan and Classification and Management Plan" (Plan) for the Nisqually State Park in 2010. The Plan proposed development of the 1,300 acres into a park in three phases. Phase 1 included a parking lot and trailhead area, information kiosk, ADA vault toilet, horse trailer stalls, and a hitching post. State successfully developed Phase 1 and also obtained a shoreline substantial development permit from Pierce County for the improvements located within the shoreline jurisdiction. Improvements included a trail system that comprised approximately 2,100 lineal feet of gravel and 350 lineal feet of boardwalk; a wood rail fence; three overlooks approximately 460 square feet in size; and vegetation enhancement and removal of invasive species along 623,700 square feet of Nisqually River shoreline.

6. State now requests a conditional use permit that will allow improvements associated with Phases 2 and 3 of the park located primarily outside of the shoreline jurisdiction. Improvements will include a roundabout intersection at the park entrance road from SR-7; welcome station; RV dump station; pumphouse and reservoir; staff residence duplex; firewood shed; five group shelters; three comfort stations; water spigots and dishwater dry well; dumpster enclosures; Mashel River overlook; parking stalls to include ADA stalls and electric vehicle charging stalls; 61

campsites to include cabins; tents; equestrian, backin, RV sites; ADA campsites; RV sites; bus and boat trailer parking; trailhead parking area; and trails, boardwalks, and overlooks along the Nisqually River and Ohop Creek.

7. Construction that will occur in Phase 2 includes the entry roundabout; staff duplex; administration building; trails, restrooms and overlooks; and utilities that will include power, cell phone, water, and sewer. Phase 3 construction will include the campground loop, campground restrooms, Mashel River overlook, RV dump station, welcome center, completion of the maintenance building commenced in Phase 1; a wastewater treatment plant; and utility connections. The administration building will contain 3,700 square feet and the duplex 3,400 square feet (1,700 square feet per unit). The water facility will consist of a 238,000-gallon reservoir and a 630 square foot pumphouse. State has applied for a water right from the State Department of Ecology. The welcome center will consist of an 800 square foot structure near the park entrance. The campgrounds will have a park host campsite, two restrooms with showers, and two picnic shelters. The campgrounds will also support the firewood shed, dump station, and a trash compactor. The wastewater treatment plant will consist of a membrane bioreactor to treat park generated effluent that will then be infiltrated into the soil at a 1-1.5-acre, drainfield area. The trail systems will overlay the locations of old logging roads and will require limited to no shoreline vegetation removal. The trail system and boardwalk will educate park users of the Nisqually Indian Tribe's history and culture, as well as the lifecycle of salmon with interpretative signage and overlooks that will allow park users to witness salmon spawning.

8. Abutting uses include the Nisqually River to the north, undeveloped property owned by the City of Tacoma to the west, and Ohop Creek to the east. All abutting parcels are located in the Rural 10 (R10) zone classification with the exception of the Nisqually River that has no zoning. Unincorporated Thurston County is located to the south of the Nisqually River. The site itself is located within the Parks and Recreation (PR) zone classification of the Pierce County Code (PCC) and is not within a community plan area.

9. State submitted a completed application for a conditional use permit on December 20, 2021, and vested the application for consideration under Pierce County Development Regulations in effect on said date. Along with the application State submitted a property survey; Traffic Impact Analysis; Geotechnical Engineering Reports; Landslide Hazard Assessment; Channel Migration and Zone Delineation Study; Critical Areas Report; Habitat Assessment; Marbled Murrelet Habitat Assessment; Forest Health Plan; and Cultural Resources Survey.

10. On September 1, 2022, State submitted a "Request for Alternative Methods or Materials" to the Pierce County Fire Prevention Bureau that requested alternative means to the requirement of providing fire flow (Exhibit 2F). According to testimony, the Pierce County Fire Prevention Bureau approved the request that requires the

applicant to provide sprinkler systems within the buildings. The applicant also submitted a "Public Road Deviation Request" regarding the requirements for a five-foot, minimum width sidewalk within the rights-of-way of roads within the park. The Pierce County Planning and Public Works Department and Development Engineering approved the deviation noting the trails and other walkways that provide safe and appropriate pedestrian facilities.

11. Table 18A.17.010 PCC sets forth "Use Categories and Use Types" for zone classifications outside of a community plan area. Said Table authorizes Level 3 Public Park Facilities within the PR zone classification subject to acquisition of a conditional use permit. Section 18A.33.220(G) PCC defines Level 3 Public Parks as follows:

> Level 3: Regional Parks. Regional parks attract visitors from throughout the region and which may provide access to significant ecological, cultural, historical features or unique facilities.

State's proposed park improvements meet the definition of a regional park, and therefore State has properly applied for a conditional use permit.

12. Prior to obtaining a conditional use permit State must show that the request satisfies the criteria set forth in PCC 18A.75.030. State in Exhibit 2B provide its response to all conditional use criteria set forth in PCC 18A.75.030(B). Staff has reproduced State's response to the conditional use criteria on pages 24-32 of the Staff Report and finds:

> Staff concurs with the findings the applicant has provided to approve a CUP.

The Examiner agrees with staff's evaluation of State's response to the conditional use permit criteria and adopts said responses as his own as if set forth in full herein.

13. In accordance with Title 18E PCC the Pierce County Development Regulations-Critical Areas, State's Critical Areas and Habitat Reports identify 37 wetlands either on or within 315 feet of the project site, all of which will be protected. The Pierce County wetlands biologist reviewing the matter has submitted conditions of approval imposed hereinafter that assure protection of the wetlands and buffers.

14. State's Critical Areas Report also identifies three, regulated, Type F1 water systems that are located on the project, namely the Nisqually River, Ohop Creek, and the Mashel River. All three water bodies support salmon and recommended conditions of approval assure protection of said waters.

15. The project satisfies all Countywide Design Standards and Guidelines set forth in Title 18J PCC as set forth on pages 33-35 of the Staff Report. Said standards and guidelines include requirements for site design; tree conservation; landscape buffers; off-street parking, pedestrian, bus, and bicycle facilities; exterior illumination; parking lot landscaping; mechanical equipment and outdoor storage screening; and storm drainage.

16. As previously found State has worked closely with the Nisqually Indian Tribe on the design and development of the park since 2007. Willie Frank, III, Chair, submitted a letter to Mr. Tony Kantas, senior planner, expressing the Tribe's full support of the project. Mr. Frank wrote in part:

> ...Washington State Parks has worked thoughtfully to incorporate protections for natural and cultural resources into the design of the park.
>
> We've worked particularly closely on the plans for those parts of the project located in the riparian zone...I'm pleased to be able to say that we expect the Phase 2 project to result in improved salmon habitat compared to the current condition.
>
> I encourage Pierce County to approve the conditional use permit as submitted.

Thus, both State and Tribe encourage approval of the conditional use permit authorizing park improvements that will benefit the public, the environment, and the Tribe.

CONCLUSIONS:

1. The Hearing Examiner has the jurisdiction to consider and decide the issues presented by this request.

2. The applicant has shown that the request for a conditional use permit to allow construction of Phases 2 and 3 of the Nisqually State Park satisfies all criteria set forth in PCC 18A.75.030(B) and therefore should be approved subject to compliance with the following conditions:

    1. The site development permit and building permit must comply with the parking requirements of Chapter 18A.35 and 18J.15.090.

    2. All exterior lighting shall comply with the requirements of PCC 18J.15.085.

    3. The applicant shall comply with all conditions of the Written Order for Shoreline Substantial Development Permit, application #977696.

4. The applicant shall comply with the Pierce County Inadvertent Archaeological and Historic Resources Discovery Plan (included as an Appendix to this Staff Report), in the event that any ground-disturbing or other project related activities associated with this development, or any future development of this site, uncover protected cultural materials (e.g., bones, shell, antler, horn or stone tools). The Pierce County Inadvertent Archaeological and Historic Resources Discovery Plan may also be found at https://www.co.pierce.wa.us/907/Master-Document-List.

5. A storm drainage plan must be submitted to the Development Engineering Section as part of the site development plans. The drainage plans shall be in accordance with Ordinance 2021-45, Title 17A, Construction and Infrastructure Regulations – Site Development and Stormwater Drainage.

6. The project must be developed in accordance with Ordinance 2022-7s, Title 17B – Road and Bridge Design and Construction Standards.

7. Roundabout Construction & Improvements to Mashel Prairie Road East:

   a. The applicant shall coordinate all design and construction plans with WSDOT and Pierce County. Coordinate with WSDOT regarding striping/marking requirements and lighting and RRFB requirements. An Intersection Control Evaluation may also be needed – this will be determined by WSDOT.
   b. The applicant should be aware that as part of the roundabout construction, WSDOT will need to take a portion of Mashel Prairie Road East as their right of way. This right of way shall extend to the end of the striping taper for the splitter island, unless otherwise agreed by Pierce County.
   c. The applicant shall coordinate with Pierce County on all design and construction of Mashel Prairie Road East. Six-foot paved shoulders and minimum 12-foot lanes shall be required in all areas with center line striping. Center line striping shall extend a minimum of 120 feet beyond the striping taper for the roundabout splitter island.

8. Future phases of the project will require submittal of separate TIA to address full build-out condition.

9. Traffic Impact Fees will be assessed in conformance with Title 4A Impact Fees. As this is a non-typical project, it is anticipated that the Traffic Impact Rate will need to be determined after approval of the Traffic Analysis via an Independent Rate Calculation performed by Pierce County.

10. The improvements along the Nisqually River are within a Flood Hazard Area and will need to meet Title 18E Critical Areas requirements. These areas should be delineated & shown on the Site Development plans. All delineated flood hazard areas and flood calculations shall be reviewed and approved by PPW Surface Water Division prior to issuance of any site development permit.

11. The applicant shall sign, notarize, and record the Wetland Area Buffer Notice and Conditions of Wetland, Fish & Wildlife Approval (App. No. 977698 & 977699) issued April 25, 2022, with the Pierce County Auditor's Office.

12. Mitigation: The applicant proposes approximately 623,700 square feet of the shoreline restoration and mitigation enhancement. This area is located between the trail/boardwalk and the Nisqually River and includes invasive species removal and native plant restoration/ enhancement.

13. The mitigation work will begin in December 2024 with an As-Built to be submitted to Pierce County within 30 days of completion. A minimum of three years of monitoring shall take place with monitoring reports submitted to Pierce County within 30 days of completion 977698. Prior to Final Wetland Approval being issued, identify the boundaries of the critical areas and buffers in accordance with Section 18E.10.080 G. of Title 18E, Development Regulations-Critical Areas.

14. Critical Area signage shall be installed in accordance with 18E.10.080.G.3.

15. A Declaration of Posting shall be provided once the required signage is installed.

16. The decision set forth herein is based upon representations made and exhibits, including plans and proposals submitted at the hearing conducted by the hearing examiner. Any substantial change(s) or deviation(s) in such plans, proposals, or conditions of approval imposed shall be subject to the approval of the hearing examiner and may require further and additional hearings.

17. The authorization granted herein is subject to all applicable federal, state, and local laws, regulations, and ordinances. Compliance with such laws, regulations, and ordinances is a condition precedent to the approvals granted and is a continuing requirement of such approvals. By accepting this/these approvals, the applicant represents that the development and activities allowed will comply with such laws, regulations, and ordinances. If, during the term of the approval granted, the development and activities permitted do not comply with such laws, regulations, or ordinances, the applicant agrees to promptly bring such development or activities into compliance.

DECISION:

The request for a conditional use permit to allow construction of Phases 2 and 3 of the Nisqually State Park located at 43371 Mashel Prairie Road East, Eatonville, is hereby granted subject to compliance with the conditions set forth in the conclusions above.

ORDERED this 14th day of June, 2023.

STEPHEN K. CAUSSEAUX, JR.
Hearing Examiner

TRANSMITTED this 14th day of June, 2023, to the following:

OWNER/APPLICANT: Washington State Parks and Recreation Commission
Attn: Brian Yearout
P.O. Box 42650
Olympia, WA 98504 -2650
brian.yearout@parks.wa.gov

AGENT: RWD Landscape Architects
Attn: Bob Droll
4405-7th Avenue S.E., Suite 203
Lacey, WA 98503
bob@rwdroll.com

OTHERS:

Sweetpea.kern@gmail.com
ann@rwdroll.com
Hannah.ross@parks.wa.gov
kdhtacoma@yahoo.com

PIERCE COUNTY PLANNING AND PUBLIC WORKS
PIERCE COUNTY BUILDING DIVISION
PIERCE COUNTY DEVELOPMENT ENGINEERING DEPARTMENT
PIERCE COUNTY PUBLIC WORKS AND UTILITIES DEPARTMENT
TACOMA-PIERCE COUNTY HEALTH DEPARTMENT
FIRE PREVENTION BUREAU
PIERCE COUNTY PARKS AND RECREATION
PIERCE COUNTY COUNCIL
PIERCE COUNTY RESOURCE MANAGEMENT
PIERCE COUNTY CODE ENFORCEMENT

CASE NO.: CONDITIONAL USE PERMIT: NISQUALLY STATE PARK
Application Number: 977691

NOTICE

1. RECONSIDERATION:

Any aggrieved party or person affected by the decision of the Examiner may file with the Department of Planning and Land Services a written request for reconsideration including appropriate filing fees within seven (7) working days in accordance with the requirements set forth in Section 1.22.130 of the Pierce County Code.

2. APPEAL OF EXAMINER'S DECISION:

The final decision by the Examiner may be appealed in accordance with Ch. 36.70C RCW.

NOTE: In an effort to avoid confusion at the time of filing a request for reconsideration, please attach this page to the request for reconsideration.

Pierce County
Planning & Public Works

Jen Tetatzin, PE, PMP — Director

2401 South 35th Street, Room 2
Tacoma, Washington 98409-7460
piercecountywa.gov/ppw

Sent via Email and Regular Mail

April 25, 2022

RWD Landscape Architects
4405 – 7th Avenue SE, Suite 203
Lacey, WA 98503
ann@rwdroll.com
bob@rwdroll.com

Subject: Wetland Review and Approval for Phase 2 and 3 of the Nisqually State Park Phase 2-3, Parcel No. 0416173022, 0416201006, 0416202008, 0416202007, 0416194008, 0416302008 and 0316251003, Wetland App. No. 977698, Fish & Wildlife App. No. 977699

Dear Applicant:

We have completed review of the application materials submitted to Pierce County, and have the following comments:

- A site visit was made by me on December 6, 2021 and April 22, 2022 to review the critical areas in the project area.
- We are in general agreement with the report titled "The Watershed Company. January 2021. Nisqually State Park – New Full Service Park, Critical Areas Report," dated February 2022, prepared by The Watershed Company.
- We concur that 37 wetlands exist within 315-feet of the project area.
- We concur that 11 of the wetlands were correctly rated as Category II Wetlands (Wetlands (OO), FF, EE, GG, (D), CCC, VV, Z, NN, ZZ, and AAA). Apart from Wetlands FF, VV, and (OO), all the other Category II wetlands have a base buffer of 100-feet, adjusted to 150-feet for land use intensity and habitat function. Wetlands FF and VV have a base buffer of 110-feet adjusted to 110-feet for land use intensity and wetland characteristics. Wetland (00) has a base buffer of 100-feet, adjusted to 75-feet for land use intensity and wetland characteristics. All Category II wetlands also have an additional 15-foot building setback.
- We concur that 26 of the wetlands were correctly rated as Category III Wetlands (Wetlands CC, (DDD), H, QQ, (II), (JJ), (KK), (LL), (MM), (G), (I), HH, (GGG), FFF, (EEE), A, C, RR, SS, TT, UU, WW, XX, B, YY, and BBB). Wetlands CC, (DDD), H, QQ, (II), (JJ), (KK), (LL), (MM), (G), (I), (GGG), FFF, (EEE), A, WW, and XX have a base buffer of 50-feet, adjusted to 110-feet for land use intensity and wetland characteristics. Wetlands HH, B, YY, BBB have a base buffer of 50-feet adjusted to 75-feet for land use intensity and wetland characteristics. Wetlands C, RR, SS, TT, and UU have a base buffer of 50-feet. All Category III wetlands also have an additional 15-foot building setback.
- Three regulated Pierce County Type F1 Water systems run through the project location (Nisqually River, Ohop Creek, and Mashel River). All three systems are salmonid-bearing Type F1 Waters requiring a 150-foot buffer (PCC 18E.40.060), measured perpendicular to the ordinary high-water mark.
- Prior to Final Wetland Approval being issued, identify the boundaries of the critical areas and buffers in accordance with Section 18E.10.080 G. of Title 18E, Development Regulations-Critical Areas.

I have prepared the attached Critical Area Approval documents below. In order to finalize the review process, please do the following:

Identify the boundaries of the critical area and buffer in accordance with Section 18E.10.080 G. of Title 18E, Development Regulations - Critical Areas.

Section 18E.10.080 G.1. states: *"The Department may require the outer edge of the critical area boundaries or, if applicable, required buffer boundaries on the site to be flagged by a qualified professional.... These boundaries shall then be identified with permanent markers and located by a licensed surveyor, unless otherwise stated in this Title."*

Section 18E.10.080 G.3. states: "*The Department may require permanent signage to be installed at the edge of the critical area or, if applicable, the edge of the required buffer. Exact sign locations, wording, size, and design specifications shall be established by the Department.*

The permanent markers and required signage shall be clearly visible, durable, and permanently affixed to the ground. The markers and signs are to be installed on the outer edge of the critical area or buffer so that they mark the boundary between the critical area or buffer and the developed portion of the site. The signs shall face away from the critical area and must be placed on posts installed securely in the ground. Posts can be metal or wood. If wood posts are used, they must be treated and no less than 4" x 4" in size. Posts must extend a minimum of three feet above ground and be sunk at least two feet below ground. Signs must be located visibly and are to be placed every 30 to 50 feet, **or** sufficiently close to each other to allow observation of successive signs. The signs shall state, "Wetland/Stream/Fish & Wildlife Buffer Boundary" (see enclosed Wetland Buffer Boundary Sign Standards). You may install the signs yourself, or they may be installed by your consultant or a licensed surveyor. In accordance with 18E.10.080.G, fencing is required around portions of the developed area to delineate the critical area from the developed area.

- Once the required signage is installed provide the Declaration of Posting.
- Have the property owner sign, date and notarize the enclosed Wetland Area/Buffer Notice (Page 2)
- Sign and date Page 5 of the approval.
- After the Notice and Approval are completed, record **All 6 Pages** of the Approval at the Pierce County Auditor's Office. Once the approval is recorded, please email me the 12-digit Auditor's Recording Number (AFN).
- **Please call the Auditor's Office first to talk with a Recording Technician for recording fee amount and instructions at 253-798-7440. I have also attached a list of companies that do electronic recordings for a small fee.**

If you have any questions on this process or the attached Conditions of Approval, please feel free to call me at (253) 548-5802 or email me at jamison.grzyb@piercecountywa.gov.

Sincerely,

Jamison Grzyb
Environmental Biologist II

JG:ds
589472 NisquallyStatePark_Approval.docx

Enclosures: Approval Document (6 Pages)
Critical Area Buffer Boundary Sign Standards and Declaration of Posting
List of Companies that do Electronic Recordings

cc: Washington State Parks & Recreation Commission, Brian.Yearout@parks.wa.gov
Aaron Petersen, GIS Specialist

Return to:
State of Washington
Parks & Recreation
PO Box 42650
Olympia, WA 9850404

PIERCE COUNTY PLANNING & PUBLIC WORKS
WETLAND AREA/BUFFER NOTICE
APPLICATION NUMBER: 977698 & 977699

Grantor*: State of Washington, Property Owner
Grantee*: State of Washington, Property Owner
*The terms grantor and grantee are for indexing purposes only.

Property Address: Mashel Prairie Road East

Assessor's property tax parcel numbers: 0416173022, 0416201006, 0416202008, 0416202007, 0416194008, 0416302008, 0316251003

Legal description (abbreviated: i.e., lot, block, subdivision name/number or quarter/quarter section, township, range): **0416173022** Section 17 Township 16 Range 04 Quarter 34 E 1/2 OF SW LY SLY OF NATL PRK HWY (SR 7) ALSO THAT POR OF SE LY S OF NATL PRK HWY & NWLY OF MEDICAL SPRINGS CO RD OUT OF 3-019 SEG K-0470 CH/JU 4/22/99 JU **0416201006** Section 20 Township 16 Range 04 Quarter 11 : NE OF NE EXC FOLL COM AT NE COR OF SEC TH W 481.7 FT TO POB TH CONT W 607.3 FT TH S 316 FT TH E 607.3 FT TH N 316 FT TO POB ALSO N 1/2 OF NW OF NE EXC THAT POR LY NWLY OF C/L OF MEDICAL SPRINGS CO RD ALSO E 1/2 OF SW OF NE ALSO THAT POR OF SE OF NE LY NLY OF MASHEL RIVER EXC FOLL COM AT NE COR OF SEC 20 TH W 955.30 FT TH S 1244.57 FT TO POB TH S 54 DEG 17 MIN 44 SEC E 555.36 FT TH S 47 DEG 34 MIN 23 SEC W 467.07 FT TH N 77 DEG 15 MIN W 489.8 FT TH N 35 DEG 42 MIN 16 SEC E 651.61 FT TO POB ALSO THOSE POR OF N 1/2 OF NW OF SEC 21 LY SLY & WLY OF C/L OF NATL PARK HWY & NLY OF NLY R/W OF WEYERHAEUSER 5212 RD & THAT POR OF W 370 FT OF W 1/2 OF NW SD SEC 21 LY NLY OF SD 5212 RD ALSO THOSE POR OF S 1/2 OF SE SEC 17 LY SLY OF C/L OF NATL PARK HWY EXC THAT POR OF SW OF SD SE LY NWLY OF C/L OF NATL PARK HWY & BET NLY PROJ OF E & W LI OF FOLL DESC PROP COM AT NE COR OF SEC 20 TH W 481.7 FT TO POB TH W 607.3 FT TH S 316 FT TH E 607.3 FT TH N 316 FT TO POB OUT OF1-005, 04-16-17-3-019 & 04-16-21-2-015 SEG K-0470 CH/JU 4/22/99 JU DC 7-19-00 CK **0416202008** Section 20 Township 16 Range 04 Quarter 23 THAT POR OF NW OF NE LY NWLY OF MEDICAL SPRINGS CO RD ALSO THOSE POR OF E 1/2 OF NW & SW OF NW & NW OF SW LY WLY OF MEDICAL SPRINGS CO RD SUBJ TO TRANS LI EASE DESIGNATED FOREST LAND RCW 84.33 1972 65.24 ACS OUT OF 1-005 SEG K-0470 CH/JU 4/22/99JU **0416202007** Section 20 Township 16 Range 04 Quarter 24 S 1/2 OF NW OF NE ALSO W 1/2 OF SW OF NE ALSO THOSE POR OF NE OF NW & S 1/2 OF NW LY SELY OF C/L OF MEDICAL SPRINGS CO RD ALSO N 1/2 OF NE OF SW ALSO THAT POR OF NW OF SW LY NLY OF NLY R/W LI OF WEYERHAEUSER 5000 RD & SELY OF C/L OF MEDICAL SPRINGS CO RD ALSO THAT POR OF NW OF SE DESC AS FOLL BEG AT NW COR OF NW OF SE TH E ALG N LI SD NW OF SE TO NE COR THEREOF TH S ALG E LI SD SUBD TO MASHEL RIVER TH WLY, NWLY & SWLY ALG SD RIVER TO S LI OF N 1/2 OF NW OF SE TH W ALG SD S LI TO W LI SD NW OF SE TH N ALG SD W LI TO POB ALSO THAT POR OF NE OF SE OF SEC 19 LY NLY OF NLY R/W LI OF WEYERHAEUSER 5000 RD & SELY OF C/L OF MEDICAL SPRINGS CO RD SUBJ TO EASE OUT OF 1-004 & 04-16-19-1-009 SEG H-0228 CH/JU 8/30/95JU **0416194008** Section 19 Township 16 Range 04 Quarter 34 SE OF NE ALSO SE OF SW ALSO W 1/2 OF SE & NE OF SE EXC THAT POR LY SELY OF C/L OF MEDICAL SPRINGS CO RD OUT OF 1-009 SEG H-0228 CH/JU 8/30/95JU **0416302008** Section 30 Township 16 Range 04 Quarter 22 L 1 & N 3/4 OF L 2 & THAT PART OF NE OF NW LY NLY OF FOLL DESC LI BEG AT A PT 386.93 FT S 00 DEG 37 MIN 10 SEC W OF N 1/4 COR TH S 42 DEG 29 MIN 01 SEC W 216.6 FT TH S 56 DEG 55 MIN 56 SEC W 1389.18 FT TO TERM OF SD LI OUT OF 2-001 SEG S-0058 CH ES **0316251003** Section 25 Township 16 Range 03 Quarter 14 THAT POR OF NE, SE OF NW & N 1/2 OF SE OF SD SEC 25 LY WITHIN FOLL DESC LI: BEG AT INTER OF N LI OF SD SEC 25 & C/L OF OHOP CREEK TH E ALG SD N LI TO E LI OF SD SEC 25 TH S ALG SD E LI TO INTER/W C/L OF NISQUALLY RIVER TH NWLY, SWLY, & NWLY ALG SD C/L OF NISQUALLY RIVER TO INTER/W C/L OF OHOP CREEK TH NELY ALG SD C/L OF OHOP CREEK TO N LI OF SD SEC 25 & POB TOG/W EASE RESTR & RESERV OF REC DESIGNATED FOREST LAND RCW 84.33 1972 108.50 AC SD/JK OUT OF 1-001 SEG 2005-0393 9/23/04JK

Size of wetland and wetland buffer areas (in square feet) located on the property:

Wetland/Drainage	Category	On-Site Wetland/Drainage Area	On-Site Buffer Area	Total Wetland/Drainage and Buffer Area On-Site
Nisqually River	F1	Not Determined	Not Determined	Not Determined
Ohop Creek	F1	Not Determined	Not Determined	Not Determined
Mashel River	F1	Not Determined	Not Determined	Not Determined
(OO)	II	Not Determined	Not Determined	Not Determined
FF	II	Not Determined	Not Determined	Not Determined
EE	II	Not Determined	Not Determined	Not Determined
GG	II	Not Determined	Not Determined	Not Determined
(D)	II	Not Determined	Not Determined	Not Determined
CCC	II	Not Determined	Not Determined	Not Determined
VV	II	Not Determined	Not Determined	Not Determined
Z	II	Not Determined	Not Determined	Not Determined
NN	II	Not Determined	Not Determined	Not Determined
ZZ	II	Not Determined	Not Determined	Not Determined

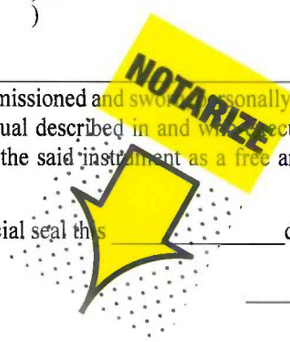
AAA	II	Not Determined	Not Determined	Not Determined
CC	III	Not Determined	Not Determined	Not Determined
(DDD)	III	Not Determined	Not Determined	Not Determined
H	III	Not Determined	Not Determined	Not Determined
QQ	III	Not Determined	Not Determined	Not Determined
(II)	III	Not Determined	Not Determined	Not Determined
(JJ)	III	Not Determined	Not Determined	Not Determined
(KK)	III	Not Determined	Not Determined	Not Determined
(LL)	III	Not Determined	Not Determined	Not Determined
(MM)	III	Not Determined	Not Determined	Not Determined
(G)	III	Not Determined	Not Determined	Not Determined
(I)	III	Not Determined	Not Determined	Not Determined
HH	III	Not Determined	Not Determined	Not Determined
(GGG)	III	Not Determined	Not Determined	Not Determined
FFF	III	Not Determined	Not Determined	Not Determined
(EEE)	III	Not Determined	Not Determined	Not Determined
A	III	Not Determined	Not Determined	Not Determined
C	III	Not Determined	Not Determined	Not Determined
RR	III	Not Determined	Not Determined	Not Determined
SS	III	Not Determined	Not Determined	Not Determined
TT	III	Not Determined	Not Determined	Not Determined
UU	III	Not Determined	Not Determined	Not Determined
WW	III	Not Determined	Not Determined	Not Determined
XX	III	Not Determined	Not Determined	Not Determined
B	III	Not Determined	Not Determined	Not Determined
YY	III	Not Determined	Not Determined	Not Determined
BBB	III	Not Determined	Not Determined	Not Determined

NOTICE: This property contains wetlands or wetland buffers as defined by Title 18E, Pierce County Code. Restrictions on use or alteration of the site may exist due to natural conditions of the property and resulting regulations.

_____ _____

Date Signature of Property Owner(s)

NOTARY:
STATE OF WASHINGTON)
) ss
COUNTY OF PIERCE)



On this _____ day of _____, before me, the undersigned, a Notary Public in and for the State of Washington, duly commissioned and sworn, personally appeared _____ to me known to be the individual described in and who executed the foregoing instrument, and acknowledged to me that he/she/they signed and sealed the said instrument as a free and voluntary act and deed for the uses and purposes therein mentioned.

Given under my hand and official seal this _____ day of _____, _____.

_____
Notary Public in and for the State of Washington

Residing at _____

My commission expires _____

_____
AFFIX SEAL OR STAMP ABOVE THIS LINE

JG:ds
589472 NisquallyStatePark_Approval.docx

CONDITIONS OF WETLAND, FISH & WILDLIDE APPROVAL

Project Description: **Phase 2**: Roundabout Park Entry, Staff Residence, Administration Building, Nisqually/Ohop Access (Trailhead, Single Vault Restroom, Trails, Boardwalk, & Overlooks at Nisqually River & Ohop Creek), Utilities: Power, Telecom, Water & Sewer **AND Phase 3**: Campground Loop, Campground Restrooms, Mashel River Overlook, RV Dump Station, Welcome Center, Completion of Maintenance Building, Utility connection: Power, Telecom, Water, & Sewer.

Parcel Numbers: 0416173022, 0416201006, 0416202008, 0416202007, 0416194008, 0416302008 & 0316251003

Site Address: Mashel Prairie Road East

Date of Issuance: April 25, 2022

Date All Construction Must Be Completed: April 25, 2027

The following conditions are based upon the site visit conducted by Pierce County Planning & Public Works staff and the wetland application.

A site visit was made by me on December 6, 2021 and April 22, 2022 to review the critical areas in the project area.

We are in general agreement with the report titled "The Watershed Company. January 2021. Nisqually State Park – New Full Service Park, Critical Areas Report," dated February 2022, prepared by The Watershed Company.

We concur that 37 wetlands exist within 315-feet of the project area.

We concur that 11 of the wetlands were correctly rated as Category II Wetlands (Wetlands (OO), FF, EE, GG, (D), CCC, VV, Z, NN, ZZ, and AAA). Apart from Wetlands FF, VV, and (OO), all the other Category II wetlands have a base buffer of 100-feet, adjusted to 150-feet for land use intensity and habitat function. Wetlands FF and VV have a base buffer of 110-feet adjusted to 110-feet for land use intensity and wetland characteristics. Wetland (00) has a base buffer of 100-feet, adjusted to 75-feet for land use intensity and wetland characteristics. All Category II wetlands also have an additional 15-foot building setback.

We concur that 26 of the wetlands were correctly rated as Category III Wetlands (Wetlands CC, (DDD), H, QQ, (II), (JJ), (KK), (LL), (MM), (G), (I), HH, (GGG), FFF, (EEE), A, C, RR, SS, TT, UU, WW, XX, B, YY, and BBB). Wetlands CC, (DDD), H, QQ, (II), (JJ), (KK), (LL), (MM), (G), (I), (GGG), FFF, (EEE), A, WW, and XX have a base buffer of 50-feet, adjusted to 110-feet for land use intensity and wetland characteristics. Wetlands HH, B, YY, BBB have a base buffer of 50-feet adjusted to 75-feet for land use intensity and wetland characteristics. Wetlands C, RR, SS, TT, and UU have a base buffer of 50-feet. All Category III wetlands also have an additional 15-foot building setback.

Three regulated Pierce County Type F1 Water systems run through the project location (Nisqually River, Ohop Creek, and Mashel River). All three systems are salmonid-bearing Type F1 Waters requiring a 150-foot buffer (PCC 18E.40.060), measured perpendicular to the ordinary high-water mark.

Prior to Final Wetland Approval being issued, identify the boundaries of the critical areas and buffers in accordance with Section 18E.10.080 G. of Title 18E, Development Regulations-Critical Areas.

This wetland approval contains conditions that have been placed on the site to allow for **Phase 2**: Roundabout Park Entry, Staff Residence, Administration Building, Nisqually/Ohop Access (Trailhead, Single Vault Restroom, Trails, Boardwalk, & Overlooks at Nisqually River & Ohop Creek), Utilities: Power, Telecom, Water & Sewer **AND Phase 3**: Campground Loop, Campground Restrooms, Mashel River Overlook, RV Dump Station, Welcome Center, Completion of Maintenance Building, Utility connection: Power, Telecom, Water, & Sewer on parcel numbers 0416173022, 0416201006, 0416202008, 0416202007, 0416194008, 0416302008, and 0316251003. Approvals are valid for the same time period as the underlying permit.

If the underlying permit does not contain a specified expiration date, then approvals granted under this Title shall be valid for a period of three years from the date of issuance. A building, which was not completed within the above specified time period, and any newly proposed construction may undergo additional wetland review. If none of the approved activities or construction occurs on the site within the above time period, the wetland approval shall be considered null and void upon expiration, unless a time extension is requested within 60 days prior to the expiration of the approval. The site is still subject to all existing wetland regulations. Construction of any part of the proposal validates the wetland approval and requires that the conditions be met.

The issuance of this wetland approval does not constitute approval of this project by other departments or agencies with jurisdiction. The applicant must comply with all other applicable requirements of Pierce County Departments and other state and federal agencies with jurisdiction. Further development on this site may require additional environmental and wetland review.

The following list defines activities that are regulated within critical fish and wildlife habitat areas, wetlands, erosion hazard areas, flood hazard areas, and/or their buffers unless **exempted by Section 18E.20.030** or allowed pursuant to this Approval document:

1. Removing, excavating, disturbing, or dredging soil, sand, gravel, minerals, organic matter, or materials of any kind;
2. Dumping, discharging or filling;
3. Draining, flooding or disturbing the water level or water table. In addition, an activity which involves intentional draining, flooding or disturbing the water level or water table in a wetland or stream in which the activity itself occurs outside the regulated area may be considered a regulated activity;
4. Driving piling or placing obstructions, including placement of utilities;
5. Constructing, reconstructing, demolishing, or altering the size of any structure or infrastructure;
6. Altering the character of a regulated area by destroying or altering vegetation through clearing, harvesting, cutting, intentional burning, shading, or planting;
7. Activities which result in significant changes in water temperature or physical or chemical characteristics of wetland or stream water sources, including changes in quantity of water and pollutant level;
8. Application of pesticides, fertilizers and/or other chemicals, unless demonstrated not to be harmful to the regulated area;
9. The division or re-division of land pursuant to Title 18F, PCC and boundary line adjustments;
10. The creation of impervious surfaces.

Please be advised that Pierce County Planning & Public Works may suspend or revoke this Approval if the applicant has not complied with any or all of the conditions or limitations set forth in the Approval; has exceeded the scope of work set forth in the Approval; or, has failed to undertake the project in the manner set forth in the approved application. In addition, the Department is charged with the enforcement of the wetland regulation and is authorized to issue violation notices and administrative orders, levy fines, and/or institute legal actions in court.

CONDITIONS:

1. This Wetland Approval is limited to the portion of the site reviewed: Tax parcel numbers 0416173022, 0416201006, 0416202008, 0416202007, 0416194008, 0416302008, and 0316251003.

2. This wetland approval contains conditions that have been placed on the site to allow for the development of **Phase 2**: Roundabout Park Entry, Staff Residence, Administration Building, Nisqually/Ohop Access (Trailhead, Single Vault Restroom, Trails, Boardwalk, & Overlooks at Nisqually River & Ohop Creek), Utilities: Power, Telecom, Water & Sewer **AND Phase 3**: Campground Loop, Campground Restrooms, Mashel River Overlook, RV Dump Station, Welcome Center, Completion of Maintenance Building, Utility connection: Power, Telecom, Water, & Sewer.

3. All wetland and buffer area, fish or wildlife habitat conservation area or active landslide hazard area currently existing on the site shall remain undisturbed outside of the granted variance. No regulated activities are to occur in this area, except as may otherwise be allowed by this Approval document.

4. Buildings and other structures shall be setback a distance of 15-feet from the edge of all critical area buffers or, where no buffers are required, the edge of the critical area.

5. Any appliances, tires, and other non-organic trash shall be removed from the wetland and buffer area, fish or wildlife habitat conservation area. Items shall be disposed of at an approved solid waste handling facility.

6. All exotic, invasive, or noxious vegetation, and all weeds listed on the State Noxious Weed List may be removed from the wetland and buffer, fish or wildlife habitat conservation area by clipping, hand pulling, hand digging, or by an alternative plan, upon approval of Pierce County Planning & Public Works.

7. All down and dead woody material, including snags, perch trees (trees with broken tops or limbs), logs, and fallen branches, shall be left in the wetland and buffer area, fish or wildlife habitat conservation area to provide structure, habitat, and nutrients to the critical area system.

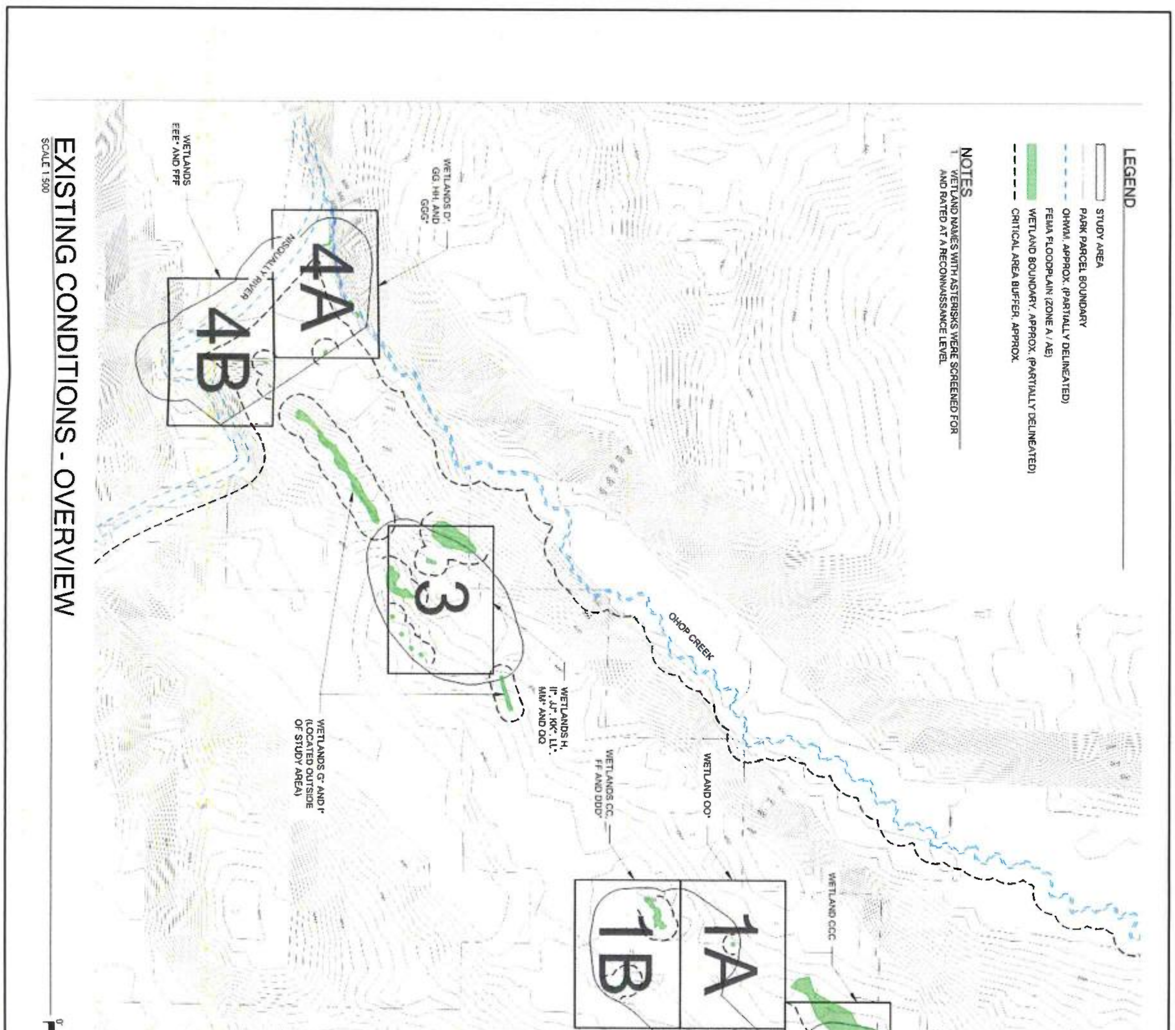
8. Trees located within the wetland or the buffer area, fish or wildlife habitat conservation area which are in imminent danger of falling outside of the wetland and buffer area, fish or wildlife habitat conservation area shall only be cut or removed with the permission of Pierce County Planning & Public Works.

Reviewed and Approved by: _____ April 25, 2022
Jamison Grzyb
Environmental Biologist II
Date Signed

Reviewed and agreed to by: _____ _____
Property Owner(s)
Date Signed

JG:ds
589472 NisquallyStatePark_Approval.docx

SITE PLAN



LEGEND
STUDY AREA
PARK PARCEL BOUNDARY
OHWM, APPROX. (PARTIALLY DELINEATED)
FEMA FLOODPLAIN (ZONE A / AE)
WETLAND BOUNDARY, APPROX. (PARTIALLY DELINEATED)
CRITICAL AREA BUFFER, APPROX.
NOTES
1. WETLAND NAMES WITH ASTERISKS WERE SCREENED FOR AND RATED AT A RECONNAISSANCE LEVEL
4A
4B
3
1A
1B
5
6
6/7
7A
7B
2
OHOP CREEK
NISQUALLY RIVER
MASHEL RIVER
MASHEL PRAIRIE ROAD
NATIONAL PARK HWY (SR-7)
WETLAND CCC
WETLAND VV
WETLAND EE
WETLAND OO*
EXISTING CONDITIONS - OVERVIEW
CONCEPT PLAN - NOT FOR CONSTRUCTION
NISQUALLY STATE PARK
CONCEPTUAL MITIGATION PLAN
PREPARED FOR RWD LANDSCAPE ARCHITECTS
MARSHAL PRAIRIE ROAD AND MOUNTAIN HIGHWAY E
EATONVILLE, WA
THE WATERSHED COMPANY
750 Sixth Street South
Kirkland WA 98033
Science & Design
SUBMITTALS & REVISIONS
CONCEPTUAL MITIGATION PLAN
181114
W1.0 OF 34

DECLARATION OF POSTING CRITICAL AREA BUFFER BOUNDARY SIGNS AND/OR SURVEY MARKERS

APPLICATION NO(S). 977698
977699

Signs: I,_____, applicant/agent for the project associated with the application number above, state that on the ___ day of _____, ___ I affixed _____ (number) permanent Pierce County-approved

_____ Wetland,
_____ Stream, or
_____ Fish & Wildlife signs,

prominently displayed at the outer edge of the buffer.

Markers: I,_____, applicant/agent for the project associated with the application number above, state that on the ___ day of _____, ___ I affixed _____ (number) permanent Pierce County-approved

_____ Wetland,
_____ Stream, or
_____ Fish & Wildlife signs,

prominently displayed at the outer edge of the buffer.

Tax Parcel No.: _____

Site address: _____

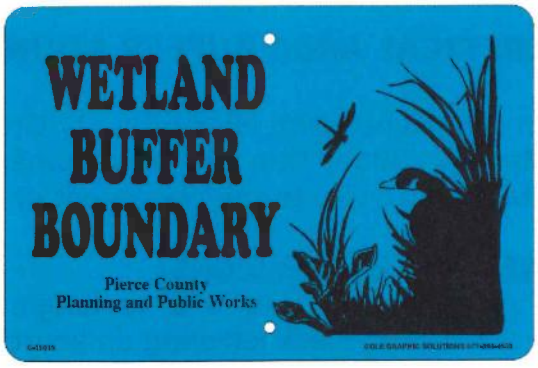
I certify (or declare) under penalty of perjury under the laws of the State of Washington that the foregoing is true and correct:

Signed on _____, 20___, at _____, _____
Date City State

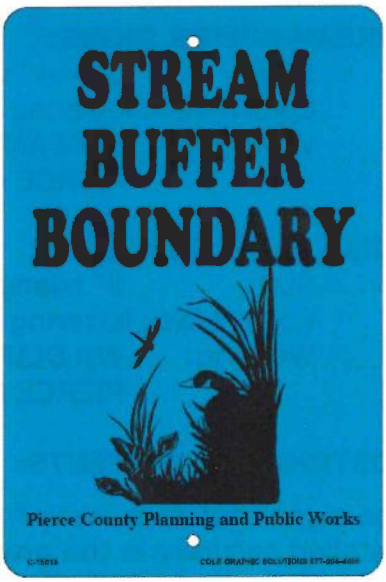
_____ _____
Signature Print Name

BUFFER BOUNDARY SIGNS

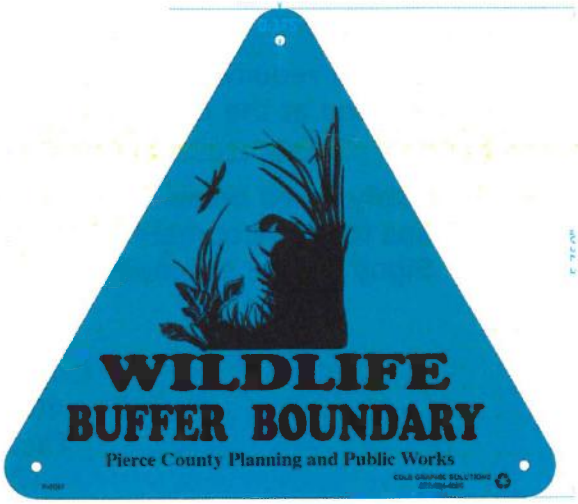
One sign every 30 to 50 feet.
Attach to a metal or wood fence post.



One sign every 30 to 50 feet.
Attach to a metal or wood fence post.



One sign every 30 to 50 feet.
Attach to a metal or wood fence post.



Pierce County

CRITICAL AREA BUFFER BOUNDARY SIGN STANDARDS

In compliance with Pierce County Ordinance No. 2006-53s, 2006-103s, effective March 1, 2007, Title 18E Development Regulations-Critical Areas, the following standards apply to the placement of the permanent buffer boundary signs:

WETLAND BUFFER SIGNS:

Size: 4" x 6" rectangle
Color: Black lettering on azure blue background
Wording: WETLAND BUFFER BOUNDARY
PIERCE COUNTY PLANNING AND PUBLIC WORKS

STREAM BUFFER SIGNS:

Size: 6" x 4" rectangle
Color: Black lettering on azure blue background
Wording: STREAM BUFFER BOUNDARY
PIERCE COUNTY PLANNING AND PUBLIC WORKS

WILDLIFE BUFFER SIGNS:

Size: 6" triangle
Color: Black lettering on azure blue background
Wording: WILDLIFE BUFFER BOUNDARY
PIERCE COUNTY PLANNING AND PUBLIC WORKS

POSTING REQUIREMENTS:

The signs shall face away from the critical area and must be placed on posts installed securely in the ground. Posts can be metal or wood. If wood posts are used, they must be at least 4" x 4" in size and be made of treated wood. Posts must extend a minimum of three feet above ground and be sunk at least two feet below ground.

Additional sign requirements, such as installation upon fencing instead of posts, may be applied at the discretion of the County Biologist.

The company listed below has buffer signs that are required by Pierce County regulations for development in areas containing wetlands, streams, and wildlife areas. Signs can be purchased online.

Cole Graphic Solutions
4901 Center Street
Tacoma, WA 98409
(253) 564-4600
https://www.colegraphicsolutions.com/boundary-marker-signage

Which vendors have eRecording contracts with the Auditor's office?

https://www.co.pierce.wa.us/5523/eRecording

CSC Erecording Solutions
Phone: 866-652-0111

eRecording Partners Network
Phone: 888-325-3365

Simplifile
Phone: 800-460-5657

Attachment 5
Forest Practices Application

Planning and Public Works
2401 South 35th Street, Suite 2
Tacoma, Washington 98409
www.piercecountywa.gov/pals

Information: (253) 798-3739

Application No: **1007040**
Application Date: 02/23/2023
Approved Date: 03/21/2024

Forest Practice Application

Bin No: DP

This applicant is applying to: Review Class IV General Forest Practices permit application for Nisqually State Park

Site Address: 44276 MASHEL PRAIRIE RD E
Proj. Appl Name: Nisqually State Park

Inspection Area: 12
RTSQQ: 04161911
Parcel No(s): 0416194008

Property Owner: STATE OF WASHINGTON
PO BOX 42650
OLYMPIA WA 98504-2650

Phone No:

Applicant: Robert W. Droll Landscape Architect, PS
4405 7TH AV SE SUITE 203
Spanaway WA 98503

Phone No: 360-456-3813

Zone 1:
Zone 2:
Community Area: Southwest Pierce County

Acreage: No. of Lots: Sq. Ft: Project Value:

Fee Amount	Fee Description	Quantity	Feet (Sq/Ln)	Valuation
$1,100.00	Class IV - Forest Practice			
$1,100.00	Total Fees			
$1,100.00	Total Paid			
$0.00	**Balance Due**			

Planning and Public Works
2401 South 35th Street, Suite 2
Tacoma, Washington 98409
www.piercecountywa.gov/pals

Information: (253) 798-3739

Application No: **1007040**
Application Date: 02/23/2023
Approved Date: 03/21/2024

Forest Practice Application

Bin No: DP

The following notes apply to applications under review by Planning and Public Works:

- This is a non-transferable application.

- After you have received an approval or request for additional information from each department reviewing your application, an expiration date will be displayed in the permit system. To check the expiration date, go to www.piercecountywa.gov/permit.

- This application will expire if you take more than 360 cumulative days to respond to requests for additional information. Each time we ask for additional information, the number of days from the request until a complete resubmittal is received is counted. Once you have used a combined total of 360 days this application expires.

-It is the responsibility of the applicant/property owner to obtain all necessary approvals/permits from state, federal, and other agencies that have regulatory authority.

The following note applies to permits issued by Planning and Public Works:

- It is the responsibility of the applicant/property owner to obtain all necessary approvals/permits from state, federal, and other agencies that have regulatory authority.

Note: Pierce County's approval (issuance) of this application/permit or decision pertains only to the County's regulatory jurisdiction and thus compliance with County regulations does not necessarily ensure compliance with other federal or state laws.

Upon further review additional fees may be required for revisions and or amendments. Applicants should check with all reviewing agencies for any applicable charges. Application filing fees may be refunded in accordance with P. C. C. 2.05.020.

This application will expire if you take more than 360 cumulative days to respond to requests for additional information. Each time you are asked for additional information, the number of days from the request until a complete resubmittal is received is counted.

Once you have used a combined total of 360 days, this application expires. After you have received an approval or request for additional information from each department reviewing your application, an expiration date will be displayed in the permit system. To check the expiration date, go to www.piercecountywa.gov/PALS.

Class IV-General Forest Practices Permit Application Notes/Conditions

1. This is not a permit to perform work until the permit application has been approved.

2. The material submitted will be reviewed by staff to determine if it complies with all applicable requirements. Applications that require revisions will be returned to the applicant for correction and resubmittal. When it is determined that an application complies with all applicable regulations, the Class IV-General Forest Practices Permit application will be approved.

3. The Class IV-General Forest Practices Permit application cannot be approved until all of the departments statused on the application have given their approval.

4. An approved Class IV-General Forest Practices Permit application must comply with any and all conditions of approval established through the associated development permit(s) or approval(s).

Forest Practice Application

Bin No: DP

5. Failure to comply with the approved Class IV-General Forest Practices Permit application may result in a six-year development moratorium, per Section 18H.30.020 of Title 18H. A development moratorium prohibits Pierce County from accepting permit applications for the development of land, including septic, well, building and subdivision. In those cases where a development moratorium is imposed on a site that is subject to pending development applications, Pierce County must immediately cease to review the applications and must deny the applications. The development moratorium lasts for a period of six years or until a request to remove the moratorium is approved by Pierce County. (See Chapter 18H.30 of Title 18H for additional information)

6. An approved Class IV-General Forest Practices Permit application is valid for two consecutive years following the date of approval unless a longer period has been established through an associated approval (e.g., preliminary plat approval or conditional use permit)

- A Temporary Driveway Approach permit for logging is required whenever a driveway approach to a County road will be built, altered, improved or reopened for logging purposes. Contact Development Engineering Technical Support at 253-798-3749/2295 for application information.

- Information on the Forest Tax Program and Forest Excise Tax is available by contacting the Washington State Department of Revenue at 1-800-548-8829 or http://dor.wa.gov/ (Search under Timber).

Attachment 6
Tree Removal

Diana Dupuis
Director

STATE OF WASHINGTON
WASHINGTON STATE PARKS AND RECREATION COMMISSION
1111 Israel Road S.W. • P.O. Box 42650 • Olympia, WA 98504-2650 • (360) 902-8500
TDD Telecommunications Device for the Deaf: 800-833-6388
www.parks.wa.gov

February 28, 2023

MEMORANDUM

To: Diana Dupuis, Director

Through: Lisa Lantz, Stewardship Director
Mike Sternback, Deputy Director

From: David Cass, Agency Forester

Subject: Director authority for sale of timber resulting from New Full-Service Park Project – Phase 2 at Nisqually State Park.

Project Summary: Tree removal will occur as part of land clearing and grading activities necessary for Phase 2 of Nisqually State Park development. The trees being removed are proposed for sale because their removal from the property advances a Commission-approved development, and they are deemed surplus to park needs.

Background: Nisqually State Park is a 1,300-acre property in Pierce and Thurston counties that will become the first new full-service state park created since 1996. Acquisition of park lands began in 1991, with most property purchased from Weyerhaeuser Company. The park's former industrial timber plantations were clearcut and replanted from the mid-1980's to early 1990's. The resulting forest arose from 30 years of passive management that allowed some level of plantation failure and natural succession, but which has largely resulted in densely overstocked, uniform Douglas-fir (*Pseudotsuga menziesii*) stands at risk of stagnation.

Forestland in the park is comprised primarily of young (approximately 30- to 40-year-old) monodominant Douglas-fir plantations, with some mixed, naturally regenerated stands and forested wetlands of similar age. The only portions of the park not under intensive management in the recent past are the steep slopes and riparian areas adjacent to the Mashel River, Nisqually River, and Ohop Creek.

Phase 1 of park development, which is expected to be complete by winter 2022/23, involves a maintenance building and test well. Phase 2 includes trails, boardwalk, and overlooks at the Nisqually River and Ohop Creek; a new park entrance; staff residence; administration building and plaza; and associated utilities. Tree removal for Phase 2, planned for 2023/2024, will occur as

part of the land clearing and grading activities necessary for park development. The phase will require the removal 582 trees on approximately 6.22 acres, with an overall volume of approximately 41,750 board feet and an appraised stumpage value of $19,508. These trees are proposed for sale because they are deemed surplus to park needs.

Authority: Through RCW 79A.05.035, the Legislature directs the Commission to "manage timber and land under its jurisdiction to maintain and enhance aesthetic and recreational values" and "apply modern conservation practices to maintain and enhance aesthetic, recreational, and ecological resources." WAC 352-28-020 details the procedure needed for the sale of timber and other natural resources from Commission-owned and managed lands.

The trees being removed in Phase 2 are proposed for sale because their removal from the property advances a Commission-approved development, and they are deemed surplus to park needs. Qualified agency staff and agents performed an inventory and appraisal of merchantable timber related to the Phase 2 development. Pursuant to WAC 352-28-020(6), sales of timber resulting from the conversion of forest land for the development of park facilities, where the appraised timber value is less than $25,000, do not require Commission approval. In addition, the agency Director or designee is authorized to approve resource sales where the cruised volume of timber is less than or equal to 1,000,000 board-feet and greater than 5,000 board feet (WAC 352-28-020(4).

Risk: There are risks to the agency from conducting any large-scale development project that results in a loss of trees and forestland. Implementation of the project may lead to: a) public denouncement of the operation, b) degradation of park resources, and/or c) injury to the public and/or staff. Activities, which have been applied with success on recent timber sales across the park system, have been identified to mitigate all three risk categories.

To minimize citizen concerns, public input has been sought throughout project planning, the SEPA process, and the Forest Practice Application/Notification review process. Overall, feedback for the project has been positive.

During the clearing operation, the public might find fault if the area is degraded because of land clearing activities (significant soil rutting or other resource damage, operator cutting or damaging non-target trees, or damage to park infrastructure). State Parks' contract terms and conditions address these risks, place requirements and restrictions on the operator, and include clauses for payment for damages incurred to Parks by the contractor's activities. On-site compliance monitoring by the contract administrator and other park staff is typical of these projects.

Finally, injury could result if the public or staff enter the project area during periods of operation. To minimize risk, the agency has developed clear operating guidelines for the contractor, which include operating hours and schedules, communication systems and emergency plans, and hard (fencing and gates) and soft (signage, moveable barriers, flagging tape) controls on access points to the work area. Park staff will monitor public activity to ensure that physical barriers are being successful in keeping the public away from construction activities.

Fiscal Impact: Implementation of the thinning-harvest is expected to yield no actual net

revenue, as the value of timber will be offset within the bid for construction costs, estimated at $9.25 million. If any net revenue is generated by the sale of timber, the proceeds will be directed towards natural resources stewardship activities, as outlined in the Commission's Natural Resources Policy.

Coordination with Other Divisions, Programs, and Agencies: The Southwest Capital Program is overseeing Phase 2 of this project, with involvement by the Planning & Real Estate Program, Stewardship Division, and Operations staff. The Nisqually Indian Tribe, as partners of Nisqually State Park, have been involved in the planning and development of each phase of this project. State Parks and the Nisqually Indian Tribe have been in communication with agencies regarding land use permitting and building permits. These agencies include Pierce County, Washington Department of Fish and Wildlife, Washington Department of Health, and the Washington Department of Ecology.

Requested Action: We respectfully request approval to proceed with the Nisqually State Park – Phase 2 Resource Sale, pending approval of the forest practices permit.

Approved

Diana Dupuis, Director

March 1, 2023
Date

Comments: _____

Attachments:

Appendix A SEPA Determination
Appendix B Tree Removal Plans
Appendix C Timber Sale Approval Checklist

cc: Heather Saunders, Parks Development Director
Brian Yearout, SW Region Construction Project Coordinator 4
Hannah Ross, Environmental Planner 3
David Cass, Agency Forester
Janet Shonk, Millersylvania Area Manager
Stephanie Simek, SW Region Manager

NISQUALLY STATE PARK
NEW FULL SERVICE PARK – PHASE 2
ADDENDUM 3

The following list of major items of construction has been included for Bidder's convenience in preparing a bid proposal. Exclusion of items from this summary does not indicate exclusion from project. For lump sum items, the bidder is cautioned that the drawings are the only source for measurement of project quantities, and drawings have been detailed for this purpose. In preparing a bid proposal, Bidder should note apparent discrepancies between the list below and the drawings and consult with Landscape Architect for verification.

SCHEDULE A – STAFF RESIDENCE & ADMINISTRATION BUILDING BASE BID ITEMS

BID ITEM	DESCRIPTION	ESTIMATED QUANTITY	PAYMENT
A1	**TRENCH EXCAVATION SAFETY PROVISIONS**	**1**	**PER LUMP SUM**

See instructions on Bid Proposal Form. This Bid Item applies to both Schedule A, B, and C work.

A2 MOBILIZATION **1** **PER LUMP SUM**

This Bid Item shall comply with WSDOTSS 1-09.7 Mobilization. This Bid Item applies to both Schedule A, B, and C work.

A3 STAFF RESIDENCE AND ADMINISTRATION BUILDING **1** **PER LUMP SUM**

This Bid Item includes all work in the Contract Document to provide the Staff Residence and Administration Building in place, complete, and operational. This Bid Item includes, but is not limited to, providing all materials, labor, equipment, overhead, profit for the construction of the Staff Residence and Administration Building.

This Bid Item includes, but is not limited to providing survey, clearing, selective clearing, grubbing, excavation, grading, on/off site haul, temporary and permanent erosion control, aggregates, gates, fencing, gate plinths, signage, kiosks, Administrative Building, Staff Residence, hot mix asphalt paving, boulder processing & placement, site electrical improvements, site furnishings, concrete blocks, signage/striping, concrete paving, installation of Owner provided Art and site furnishings, access barriers, topsoil, plants, wood chips, mulch, and all work described in the Plans and Project Manual. Clearing and Grubbing the Borrow Pit, and any Borrow Pit Haul Route restoration shall be paid for under the Lump Sum Bid Item "Staff Residence and Administrative Building". This Bid Item will be measured and paid for on a Lump Sum basis under the Bid Item "Staff Residence and Administrative Building".

A4 COMMON BORROW A **6525** **PER NEAT LINE CUBIC YARD**

Includes all work associated with excavating, loading, hauling, placing, compacting, and grading Common Borrow A from the Owner provided Borrow Pit and placed within the Work area of the Bid Item "Staff Residence And Administration Building**"**. ~~This bid also includes the cost of Clearing and Grubbing the Borrow Pit and any Haul Road preparation and restoration.~~ Common Borrow A will be measured per Cubic Yard on a Neat Line basis. Measurement will be based upon the Contractor provided topographical survey of the Post Grubbing/Pre-Fill subgrade surface elevations and the design elevations of the Common Borrow A subgrade. The Contractor

is required to conduct Post Grubbing/Pre-Fill survey and provide the survey file to a third-party earthwork calculation firm preapproved by Owner who will perform the earthwork calculations which will used for as the basis for measurement and payment of Common Borrow A. This Bid Item will be measured and paid for on a per Neat Line Cubic Yard basis under the Bid Item "Common Borrow A".

SCHEDULE B – NISQUALLY/OHOP ACCESS BASE BID ITEMS

BID ITEM	DESCRIPTION	ESTIMATED QUANTITY	PAYMENT
B1	**NISQUALLY/OHOP ACCESS IMPROVEMENTS**	**1**	**PER LUMP SUM**

This Bid Item includes all work in the Contract Document to provide the Nisqually/Ohop Access Improvements in place, complete, and operational. The Bid Item includes, but is not limited to, all materials, labor, equipment, overhead, profit for the construction of the Bus Parking, the Trailhead, Nisqually River Access Trail, Boardwalk, and all three Overlooks.

This Bid Item includes, but is not limited to, survey, clearing, selective clearing, grubbing, excavation, grading, on/off site haul, temporary and permanent erosion control, aggregates, grading, fencing, signage, boulder processing & placement, kiosks, prefabricated restrooms, hot mix asphalt paving, concrete paving and steps, handrails, site furnishings, signage/striping, Disposal Site construction, access barriers, topsoil, plants, wood chips, and all work described in the Plans and Project Manual. This Bid Item will be measured and paid for on a Lump Sum Basis under the Bid Item "Nisqually/Ohop Access Improvements".

B2	**COMMON BORROW A**	**1100**	**PER NEAT LINE CUBIC YARD**

Includes all work associated with excavating, loading, hauling, placing, compacting, and grading Common Borrow A from the Owner provided Borrow Pit and placed within the Work area of the Bid Item "Nisqually/Ohop Access Improvements". This Bid also includes the cost of Clearing and Grubbing the Borrow Pit and any Haul Road preparation and restoration. Common Borrow A will be measured per Cubic Yard on a Neat Line basis. Measurement will be based upon the Contractor provided topographical survey of the Post Grubbing/Pre-Fill subgrade surface elevations and the top design elevations of the Common Borrow A subgrade. The Contractor is required to conduct Post Grubbing/Pre-Fill survey and provide the survey file to a third-party earthwork calculation firm preapproved by Owner who will perform the earthwork calculations which will used for as the basis for measurement and payment of Common Borrow A. This Bid Item will be measured and paid for on a per Neat Line Cubic Yard basis under the Bid Item "Common Borrow A".

B3.	**ROADWAY IMPROVEMENTS**	**1**	**PER LUMP SUM**

This Bid Item includes all work in the Contract Document to provide the Roadway Improvements in place, complete, and operational. The Bid Item includes, but is not limited to, providing all materials, labor, equipment, overhead, and profit for the construction of Roadway Improvements. This Bid Item includes all work between Station 4+75 – Station 39+70 and Station 42+45 –

Station 71+55. Roadway Improvements. Stationing has been measured by Landscape Architect with measuring wheel and may vary in length. Contractor shall determine their own measurements and their own quantities prior to Bidding and be responsible for construction of entire Roadway Improvements.

This Bid Item for Roadway Improvement includes, but is not limited to, survey, clearing, selective clearing, grubbing, excavation, grading, on site haul, temporary and permanent erosion control, aggregates, installation of Owner provided Art and site furnishings, signage, concrete paving, and all Roadway Improvements work described in the Plans and Project Manual. This Bid Item will be measured and paid for on a Lump Sum Basis under the Bid Item "Roadway Improvements".

SCHEDULE C – ALTERNATE BID ITEMS

BID ITEM	DESCRIPTION	ESTIMATED QUANTITY	PAYMENT
C1	**OVERLOOK 1 SPUR TRAIL**	**1**	**PER LUMP SUM**

This Alternate Bid Item includes all work in the Contract Document to provide the Overlook 1 Spur Trail Improvements in place, complete, and operational. The Bid Item includes, but is not limited to, all materials, labor, equipment, overhead, profit for the construction of the Overlook 1 Spur Trail.

END OF SECTION

SECTION – 033020 - LITHOMOSAIC

PART 1 - GENERAL

1.1 DESCRIPTION

A. The work described in this section applies to LithoMosaic® as implemented in Cement Concrete Paving D on Overlook 2. An image of the mosaic design is provided as Attachment A at the end of this section. The electric file of the mosaic design shall be provided by the Owner upon Contractor request per Section 013600 – Digital File Request Form.

1.2 SCOPE OF WORK

A. Furnish materials, labor, transportation, services, and equipment necessary to furnish and install Lithomosaic® architectural concrete paving as indicated on the drawings and as specified herein.

B. Work included in this Section:

1. Only experienced Architectural Cast-in-place Concrete installers certified to install Lithomosaic® are acceptable for this project. For certified Lithomosaic® installers contact Lithocrete™ at 800-899-9921.
2. A Lithomosiac example can be review at West Bay Public Plaza in Olympia, WA, which was installed by Belarde Company Inc. Contact Belarde Company Inc., Johnna Belarde at 425-376-2500.

1.3 RELATED SECTIONS

A. Section 033010 – Cement Concrete Paving

B. Section 133700 – Boardwalk

1.4 REQUIREMENTS OF REGULATORY AGENCIES

A. Federal, State and local laws and regulations governing this Work are hereby incorporated into and made part of this Section. When this Section calls for certain materials, workmanship, or a level of construction that exceeds the level of Federal, State, or local requirements, provisions of this Section take precedence.

1.5 APPLICABLE STANDARDS

A. Specifications and recommended practices of American Concrete Institute (ACI), American Society for Testing and Materials (ASTM), the International Building Code, and under one or more U.S. Patents 5,794,401; 5,887,339; 5,950,394; 6,016,635; 6,033,146; 6,082,074; 6,112,487; 7,322,772; 7,493,732; 7,607,859; 7,614,820; 7,670,081; 7,781,019 and U.S. Trademarks #1,879,329, # 2,358,183 # 2,358,054 referred to in this Specification with their individual designations are to be considered part of this Specification.

B. Design and Control of Concrete Mixtures – Thirteenth Edition; Portland cement Association.

1.6 QUALITY CONTROL

A. Quality control to be maintained by licensed installers of LithoMosaic® throughout duration of project.

B. Paving Subcontractor Qualifications: provide evidence to indicate successful experience in providing LithoMosaic® similar to that specified herein.

C. As part of the bid submittal the General Contractor shall submit background information and/or qualifications on his Architectural Cast-in-place Contractor certified for Lithomosaic® installation. This information shall provide evidence to indicate successful experience in providing concrete work identical to that specified herein. A listing of projects shall be provided and shall be reviewed and approved as comparable projects to the specified work by the Owner or Landscape Architect prior to award of bid. Failure to provide this information or the submittal of incomplete or inaccurate information shall give cause to reject the entire bid as non-responsive and incomplete.

D. Demonstration of experience: provide a minimum of three (3) projects of installed Lithomosaic® totaling at least 1,000 square feet with a reference list of each containing address of installation, contact person and phone number of project's architect or Owner's representation. Minimum size of each individual installation shall be 200 square feet. Provide two (2) color photos, 8" x 10" size, of each installation listed above representing the installation. Photo #1 shall show the approximate size of the installation. Photo #2 shall be taken approximately 2 to 3 feet from the paving surface. See submittals portion of this section for additional information.

E. Supervision: On site superintendent must have a minimum of 10 years' experience installing Lithomosaic®.

F. Slip Resistance: provide a finish with a slip resistance of equal or greater than 0.65 when tested by the Owner in accordance with ASTM F 489.

1.7 SITE INSPECTION

A. Verify conditions at site that affect work of this Section.

B. Take field measurements as required.

C. Report major discrepancies between Drawings and field dimensions to Owner's Authorized Representative prior to commencing work.

1.8 SUBMITTALS

A. Product Data: Submit no later than 10 days after contract award a typed list of products specified in this Section.

B. Shop Drawings:

1. Submit shop drawings for reinforcing steel and accessories in accordance with ACI standards.
2. Paving Jointing and Pour Sequence Plan - submit six blueprints indicating the following:

    a. Proposed layout of contraction, construction and isolation joints. Clearly delineate the three different joint types.
    b. Layout of paving types as indicated on Drawing Paving Schedule. Give overall dimensions of each paving type.
    c. Concrete pour sequence. Indicated sequence of paving pour installation.

C. Statement of Mix Design: Submit (1) copy of Statement of Mix Design prepared by batch plant servicing Project for each load delivered to Project. Statement of Mix Design to contain following information:

1. Name, address, and telephone number of batch plant preparing statement of mix design.
2. Date of mix design.
3. Project location.
4. Contractor requesting load delivery.
5. Mix design number.
6. Integral color used.
7. Gradations for sand and aggregate.
8. Material weights, specific gravity, and absolute volumes.
9. Basis of testing, i.e. UBC 2605 D4 and Title 24 2604 D4.
10. Water/cement ratio.
11. PSI rating.
12. Signature of testing laboratory manager.
13. Signed stamp from registered Project structural engineer or architect.

D. Submit evidence of licensed installer qualifications for experience, demonstration of square footage installed, number of projects, and contact information to verify experience as indicated in Quality Control section of this specification.

E. Submit the full range of color and sizes of tiles and stones and glass proposed to be installed. Each color and size of tiles and stones shall submitted in half gallon zip-loc bags.

1.9 SUBSTITUTIONS

A. None allowed unless approved in writing by Owner’s Authorized Representative.

1.10 TESTING

A. A testing agency may be designated by Owner or Owner's Authorized Representative. Testing personnel to meet ASTM E329 requirements.

1.11 MOCK-UPS

A. Prior to construction, provide (1) 4-foot x 4-foot x 4-inch sample of the LithoMosaic® paving specified by Owner's artist.

B. Ensure that each mock-up contains joint types specified on project, i.e. construction, contraction, and isolation.

C. Locate mock-ups in a conveniently accessible and protected place. Approved mock-ups will be standard for future LithoMosaic® installation review.

D. Mock-up may become a part of the finished work if approved by Owner and Landscape Architect.

E. Remove mock-ups from site upon completion of Work and approval by Owner's Authorized Representative.

1.12 PROJECT CONDITIONS

A. Keep Work area clean, and in a safe and workmanlike condition so that rubbish, waste and debris do not interfere with work of other trades.

1.13 PRODUCT HANDLING

A. Store materials in a dry and protected location. Protect reinforcing steel and dowels from rusting, deformation, staining, and moisture damage.

B. Keep LithoMosaic® materials dry at all times prior to installation.

1.14 COORDINATION

A. Notify Owner's Authorized Representative and contractors performing work related to installation of Contractor's Work in ample time, so as to allow sufficient time for them to perform their portion of work.

1.15 LITHOMOSAIC

A. Contractor shall retain an Artist who shall have experience in ceramic and stone mosaic paving work. Contractor shall submit 5 photographic samples of Artist ceramic and stone mosaic work embedded into concrete to Owner. Owner shall provide written approval/rejection of Contractor proposed Artist.

PART 2 - PRODUCTS

2.1 TILES AND STONES

A. Submit one pound sample of all colors and sizes of tiles and stones proposed. Obtain written permission from Landscape Architect prior to ordering. Tiles and Stones shall be of uniform depth with a depth variation no greater than 1/4".

2.2 CONCRETE

A. LithoMosaic® will be embedded into Cement Concrete Paving D on Overlook 2. Refer to Section 033010 Cement Concrete Paving and 133700 Boardwalk.

PART 3 - EXECUTION

3.1 Conduct Pre-Installation Conference with Landscape Architect prior to any LithoMosaic® ordering of materials, design, and work.

3.2 LITHOMOSAIC INSTALLATION

A. Conduct Pre-Installation conference prior to any LithoMosaic® work.

B. LithoMosaic® mosaic shall be installed in Cement Concrete Paving D at Overlook 2, as indicated on Plans. Mosaic shall be wet set in pavement surfaces and set flush with prevailing grade. Mosaic shall not be a mortar set over a concrete slab.

C. LithoMosaic® is a patented paving process. Installation of LithoMosaic® must be performed by a licensed LithoMosaic® installer only.

D. Contact Lithocrete® at 800-899-9921 for a licensed LithoMosaic® installer in project area.

E. LithoMosaic® process incorporates use of following patented products:

1. Lithocrete® ConditionerTM.
2. Lithocrete Etch Retarder®.
3. Lithoseal paving sealer.
4. Lithocrete® vibrating float process – use patent # 6,016,635
5. Lithocrete® power trowel process – use patent # 6,016,635

F. All LithoMosaic® mosaic shall be fabricated and installed to be ADA compliant.

G. Contractor is responsible for all installation, curing, and sealing of LithoMosaic® mosaic.

3.3 JOINTING

A. Refer to ACI 302 "Guide for Concrete Floor and Slab Construction" for work under this section.

B. Construction and Contraction Joints:

1. Saw-cut construction and contraction joints in locations indicated on Drawings.
2. Perform jointing with a new diamond tip circular saw.
3. Joint Width: Per Drawings. Do not exceed 3/16-inch in width.
4. Depth of sawcuts: 1/4th depth of slab.
5. Decorative Saw-cut Joints: Per Drawing.
6. Saw-cut joints in a straight line with no over-cutting.
7. Use a hand tool to saw-cut up to vertical edges such as walls, steps, curbs and columns. No cutting into vertical surfaces will be allowed.

3.4 CURING

A. After LithoMosaic® exposure, cure concrete for seven (7) days without foot traffic and thirty (30) days without vehicular traffic.

3.5 SEALING

A. Seal surface of mosaic paving using LithoMosaic® Sealer or HLQ 125. The application of hydrolyzed alkali silica solution inhibits the chemical reaction and resulting derogation inherent with seeding glass or organic materials such as seashells and metals into concrete.

B. Follow LithoMosaic® Sealer directions when applying this product (sealer must be applied in 3 to 6 coats).

3.6 ACCEPTANCE OF WORK

A. Contractor shall expect to cooperatively work with Landscape Architect to achieve intended outcomes. LithoMosaic® contains natural materials as installed by skilled laborers and supervisory personnel as well as the Artist in concert with the artistic vision of the Owner's Representative; final acceptance is at the sole discretion of the Owner.

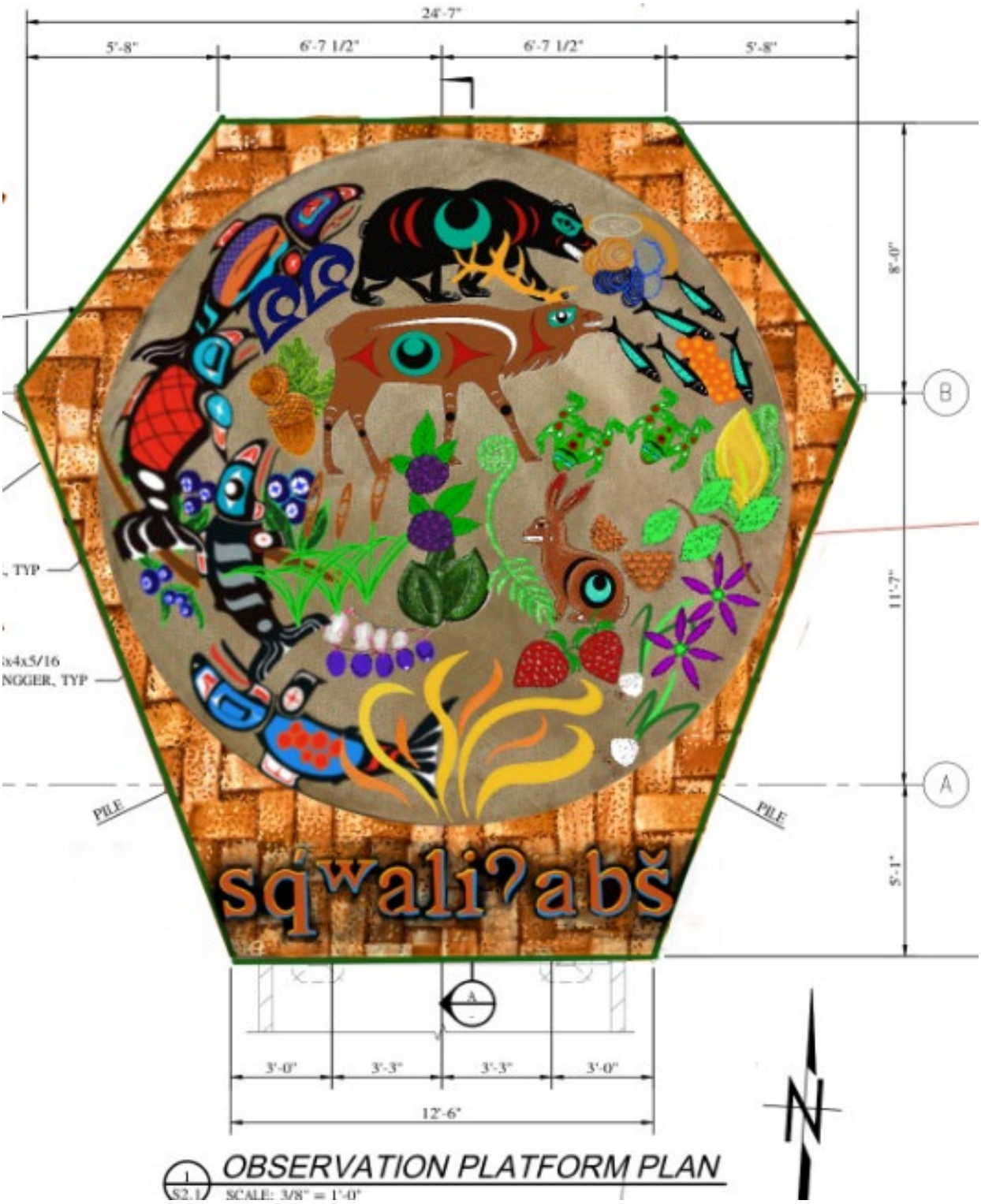
3.7 CLEANING

A. Clean up debris and unused or excess material and remove from the site. Completely remove all concrete, mud, dirt and other substances from Work.

B. All excess concrete shall be disposed of off-site.

C. Touch-up, repair or replace damaged to Work before Substantial Completion.

ATTACHMENT A



END OF SECTION

SECTION 074113.16 – STANDING-SEAM METAL ROOF PANELS

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Standing-seam metal roof panels.

B. Related Requirements:

1. Section 061600 – Sheathing, for substrate and cover boards.
2. Section 072100 – Thermal Insulation, for vapor retarder and insulation.
3. Section 073013 – Roofing Underlayments.

1.2 ADMINISTRATIVE REQUIREMENTS

A. Coordination:

1. Coordinate sizes and locations of roof curbs, equipment supports, and roof penetrations with actual equipment provided.
2. Coordinate metal panel installation with rain drainage Work, flashing, trim, construction of soffits, and other adjoining Work to provide a leakproof, secure, and noncorrosive installation.

B. Preinstallation Meetings: Conduct meeting at Project site.

1. Meet with Owner, Architect, Owner's insurer if applicable, metal panel Installer, metal panel manufacturer's representative, structural-support Installer, and installers whose Work interfaces with or affects metal panels, including installers of roof accessories and roof-mounted equipment.
2. Review and finalize construction schedule and verify availability of materials, Installer's personnel, equipment, and facilities needed to make progress and avoid delays.
3. Review methods and procedures related to metal panel installation, including manufacturer's written instructions.
4. Examine support conditions for compliance with requirements, including alignment between and attachment to structural members.
5. Review structural loading limitations of deck during and after roofing.
6. Review flashings, special details, drainage, penetrations, equipment curbs, and condition of other construction that affect metal panels.
7. Review governing regulations and requirements for insurance, certificates, and tests and inspections if applicable.
8. Review temporary protection requirements for metal panel systems during and after installation.
9. Review procedures for repair of metal panels damaged after installation.

10. Document proceedings, including corrective measures and actions required, and furnish copy of record to each participant.

1.3 ACTION SUBMITTALS

A. Product Data: For each type of product.

1. Include construction details, material descriptions, dimensions of individual components and profiles, and finishes for each type of panel and accessory.

B. Shop Drawings:

1. Include fabrication and installation layouts of metal panels; details of edge conditions, joints, panel profiles, corners, anchorages, attachment system, trim, flashings, closures, and accessories; and special details.
2. Accessories: Include details of the flashing, trim, and anchorage systems, at a scale of not less than 1-1/2 inches per 12 inches.
3. Submit Shop Drawings that have been engineered and certified by professional engineer licensed in the State in which Project is located.

a. Include seal and signature of professional engineer on Shop Drawings.

C. Samples for Verification: For each type of exposed finish required, prepared on Samples of size indicated below:

1. Metal Panels: 12 inches long by actual panel width. Include fasteners, closures, and other metal panel accessories.

D. Delegated-Design Submittal: For standing-seam metal roof panel systems, indicating compliance with performance and design criteria.

1. Include analysis data signed and sealed by qualified professional engineer responsible for their preparation.

1.4 INFORMATIONAL SUBMITTALS

A. Qualification Data:

1. For Installer.
2. For professional engineer indicating experience with providing delegated-design engineering services of the kind indicated.

a. Include documentation that engineer is licensed in state in which Project is located.

B. Product Test Reports: For each product, for tests performed by a qualified testing agency.

1.5 CLOSEOUT SUBMITTALS

A. Maintenance Data: For metal panels to include in maintenance manuals.

1.6 QUALITY ASSURANCE

A. Manufacturer Qualifications: A firm that specializes in manufacturing specified metal roofing systems with a minimum of 10 years of documented experience.

B. Installer Qualifications: An entity that employs installers and supervisors who are trained and approved by manufacturer with a minimum of 5 years of documented experience.

C. Delegated-Design Engineer Qualifications: Professional engineer experienced in providing delegated-design engineering services of the kind indicated and is legally qualified to practice in state where Project is located.

D. Mockups:

1. Build mockup of typical roof area and eave, including fascia, as shown on Drawings; including attachments, underlayment, and accessories.

    a. Mockup Size: 12 sq. ft. by full thickness.
    b. Illustrate a complete assembly of each profile, proposed thickness, and finish.
    c. Illustrate each type of exposed seam and seam termination.

2. Approval of mockups does not constitute approval of deviations from Contract Documents contained in mockups unless Architect specifically approves such deviations in writing.
3. Approved mockups may become part of completed Work if undisturbed at time of Substantial Completion.

1.7 DELIVERY, STORAGE, AND HANDLING

A. Deliver components, metal panels, and other manufactured items so as not to be damaged or deformed. Package metal panels for protection during transportation and handling.

B. Unload, store, and erect metal panels in a manner to prevent bending, warping, twisting, and surface damage.

C. Stack metal panels horizontally on platforms or pallets, covered with suitable weathertight and ventilated covering. Store metal panels to ensure dryness, with positive slope for drainage of water. Do not store metal panels in contact with other materials that might cause staining, denting, or other surface damage.

D. Retain strippable protective covering on metal panels during installation.

1.8 FIELD CONDITIONS

A. Weather Limitations: Proceed with installation only when existing and forecasted weather conditions permit assembly of metal panels to be performed according to manufacturers' written instructions and warranty requirements.

1.9 WARRANTY

A. Special Warranty: Manufacturer agrees to repair or replace components of metal panel systems that fail in materials or workmanship within specified warranty period.

1. Failures include the following:

a. Structural failures including rupturing, cracking, or puncturing.
b. Deterioration of metals and other materials beyond normal weathering.

2. Warranty Period: 2 years from date of Substantial Completion.

B. Special Warranty on Panel Finishes: Manufacturer agrees to repair finish or replace metal panels that show evidence of deterioration of factory-applied finishes within specified warranty period.

1. Exposed Panel Finish: Deterioration includes the following:

a. Color fading more than 5 Delta E units when tested according to ASTM D2244.
b. Chalking in excess of a No. 8 rating when tested according to ASTM D4214.
c. Cracking, checking, peeling, or failure of paint to adhere to bare metal.

2. Finish Warranty Period: 20 years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Source Limitations: Obtain standing-seam metal roof panels from single source from single manufacturer.

2.2 PERFORMANCE CRITERIA

A. Recycled Content: Postconsumer recycled content plus 1/2 of preconsumer recycled content not less than 50 percent.

B. Delegated Design: Engage a qualified professional engineer, as defined in Section 013573 – Delegated-Design Procedures, to design standing-seam metal roof panel systems, including attachment to building construction.

C. Structural Performance: Provide metal panel systems capable of withstanding effects of the following loads, based on testing according to ASTM E1592:

1. Wind Loads: As indicated on Drawings.
2. Other Design Loads: As indicated on Drawings.
3. Deflection Limits: For wind loads, no greater than 1/180 of span.

D. Seismic Performance: Exterior metal panel systems, including anchors and connections, shall withstand effects of earthquake motions determined according to ASCE 7.

E. Water Penetration under Static Pressure: With factory-applied continuous sealant, no water penetration when tested according to ASTM E1646 or ASTM E331 at the following test-pressure difference:

1. Test-Pressure Difference: 6.24 lbf/sq. ft.

F. Wind-Uplift Resistance: Provide metal roof panel assemblies that comply with UL 580 for wind-uplift-resistance class indicated.

1. Uplift Rating: UL 90.

G. Thermal Movements: Allow for thermal movements from ambient and surface temperature changes by preventing buckling, opening of joints, overstressing of components, failure of joint sealants, failure of connections, and other detrimental effects. Base calculations on surface temperatures of materials due to both solar heat gain and nighttime-sky heat loss.

1. Temperature Change (Range): 120 deg F, ambient; 180 deg F, material surfaces.

2.3 STANDING-SEAM METAL ROOF PANELS

A. Factory-formed metal roof panels designed to be installed by lapping and interconnecting raised side edges of adjacent panels with joint type indicated and mechanically attaching panels to supports using concealed clips in side laps. Include clips, cleats, pressure plates, and accessories required for weathertight installation.

1. Steel Panel Systems: Unless more stringent requirements are indicated, comply with ASTM E1514.

B. Vertical-Rib, Snap-Joint, Standing-Seam Metal Roof Panels: Structural metal panel formed with vertical ribs at panel edges and a flat pan between ribs; designed for sequential installation by mechanically attaching panels to supports using concealed clips located under 1 side of panels, engaging opposite edge of adjacent panels, and snapping panels together.

1. Products: Subject to compliance with requirements, provide one of the following:

a. AEP Span, a Division of ASC Profiles, Inc.: Design Span hp.
b. Bridger Steel, Inc.: 1.75" Tru Snap.

c. Metal Sales Manufacturing Corporation: Vertical Seam.
d. Morin; a Kingspan Group Company: SWL.
e. Petersen Aluminum Corp.: Snap-Clad.
f. Taylor Metal Inc.: Versa-Span SB.

2. Metallic-Coated Steel Sheet: Aluminum-zinc alloy-coated steel sheet complying with ASTM A792, Class AZ50 coating designation; structural quality. Prepainted by coil-coating process to comply with ASTM A755.

   a. Nominal Thickness: 0.0232 inch.
   b. Exterior Finish: 2-coat fluoropolymer.
   c. Color: Match AEP Span Colonial Red.

3. Clips: 2-piece floating to accommodate thermal movement.

   a. Material: 0.0250 inch thick, stainless-steel sheet or as required to meet performance requirements.

4. Panel Coverage: 12 inches unless indicated otherwise.
5. Panel Height: 1-3/4 inches.

2.4 UNDERLAYMENT MATERIALS

A. Roofing Underlayments:

   1. Type 1 Underlayment as specified in Section 073013 – Roofing Underlayments.

2.5 AUXILIARY MATERIALS

A. Roof Cover Boards: As specified in Section 061600 – Sheathing.

B. Vapor Retarder: SA.SVR as specified in Section 072100 – Thermal Insulation.

C. Insulation: PB.INSUL-1 as specified in Section 072100 – Thermal Insulation.

2.6 MISCELLANEOUS MATERIALS

A. Miscellaneous Metal Subframing and Furring: ASTM C645; cold-formed, metallic-coated steel sheet, ASTM A653, G90 coating designation or ASTM A792, Class AZ50 coating designation unless otherwise indicated. Provide manufacturer's standard sections as required for support and alignment of metal panel system.

B. Panel Accessories: Provide components required for a complete, weathertight panel system including trim, copings, fasciae, mullions, sills, corner units, clips, flashings, sealants, gaskets, fillers, closure strips, and similar items. Match material and finish of metal panels unless otherwise indicated.

1. Closures: Provide closures at eaves and ridges, fabricated of same metal as metal panels.
2. Backing Plates: Provide metal backing plates at panel end splices, fabricated from material recommended by manufacturer.
3. Closure Strips: Closed-cell, expanded, cellular, rubber or crosslinked, polyolefin-foam or closed-cell laminated polyethylene; minimum 1 inch thick, flexible closure strips; cut or premolded to match metal panel profile. Provide closure strips where indicated or necessary to ensure weathertight construction.

C. Flashing and Trim: Provide flashing and trim formed from same material as metal panels as required to seal against weather and to provide finished appearance. Locations include, but are not limited to, eaves, rakes, corners, bases, framed openings, ridges, fasciae, and fillers. Finish flashing and trim with same finish system as adjacent metal panels.

D. Panel Fasteners: Self-tapping screws designed to withstand design loads.

E. Panel Sealants: Provide sealant type recommended by manufacturer that are compatible with panel materials, are nonstaining, and do not damage panel finish.

1. Sealant Tape: Pressure-sensitive, 100 percent solids, gray polyisobutylene compound sealant tape with release-paper backing; 1/2 inch wide and 1/8 inch thick.
2. Joint Sealant: ASTM C920; as recommended in writing by metal roof panel manufacturer and complying with Section 079200.
3. Butyl-Rubber-Based, Solvent-Release Sealant: ASTM C1311.

2.7 FABRICATION

A. Fabricate and finish metal panels and accessories at the factory, by manufacturer's standard procedures and processes, as necessary to fulfill indicated performance requirements demonstrated by laboratory testing. Comply with indicated profiles and with dimensional and structural requirements.

B. Provide panel profile, including major ribs and intermediate stiffening ribs, if any, for full length of panel.

C. Fabricate metal panel joints with factory-installed sealant that provide a weathertight seal and prevent metal-to-metal contact, and that minimize noise from movements.

D. Sheet Metal Flashing and Trim: Fabricate flashing and trim to comply with manufacturer's recommendations and recommendations in SMACNA's "Architectural Sheet Metal Manual" that apply to design, dimensions, metal, and other characteristics of item indicated.

1. Form exposed sheet metal accessories that are without excessive oil canning, buckling, and tool marks and that are true to line and levels indicated, with exposed edges folded back to form hems.
2. Seams: Fabricate nonmoving seams in accessories with flat-lock seams. Tin edges to be seamed, form seams, and solder.
3. Sealed Joints: Form nonexpansion, but movable, joints in metal to accommodate sealant and to comply with SMACNA standards.

4. Conceal fasteners and expansion provisions where possible. Exposed fasteners are not allowed on faces of accessories exposed to view.
5. Fabricate cleats and attachment devices from same material as accessory being anchored or from compatible, noncorrosive metal recommended in writing by metal panel manufacturer.

    a. Size: As recommended by SMACNA's "Architectural Sheet Metal Manual" or metal panel manufacturer for application, but not less than thickness of metal being secured.

2.8 FINISHES

A. Protect mechanical and painted finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.

B. Appearance of Finished Work: Variations in appearance of abutting or adjacent pieces are acceptable if they are within 1/2 of range of approved Samples. Noticeable variations in same piece are unacceptable. Variations in appearance of other components are acceptable if they are within range of approved Samples and are assembled or installed to minimize contrast.

C. Steel Panels and Accessories:

1. 2-Coat Fluoropolymer: AAMA 621; fluoropolymer finish containing not less than 70 percent polyvinylidene fluoride (PVDF) resin by weight in color coat. Prepare, pretreat, and apply coating to exposed metal surfaces to comply with coating and resin manufacturers' written instructions. Finish consists of the following:

    a. Prime Coat: Minimum total dry film thickness of 0.15 to 0.20 mils.

2. Concealed Finish: Apply pretreatment and manufacturer's standard white or light-colored acrylic or polyester backer finish consisting of prime coat and wash coat

    a. Total Dry Film Thickness: Minimum 0.50 mils.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for installation tolerances, metal panel supports, and other conditions affecting performance of Work.

1. Examine primary and secondary roof framing to verify that rafters, purlins, angles, channels, and other structural panel support members and anchorages have been installed within alignment tolerances required by metal roof panel manufacturer.
2. Examine solid roof sheathing to verify that sheathing joints are supported by framing or blocking, and that installation is within flatness tolerances required by metal roof panel manufacturer.

a. Verify that air- or water-resistive barriers have been installed over sheathing or backing substrate to prevent air infiltration or water penetration.

B. Examine roughing-in for components and systems penetrating metal panels to verify actual locations of penetrations relative to seam locations of metal panels before installation.

C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

A. Miscellaneous Supports: Install subframing, furring, and other miscellaneous panel support members and anchorages according to ASTM C754 and metal panel manufacturer's written recommendations.

3.3 INSTALLATION OF VAPOR-RETARDER

A. Self-Adhering-Sheet Vapor Retarder (SA.SVR): Prime substrate if required by manufacturer. Install self-adhering-sheet vapor retarder over area to receive vapor retarder, side and end lapping each sheet a minimum of 3-1/2 and 6 inches, respectively.

1. Extend vertically up parapet walls and projections to a minimum height equal to height of insulation and cover board.
2. Seal laps by rolling to ensure completely sealed laps.

B. Completely seal vapor retarder at terminations, obstructions, and penetrations to prevent air movement into roofing system.

3.4 INSTALLATION OF INSULATION

A. Coordinate installing roofing system components so insulation is not exposed to precipitation or left exposed at end of workday.

B. Comply with roofing system and insulation manufacturer's written instructions for installing roof insulation.

C. Installation Over Wood Panel Decking:

1. If required by insulation manufacturer, mechanically fasten slip sheet to roof deck using mechanical fasteners specifically designed and sized for fastening slip sheet to wood panel decks.

    a. Fasten slip sheet according to requirements in SPRI's Directory of Roof Assemblies for specified Wind Uplift Load Capacity.
    b. Fasten slip sheet to resist specified uplift pressure at corners, perimeter, and field of roof.

2. Install base layer of insulation with joints staggered as follows:

a. 48 by 48 Inch Insulation Boards: End joints within each layer not less than 24 inches in adjacent rows.
b. 48 by 96 Inch Insulation Boards: Stagger long joints continuous and end joints within each layer not less than 12 inches in adjacent rows.
c. Trim insulation neatly to fit around penetrations and projections, and to fit tight to intersecting sloping roof decks.
d. Make joints between adjacent insulation boards not more than 1/4 inch in width.
e. Fill gaps exceeding 1/4 inch with insulation.
f. Cut and fit insulation within 1/4 inch of nailers, projections, and penetrations.
g. Fully adhere base layer of insulation using adhesive specifically formulated for adhering specified board-type roof insulation to substrate board.

3. Install upper layers of insulation with joints of each layer offset not less than 12 inches from previous layer of insulation and as follows:

a. 48 by 48 Inch Insulation Boards: End joints within each layer not less than 24 inches in adjacent rows.
b. 48 by 96 Inch Insulation Boards: Stagger long joints continuous and end joints within each layer not less than 12 inches in adjacent rows.
c. Trim insulation neatly to fit around penetrations and projections, and to fit tight to intersecting sloping roof decks.
d. Make joints between adjacent insulation boards not more than 1/4 inch in width.
e. Fill gaps exceeding 1/4 inch with insulation.
f. Cut and fit insulation within 1/4 inch of nailers, projections, and penetrations.
g. Set each layer of insulation in ribbons of bead-applied insulation adhesive, firmly pressing and maintaining insulation in place.

3.5 INSTALLATION OF COVER BOARD

A. Install cover boards over insulation with long joints in continuous straight lines and end joints staggered between rows. Offset joints of insulation below a minimum of 6 inches in each direction.

1. Trim cover board neatly to fit around penetrations and projections.
2. Cut and fit cover board tight to nailers, projections, and penetrations.
3. Adhere cover board to substrate by setting cover board in a uniform coverage of full-spread insulation adhesive and firmly pressing and maintaining insulation in place.

3.6 INSTALLATION OF UNDERLAYMENT AND FLASHING

A. Underlayments: Install underlayment as specified in Section 073013 – Roofing Underlayments.

B. Flashings: Install flashings to cover underlayment to comply with requirements specified in Section 076200 – Sheet Metal Flashing and Trim.

3.7 INSTALLATION OF STANDING SEAM METAL ROOF PANELS

A. Install metal panels according to manufacturer's written instructions in orientation, sizes, and locations indicated. Install panels perpendicular to supports unless otherwise indicated. Anchor metal panels and other components of Work securely in place, with provisions for thermal and structural movement.

1. Shim or otherwise plumb substrates receiving metal panels.
2. Flash and seal metal panels at perimeter of openings.

    a. Fasten with self-tapping screws.
    b. Do not begin installation until air- or water-resistive barriers and flashings that will be concealed by metal panels are installed.

3. Install screw fasteners in predrilled holes.
4. Locate and space fastenings in uniform vertical and horizontal alignment.
5. Install flashing and trim as metal panel Work proceeds.
6. Locate panel splices over, but not attached to, structural supports.

    a. Stagger panel splices and end laps to avoid a 4-panel lap splice condition.

7. Align bottoms of metal panels and fasten with blind rivets, bolts, or self-tapping screws.

    a. Fasten flashings and trim around openings and similar elements with self-tapping screws.

8. Provide weathertight escutcheons for pipe- and conduit-penetrating panels.

B. Fasteners:

1. Use stainless steel fasteners for surfaces exposed to exterior; use galvanized-steel fasteners for surfaces exposed to interior.

C. Anchor Clips: Anchor metal roof panels and other components of Work securely in place, using manufacturer's approved fasteners according to manufacturers' written instructions.

D. Metal Protection: Where dissimilar metals contact each other or corrosive substrates, protect against galvanic action as recommended in writing by metal panel manufacturer.

E. Standing-Seam Metal Roof Panel Installation: Fasten metal roof panels to supports with concealed clips at each standing-seam joint at location, spacing, and with fasteners recommended in writing by manufacturer.

1. Install clips to supports with self-tapping fasteners.
2. Install pressure plates at locations indicated in manufacturer's written installation instructions.
3. Seamed Joint: Crimp standing seams with manufacturer-approved, motorized seamer tool so clip, metal roof panel, and factory-applied sealant are completely engaged.
4. Watertight Installation:

    a. Apply a continuous ribbon of sealant to seal joints of metal panels, using sealant as recommend in writing by manufacturer as needed to make panels watertight.

b. Provide sealant between panels and protruding equipment, vents, and accessories.
c. At panel splices, nest panels with minimum 6 inch end lap, sealed with sealant and fastened together by interlocking clamping plates.

F. Accessory Installation: Install accessories with positive anchorage to building and weathertight mounting, and provide for thermal expansion. Coordinate installation with flashings and other components.

1. Install components required for a complete metal panel system including trim, copings, corners, seam covers, flashings, sealants, gaskets, fillers, closure strips, and similar items. Provide types indicated by metal roof panel manufacturers; or, if not indicated, types recommended by metal roof panel manufacturer.

G. Flashing and Trim: Comply with performance requirements, manufacturer's written installation instructions, and SMACNA's "Architectural Sheet Metal Manual." Provide concealed fasteners where possible, and set units true to line and level as indicated. Install Work with laps, joints, and seams that will be permanently watertight and weather resistant.

1. Install exposed flashing and trim that is without buckling and tool marks, and that is true to line and levels indicated, with exposed edges folded back to form hems. Install sheet metal flashing and trim to fit substrates and achieve waterproof and weather-resistant performance.
2. Expansion Provisions: Provide for thermal expansion of exposed flashing and trim. Space movement joints at a maximum of 10 feet with no joints allowed within 24 inches of corner or intersection. Where lapped expansion provisions cannot be used or would not be sufficiently weather resistant and waterproof, form expansion joints of intermeshing hooked flanges, not less than 1 inch deep, filled with mastic sealant (concealed within joints).

H. Pipe Flashing: Form flashing around pipe penetration and metal roof panels. Fasten and seal to metal roof panels as recommended by manufacturer.

3.8 ERECTION TOLERANCES

A. Installation Tolerances: Shim and align metal panel units within installed tolerance of 1/4 inch in 20 feet on slope and location lines as indicated and within 1/8 inch offset of adjoining faces and of alignment of matching profiles.

3.9 REPAIR

A. Replace standing-seam metal panels that have been damaged or have deteriorated beyond successful repair by finish touchup or similar minor repair procedures.

3.10 FIELD QUALITY CONTROL

A. Manufacturer's Field Service: Engage a factory-authorized service representative to test and inspect metal roof panel installation, including accessories. Report results in writing.

B. Remove and replace applications of metal roof panels where tests and inspections indicate that they do not comply with specified requirements.

C. Additional tests and inspections, at Contractor's expense, are performed to determine compliance of replaced or additional Work with specified requirements.

D. Prepare test and inspection reports.

3.11 CLEANING

A. On completion of standing-seam metal panel installation, remove unused materials.

B. Clean exposed metal finished surfaces as recommended in writing by standing-seam metal panel manufacturer. Clear weep holes and drainage channels of obstructions, dirt, and sealant.

3.12 PROTECTION

A. Remove temporary protective coverings and strippable films as standing-seam metal panels are installed unless otherwise indicated in manufacturer's written installation instructions.

B. Maintain standing-seam metal panels in clean condition during construction.

END OF SECTION

SECTION 074233 – PLASTIC WALL PANELS

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Owner-furnished high-pressure laminate panels with solid phenolic polyurethane resin faces for Contractor installation.
2. Substructure framing system.
3. Accessories, including anchors and attachments.

1.2 ADMINISTRATIVE REQUIREMENTS

A. Coordination:

1. Coordinate plastic wall panel assemblies with weather barriers, flashings, trim, and other adjoining Work to ensure proper sequencing.

B. Preinstallation Meetings: Conduct meeting at Project site.

1. Attendance: Owner, Architect, product representative, Installers, and other parties directly affecting Work of this Section.
2. Agenda:

a. Review solid phenolic panel installation requirements, including substrate surface preparation, environmental or site limitations, typical details including attachment and trims, manufacturer's recommended installation procedures, coordination with adjacent construction, testing and inspection procedures, and protection of Work and repair procedures.

1.3 INFORMATIONAL SUBMITTALS

A. Qualification Data: For Installer.

B. Product Test Reports: Based on evaluation of comprehensive tests performed by a qualified testing agency, for composite plastic wall panel.

C. Evaluation Reports: For each type of plastic wall panel required, from ICC-ES.

D. Sample Warranty: For special warranty.

1.4 CLOSEOUT SUBMITTALS

A. Operation and Maintenance Data: Include methods for maintaining installed products and precautions against cleaning materials and methods detrimental to finishes and performance.

B. Maintenance Data: For each type of plastic wall panel product, including substructure framing and related accessories, to include in maintenance manuals.

1.5 QUALITY ASSURANCE

A. Installer Qualifications: An entity, with a minimum of 5 years of documented experience performing work similar to type and scope of this Project, that employs installers and supervisors who are trained and approved by manufacturer.

B. Mockups:

1. Build mockup of typical cladding assembly where indicated on Drawings or as indicated by Architect. Include the following:

    a. Adjacent conditions showing transition detailing to walls, façade terminations, and other materials.
    b. Demonstrate continuity, air, and water tightness of air and water barrier and installation and attachment of continuous exterior insulation.
    c. Typical components, attachments to building structure, and methods of installation.
    d. Outside corner on one end of mockup and inside corner on other end.
    e. Sealant-filled joint complying with requirements in Section 079200 – Joint Sealants.
    f. Clips, fasteners, trim, and other components of system.

2. Size: Not less than 96 inches high.
3. Approval of mockups does not constitute approval of deviations from Contract Documents contained in mockups unless Architect specifically approves such deviations in writing.
4. Subject to compliance with requirements, approved mockups may become part of completed Work if undisturbed at time of Substantial Completion.

1.6 DELIVERY, STORAGE, AND HANDLING

A. Deliver and store materials in manufacturer's original, unopened, undamaged containers with labels intact until time of use.

B. Storage and Protection:

1. Store materials protected from exposure to harmful weather conditions, at temperature and humidity conditions recommended by manufacturer.
2. Comply with manufacturer’s written handling and storage guidelines.

C. Handle panels to prevent abrasion of prefinished surfaces.

1. Lift top panels straight upward from stacks to prevent panel surfaces from sliding across one another.
2. Stage panels for installation in a manner that does not subject finished face to any abrasion.

D. Retain strippable protective covering on plastic wall panels during installation.

1.7 WARRANTY

A. Special Warranty: Manufacturer agrees to repair or replace products that fail in materials or workmanship within specified warranty period.

1. Failures include the following:

a. Color stability, cleaning properties, impact resistance and structural integrity.
b. Deterioration of materials beyond normal weathering.

2. Warranty Period: 10 years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Source Limitations: Obtain products, including related accessories, from single source from single manufacturer.

2.2 PERFORMANCE CRITERIA

A. Design substructure framing and fastener system to provide for movement of components without damage, undue stress on fasteners, or other detrimental effects when subject to Design Wind Pressure and thermal movement.

B. Thermal Movements: Allow for thermal movements from ambient and surface temperature changes by preventing buckling, opening of joints, overstressing of components, failure of joint sealants, failure of connections, and other detrimental effects. Base calculations on surface temperatures of materials due to both solar heat gain and nighttime-sky heat loss.

1. Temperature Change (Range): Minus 112 deg F, ambient; 356 deg F, material surfaces.

C. Fire-Test-Response Characteristics: Provide plastic wall panels and system components with the following fire-test-response characteristics, as determined by testing identical panels and system components per test method indicated below by UL or another testing and inspecting agency acceptable to authorities having jurisdiction. Identify products with appropriate markings of applicable testing agency.

1. Fire-Resistance Characteristics: Provide materials and construction tested for fire resistance per ASTM E119.
2. Intermediate-Scale Multistory Fire Test: Tested mockup, representative of completed multistory wall assembly of which wall panel is a part, complies with NFPA 285 for test method and required fire-test-response characteristics of exterior non-load-bearing wall panel assemblies.
3. Radiant Heat Exposure: NFPA 268; no ignition.
4. Point of Ignition: ASTM D1912; 650 deg F or more.
5. Potential Heat: NFPA 259; acceptable levels.
6. Surface Burning Characteristics: Class A according to ASTM E84:

    a. Flame Spread: 25 or less.
    b. Smoke Developed: 450 or less.

7. UV Stability: Acrylic-PUR resin coating of 100 micron thickness or greater with color stability greater than 4 on Gray Scale.

2.3 SOLID PHENOLIC WALL PANELS

A. Solid Phenolic Wall Panels (PHP-1): Owner-furnished solid phenolic-core panel material with decorative facing on both sides fused to substrate during panel manufacture (not separately laminated), and with eased edges

1. Basis-of-Design Product:

    a. FunderMax GmBH / FunderMax North America: Max Compact Exterior F-Quality.

2.4 ACCESSORIES

A. Wood Blocking: As specified in Section 061000 - Rough Carpentry.

B. Provide starter strips, edge trim, reveal trim, outside and inside corner caps, and other items indicated on Drawings.

1. Provide accessories matching color and texture of adjacent composite wood panel unless otherwise indicated.

C. Air and Water Barriers: Specified in Section 072715 – Nonbituminous Self-Adhering Sheet Air Barriers.

D. Support Systems: Plastic wall panel manufacturer's brackets designed for adjusting out of plumb conditions.

1. Exposed Fastening: Extruded aluminum profiles, clips, closures, fasteners, and tees as indicated on Drawings, fabricated from 6063T5 or 6063T6 alloy aluminum.

    a. Finish: Manufacturer's standard powder coating in black.

2. Concealed Bracket and Rail Components: Extruded aluminum profiles, clips, closures, and tees as indicated on Drawings, fabricated from 6063T5 or 6063T6 alloy aluminum.

    a. Concealed Item Finish: Mill finish.

E. Fasteners: SFS TWS D13 screws or SFS AP 16 rivets as indicated on Drawings or as recommended by plastic wall panel manufacturer for attachment system.

1. Exposed Finish: Match color of panel finish.
2. Concealed Finish: Mill or galvanized.

F. Spacer Washers: Provide EPDM, PVC, or neoprene sealing washers for exposed fasteners.

G. Ventilated Panel System (Rainscreen) Accessories:

1. Provide hanging hooks, mounting rails, and other accessories required by manufacturers for rear-ventilated installation as indicated on Drawings.
2. Ventilation: Continuous screening at top and bottom of panel rainscreen air space designed to provide air flow behind panels but restrict insects from entering air space.

    a. Aluminum, stainless steel, or PVC coated glass-fiber coated mesh as acceptable to plastic wall panel system manufacturer.

2.5 FABRICATION

A. Fabricate solid phenolic wall panels and accessory items in accordance with manufacturer's written recommendations and approved submittals.

B. Fabrication Tolerances:

1. Fabricate panels with uniform thickness of plus/minus 0.03 inch in 10 foot span.
2. Panel Thickness: 1/32 inch maximum.
3. Panel Length: 1/4 inch maximum.
4. Panel Width: 1/4 inch maximum.
5. Non-porous homogenous surface and edges which do not require sealing after cutting or drilling.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of Work.

B. Examine substructure framing to verify that structural panel support members and anchorage have been installed within alignment tolerances required by plastic wall panel manufacturer.

C. Examine sheathing to verify that joints are supported by framing or blocking and that installation is within flatness tolerances required by panel manufacturer.

D. Verify air and water barriers and flashings are correctly installed and ready to accept this Work.

E. Prepare written report, endorsed by Installer, listing conditions detrimental to performance of Work.

F. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

A. Miscellaneous Supports: Install substructure framing, furring, and other miscellaneous panel support members and anchorages according to ASTM C754 and plastic wall panel manufacturer's written recommendations.

3.3 INSTALLATION

A. Comply with manufacturer's written installation instructions.

1. Do not install damaged components.

B. Use recommended cutting tools, equipment, and procedures.

C. Comply with approved Shop Drawings for substructure framing and fastener location and spacing.

D. Maintain minimum 3/4 inch clear air space behind panels and install vent strips at top and bottom of wall as detailed.

3.4 INSTALLATION OF SUBSTRUCTURE FRAMING

A. Ensure that substructure framing is not spaced greater than 49 inches apart and is set plumb and level.

B. Install carrier rails to vertical substructure framing members spaced at maximum distance as recommended by plastic wall panel manufacturer.

C. Install fixing brackets to panels in accordance with selected fastener method.

D. Set panels to established end gap width, as show on approved Shop Drawings.

E. Adjust horizontal alignment between panels and set fasteners.

3.5 INSTALLATION OF PLASTIC WALL PANELS

A. Install wall panels plumb and level and accurately spaced in accordance with manufacturer’s recommendations and approved submittals and Shop Drawings.

B. Fasten wall panels to substructure framing with approved fasteners.

C. Install corner profiles, gaskets, and trim with fasteners and adhesive appropriate for use with adjoining construction as recommended by wall panel manufacturer.

3.6 CLEANING

A. At completion of installation, clean surfaces so they are free of foreign matter using cleaners recommended by material manufacturer.

1. Do not use abrasive cleaning cloths or sponges, or harsh solvents.

B. Completely remove strippable protective covering from panels immediately after installation.

C. Remove construction debris from Project site and legally dispose of offsite.

3.7 PROTECTION

A. Protect installed plastic wall panels from damage by construction activities until Date of Substantial Completion using methods acceptable to plastic wall panel manufacturer.

B. Remove damaged, improperly installed, or otherwise defective panels and replace with new materials complying with specified requirements. Contact panel manufacturer for replacement material that closely matches adjacent panels.

END OF SECTION

NISQUALLY STATE PARK

NEW FULL SERVICE PARK – PHASE 2

ADDENDUM 3

SECTION 074646 – FIBER-CEMENT SIDING

PART 3 - GENERAL

3.2 SUMMARY

A. Section Includes:

1. Fiber-cement siding.

B. Related Requirements:

1. Section 074293 – Soffit Panels, for fiber-cement soffits.

3.3 ADMINISTRATIVE REQUIREMENTS

A. Coordination:

1. Coordinate siding installation with flashings and other adjoining construction to ensure proper sequencing.

B. Preinstallation Meetings: Conduct Meeting at Project site.

3.4 ACTION SUBMITTALS

A. Product Data: For each type of product.

B. Shop Drawings:

1. Provide detailed drawings of atypical, non-standard applications of cementitious siding materials which are outside scope of standard details and specifications provided by manufacturer.

C. Samples for Verification:

1. 12 inch long by actual width Sample of siding.
2. 12 inch long by actual width Samples of trim and accessories.

3.5 INFORMATIONAL SUBMITTALS

A. Product Certificates: For each type of fiber-cement siding.

B. Sealant Certification: From fiber-cement manufacturer indicating acceptance of proposed joint sealant.

C. Product Test Reports: Based on evaluation of comprehensive tests performed by a qualified testing agency, for fiber-cement siding.

D. Research/Evaluation Reports: For each type of fiber-cement siding required, from ICC-ES.

E. Sample Warranty: For special warranty.

3.6 CLOSEOUT SUBMITTALS

A. Maintenance Data: For each type of product, including related accessories, to include in maintenance manuals.

3.7 MAINTENANCE MATERIAL SUBMITTALS

A. Furnish extra materials that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.

1. Furnish full lengths of fiber-cement siding, including related accessories, in a quantity equal to 2 percent of amount installed.

3.8 QUALITY ASSURANCE

A. Installer Qualifications: An entity specializing in performing type of work specified and approved by manufacturer with a minimum of 3 years of documented experience.

B. Mockups:

1. Build mockup of typical wall area as shown on Drawings.
2. Build mockups for fiber-cement siding and soffit, including related accessories.

    a. Size: 48 inches long by 60 inches high.
    b. Include outside corner on one end of mockup and inside corner on other end.

3. Approval of mockups does not constitute approval of deviations from Contract Documents contained in mockups unless Architect specifically approves such deviations in writing.
4. Subject to compliance with requirements, approved mockups may become part of completed Work if undisturbed at time of Substantial Completion.

3.9 DELIVERY, STORAGE, AND HANDLING

A. Deliver and store packaged materials in original containers with labels intact until time of use. Store materials on elevated platforms, under cover, and in a dry location.

3.10 WARRANTY

A. Special Warranty: Manufacturer agrees to repair or replace products that fail in materials or workmanship within specified warranty period.

1. Failures include the following:

a. Structural failures including cracking and deforming.
b. Deterioration of materials beyond normal weathering.

2. Warranty Period FC.SIDING-1: 50 years from date of Substantial Completion.
3. Warranty Period FC.SIDING-2: 30 years from date of Substantial Completion.
4. Warranty Period FC.SIDING-2 Trim Boards: 15 years from date of Substantial Completion.

B. Special Warranty on Panel Finishes: Manufacturer agrees to repair finish or replace fiber-cement panels that show evidence of deterioration of factory-applied finishes within specified warranty period. Deterioration includes the following:

1. Cracking, checking, peeling, or failure of paint to adhere to bare metal.
2. Warranty Period FC.SIDING-1: Minimum 20 years from date of Substantial Completion.

PART 4 - PRODUCTS

4.2 MANUFACTURERS

A. Source Limitations: Obtain FC.SIDING-2 and soffit panels from single source from single manufacturer.

4.3 PERFORMANCE CRITERIA

A. Structural Performance: Provide fiber-cement siding systems capable of withstanding effects of the following loads, based on testing according to ASTM E330:

1. Wind Loads and Other Design Loads: As indicated on Drawings.

B. Seismic Performance: Exterior fiber-cement siding systems, including anchors and connections, shall withstand effects of earthquake motions determined according to ASCE 7.

1. Component Importance Factor: 1.0.

C. Fire-Resistance Ratings: Comply with ASTM E119; testing by a qualified testing agency. Identify products with appropriate markings of applicable testing agency.

4.4 FIBER-CEMENT PRODUCTS, GENERAL

A. Composition: ASTM C1186 Type A, Grade II fiber-cement siding, soffits, and trim are manufactured from Portland cement, sand, water, cellulose fibers, and manufacturers' proprietary additives.

B. Noncombustible when tested according to ASTM E136.

C. Surface Burning Characteristics: ASTM E84; Class A:

1. Flame Spread: 0.
2. Smoke Developed: 25.

D. Labeling: Provide fiber-cement siding that is tested and labeled according to ASTM C1186 by a qualified testing agency acceptable to authorities having jurisdiction.

4.5 FIBER-CEMENT SIDING (FC.SIDING-1)

A. Basis-of-Design Product: Subject to compliance with requirements, provide the following:

1. KMEW USA Inc.: CERACLAD Rain Screen Exterior Siding System.
2. Approved substitution.

B. Panel Size: 10 inch by 10 feet.

C. Panel Thickness: Not less than 5/8 inch.

D. Profile: Urban Cedar.

E. Panel Texture: Wood grain texture.

F. Factory finished with manufacturer's standard 3 coat finish with anti-efflorescence protection.

1. Prefinished Color: Honey NH4992U.

G. Fiber-Cement Trim: Fiber-cement corner units from same collection and same material as panels.

1. Thickness: Not less than 5/8 inch.
2. Returns:3-3/16 inch each side.
3. Vertical Corner:

a. Length: 120 inches
b. Coverage: 5.9 sq. ft.

4. Horizontal Corner:

a. Length: 18 inches
b. Coverage: 0.89 sq. ft.

5. Factory-finished with manufacturer's standard 3 coat finish with anti-efflorescence protection.

    a. Prefinished Color: Match color of FC.SIDING-1.

H. Drainage Furring Channels: ASTM C955; hat-shaped steel furring channels with dimpled face and punched sides to minimize effects of hydrostatic pressure and allow ventilation behind siding system.

1. Material: 0.0451inch thick galvanized structural steel, Grade 33, with G90 coating.
2. Minimum Base-Metal Thickness:
3. Depth: 3/4 inch.
4. Width: 4-3/4 inches overall with 3 inch wide face and 3/4 inch wide legs.

I. Installation Components: Materials recommended by fiber-cement siding manufacturer for intended use, compatible with rainscreen siding system, and matching color and texture of adjacent siding unless otherwise indicated:

1. Starter Bars: Galvanized steel.
2. Caulking Joiner: Aluminum-zinc-magnesium alloy coated steel.
3. Panel and Corner Clips: Aluminum-zinc-magnesium alloy coated steel.
4. Cut Edge Sealer: Concrete sealer recommended by fiber-cement siding manufacturer.
5. Joint Sealant: SLNT-U3 silicone sealant as specified in Section 079200.

    a. Color: Match color of fiber-cement components.

6. Touch-up Paint Kit: Provided by fiber-cement siding manufacturer.

4.6 FIBER-CEMENT SIDING (FC.SIDING-2)

A. Basis-of-Design Product: Subject to compliance with requirements, provide the following:

1. James Hardie Building Products, Inc.: HardiePanel HZ5 Lap Siding Beaded Smooth.
2. Approved substitution.

B. Nominal Thickness: Not less than 5/16 inch.

C. Horizontal Pattern: Boards 8-1/4 to 8-1/2 inches wide in beaded-edge style.

D. Panel Texture: Cedarmill.

E. Factory primed with manufacturer's standard acrylic primer.

F. Fiber-Cement Trim: Fiber-cement corner units from same collection and same material as boards.

1. Thickness: Not less than 5/4 inch.
2. Panel Texture: Urban Grain.
3. Returns: 6 inch each side.

4. Vertical Corner:

    a. Length: 120 inches
    b. Coverage: 5.9 sq. ft.

5. Horizontal Corner:

    a. Length: 18 inches
    b. Coverage: 0.89 sq. ft.

4.7 ACCESSORIES

A. Siding Accessories, General: Provide starter strips, edge trim, outside and inside corner caps, and other items as recommended or provided by fiber-cement panel manufacturer for Project configuration.

    1. Provide accessories matching color and texture of adjacent siding unless otherwise indicated.

B. Closures Components: Premanufactured products complying with the following:

    1. Material: 0.015 inch thick aluminum.
    2. Sizes:

        a. Corners: As indicated on Drawings.
        b. Junction Flashing: 6 inches wide for 3 inch coverage on each side of butt joints.

    3. Surface: Match siding texture.
    4. Finish: Manufacturer's standard primer on exposed surfaces and epoxy coating on concealed surfaces.

C. Flashing: Provide stainless-steel flashing complying with Section 076200 – Sheet Metal Flashing and Trim at window and door heads and where indicated.

D. Fasteners: Stainless steel for fastening fiber cement.

    1. For fastening to wood, use siding nails or ribbed bugle-head screws of sufficient length to penetrate a minimum of 1 inch into substrate.

E. Paint: As specified in Section 099000 –Painting and Coating, and acceptable to fiber-cement siding manufacturer.

    1. Provide primer acceptable to fiber-cement panel manufacturer if panels are not shop-primed.

F. Joint Sealant: SLNT-U3 urethane sealant, as specified in Section 079200 and acceptable to fiber-cement manufacturer, that provides 2 sided adhesion.

    1. Color: Match color of fiber-cement components.

PART 5 - EXECUTION

5.2 EXAMINATION

A. Examine substrates for compliance with requirements for installation tolerances and other conditions affecting performance of fiber-cement siding and related accessories.

B. Verify that weather or air barrier has been installed over substrate completely and correctly, and is ready to receive Work of this Section.

C. Verify that flashing is installed above door and window trim and casings, above horizontal trim between panels, and where else indicated.

D. Proceed with installation only after unsatisfactory conditions have been corrected.

5.3 PREPARATION

A. Clean substrates of projections and substances detrimental to application.

5.4 INSTALLATION

A. Comply with manufacturer's written installation instructions applicable to products and applications indicated unless more stringent requirements apply.

1. Do not install damaged components.
2. Install fasteners no more than 16 inches on center.
3. Clean cut and exposed panel edges and apply cut edge sealer.
4. Install joint sealants to produce a weathertight installation where indicated or required.

B. FC.SIDING-1:

1. Begin panel installation at left hand inside or outside corner. Continue working left to right and bottom to top.
2. Seat flat edge of panel on vertical starter bar.
3. Install first clip as close to starter bar as possible and no more than 3 inches above starter bar. Install additional clips within 3 inches of panel edges.
4. Install panel clips to ship-lapped edge of panel minimum 16 inches on enter to secure panel to wall and to maintain desired cavity for air circulation.
5. Fit panels tightly together on both horizontal and vertical joints ensuring that panel edges are properly seated in clips.
6. Do not directly fasten items to panels. Provide blocking behind panel and fasten objects through panels into blocking and building frame.

C. FC.SIDING-2:

1. Install minimum 1/4 inch thick starter strip at bottom course of wall. Apply planks horizontally with bottom edge of first plank overlapping starter strip and minimum 1-1/4 inch wide laps at top.
2. Allow minimum vertical clearance between edge of siding and other materials in accordance with manufacturer's installation instructions
3. Install fiber-cement boards with minimum space between butt joints to allow for thermal movement.
4. Align vertical butt joints over center of framing members.
5. Vertical butt joints not installed this way will be unacceptable.
6. Space butt joints occurring in adjacent planks a minimum of 32 inches apart to avoid stair-step pattern of vertical butt joints.
7. Locate vertical butt joints a minimum of 12 inches away from standing trim at door and window openings.
8. Install joint sealants between boards to produce a weathertight installation where indicated or required.

D. Trim Boards:

1. Install materials according to siding manufacturer's written instructions.
2. Ensure flashing is installed around wall openings.
3. Fasten trim into framing, sheathing, or blocking as indicated on Drawings, using manufacturer's recommended fasteners at manufacturer's recommended spacing.
4. Inside Corners: Trim with single board trim both sides of corner.
5. Outside Corners: Attach trim on both sides of corner.
6. Allow 1/8 inch gap between trim and siding.
7. Seal gap with specified joint sealant.
8. Fasten through overlapping boards. Do not nail between lap joints.

E. Roof Edge Flashing:

1. Where vertical surfaces of fiber-cement panels meet roof edge flashing, provide 2 inch clearance between flashing and edge of fiber-cement panels, or as recommended by fiber cement siding manufacturer.

F. Tolerances:

1. Maximum Variation of Siding Courses: Plumb, level, and out of plane within 1/4 inch tolerance in 10 foot.
2. Maximum Offset Joint Alignment: 1/16 inch.

5.5 ADJUSTING

A. Remove damaged, improperly installed, or otherwise defective materials and replace with new materials complying with specified requirements.

5.6 CLEANING

A. Clean finished surfaces according to manufacturer's written instructions and maintain in a clean condition during construction.

B. Where required by Federal, state, or local jurisdictions, provide acceptable means of containing and disposing of dust and debris created by handling, cutting, and installing of fiber-cement panels.

END OF SECTION

SECTION 096813 – TILE CARPETING

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Modular carpet tile.

1.2 ADMINISTRATIVE REQUIREMENTS

A. Preinstallation Meeting: Conduct meeting at Project site.

1. Review methods and procedures related to carpet tile installation including the following:

a. Review delivery, storage, and handling procedures.
b. Review ambient conditions and ventilation procedures.
c. Review subfloor preparation procedures.

1.3 ACTION SUBMITTALS

A. Product Data: For each type of product.

1. Include manufacturer's written data on physical characteristics, durability, and fade resistance.
2. Include manufacturer's written installation recommendations for each type of substrate.

B. Shop Drawings: For carpet tile installation, plans showing the following:

1. Columns, doorways, enclosing walls or partitions, built-in cabinets, and locations where cutouts are required in carpet tiles.
2. Carpet tile type, color, and dye lot.
3. Type of subfloor.
4. Type of installation.
5. Pattern of installation.
6. Pattern type, location, and direction.
7. Pile direction.
8. Type, color, and location of insets and borders.
9. Type, color, and location of edge, transition, and other accessory strips.
10. Transition details to other flooring materials.

C. Samples for Verification: For each of the following products and for each color and texture required. Label each Sample with manufacturer's name, material description, color, pattern, and designation indicated on Drawings and in schedules.

1. Carpet Tile: Full-size Sample.
2. Exposed Edge, Transition, and Other Accessory Stripping: 12 inch long Samples.

1.4 INFORMATIONAL SUBMITTALS

A. Qualification Data: For Installer.

B. Product Test Reports: For carpet tile, for tests performed by a qualified testing agency.

1.5 CLOSEOUT SUBMITTALS

A. Maintenance Data: For carpet tiles to include in maintenance manuals. Include the following:

1. Methods for maintaining carpet tile, including cleaning and stain-removal products and procedures and manufacturer's recommended maintenance schedule.
2. Precautions for cleaning materials and methods that could be detrimental to carpet tile.

1.6 MAINTENANCE MATERIAL SUBMITTALS

A. Furnish extra materials, from same product run, that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.

1. Carpet Tile: Full-size units equal to 5 percent of amount installed for each type indicated, but not less than 2 complete cartons.

1.7 QUALITY ASSURANCE

A. Installer Qualifications: An experienced installer with a minimum of 3 years of experience, who is certified by the International Certified Floorcovering Installers Association at Commercial II certification level.

1.8 DELIVERY, STORAGE, AND HANDLING

A. Comply with CRI's "CRI Carpet Installation Standard."

1.9 FIELD CONDITIONS

A. Comply with CRI's "CRI Carpet Installation Standard" for temperature, humidity, and ventilation limitations.

B. Environmental Limitations: Do not deliver or install carpet tiles until spaces are enclosed and weathertight, wet-Work in spaces is complete and dry, and ambient temperature and humidity conditions are maintained at levels planned for building occupants during remainder of construction period.

C. Do not install carpet tiles over concrete slabs until slabs have cured and are sufficiently dry to bond with adhesive and concrete slabs have pH range recommended by carpet tile manufacturer.

D. Where items are indicated for installation on top of carpet tiles, install carpet tiles before installing these items.

1.10 WARRANTY

A. Special Warranty for Carpet Tiles: Manufacturer agrees to repair or replace components of carpet tile installation that fail in materials or workmanship within specified warranty period.

1. Warranty does not include deterioration or failure of carpet tile due to unusual traffic, failure of substrate, vandalism, or abuse.
2. Warranty Period: Limited lifetime from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 REGULATORY REQUIREMENTS

A. Accessibility Standard: Comply with applicable provisions in DOJ's "2010 ADA Standards for Accessible Design" and ICC A117.1.

2.2 CARPET TILE

A. Modular Carpet Tile (CPT1):

1. Products: Subject to compliance with requirements, provide products specified in Interior Floor Finish Schedule on Drawings or approved substitution.
2. Product Standard: ASTM F1303.

B. Material: Provide carpet tile that meets the minimum following requirements:

1. Construction: Multi-level pattern loop.
2. Fiber: EcoSolution Q Nylon or other nylon 6, 6 fiber.
3. Dye Method: 100 percent solution dyed.
4. Primary Backing: Synthetic.
5. Secondary Backing: EcoWorx Tile or other PVC-free backing.
6. Finished Pile Thickness: 0.098 inch.
7. Total Thickness: 0.244 inch.
8. Stitches: 10.0 per inch.
9. Gage: 1/12 inch.
10. Tufted Weight: 18 oz./cu. yd tile.
11. Density: 6,612 oz./cu. yd.
12. Size: As indicated on Drawings.
13. Applied Treatments:

a. Applied Soil-Resistance Treatment: Manufacturer's standard material.
b. Antimicrobial Treatment: Manufacturer's standard material.

1) Antimicrobial Activity: Not less than 2-mm halo of inhibition for gram-positive bacteria, not less than 1-mm halo of inhibition for gram-negative bacteria, and no fungal growth, according to AATCC 174.

C. Performance Criteria:

1. Electrostatic Propensity: Less than 3.5 kV according to AATCC 134.
2. Critical Radiant Flux Classification: Not less than 0.22 W/sq. cm according to NFPA 253.

2.3 ACCESSORIES

A. Trowelable Leveling and Patching Compounds: Latex-modified, hydraulic-cement-based formulation provided or recommended by carpet tile manufacturer.

B. Adhesive Tape: Water-resistant type, compatible with flooring, recommended by manufacturer to suit carpet and substrate conditions indicated, complying with the following moisture resistant properties:

1. Composition: Compounded acrylic adhesive, applied to PET polyester backing with PET polyester release liner.
2. Solids: Greater than 99 percent.
3. Size: 3 inch by 3 inch.
4. Suitable for use over new concrete substrates with in-situ moisture measurements of up to 80 percent RH as measured by ASTM F2170 or moisture vapor emission rate (MVER) of up to 3 pounds per ASTM F1869, and a pH of 10.

C. Metal Edge/Transition Strips: Extruded aluminum with mill finish of profile and width shown, of height required to protect exposed edge of carpet, and of maximum lengths to minimize running joints.

D. Resilient Transition Strips: Specified in Section 096513 – Resilient Base and Accessories.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for maximum moisture content, alkalinity range, installation tolerances, and other conditions affecting carpet tile performance.

B. Examine carpet tile for type, color, pattern, and potential defects.

C. Concrete Slabs: Verify that finishes comply with requirements specified in Section 033000 – Cast-in-Place Concrete and that surfaces are free of cracks, ridges, depressions, scale, and foreign deposits.

1. Moisture Testing: Perform tests so that each test area does not exceed 200 sq. ft., and perform no fewer than 3 tests in each installation area and with test areas evenly spaced in installation areas.

a. Anhydrous Calcium Chloride Test: ASTM F1869. Proceed with installation only after substrates have maximum moisture-vapor-emission rate of 3 lb of water/1,000 sq. ft. in 24 hours.

b. Relative Humidity Test: Using in situ probes, ASTM F2170. Proceed with installation only after substrates have a maximum 75 percent relative humidity level measurement.
c. Perform additional moisture tests recommended in writing by adhesive and carpet tile manufacturers. Proceed with installation only after substrates pass testing.

D. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

A. Comply with the Carpet and Rug Institute's CRI 104 and with carpet tile manufacturer's written installation instructions for preparing substrates indicated to receive carpet tile.

B. Use trowelable leveling and patching compounds, according to manufacturer's written instructions, to fill cracks, holes, depressions, and protrusions in substrates. Fill or level cracks, holes and depressions 1/8 inch wide or wider, and protrusions more than 1/32 inch unless more stringent requirements are required by manufacturer's written instructions.

C. Concrete Substrates: Remove coatings, including curing compounds, and other substances that are incompatible with adhesives and that contain soap, wax, oil, or silicone, without using solvents. Use mechanical methods recommended in writing by adhesive and carpet tile manufacturers.

D. Broom and vacuum clean substrates to be covered immediately before installing carpet tile.

3.3 INSTALLATION OF TILE CARPETING

A. Comply with Carpet and Rug Institute's CRI 104, Section 10, "Carpet Tile," and with carpet tile manufacturer's written installation instructions.

B. Installation Method: Manufacturer's recommended self-adhesive tape dots.

C. Maintain dye-lot integrity. Do not mix dye lots in same area.

D. Maintain pile-direction patterns recommended in writing by carpet tile manufacturer.

E. Cut and fit carpet tile to butt tightly to vertical surfaces, permanent fixtures, and built-in furniture including cabinets, pipes, outlets, edgings, thresholds, and nosings. Bind or seal cut edges as recommended by carpet tile manufacturer.

F. Extend carpet tile into toe spaces, door reveals, closets, open-bottomed obstructions, removable flanges, alcoves, and similar openings.

G. Maintain reference markers, holes, and openings that are in place or marked for future cutting by repeating on carpet tile as marked on subfloor. Use nonpermanent, nonstaining marking device.

H. Install pattern parallel to walls and borders.

I. Access Flooring: Stagger joints of carpet tiles so carpet tile grid is offset from access flooring panel grid. Do not fill seams of access flooring panels with carpet adhesive; keep seams free of adhesive.

3.4 CLEANING

A. Perform the following operations immediately after installing carpet tile:

1. Remove excess adhesive and other surface blemishes using cleaner recommended by carpet tile manufacturer.
2. Remove yarns that protrude from carpet tile surface.
3. Vacuum carpet tile using commercial machine with face-beater element.

3.5 PROTECTION

A. Protect installed carpet tile to comply with the Carpet and Rug Institute's CRI 104, Section 13.7.

B. Protect carpet tile against damage from construction operations and placement of equipment and fixtures during remainder of construction period. Use protection methods indicated or recommended in writing by carpet tile manufacturer.

END OF SECTION

SECTION 137000 – DIAMOND PIER FOUNDATION

PART 1 - GENERAL

1.1 SCOPE/DESCRIPTION

A. The general conditions, alternates and addenda, applicable drawings, and technical specifications shall apply to all work under this section.

B. The contractor shall furnish all materials, labor, equipment, and incidentals as shown, specified, and required to install Diamond Pier foundations for the Ohop Boardwalk and Overlooks.

C. Work includes preparing site and soil; furnishing and preparing foundation components; aligning, leveling, plumbing, and installing foundation components; setting and driving foundation pins; and capping pins.

1.2 RELATED WORK

A. Section 133700 Boardwalk

B. Section 311100 Clearing and Grubbing

C. Section 312000 Earth Moving

1.3 REFERENCES/STANDARDS

A. ASTM A 53 – Standard Specification for Pipe

B. ASTM A153 – Standard Specification for Zinc Coating on Hardware

C. ASTM, ACI, and CRSI standards for precast concrete products

D. ASTM C1116/C1116M-10a – Standard Specification for Synthetic Fiber Reinforcing – Type III, when applicable

1.4 SUBMITTALS

A. Latest edition of Commercial Installation Instructions for public or commercial projects.

B. Manufacturers or Engineer's evaluation of foundation system load capacities for this project.

1. Quality Assurance/Testing
2. Stamped certified soil testing and outside inspection or vendor supervision will be paid for by the owner.

C. Product Data:

1. Manufacturer's data sheets on each product to be used.
2. Preparation instructions and recommendations.
3. Storage and handling requirements and recommendations.

1.5 DELIVERY/STORAGE AND HANDLING

A. Contractor shall verify upon delivery that all the proper materials have been received.

B. Contractor shall protect the materials from damage. See “Temporary Product Storage” in the Commercial Installation Instructions.

C. Contractor shall review MSDS documents and, when required, maintain a copy on site at all times.

1.6 QUALITY ASSURANCE

A. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section with a minimum of five years documented experience.

B. Installer Qualifications: Company specializing in performing Work of this section with minimum five years documented experience with projects of similar scope and complexity.

C. Source Limitations: Provide each type of product from a single manufacturing source to ensure uniformity.

D. Mock-Up: Construct a mock-up with actual materials in sufficient time for Landscape Architect's review and to not delay construction progress. Locate mock-up as acceptable to Landscape Architect and provide temporary foundations and support.

1. Intent of mock-up is to demonstrate quality of workmanship and visual appearance.
2. If mock-up is not acceptable, rebuild mock-up until satisfactory results are achieved.
3. Retain mock-up during construction as a standard for comparison with completed work.
4. Do not alter or remove mock-up until work is completed or removal is authorized.
5. Mock-up may become part of the finished work as approved by the Landscape Architect.

PART 2 - BASIS OF DESIGN

2.1 MANUFACTURER

A. Pin Foundations, Inc. Facility Address: 2105 34th Ave. NW, Gig Harbor, WA 98335, phone 253-858-8809. Mailing Address: 4810 Pt. Fosdick Dr. NW, PMB 60, Gig Harbor, WA 98335. Contact Mike Donoghue (508.479.9299).

2.2 SYSTEM TYPE

A. Diamond Pier foundation – DP-100E – Precast heads to be minimum 5500 psi concrete, minimum 3/8" aggregate, with 5- 7% total air entrainment, and no reinforcing fibers.

2.3 PINS/CAPACITY

A. Four pins per pier. Capacity relative to length, diameter, and driving angle in site-specific soils. Stamped capacities shall rely on stamped local geotechnical evaluations and complete project loading and site information. All pins to be minimum Schedule 40 galvanized steel pipe (UNO) with butt cut driving ends (UNO).

B. DP-100E to use 1-1/2" nominal pipe – 1.9" actual OD. Pins to be capped with UV resistant vinyl caps. Sealable caps to be sealed with 50-year adhesive caulk (UNO).

2.4 CONNECTIONS/POSTS/BEAMS

A. Diamond Pier connection to be galvanized steel post base attached to pier with single galvanized anchor bolt (UNO) provided by manufacturer.

B. Pressure-treated posts to have factory treated ends at bracket interface when feasible.

PART 3 - EXECUTION

3.1 INSPECTION

A. Contractor shall verify superstructure layout, spans, and resulting loads for consistency with the manufacturers or engineer's evaluated capacities and report any inconsistencies to the owner's agent prior to installation.

3.2 SITE PREP

A. Use of heavy equipment and/or alteration of site soils or vegetation to be kept to a minimum to avoid compaction, erosion, and the need for site repair or replanting.

3.3 EQUIPMENT/INSTALLATION

A. Install per manufacturer Diamond Pier Foundation Installation Manual, included in the appendix at the end of the project manual.

B. Pins to be full length as specified before driving. No coupled or welded pins are to be used.

C. Follow Commercial Installation Instructions for pier placement and pin driving

D. Pins may be cut off in a partially driven position if they meet substantial resistance in the soil as verified by Owner.

END OF SECTION

SECTION 323116 - SECURITY CANTILEVERED SLIDE GATES

PART 1 - GENERAL

1.1 DESCRIPTION

A. The work in this section shall include furnishing all labor, materials, equipment, and appliances necessary to complete construction of all Security Cantilevered Slide Gates and Slide Gate Operators (also known as Hydraulic Gate Operators) required for this project in strict accordance with this specification section and drawings.

B. References used below, and in other instances in this Section, are generally accepted industry standards. The edition of the criteria cited shall be the most recently published edition, including amendments, at the time of bid.

1.2 REFERENCES

A. Underwriters Laboratory Gate Operator Requirements (UL 325).

1. Operators shall be built to UL325 standards and be listed by a testing laboratory. Complete all electrical work according to local codes and National Electrical code. All fieldwork shall be performed in a neat and professional manner, completed to journeyman standards.
2. Current safety standards require the use of multiple external sensors to be capable of reversing the gate in either direction upon sensing an obstruction. Also see 2.02 D.
3. Vehicle gates should never be used by pedestrians. Separate pedestrian gates must always be provided when foot traffic is present.
4. Current safety standards require gate operators to be designed and labeled for specific usage classes. Hydraulic Operator 222 E ST gate operators are to be used on Classes I, II, III and IV installations.

B. ASTM F 2200 - Standard Specification for Automated Vehicular Gate Construction.

C. ASTM F 1184 - Standard Specification for Industrial and Commercial Horizontal Slide Gates, Type II, Class 2.

D. American Welding Society AWS D1.2 Structural Welding Code.

1.3 SUBMITTAL

A. Product Data:

1. Provide manufacturer’s catalog cuts with printed specifications and installation instructions.
2. Deliver two (2) copies of operation and maintenance data covering the installed products, including name, address and telephone number of the nearest fully equipped service center.

3. Each operator shall bear a label indicating that the operator mechanism has been tested for full power and pressure of all hydraulic components, full stress tests of all mechanical components and electrical tests of all overload devices.

B. Shop drawings:

1. Supply shop drawings showing the relationship of operating systems with gate components, including details of all major components.
2. Include complete details of gate construction, gate height and post spacing dimensions.

C. Certification of Performance Criteria:

1. Manufacturer of gate system shall provide certification stating the gate system includes the following material components that provide superior performance and longevity. Alternate designs built to minimum standards that do not include these additional structural features shall not be accepted.

    a. Gate track system shall be keyed to interlock into gate frame member (providing 200% additional strength when compared to weld only keyless systems). When interlocked with and welded to the "keyed" frame top member, gate track forms a composite structure.
    b. Gate shall have a minimum counterbalance length of 50% opening width which provides a 36% increase in lateral resistance (when compared to ASTM minimum of 40% counterbalance). If gate is ever to be automated, counterbalance section shall be filled with fabric or other specified material.
    c. To provide superior structural integrity, intermediate vertical members shall be used - with spacing between verticals to be less than 50% of the gate frame height.
    d. Entire gate frame (including counterbalance section) shall include 2 adjustable stainless or galvanized steel cables (minimum 3/16”) per bay to allow complete gate frame adjustment (maintaining strongest structural square and level orientation).
    e. Gate truck assemblies shall be tested for continuous duty and shall have precision ground and hardened components. Bearings shall be pre-lubricated and contain shock resistant outer races and captured seals.
    f. Gate truck assemblies shall be supported by a minimum 5/8” plated steel bolt with self aligning capability, rated to support a 2,000 # reaction load.
    g. Hanger brackets shall be hot dipped galvanized steel with a minimum 3/8” thickness that is also gusseted for additional strength.
    h. Gate top track and supporting hangar bracket assemblies shall be certified by a licensed professional engineer to withstand a 2,000 lb. vertical reaction load without exceeding allowable stresses.
    i. Gate is to be designed to meet specified ASCE-7 wind load requirements with the gate in the closed and latched condition only. Typical gate design is expected to operate satisfactorily in winds up to 30 MPH. Depending on gate panel infill, winds higher than 30 MPH may cause gate operational problems (if automated, operator entrapment may trigger; gate panel may not engage receiver). For sites with higher operational, non-typical, or specified wind loadings, manufacturer should be advised of the site conditions and a specifically engineered design will be offered.

D. Certifications:

1. The Structural Cantilever Slide Gate must be cycle-tested and certified per section 2.04 B.
2. The aluminum welders and welding process for gate manufacture must be certified per section 2.04 C.
3. Operator Manufacturer: A company specializing in the manufacture of hydraulic gate operators of the type specified, with a minimum of ten years' experience.
4. Manufacturer shall supply gate design performance certification as per section 1.03 C.

PART 2 - PRODUCTS

2.1 SLIDE GATE OPERATOR (HYDRAULIC GATE OPERATOR)

A. Slide Gate Operator (Hydraulic Gate Operator) shall be SlideDriver 40 (222 E ST) with Smart Touch Controller as manufactured by HySecurity (Phone: 800-321-9947) or approved equal.

B. Operation shall be by means of a metal rail passing between a pair of reinforced composite wheels with polyurethane treads. Operator motors shall be hydraulic, geroller type, and system shall not include belts, gears, pulleys, roller chains or sprockets to transfer power from operator to gate panel. The operator shall generate a minimum horizontal pull of 300 lb (136 kg) without the drive wheels slipping and without distortion of supporting arms. Operator shall be capable of handling gates weighing up to 4,000 lb (1,814 kg). Gate panel velocity shall not be less than 1 ft/s (304 mm/s) and shall be stopped gradually to prevent shock loads to the gate and operator assembly. The "soft-stop" feature of the gate operator shall be controlled by two adjustable hydraulic brake valves (one for each direction).

C. Standard mechanical components shall include as a minimum:

1. Supporting arms: Cast aluminum channel. Arms shall incorporate a fully bushed, 1 1/2" (38 mm) bronze bearing surface, acting on arm pivot pins. (item 2 below)
2. Arm pivot pins: 3/4" (19 mm) diameter, stainless steel, with integral tabs for ease of removal.
3. Tension spring: 2 1/2" (63 mm) heavy duty, 800 lb (363 kg) capacity.
4. Tension adjustment: Finger tightened nut, not requiring the use of tools.
5. Drive release: Must instantly release tension on both drive wheels and disengage them from contact with drive rail in a single motion, for manual operation.
6. Limit switches: Fully adjustable, toggle types, with plug connection to control panel.
7. Chassis: 1/4" (6 mm) steel base plate, and 12 Ga. (3 mm) sides and back welded and ground smooth.
8. Cover: 16 Ga. (1 mm) zinc plated steel with textured TGIC polyester powder coat finish. All joints welded, filled and ground smooth. Finished corners square and true with no visible joints.
9. Finish: Zinc plated steel with textured TGIC polyester powder coat finish, proven to withstand 1,000 hour salt spray test.
10. Drive wheels: Two 6" diam (152 mm) AdvanceDrive wheels. High-strength composite hub with polyurethane over mold.
11. Drive rail: Shall be extruded 6061 T6, not less than 1/8" (3 mm) thick. Drive rail shall incorporate alignment pins for ease of replacement or splicing. Pins shall enable a perfect butt splice.

12. Hydraulic hose: Shall be 1/4" (6 mm) synthetic, rated to 3,000 psi (20.6 MPa).
13. Hydraulic valves: Shall be individually replaceable cartridge type, in an integrated hydraulic manifold.
14. Hose fittings: At manifold shall be quick-disconnect type, others shall be swivel type.
15. Hydraulic fluid: High performance type with a viscosity index greater than 375 and temperature range -40° F to 158° F (-40° C to 70° C).
16. A zero to 2,000 psi (13.7 MPa) pressure gauge, mounted on the manifold for diagnostics, shall be a standard component.
17. The hydraulic fluid reservoir shall be formed from a single piece of metal, non-welded, and shall be powder painted on the inside and the outside, to prevent fluid contamination.

D. Minimum standard electrical components:

1. Pump motor: 1 hp, 3450 RPM, 56C, TEFC. Standard voltages available in single or three phase.
2. All components shall have overload protection.
3. Electrical enclosure: Type 1, metal, with hinged lid gasketed for protection from intrusion of foreign objects.
4. Controls: Smart Touch Controller Board containing:

    a. inherent entrapment sensor;
    b. built in audible “warn before operate” system;
    c. built in timer to close;
    d. 32 character OLED display for reporting of functions and codes;
    e. multiple programmable output relay options;
    f. anti-tailgate mode;
    g. built-in power surge/lightning strike protection;
    h. menu configuration, event logging and system diagnostics easily accessible with a PC and HySecurity’s free Smart Touch Analyze and Retrieve Tool;
    i. RS-232 port for connection to laptop or other computer peripheral and RS-485 connection for network interface.
    j. Dual gate communication connection for bi-parting, sally port, or sequenced gates.
    k. Electromechanical and solid state relays.
    l. Radio option outputs.
    m. 21 inputs for site specific configurations.

5. Transformer: 75 VA, non-jumpered taps, for all common voltages.
6. Control circuit: 24VDC.
7. Power: 208 VAC single phase

E. Obstruction Sensing Systems:

1. The inherent motor current sensors are part of the gate operator system and may not be removed or bypassed.
2. Required external sensors: See 1.02 B2. EMX IRM-MON Photo Eyes and ASO Edge Sensor, or approved equals, to be installed such that the gate will reverse in either direction upon sensing an obstruction. All safety devices conform to the UL 325 approved safety devices for HySecurity operators.

F. Additional control devices:

1. Radio control: Inti Transmitters (Model: INTI2/A) and OXI/A Receiver or approved equal. Provide one (1) OXI/A Receiver per slide gate ophydraulic gate operator and (3) Inti Transmitters per hydraulic gate operator. Intii transmitters shall be color-coded by gate. Submit product cutsheet to Owner for color selection during shop drawing process.
2. Fire Box with Knox Keyswitch: Security Brand 15-013 Fire box with Knox keyswitch or approved equal, emergency vehicle open device to be installed as dictated by local code.
3. Key operated cable manual release (secure side of gate).
4. Detection Loops: HY5B automatic loop detector assembly or approved equal.
5. Smart Keypad and Card Reader: Security Brand 27-230 Edge E3 Smart Keypad / Card Reader.
6. Gate Access Controller: NEMA 4 Exterior Three Button Surface Mount Control Station or approved equal.

2.2 FACTORY TESTING

A. Fully assemble and test, at the factory, each gate operator to assure smooth operation, sequencing, and electrical connection integrity. Apply physical loads to the operator to simulate field conditions. Tests shall simulate physical and electrical loads equal to the fully rated capacity of the operator components.

B. Check all operator mechanical connections for tightness and alignment. Check all welds for completeness and continuity. Check welded corners and edges to assure they are square and straight.

C. Inspect operator painted finish for completeness and gloss. Touch up imperfections prior to shipment.

D. Check all hydraulic hoses and electrical wires to assure that chafing cannot occur during shipping or operation.

2.3 SECURITY CANTILEVER SLIDE GATE MANUFACTURERS

A. The cantilever sliding gate shall be manufactured by Tymetal Corp., 678 Wilbur Avenue, Greenwich, NY 12834 (Phone: 800-328–4283), or approved equal.

B. Cantilever Slide Gate manufacturer shall submit test results upon request stating that the gate panel has been tested in an operated system for 200,000 cycles.

C. Gate manufacturer shall provide independent certification as to the use of a documented Welding Procedure Specification and Procedure Qualification Record to insure conformance to the AWS D1.2 welding code. Upon request, Individual Certificates of Welder Qualification documenting successful completion of the requirements of the AWS D1.2 code shall also be provided.

2.4 SECURITY CANTILEVER SLIDE GATE

A. Security Cantilever Slide Gate System dimensions shall be as shown on the detail drawings.

B. Structural Gate Frame:

1. The gate frame shall be fabricated from 6063-T6 aluminum alloy extrusions. The top member shall be a 3" x 5" aluminum structural channel/tube extrusion weighing not less than 3.0 lb/lf (4.4kg/m). To maintain structural integrity this frame member shall be "keyed" to interlock with the "keyed" track member. If fabricated as a single horizontal piece, the bottom member shall be a 2" x 5" aluminum structural tube weighing not less than 2.0 lb/lf. If fabricated in two horizontal pieces, the bottom member shall be a 5" aluminum structural channel weighing not less than 2.65 lb/lf, and the two horizontal pieces or sections shall be spliced in the field (the gate frame shall be fabricated in one or multiple sections depending on size requirements or project constraints).
2. Vertical Members:

    a. The vertical members at the ends of the opening portion of the frame shall be "P" shaped in cross section with a nominal base dimension of no less than 2" x 2" (51mm x 51mm) and weighing not less than 1.6 lb/lf (2.3kg/m). The intermediate vertical members shall alternate between 2" x 2" (51mm x 51mm) and 1" x 2" (25mm x 51mm) in cross section weighing not less than 1.1 lb/lf (1.6kg/m) and 0.82 lb/lf (1.2kg/m) respectively.
    b. Intermediate 1" x 2" (25mm x 51mm) vertical members weighing not less than .82 lb/lf shall alternate between 2" x 2" major members.

C. Splicing:

1. A ¼" x 5" x 24" galvanized steel splice plate shall be used to secure the two bottom channel members together utilizing eight (8) plated carriage bolts with lock nuts. The top members will be spliced together using a ¼" x 2" x 24" aluminum splice plate secured with six (6) drive rivets on one side and welded to the top member on the other side. The track is overlapped onto the opposing section in an alternating fashion, interlocking with the top primary member.

D. Gate Track:

1. The gate shall have a separate semi-enclosed "keyed" track, extruded from 6005A-T61 or 6105 T5 aluminum alloy, weighing not less than 2.9 lb/lf. Track members are to be located on each side of the top member. When interlocked and welded to the "keyed" top member, it forms a composite structure with the top of the gate frame. Welds are to be placed alternately along the top and side of the track at 9" centers with welds being a minimum of 2" long.

E. All welds on the gate frame shall conform to Welding Procedure Specification and Procedure Qualification Record to insure conformance to the AWS D1.2 Structural Welding Code. All individual welders shall be certified to AWS D1.2 welding code. See 1.02 D.

F. Gate Mounting:

1. The gate frame is to be supported from the track by four (4) swivel type, self-aligning, 4 wheeled, sealed lubricant, ball-bearing truck assemblies.
2. The bottom of each support post shall have a bracket equipped with a pair of 3" (76mm) UHMW guide wheels. Wheel cover protectors shall be included with bottom guides to comply with UL325.
3. Gap protectors shall be provided and installed, compliant with ASTM F 2200.

G. Diagonal Bracing:

1. Diagonal "X" bracing of 3/16" or ¼" diameter stainless or galvanized steel cable shall be installed throughout the entire gate frame.

H. Gate Panels:

1. Gate Panels shall be provided by the Owner and installed by the Contractor.

I. Posts:

1. Double sets of support posts shall be minimum 4" O.D. (102mm) round SS40 or 4" x 4" x 3/16" wall square steel tubing, grade 500. Gate posts shall be galvanized or coated and supported in concrete footings as specified by the design team.

J. Finish:

1. Gate to be mill finish aluminum.

K. Gate Lock:

1. Gate system shall be furnished with a secure gate catcher. The catcher shall prevent the gate panel from being pried open while the gate is in the closed and locked position.

PART 3 - EXECUTION

3.1 SITE INSPECTION

A. Final grades and installation conditions shall be examined. Installation shall not begin until all unsatisfactory conditions are corrected.

B. Locate concrete mounting pad in accordance with approved shop drawings.

C. Make sure that gate is level and operating smoothly under manual conditions before installation of gate operators. Do not proceed until gate panel is aligned and operates without binding.

3.2 INSTALLATION

A. Equipment in this section shall be installed in strict accordance with the manufacturer's printed instructions, current at the time of installation (unless otherwise shown on the contract drawings).

B. Coordinate locations of operators with contract drawings, other trades and shop drawings.

C. Installer shall insure that the electric service to the operator is at least 20 AMPS. Operator wattage is 1500.

D. The gate and installation shall conform to:

1. ASTM F 1184 standards for aluminum cantilever slide gates, Type II, Class 2.
2. ASTM F 2200 standard specification for automated vehicular gate construction.
3. UL325 standards.

E. The installing contractor shall be responsible to ensure that appropriate external primary entrapment safety devices be installed for the specific site conditions to protect against all potential entrapment zones. Proper operation of these safety devices shall be verified and training as to the operation and maintenance of these devices for the users and owners shall be documented.

F. Safety Loops installed in asphalt are to be installed before/during the installation of the asphalt paving. Saw cutting of the asphalt paving for the installation of the safety loops is not permitted.

3.3 SYSTEM VALIDATION

A. The complete system shall be adjusted to assure it is performing properly. Test gate operator through a minimum of ten full cycles and adjust to ensure operation without binding, scraping or uneven motion. Test limit switches for proper "at rest" gate position.

B. Gate lock shall be aligned properly to lock and unlock without binding. Test gate lock through a minimum of ten full cycles and verify secure locking.

C. All anchor bolts shall be fully concealed in the finished installation.

D. Test and Explain Safety Features:

1. Each system feature and device is a separate component of the gate system.
2. Read and follow all instructions for each component.
3. Ensure that all instructions for mechanical components, safety devices and the gate operator are available for everyone who will be using the gate system.
4. The warning signs shipped with the gate operator must be installed in a prominent position on both sides of the gate.

3.4 OWNER TRAINING AND DOCUMENTATION

A. Train Owner’s personnel on how to safely shut of electrical power, release, and manually operate the gate. Additionally, demonstrate the general maintenance of the gate operator and accessories and provide one copy of “Programming and Operations Manual” for the Owner’s use. Manuals will identify parts of the equipment for future procurement. Direct maintenance personnel to the

technical support sections on HySecurity's website at www.hysecurity.com (or technical support website of approved equal manufacturer, if selected).

END OF SECTION

SECTION 323123 – POST AND RAIL FENCE

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Scope of work. This Section includes post and rail (also known as buck and rail) fence at the Nisqually/Ohop Trail.

1.2 RELATED WORK

A. Coordinate related work specified in other parts of the Project Specifications, including, but not limited to the following:

1. 061000 Rough Carpentry

1.3 REFERENCE STANDARDS

A. Reference standards cited in this specification refer to the current reference standard published at the time of the latest revision date logged at the end of this specification unless a date is specifically cited.

1. American Society for Testing and Materials (ASTM)
2. State Environmental Policy Act (SEPA)

1.4 SUBMITTALS

A. Submit under provisions of Section 01 30 00 - Administrative Requirements.

B. Shop Plans: Layout of fences with dimensions, details, and finishes of components, and accessories.

C. Product Data:

1. Manufacturer's data sheets on each product to be used.
2. Preparation instructions and recommendations.
3. Storage and handling requirements and recommendations.
4. Typical installation methods.

D. Verification Samples: Two representative units of each type, size, pattern, and color.

E. Shop Drawings: Include details of materials, construction, and finish. Include relationship with adjacent construction.

1.5 QUALITY ASSURANCE

A. Manufacturer: Company operating in the United States having U.S. manufacturing facility/facilities specializing in manufacturing products specified in this section with a minimum of five years documented experience.

B. Installer Qualifications: Company specializing in performing work of this section with a minimum of five years documented experience with projects of similar scope and complexity.

C. Source Limitations: Provide each type of product from a single manufacturing source to ensure uniformity.

D. Tolerances: Current published edition of ASTM specifications tolerances apply. ASTM specification tolerances supersede any conflicting tolerance.

E. Mock-Up: Construct a mock-up with actual materials in sufficient time for Engineer's review and to not delay construction progress. Locate mock-up as acceptable to Engineer and provide temporary foundations and support.

1. Intent of mock-up is to demonstrate quality of workmanship and visual appearance.
2. If mock-up is not acceptable, rebuild mock-up until satisfactory results are achieved.
3. Retain mock-up during construction as a standard for comparison with completed work.
4. Do not alter or remove mock-up until work is completed or removal is authorized.

F. DELIVERY, STORAGE, AND HANDLING

1. Store and handle in strict compliance with manufacturer's written instructions and recommendations.
2. Protect from damage due to weather, excessive temperature, and construction operations.

G. PROJECT CONDITIONS

1. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's recommended limits.

H. WARRANTY

1. Manufacturer's standard limited warranty unless indicated otherwise.

PART 2 - PRODUCTS

2.1 MANUFACTURER

A. Acceptable manufacturer: Parma Post & Pole, Inc. which is located at 26920 Highway 95, Parma, Idaho 83660 (1/2 mile east of Parma) Phone: 208.722.6837 Website: www.parmapostandpole.com; or approved equal.

B. Requests for substitutions will be considered in accordance with provisions of section 016000 Product Requirements.

2.2 POST AND RAIL FENCE

A. The posts and rails are to be peeled and treated lodgepole pines, size as indicated in drawings.

B. Posts shall be pre-cut to the specified length in the drawings, and pre-notched.

2.3 FASTENERS

A. 70D 7” galvanized nails shall be used to nail the rails onto the fence.

B. 70D 7” galvanized nail shall be used to nail posts for A-frames together.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Do not begin installation until substrates have been properly constructed and prepared.

B. If substrate preparation is the responsibility of another installer, notify Engineer in writing of unsatisfactory preparation before proceeding.

3.2 PREPARATION

A. Clean surfaces thoroughly prior to installation.

B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best results for the substrate under the project conditions.

3.3 POST AND RAIL INSTALLATION

A. Install in accordance with manufacturer’s instructions, approved submittals, and in proper relationship with adjacent construction.

B. A-Frame: A-frame shall be composed of 2 posts that are notched at the top intersection point. The posts shall be laid at a 60-degree angle one post on top of the other and lock the notches to fit snuggly together. Drive a single 7" galvanized nail through the center of the intersection point.

C. A-Frame Spacing: A-frames shall be evenly spaced in the line of fence on a maximum of 11-foot center unless otherwise noted.

D. Posts shall be buried in 3 inches of wood chips.

E. Rail: The top rail and bottom rail shall overhang the A-frame by +/-6 inches. Nail the rails into the posts using 70D 7" galvanized nails.

F. Cross Rail: The cross rail shall be installed at a diagonal every 6 fence sections and shall connect one A-frame to the adjacent A-frame. Nail the cross rail with 70D 7" galvanized nails.

G. Take precautions to prevent any marring and gouging of wood members during construction. Repair all damaged surfaces after completing construction.

H. Post and rail fence shall not come undone by any force of manpower.

3.4 CLEANING

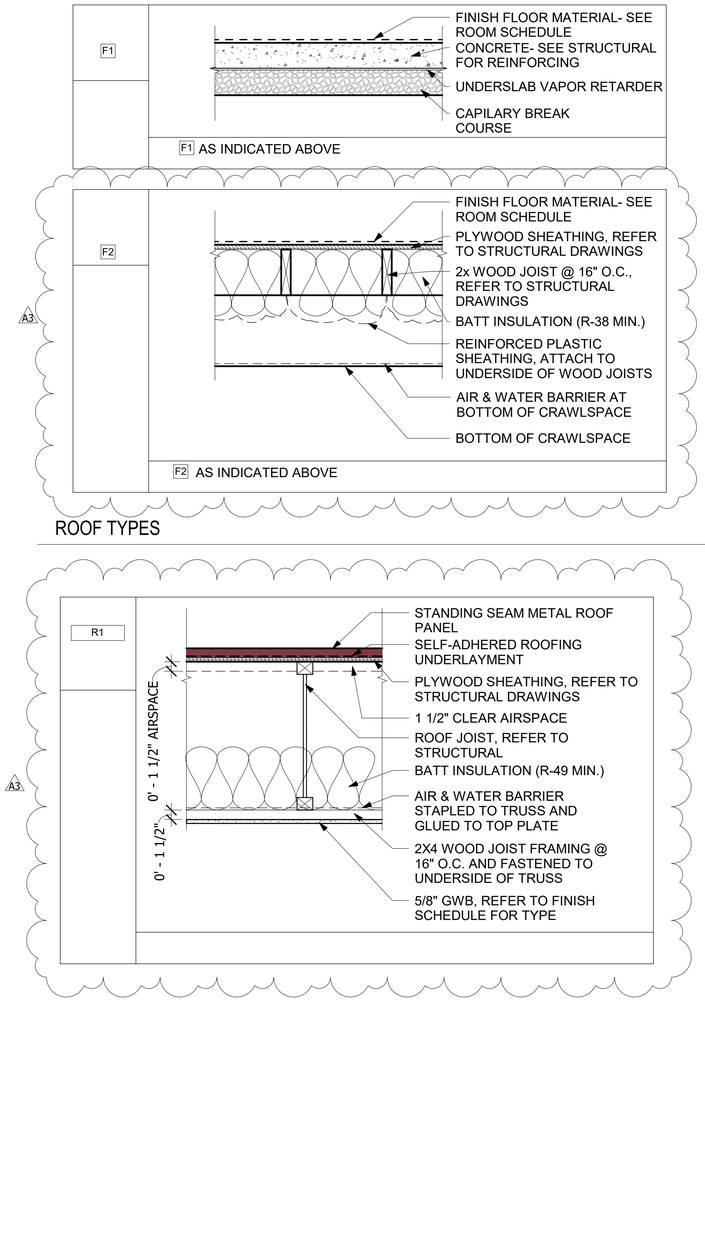
A. Clean up debris and unused or excess material and remove from the site. Completely remove all concrete, mud, dirt and other substances from posts, fabric, and fittings.

B. All excess concrete shall be disposed of off-site.

C. Touch-up, repair or replace damaged products before Substantial Completion.

END OF SECTION

FLOOR TYPES



ROOF TYPES

BID SET

811 Call 811 two business days before you dig

SHEET 80 OF 253

PLOT DATE: 5/13/2024 11:38:19 AM

CAD NO.

	DATE	APP.	INT.

REVISIONS	
ISSUED	DATE
ADDENDUM #2	05/08/2024
ADDENDUM #3	05/13/2024

NO.

ACTION	BY	DATE
DESIGNED	-	1-08-2024
DRAWN	-	1-08-2024
CHECKED (FIELD)	-	
CHECKED (HDQTS.)	HQ	

10347
REGISTERED ARCHITECT
JAMES HILL
STATE OF WASHINGTON

REGISTERED STAMP

WASHINGTON STATE PARKS AND RECREATION COMMISSION

NISQUALLY STATE PARK

NEW FULL SERVICE PARK - PHASE 2

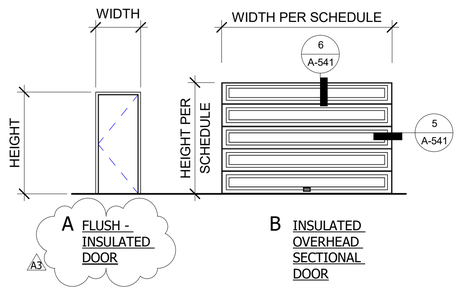
FLOOR AND ROOF TYPES
A-502

SCALE
AS SHOWN

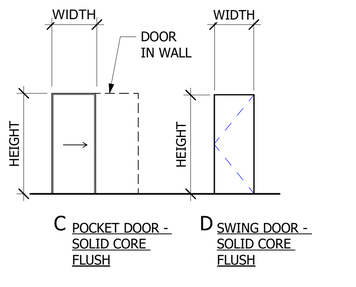
PARKS FILE#

DOOR SCHEDULE

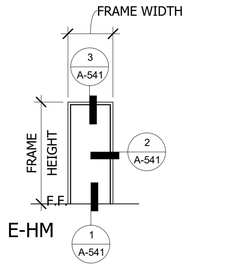
NO.	ROOM NAME	DOOR TYPE	DOOR WIDTH	DOOR HEIGHT	DOOR THICKNESS	DOOR MATERIAL	DOOR FINISH	FRAME TYPE	FRAME MATERIAL	FRAME FINISH	HARDWARE GROUP	REMARKS
1AA	GARAGE 1	B	12' - 0"	7' - 9 1/8"	1 31/32"	STL	FF	-	STL	PT		
1AB	GARAGE 1	D	2' - 10"	7' - 0"	1 3/4"	WD	FF	HM-1	HM	PT	GROUP 16	45 MIN. RATING
A3 1AC	GARAGE 1	A	3' - 0"	7' - 0"	1 3/4"	HM	FF	E-HM	HM	PT	GROUP 17	
1BA	GARAGE 2	B	12' - 0"	7' - 9 1/8"	1 31/32"	STL	FF	-	STL	PT		
1BB	GARAGE 2	D	2' - 10"	7' - 0"	1 3/4"	WD	FF	HM-1	HM	PT	GROUP 16	45 MIN. RATING
A3 1BC	GARAGE 2	A	3' - 0"	7' - 0"	1 3/4"	HM	FF	E-HM	HM	PT	GROUP 17	
100A	LIVING	A	3' - 0"	7' - 0"	1 3/4"	HM	FF	E-HM	HM	PT	GROUP 18	
101A	STORAGE	C	3' - 0"	7' - 0"	1 3/8"	WD	FF	-	-	PT	GROUP 19	
102A	LINEN	C	3' - 0"	7' - 0"	1 3/8"	WD	FF	-	-	PT	GROUP 20	
105A	BEDROOM	D	2' - 10"	7' - 0"	1 3/4"	WD	FF	HM-1	HM	PT	GROUP 21	
105AA	CLOSET	C	3' - 0"	7' - 0"	1 3/8"	WD	FF	-	-	PT	GROUP 20	
106A	BATH	D	2' - 10"	7' - 0"	1 3/4"	WD	FF	HM-1	HM	PT	GROUP 21	
108A	BEDROOM	D	2' - 10"	7' - 0"	1 3/4"	WD	FF	HM-1	HM	PT	GROUP 21	
108AA	CLOSET	C	2' - 6"	6' - 8"	1 3/8"	WD	FF	-	-	PT	GROUP 20	
200A	LIVING	A	3' - 0"	7' - 0"	1 3/4"	HM	FF	E-HM	HM	PT	GROUP 18	
201A	LINEN	C	3' - 0"	7' - 0"	1 3/8"	WD	FF	-	-	PT	GROUP 20	
202A	STORAGE	C	3' - 0"	7' - 0"	1 3/8"	WD	FF	-	-	PT	GROUP 19	
205A	BEDROOM	D	2' - 10"	7' - 0"	1 3/4"	WD	FF	HM-1	HM	PT	GROUP 21	
205AA	CLOSET	C	3' - 0"	7' - 0"	1 3/8"	WD	FF	-	-	PT	GROUP 20	
206A	BATH	D	2' - 10"	7' - 0"	1 3/4"	WD	FF	HM-1	HM	PT	GROUP 21	
208A	BEDROOM	D	2' - 10"	7' - 0"	1 3/4"	WD	FF	HM-1	HM	PT	GROUP 21	
208AA	CLOSET	C	2' - 6"	6' - 8"	1 3/8"	WD	FF	-	-	PT	GROUP 20	



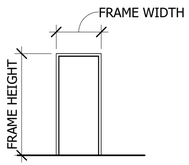
1 EXTERIOR DOOR TYPES
3/16" = 1'-0"



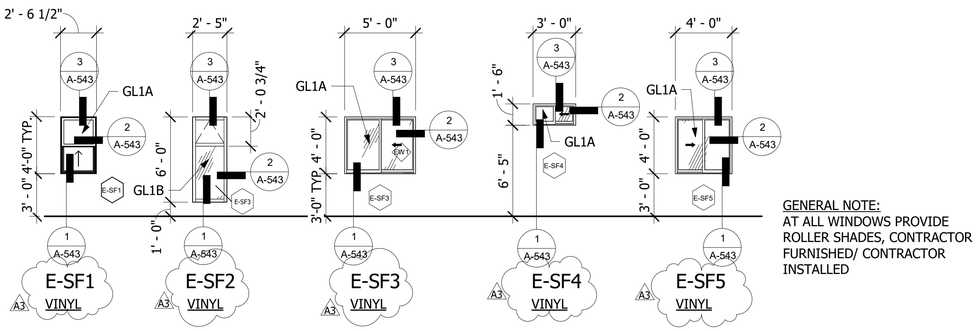
2 INTERIOR DOOR TYPES
3/16" = 1'-0"



3 EXTERIOR FRAME TYPES
3/16" = 1'-0"



4 INTERIOR HOLLOW METAL FRAME
3/16" = 1'-0"



GENERAL NOTE:
AT ALL WINDOWS PROVIDE ROLLER SHADES, CONTRACTOR FURNISHED/ CONTRACTOR INSTALLED

5 EXTERIOR STOREFRONT FRAME TYPES
3/16" = 1'-0"

DOOR NOTES

1. ALL DOOR HARDWARE TO CONFORM WITH A.D.A. STANDARDS.
2. ALL DOOR HARDWARE HEIGHTS TO CONFORM WITH A.D.A. STANDARDS.
3. PRIOR TO CONSTRUCTION, SUBMIT DOOR HARDWARE TO ARCHITECT FOR APPROVAL.
4. CONFIRM DOOR FRAME DIMENSIONS AND COMPATIBILITY WITH DOOR HARDWARE PRIOR TO IMPLEMENTATION.
5. SHOP PRIME ALL HOLLOW METAL FRAMES.
6. REFER TO FINISH LEGEND FOR ALL DOOR AND FRAME FINISH REFERENCES.
7. PROVIDE ACOUSTICAL INSULATION AND SEALANTS AT DOOR AND FRAMES INSTALLED .
8. DOORS THAT ARE NOT AUTOMATIC SHALL HAVE ACCESSIBLE FEATURES AND HARDWARE PER CURRENT IBC AND ANSI 117

GENERAL DOOR & FRAME NOTES

1. DOOR & FRAME SCHEDULE NOTES APPLY TO ALL DOOR & FRAME.
2. DIMENSIONSOF ALL OPENINGS TO BE FIELD VERIFIED PRIOR TO FABRICATION.
3. PROVIDE 1/2" MAX SHIM SPACE AT HEAD, JAMB AND SILL AT OPENINGS.
4. FRAME MANUFACTURER SHALL COORDINATE LOCATIONS OF CONCEALEd CONDUIT & J-BOXES FOR SYSTEM HARDWARE PRIOR TO MANUFACTURING OF FRAMES & COORDINATE WITH ASSOCIATED HARDWARE & DEVICES.
5. SEE SPECIFICATIONS SECTION 08 71 00 DOOR HARDWARE FOR DOOR HARWARE SET NOTED IN DOOR SPECIFICATIONSOPENING SCHEDULE.
6. ALL HOLLOW METAL DOORS AND FRAMES ARE TO BE PAINTED.

NOTES:
1. HARDWARE GROUPS SHOWN IN SPECIFICATIONS.
2. DETAILS SHOWN ON DOOR FRAME BELOW.
3. HOLLOW METAL FRAMES TO BE PAINTED TO MATCH RUBBER BASE, PER FINISH SCHEDULE.
4. HOLLOW METAL DOORS TO BE PAINTED TO MATCH ADJACENT SIDING COLOR.
5. WOOD DOORS TO BE STAINED CLEAR MAPLE.

ABBREVIATIONS:

ALUM	ALUMINUM
POLY	HONEYCOMB POLYMER CORE
FF	FACTORY FINISH
FG	FIBERGLASS
SL	STAINED AND LAQUERED
STL	STEEL METAL
HM	HOLLOW METAL
TEMP	TEMPERED GLAZING
P	PAINT
WD	WOOD
GD	GARAGE DOOR
F	FLUSH- INSULATED HOLLOW METAL DOOR
E	EXTERIOR

WINDOW TYPE NOTES

1. ALL WINDOWS SHOULD BE RATED WITH U-FACTOR, SHGC, VT AND LEAKAGE RATING

2. U-FACTOR AND SHGC RATING TO COMPLY WITH TABLE C402.2 OF WASHINGTON STATE ENERGY CODE (51-11C WAC)

GLAZING TYPES

GL1A - HIGH PERFORMANCE LOW-E INSULATED TEMPERED CLEAR GLASS
U-VALUE: 0.38 MIN.
VISIBLE TRANSMITTANCE: 70% MINIMUM
SHGC: 0.39 MAXIMUM

GL1B - HIGH PERFORMANCE LOW-E INSULATED CLEAR GLASS
U-VALUE: 0.38 MIN.
VISIBLE TRANSMITTANCE: 70% MINIMUM
SHGC: 0.39 MAXIMUM

BID SET

811 Call 811 two business days before you dig

SHEET 86 OF 253

CAD NO.

REVISIONS	DATE	APP.	INT.
ISSUED	DATE		
ADDENDUM #2	05/08/2024		
ADDENDUM #3	05/13/2024		

ACTION	BY	DATE
DESIGNED	-	1-08-2024
DRAWN	-	1-08-2024
CHECKED (FIELD)	-	
CHECKED (HDQTS.)	HQ	

10347 REGISTERED ARCHITECT
JAMES HILL
STATE OF WASHINGTON

REGISTERED STAMP

WASHINGTON STATE PARKS AND RECREATION COMMISSION

NISQUALLY STATE PARK

NEW FULL SERVICE PARK - PHASE 2

DOOR & FRAME SCHEDULE
A-601

SCALE
AS SHOWN

PARKS FILE#

PLOT DATE: 5/13/2024 11:37:30 AM

DOOR SCHEDULE

NO.	ROOM NAME	DOOR							FRAME			HARDWARE GROUP	REMARKS
		TYPE	WIDTH	HEIGHT	THICKNESS	MATERIAL	FINISH	GLAZING	TYPE	MATERIAL	FINISH		
01A	RESTROOM	F	3' - 0"	7' - 0"	1 3/4"	HM	FF	-	E-HM2	HM	FF	SET 1	
001A	ENTRY / WAITING	F	3' - 0"	7' - 0"	1 3/4"	HM	FF	-	HM-1	HM	FF	SET 3	
001B	HALLWAY	F	3' - 0"	7' - 0"	1 3/4"	HM	FF	-	E-HM2	HM	FF	SET 2	
02A	RESTROOM	F	3' - 0"	7' - 0"	1 3/4"	HM	FF	-	E-HM2	HM	FF	SET 1	
003A	LOCKERS	F	3' - 0"	7' - 0"	1 3/4"	WD	FF	-	HM2	HM	FF	SET 8	
100A	ENTRY / WAITING	2XFG	6' - 8"	6' - 8"	1 3/4"	ALUM	FF	GL1	E-SF5	ALUM.	FF	SET 5	
101A	CONFERENCE ROOM	2XFG	6' - 0"	6' - 10"	1 3/4"	HM	FF	GL3	HM-1	HM	FF	SET 7	
101B	CONFERENCE ROOM	F	3' - 0"	7' - 0"	1 3/4"	HM	FF	-	E-HM2	HM	FF	SET 6	
102A	ENTRY / WAITING	F	3' - 0"	7' - 0"	1 3/4"	WD	FF	-	HM2	HM	FF	SET 8	
103A	ENTRY / WAITING	F	3' - 0"	7' - 0"	1 3/4"	WD	FF	-	HM2	HM	FF	SET 9	
104A	HALLWAY	FG2	3' - 0"	7' - 0"	1 3/4"	WD	FF	GL3	HM2	HM	FF	SET 10	
105A	OFFICE / FLEX	FG2	3' - 0"	7' - 0"	1 3/4"	WD	FF	GL3	HM2	HM	FF	SET 10	
106A	HALLWAY	F	3' - 0"	7' - 0"	1 3/4"	WD	FF	-	HM2	HM	FF	SET 11	
106AA	STORAGE	F	3' - 0"	7' - 0"	1 3/4"	WD	FF	-	HM2	HM	FF	SET 11	
106B	STORAGE	F	2' - 6"	7' - 0"	1 3/4"	WD	FF	-	HM2	HM	FF	SET 11	
107A	HALLWAY	F	3' - 0"	7' - 0"	1 3/4"	WD	FF	-	HM2	HM	FF	SET 12	
108A	MECH / ELEC	2XF	7' - 6"	7' - 0"	1 3/4"	HM	FF	-	E-HM1	HM	FF	SET 13	
109A	LOUNGE	FG2	3' - 0"	7' - 0"	1 3/4"	WD	FF	GL3	HM2	HM	FF	SET 14	
109B	LOUNGE	F	3' - 0"	7' - 0"	1 3/4"	HM	FF	-	HM2	HM	FF	SET 6	
110A	LOUNGE	F	3' - 0"	7' - 0"	1 3/4"	WD	FF	-	HM2	HM	FF	SET 4	
111A	WASH	F	3' - 0"	7' - 0"	1 3/4"	WD	FF	-	HM2	HM	FF	SET 8	
112A	SHOWER	F	3' - 0"	7' - 0"	1 3/4"	WD	FF	-	HM2	HM	FF	SET 8	
113A	RISER ROOM	F	3' - 0"	7' - 0"	1 3/4"	HM	FF	-	E-HM2	HM	FF	SET 6	

DOOR NOTES

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2. ALL DOOR HARDWARE HEIGHTS TO CONFORM WITH A.D.A. STANDARDS.
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4. CONFIRM DOOR FRAME DIMENSIONS AND COMPATIBILITY WITH DOOR HARDWARE PRIOR TO IMPLEMENTATION.
5. SHOP PRIME ALL HOLLOW METAL FRAMES.
6. REFER TO FINISH LEGEND FOR ALL DOOR AND FRAME FINISH REFERENCES.
7. PROVIDE ACOUSTICAL INSULATION AND SEALANTS AT DOOR AND FRAMES INSTALLED .
8. DOORS THAT ARE NOT AUTOMATIC SHALL HAVE ACCESSIBLE FEATURES AND HARDWARE PER CURRENT IBC AND ANSI 117
9. EXITING DOORS SHALL HAVE APPROVED PANIC HARDWARE PER CURRENT IBC
10. TACTILE SIGNS SHALL BE INSTALLED AS PER CURRENT IBC AND ANSI 117

GENERAL FRAME & DOOR NOTES

1. DOOR & FRAME SCHEDULE NOTES APPLY TO ALL DOOR & FRAME.
2. DIMENSIONSOF ALL OPENINGS TO BE FIELD VERIFIED PRIOR TO FABRICATION.
3. PROVIDE 1/2" MAX SHIM SPACE AT HEAD, JAMB AND SILL AT OPENINGS.
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5. SEE SPECIFICATIONS SECTION 08 71 00 DOOR HARDWARE FOR DOOR HARWARE SET NOTED IN DOOR SPECIFICATIONSOPENING SCHEDULE.
6. ALL HOLLOW METAL DOORS AND FRAMES ARE TO BE PAINTED.

NOTES:
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4. HOLLOW METAL DOORS TO BE PAINTED TO MATCH ADJACENT SIDING COLOR.
5. WOOD DOORS TO BE STAINED CLEAR MAPLE.

ABBREVIATIONS:

ALUM	ALUMINUM
POLY	HONEYCOMB POLYMER CORE
FF	FACTORY FINISH
SL	STAINED AND LAQUERED
HM	HOLLOW METAL
TEMP	TEMPERED GLAZING
P	PAINT
WD	WOOD
GD	GARAGE DOOR
F	FLUSH- INSULATED HOLLOW METAL DOOR
E	EXTERIOR

GLAZING TYPES

GL1- HIGH PERFORMANCE LOW-E INSULATED CLEAR GLASS
U-VALUE: 0.38 MIN.
VISIBLE TRANSMISSION: 70% MIN.
SHGC: 0.39 MAXIMUM

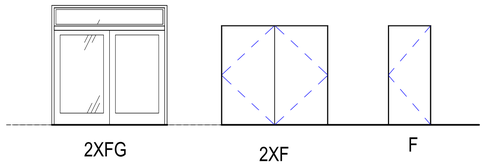
GL3- TEMPERED CLEAR GLASS
VISIBLE TRANSMISSION: 70% MIN.
A3

GL2- HIGH PERFORMANCE LOW-E TEMPERED INSULATED CLEAR GLASS
U-VALUE: 0.38 MIN.
VISIBLE TRANSMISSION: 70% MIN.
SHGC: 0.39 MAXIMUM

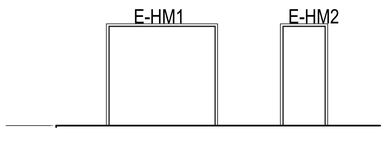
WINDOW TYPE NOTES

1. ALL WINDOWS SHOULD BE RATED WITH U-FACTOR, SHGC, VT AND LEAKAGE RATING

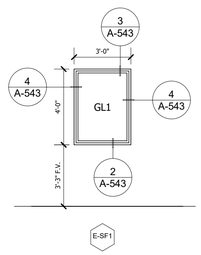
2. U-FACTOR AND SHGC RATING TO COMPLY WITH TABLE C402.2 OF WASHINGTON STATE ENERGY CODE



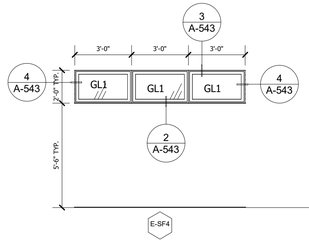
A EXTERIOR DOOR TYPES
3/16" = 1'-0"



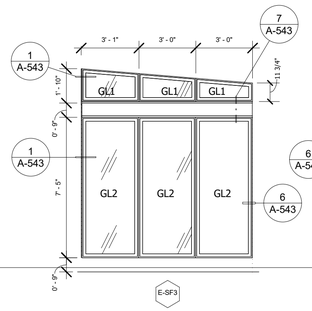
B EXTERIOR HM DOOR FRAME TYPES
3/16" = 1'-0"



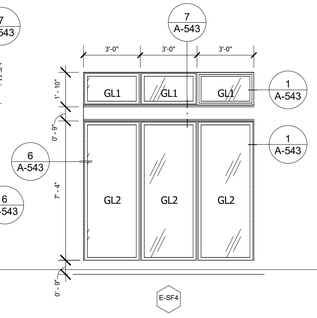
E-SF1



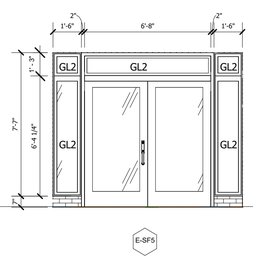
E-SF2



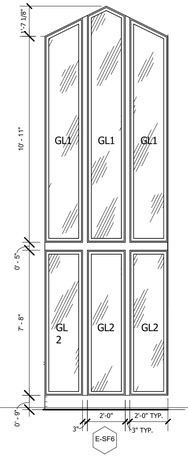
E-SF3



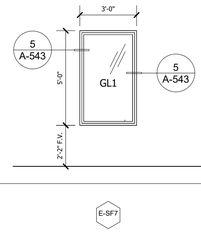
E-SF4



E-SF5

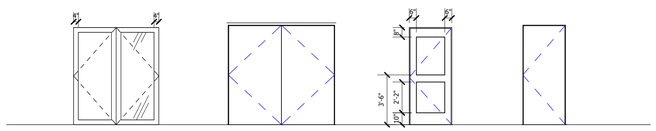


E-SF6

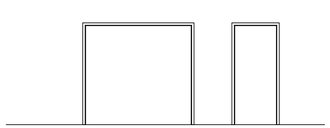


E-SF7

C EXTERIOR SF TYPES
1/4" = 1'-0"



D INTERIOR DOOR TYPES
3/16" = 1'-0"



BID SET

811 Call 811 two business days before you dig

SHEET 120 OF 253

PLOT DATE: 5/13/2024 11:30:04 AM

CAD NO.

	DATE	APP.	INT.

ISSUED	DATE
ADDENDUM #2	05/08/2024
ADDENDUM #3	05/13/2024

REVISIONS NO.

ACTION	BY	DATE
DESIGNED	-	1/8/2024
DRAWN	-	1/8/2024
CHECKED (FIELD)	-	
CHECKED (HDQTS.)	HQ	

10347 REGISTERED ARCHITECT
JAMES HILL
STATE OF WASHINGTON

REGISTERED STAMP

WASHINGTON STATE PARKS AND RECREATION COMMISSION

NISQUALLY STATE PARK

NEW FULL SERVICE PARK - PHASE 2

DOOR & FRAME SCHEDULE
A-601

SCALE
AS SHOWN

PARKS FILE#

PLANTING SCHEDULE

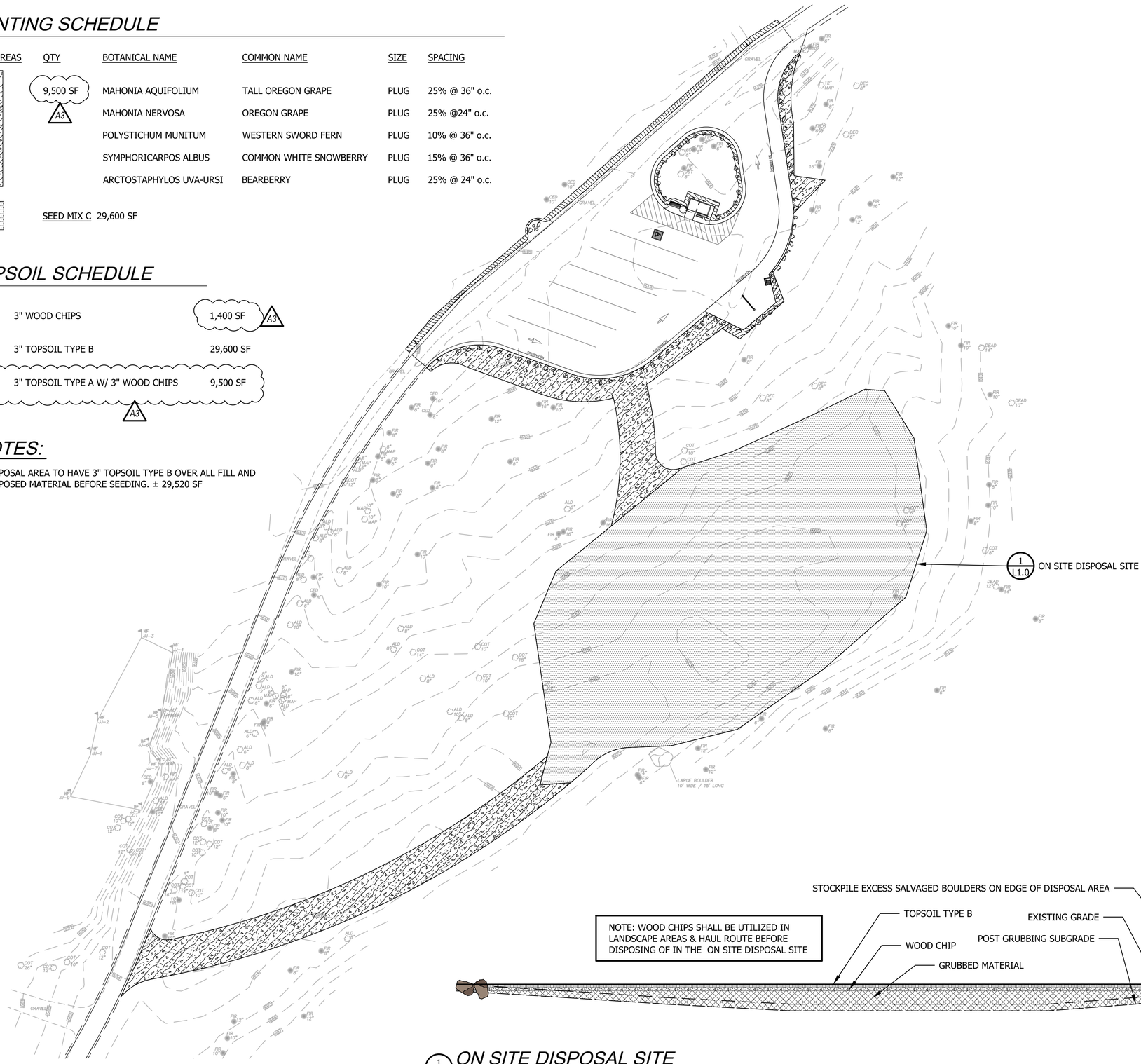
SHRUB AREAS	QTY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING
	9,500 SF A3	MAHONIA AQUIFOLIUM	TALL OREGON GRAPE	PLUG	25% @ 36" o.c.
		MAHONIA NERVOSA	OREGON GRAPE	PLUG	25% @24" o.c.
		POLYSTICHUM MUNITUM	WESTERN SWORD FERN	PLUG	10% @ 36" o.c.
		SYMPHORICARPOS ALBUS	COMMON WHITE SNOWBERRY	PLUG	15% @ 36" o.c.
		ARCTOSTAPHYLOS UVA-URSI	BEARBERRY	PLUG	25% @ 24" o.c.
	SEED MIX C 29,600 SF				

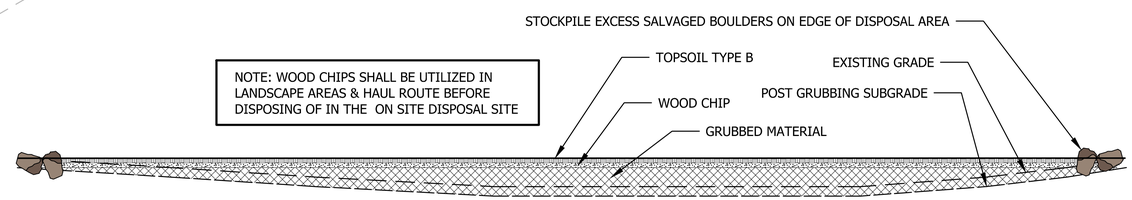
TOPSOIL SCHEDULE

3" WOOD CHIPS	1,400 SF A3	
3" TOPSOIL TYPE B	29,600 SF	
3" TOPSOIL TYPE A W/ 3" WOOD CHIPS	9,500 SF	A3

NOTES:

1. DISPOSAL AREA TO HAVE 3" TOPSOIL TYPE B OVER ALL FILL AND DISPOSED MATERIAL BEFORE SEEDING. ± 29,520 SF





1 L1.0 *ON SITE DISPOSAL SITE*
SCALE: NOT TO SCALE

811 Call 811 two business days before you dig

SHEET 237 OF 253

BID SET

CAD NO.

	DATE	APP.	INT.	REVISIONS	NO.
	5/13/2024			ADDENDUM #3: -ADDED 3" TOPSOIL TYPE A W/ 3" WOOD CHIPS FOR SHRUB AREA TO MATCH OTHER SCHEDULE B RESTORATION -REVISED QUANTITIES	ADDENDUM #3

ACTION	BY	DATE
DESIGNED	BD	1/8/2024
DRAWN	AD,JH	1/8/2024
CHECKED (FIELD)	BD	
CHECKED (HDQTS.)		

STATE OF WASHINGTON · ROBERT W. DROLL · 21500 EXP. 12/09/2024 · LANDSCAPE ARCHITECT

REGISTERED STAMP

WASHINGTON STATE PARKS AND RECREATION COMMISSION

NISQUALLY STATE PARK

NEW FULL SERVICE PARK - PHASE 2

LANDSCAPE PLAN - BUS PARKING B-L1.0

SCALE 30' 0 60'

PARKS FILE#